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# Identification of mental health and quality of life outcomes in primary care databases in the United Kingdom: a systematic review

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SCHOLARONE™ Manuscripts Identification of mental health and quality of life outcomes in primary care databases in the United Kingdom: a systematic review

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#### **Abstract**

Objectives: To summarise the methods used to identify outcomes of anxiety, depression, fatigue, dementia/mild cognitive dysfunction, sexual dysfunction, pain, sleep disorders, and fatal and non-fatal self-harm in studies using electronic health records from primary care databases in the United Kingdom (UK).

*Design:* Systematic review of the literature. Medline and Embase were searched up to June 2018 to identify eligible studies. Two researchers appraised the studies applying pre-defined criteria. When necessary, authors were contacted to request the list of Read codes used in the original studies.

Results: 120 studies were eligible. Codelists were available for 17/42 studies of depression; 21/41 studies of fatal and non-fatal self-harm; 17/27 studies of dementia/cognitive dysfunction; 5/12 studies of anxiety; 4/8 studies of pain; 3/6 studies of fatigue and sexual dysfunction; 1/2 studies of sleep disorders. Depression was most often defined using codes for diagnoses (37/42 studies) and/or antidepressants prescriptions (21/42 studies); 6 studies reported including symptoms in their definition. Anxiety was defined with codes for diagnoses (12/12 studies); 4 studies also reported including symptoms. Fatal/non-fatal self-harm was ascertained in primary care data linked to the Office for National Statistics mortality database in 9 studies. Most studies of dementia included Alzheimer's disease, and vascular and frontotemporal dementias; 3 studies evaluated domains of cognitive function. Fatigue definitions varied little, including chronic fatigue syndrome, neurasthenia, and post viral fatigue syndrome. All studies of sexual dysfunction focused on male conditions, principally erectile dysfunction. Sleep disorders included insomnia and hypersomnia. There was substantial variability in the codes used to identify outcomes; validation of codelists was carried out for 21/120 studies.

Conclusions: Detailed information about codes used to identify mental health and quality of life outcomes in UK primary care databases was unavailable for around half of studies of these outcomes; where available, definitions and codelists were heterogeneous and rarely validated.

# Strengths and limitations of this study

- Comprehensive systematic review of the literature aiming at describing the methods used to identify outcomes of mental health and quality of life in electronic health records databases in the UK;
- Potential for error in the selection of the eligible studies minimised by duplication of the screening;
- The authors of the original studies were contacted to obtain the list of Read codes used when these were not publicly available;
- We only considered definitions of study outcomes, and did not consider studies
  where mental health or quality of life variables were covariates or exposure variables,
  limiting the generalisability of our results to these other contexts.

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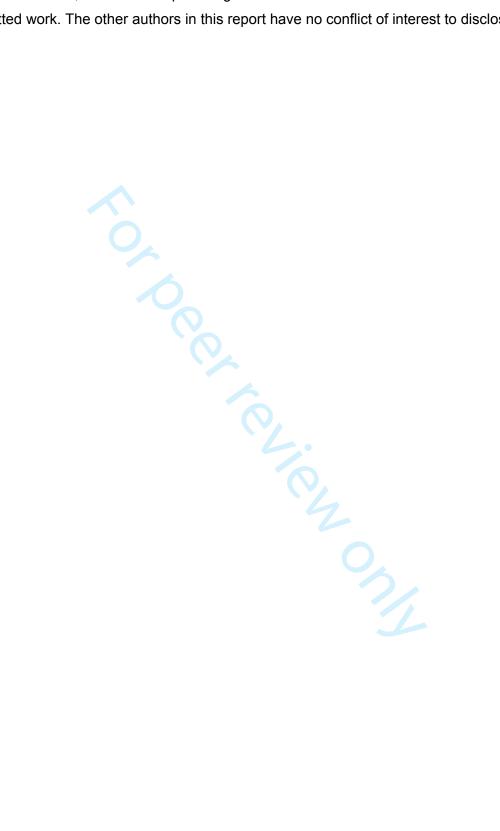
We would like to thank the authors of the original studies who kindly provided the list of codes used in their studies. We would also like to thank Daniel Dedman (CPRD/LSHTM) for helpful comments on the search expressions.

The copyright of the morbidity definitions/categorisations lists (©2014) obtained from the authors for the studies by Roddy et al, 2013, Abdul Sultan et al, 2017, and Mansfield et al, 2018, are owned by Keele University, the development of which was supported by the Primary Care Research Consortium. The authors would like to acknowledge Keele University's Prognosis and Consultation Epidemiology Research Group who have given us permission to utilise the morbidity definitions/categorisations lists (©2014); for access/details relating to the morbidity definitions/categorisation lists (©2014) please go to www.keele.ac.uk/mrr.

#### **Conflict of interest**

Dr Bhaskaran reports grants from Wellcome Trust, the Royal Society, Medical Research Council, and British Heart Foundation, outside the submitted work. Dr Williams reports that

CPRD has financial relationships with its clients, including the London School of Hygiene and Tropical Medicine, in relation to providing access to research data and services outside the submitted work. The other authors in this report have no conflict of interest to disclose.



#### Introduction

Primary care databases of electronic health records (EHR) in the United Kingdom (UK) such as The Clinical Practice Research Datalink (CPRD), QResearch or The Health Improvement Network (THIN) have been widely used to study mental health outcomes such as depression [1, 2], and other key aspects of quality of life, such as fatigue and pain [3, 4], even though the identification of patients with these conditions is not straightforward.

Strategies to identify patients with a given condition in the EHRs typically include generating lists of relevant codes, then searching the patients' record for these codes to identify symptoms, diagnoses, referrals, appointments for disease management and monitoring, and/or prescriptions of interest [5]. The process of developing a list of codes of interest, and deciding how to apply them, may be subjective. For example, a study on the selection of codes for stroke, a relatively well-defined clinical outcome, showed that researchers with clinical and epidemiological experience may have differing interpretations of the relevance of each code [6]. A systematic review on the identification of patients with cancer in UK primary care databases described several combinations of Read codes used across studies [7]. Estimates of validity of diagnoses in these databases have been generally high across disease types [8, 9], but the heterogeneity in the codelists raises issues of misclassification, and hampers the comparability of studies using the same data to assess the same outcome [10]. The pattern of use of the codes by the general practitioners (GPs) also needs consideration. For example, in recording depression, it has been shown that GPs have switched from diagnostic to symptom codes in recent years [11]; this may have a large impact on outcome definitions based around diagnostic codes. In addition, outcome definitions using prescription data may lead to misclassification where drugs have multiple indications: for example, sertraline, paroxetine, or escitalopram, amongst the most commonly used antidepressants, are also first-line treatments for generalised anxiety disorder [12]; and amitriptyline, a tricyclic antidepressant, is also a first-line treatment for neurophatic pain [13].

Given the broad interest in mental health and quality of life outcomes, and the strong potential for primary care data to contribute to studying these outcomes, our aim was to systematically review and summarise the strategies used to define such outcomes in previous studies, and the extent to which case definitions have been validated.

#### Methods

#### Outcomes of interest

The outcomes of interest for this review were: anxiety, depression, fatigue, dementia and mild cognitive impairment, pain, sexual dysfunction, sleep disorder and fatal and non-fatal self-harm. We considered that a study provided data for mild cognitive impairment when domains of cognitive function were studied (i.e. attention, executive function, memory, language, motor, and social). Composite outcomes of two or more of these outcomes (e.g. psychological impairment defined by anxiety or depression) were also eligible.

# Information sources and search strategy

We searched MEDLINE and Embase via Ovid®, from inception up to 28 June 2018, to identify studies that involved EHRs from primary care databases and studied one of the outcomes of interest (see above). The search expressions are provided in appendix 1, and combined terms to identify primary care databases, terms to identify mental health and quality of life outcomes, and terms indicating UK-based research. The CPRD, THIN and QResearch list of publications, available in their websites, were manually revised to identify additional studies. The lists of bibliographic references of the studies considered eligible for the review were also screened by hand to identify additional studies.

#### Studies eligibility

We considered eligible the studies that used data from a primary care database that routinely gathers EHR data from primary care practices in the UK, and in which the outcome of interest was one of those of interest for this study (see list above). This included purely descriptive studies on the incidence/prevalence of the outcome and analytical studies where the condition of interest was one of the main outcomes of the study. Studies of primary care data linked to other sources of data, such as the Hospital Episode Statistics (HES) or the Office for National Statistics (ONS) mortality data, were also considered eligible.

Abstracts from conferences were excluded, as it was unlikely that the methods section would provide sufficiently detailed information on the definition of the outcomes. Studies of pain caused by infectious agents (e.g. herpes zoster) were excluded; similarly, studies of sleep apnoea and narcolepsy were excluded due to their unlikely psychological origin [14, 15]. Studies reporting only on patterns of treatment of the conditions of interest were excluded, unless pharmacological treatment was clearly used as a proxy for the definition of the

condition. Studies where the outcome of interest was comorbidity were also excluded. Where there were multiple studies from the same group of authors, we considered these separately, since the definition of the same outcomes could have been updated over time.

The eligibility of the studies was determined by two authors (HC and HS) reviewing all records retrieved from the publications databases. First, the title of each study was read to determine the eligibility for the review; when the information provided in the title was insufficient for a clear exclusion of the study, the study was considered for further assessment. Secondly, the full text of each study not previously excluded was read, in order to determine the eligibility. Disagreements over study eligibility between the two reviewers were resolved by discussion, including with a third researcher (KB or RW) where needed.

# Data acquisition and extraction

We abstracted data on study characteristics (title, study design), the primary care database used, any database(s) linked to the primary care data, outcome(s) reported, definition of the outcome(s) (i.e. Read codes, drug prescriptions, International Classification of Diseases (ICD) codes, etc.) and any codelist available. When there were two or more definitions of the outcome (e.g. used in sensitivity analyses), we abstracted all information but considered only the main outcome for data analysis in this review. We also abstracted data on whether the codelist had been validated, and any description related to the handling of past or prevalent episodes of these outcomes. We considered that the study had attempted to validate the list of codes when the results were compared to data from another source, or when outcomes were confirmed by enquiring the patients' GP or by reviewing the patients' medical record. The data extraction process was repeated by a second author (HS) for 10% of the papers included for each outcome, to check for reliability in the extraction process.

When a study did not provide the codelist for the definition of the outcome in the original publication or in a publicly available repository, we contacted the corresponding author of the study by email seeking this information (appendix 2). In the case of emails that could not be delivered to the corresponding author, we searched the contact of another study author, usually the first or the last author, and addressed the email to her/him; if this failed to be delivered, no further attempt of contact was made. For all delivered emails, if no response was received within two weeks, a follow up email was sent.

# Data analysis

We produced descriptive tables showing the number and proportion of studies eligible for each outcome, by primary care database and codelist availability. We described, for each outcome, the types of codes used in the definition of the outcomes (e.g. diagnosis codes, symptom codes, prescription codes). The lists of codes were also reviewed to assess the clinical characteristics of the disorders included (e.g. whether mixed anxiety and depression was included in the definition of anxiety or depression); this was done by manually reviewing the list of codes to identify codes related to different clinical characteristics of the specific outcome. To describe the Read codes most commonly used to identify these outcomes in the data, we produced a list of Read codes sorted by number of studies that used the code. The results of the validation studies described in the original papers were reported descriptively.



#### Results

Of 5,946 records initially identified in the bibliographic references search, 2,979 were discarded as being duplicated, which left 2,967 records to be assessed for eligibility (Figure 1). The title assessment resulted in the exclusion of 2,485 records, and 482 studies were considered for full text assessment. Of these, 368 studies were excluded, mostly because they were abstracts from conferences or did not evaluate relevant outcomes. Six papers were identified from the screening of the references. A total of 120 studies were eligible for the systematic review. The results for each outcome are provided below.

# Anxiety

12 studies had anxiety as an outcome (Table 1, appendix table 3); of these, two studied panic only [2, 16]. The list of codes used to identify outcomes of anxiety was available for 5 of the 12 studies (41.7%); in one study, the cases of anxiety were identified in CPRD data linked to HES. All 12 studies included codes for diagnosis of anxiety, and 4 (33.3%) included also codes for anxiety symptoms. Prescriptions were considered in the definition of the outcome in 1 study only (8.3%).

Of the 5 studies for which codelists were available, 5 included codes for generalized anxiety disorder (100%), 4 for phobia (80.0%), 4 for panic disorder/attacks (80.0%), 3 for mixed anxiety and depression (60.0%), and 2 for stress-related disorders (40.0%) (Table 2). Codes for post-traumatic stress disorder and obsession-compulsion were less often included (1 study each, 20.0%).

Only one study reported including drugs prescriptions in the definition of the outcome [17]; this considered diazepam and lorapezam only (Table 3).

Two studies [2, 18] assessed the validity of the codelists (Table 4). The proportion of cases confirmed was reported in one study: 73.5% for cases treated with anxiolytics, antidepressants and hypnotics, and 89.6% in those not pharmacologically treated [18].

Appendix 11 provides the list of Read codes used to identify patients with anxiety in the eligible studies; appendix 20 provides the list of ICD-10 codes.

# Depression

42 studies identified outcomes of depression (Table 1, appendix table 4). The list of codes used to identify outcomes of depression was available for 17 of the 42 studies (40.5%); 2 studies identified cases of depression in primary care data linked to HES data, using ICD-10

codes. Six studies defined depression by proxy of antidepressants intake only; the remaining 36 studies described to have included codes for diagnoses of depression and 6 (14.3%) studies also considered symptoms of depression in the definition of the outcome. 15 studies (35.7%) reported having excluded patients with history of depression.

Of the 17 studies for which the codelists were available, 10 included codes for mixed anxiety and depression (58.8%), 4 for bipolar disorder (23.5%) and 3 for depression in dementia (17.6%) (Table 2).

Antidepressant prescriptions, in isolation or combination with diagnostic/symptoms Read codes, were considered in the identification of patients with depression in 21 studies (50.0%); in 6 studies, depression was solely defined by the prescription of antidepressants (Table 3). The list of antidepressant categories was seldom provided; of the studies that reported this information, selective serotonin re-uptake inhibitors were the group most often considered (6 studies), followed by monoamine-oxidase inhibitors and tricyclic and related antidepressants drugs (3 studies each).

Five studies (11.9%) assessed the performance of the list of codes to identify patients with depression (Table 4). The proportion of cases confirmed was reported by two studies only: 83.3% [19] and 89.6% [20].

The list of Read codes used to identify patients with depression is provided in appendix 12; appendix 21 provides the list of ICD-10 codes.

#### Composite outcome of anxiety and depression

Two studies provided data for composite outcomes of anxiety and depression (Table 1 and appendix table 5). The codelist was available for the two studies. The studies reported including codes for symptoms as well as diagnosis of anxiety and depression, and included prescriptions of antidepressants and antianxiety drugs in the definition of the outcome.

John et al. [21] compared the performance of 12 different algorithms to identify patients with anxiety and depression in the Secure Anonymised Information Linkage Databank (SAIL); the positive predictive value of the Read codes for anxiety and depression diagnoses, symptoms and treatments, against the five-item Mental Health Inventory (gold-standard), varied between 61% and 76% [21] (Table 4). The list of Read codes used to identify patients with composite outcomes of anxiety and depression is provided in appendix 13.

# Dementia and cognitive impairment

27 studies reported outcomes of dementia or cognitive function (Table 1, appendix table 6). The codelists were available for 17 studies (63.0%); in two studies dementia was ascertained in primary care data linked to other sources of data. All studies included codes for diagnosis of dementia or cognitive impairment, and 6 studies (22.2%) reported to have included also codes for symptoms of dementia. 21 studies (77.8%) referred to have excluded patients with prior diagnoses of dementia from longitudinal analyses.

Of the 17 studies for which the codelists were available, 13 reported codes for Alzheimer's disease (81.3%), 13 for vascular dementia (81.3%), 12 for frontotemporal dementia (75.0%), and 11 for Lewy bodies disease (68.8%) (Table 2). Three studies reported data for cognitive impairment without dementia (17.6%).

Four studies (14.8%) used prescriptions in the identification of patients with dementia; all four included anticholinesterases and dopaminergic agents (Table 3).

Five studies [22-26] involved validation of the list of codes; the proportion of cases confirmed varied between 74% and 100% (Table 4).

The list of Read codes used in the studies is provided in appendix 14; the list of ICD-10 codes is provided in appendix 22.

#### Fatique

Six studies had fatigue as the outcome (Table 1, appendix table 7). All studies considered codes for diagnoses of fatigue, and 5 studies also described including codes for symptoms of fatigue. The list of codes use to identify patients with fatigue was provided in 3 studies (50.0%).

The three studies for which the codelist was available included codes for chronic fatigue syndrome, neurasthenia and post-viral fatigue syndrome (Table 2). Fibromyalgia was included in two studies (66.7%). None of the studies involved methods to assess the validity of the list of the codes. The list of Read codes used in the studies of fatigue is available in appendix 15.

#### Pain

8 studies had pain as the outcome (Table 1, appendix table 8). The list of codes was available for 4 of the 8 studies. Of these 4 studies, three looked at pain by body site (i.e. chest, abdominal, musculoskeletal pain), one study studied widespread body pain (Table 2). Two studies included drugs in the identification of patients with pain; all considered anti-

epileptics (in the absence of codes for an epilepsy diagnosis), anaesthetics, antidepressants and analgesics (Table 3).

Three studies validated the list of selection of the codes (Table 4). The proportion of cases confirmed varied between 56% and 86.4%. One study compared pain recorded in the EHR with pain reported in a survey; in 97% of the self-reported cases of pain, there was an entry in the EHR [27].

Appendix 16 provides the list of codes used in the original studies.

# Sexual dysfunction

Six studies had sexual dysfunction as an outcome, all of which focused on male sexual dysfunction (Table 1, appendix table 9). Three studies provided codelists (50.0%). Of these, all included codes for erectile dysfunction and one study included codes for other male sexual dysfunctions (Table 2). Three studies included considered the prescription of drugs sufficient to ascertain the outcome; two studies considered phosphodiesterase type-5 inhibitors (Table 3). No study involved methods to validate the list of codes used. The list of Read codes used in the original studies are available in appendix 17.

#### Sleep disorders

Two studies were eligible for sleep disorders (Table 1, supplementary table 10); the two studies included diagnoses of insomnia, and one included hypersomnia as well (50%) (Table 2). The list of codes was available for one study. No validation was reported. Appendix 18 provides the list of Read codes used in the original study.

# Fatal and non-fatal self-harm

41 studies had outcomes related to fatal and non-fatal self-harm (Table 1 and supplementary table 11). The list of codes used to defined the outcomes was available for 21 studies (51.2%); 9 studies reported using ICD-10 codes.

Of the 21 studies for which the codelist was available, 17 studies (80.9%) included completed suicide, while 4 studies focused on attempted suicide only (19.1%). Of the 17 studies including completed suicide as an outcome, 8 reported only completed suicides, 6 considered completed and attempted suicides and 4 included complete and attempted suicide, as well as self-harm (Table 2). All studies where outcomes were identified using

primary care data linked to ONS mortality data (gold-standard) considered deaths recorded as of undetermined intent in the definition of suicide.

Nine studies involved some method of validation of the list of cases identified via code search (Table 4). Four studies referred to have revised the clinical record of the patient to determine the final outcome and two studies asked the GPs to confirm the events. The proportion of cases confirmed varied between 21.2% and 97%. Hall et al [28] assessed the validity of cause of death recording in the THIN primary care database through search of the free text and death certificate review; the underlying cause of death registered in the death certificate was listed as the cause of death in the EHR in 70% of the cases. Thomas et al [29] compared the ascertainment of cases of suicide and self-harm using Read codes in CPRD, with those ascertained when data from HES and ONS mortality data were available. 26.1% of the cases of suicide identified in the ONS mortality data were registered in the CPRD primary care database. HES was considered the gold-standard for self-harm; 68.4% of the cases of self-harm in HES were identified as such in CPRD.

Appendix 19 provides the list of Read codes used to identify outcomes of fatal and non-fatal self-harm in primary care data; appendix 23 includes the lists of ICD-10 codes using in studies of linked data.

#### **Discussion**

#### Results overview

This review summarised the definitions and combinations of codes used to identify outcomes of anxiety, depression, dementia and cognitive impairment, fatigue, pain, sexual dysfunction, sleep disorder and self-injurious behaviour in primary care databases of patients in the UK. The list of codes used in the original studies was obtained for approximately half of the papers. In the studies where the codelist was available, for all outcomes, there was substantial heterogeneity in the type of codes included (e.g. diagnoses and symptoms) and drugs selected to identify outcomes; for the remaining studies, the details provided in the original publications suggest a similar pattern. We also noted considerable variability in the clinical definition of some outcomes (e.g. inclusion/exclusion of bipolar disorders in studies of depression). Validation of methods used to identify these outcomes was rarely carried out; where done, positive predictive values of case definitions were variable but mostly above 80%.

# Strengths and limitations

This review is based on an extensive search of the studies involving EHRs in the UK. Errors in study selection and data extraction were minimized by the independent assessment of the studies by two investigators. We contacted the authors of all original studies where the list of codes had not been provided in the original publication to seek this information; this largely improved the number of studies for which lists of codes were available, and contributed to a more detailed characterisation of the methods used to defined mental health outcomes in primary care databases of EHR in the UK.

However, this review has limitations. Some relevant studies may have been missed due to imperfect search terms, as there is no MESH term for the primary care databases, and studies could be potentially missed if the keywords didn't appear in the title and abstract, or due to inaccurate indexing in the publications database. We attempted to minimise the risk of missing potential eligible studies by using broad search terms incorporating both indexing terms and keywords, two databases with different indexing systems, and an additional manual check of the eligible studies and list of bibliographic references from the main EHR databases. We only considered studies where mental health or quality of life variables were the outcomes of interest, limiting generalisability to other contexts. For example, we excluded studies where these variables were covariates because we expected that detailed

information about covariate definitions would rarely be available. We also excluded studies where the mental health or quality of life variable was used to define the patient population (e.g. a study of risk of stroke in depressed patients), on the basis that decisions about how to define cases may have had quite different motivations in this context, compared with studies where the condition was the outcome of the study, making case definitions difficult to meaningfully compare. We included studies that explicitly referred to using prescription data as a proxy for the definition of the condition (e.g. treated depression assessed by proxy of antidepressant intake), but we acknowledge that it was not always clear to decide whether treatment of the condition was being used to define the condition. This could have resulted in a few studies erroneously excluded, even though this should have been minimised by the duplication of the search and study selection process by two researchers working independently, with discussion of all discordant results. It is unclear if the list of codes that could not be obtained differ in any systematic way to the ones obtained. Some authors expressed concerns over intellectual property when sharing the list of codes, and this may have been a bigger concern among those who put a lot of time and thought into their codelists; on the other hand, authors who have concerns about the quality of their codelist may have been less willing to share them. Lastly, we summarised the types of codes used to define the outcome based on what was stated in individual studies' methods sections (because code lists were not available for all studies), but this may have been inaccurate: for example, some studies that reported in their methods only including diagnosis codes then provided code lists that appeared to also contain symptom codes.

#### Availability of the list of codes

The list of codes was provided in the original publications for just over a quarter of the studies. Contacting the authors resulted in codelists being made available for approximately half of the studies. For the remaining studies, the authors either could not be contacted (e.g. moved institutions, retired) or could not locate the relevant codelist (including for some studies where the paper had stated that the codelist would be available on request). Provision of codelists within the publication or in a web repository would eliminate the difficulties of authors having to be contacted and archived codelists retrieved. Most journals currently accept codelists in supplementary appendices. Codelists were hardly ever obtained for older studies, especially those published before 2000, when email addresses were not routinely included in the details of the corresponding authors. We searched for alternative contacts in these cases, but not always successfully.

# Variability in the definition of cases and codelists

# Anxiety and depression

Anxiety was often defined with diagnostic and symptoms codes, and in a few studies by the prescription of anxiolytics and hypnotics. Even though the sensitivity of symptoms codes for anxiety is expected to be high, the positive predictive value is unknown. Anxiolytics may also result in misclassification of the outcomes, as they are currently discouraged as first line of treatment for anxiety [12] and are often prescribed for management of other conditions such as insomnia. No study considered antidepressants in the definition of anxiety even though these are currently used to manage anxiety [12]; this may have resulted in cases of anxiety treated with antidepressants, and where no Read code was available, being missed.

The inclusion/exclusion of codes for symptoms may have a larger impact in the definition of depression, as it has been shown that GPs switched from diagnostic to symptoms codes after the introduction of performance indicators in the GP contract quality and outcomes framework in 2006 [11] and under claims that depression was being over diagnosed [30, 31]. Codelists solely relying on Read codes for diagnosis of depression are therefore likely to have low sensitivity, but the impact of including/excluding a specific code will be variable, depending on how often that code is used by GPs at the point of providing care. In a few studies, depression was defined by proxy of antidepressant prescribing, alone or in combination with Read codes for symptoms/diagnosis. Considering antidepressant prescribing in the definition of depression has several issues. Certain types of antidepressants are currently used as first line of treatment for other conditions, such as pain and anxiety, and the studies relying solely on this information will be affected by misclassification of the outcome; some studies took this into account by excluding low dose tricyclic antidepressants, usually prescribed for pain, from their list of codes used to define depression [32-34]. Amongst the studies that did include antidepressants in their definition, there was heterogeneity in the group of antidepressants included, with some studies selecting only a few specific drugs commonly used for the treatment of depression. Studies defining depression by proxy of antidepressant prescribing only are likely also to be affected by changes in the behaviour of antidepressant prescribing. In 2004, the National Institute for Clinical Excellence (NICE) issue guidelines discouraging antidepressants for mild depression [35], and in 2006 a performance indicator in the UK GP Quality and Outcomes Framework (QOF) pay for performance [36] was introduced for depression severity assessed with validated symptoms questionnaires. Following this measure, the proportion of new cases of pharmacologically treated depression decreased (from 73% in 2003 to 61% in 2012 [37]), but the proportion of recurrent episodes pharmacologically treated increased from 74.3% to 77.8% [37]. Treatment duration times with antidepressants also increased over time [38]; this may affect the number of new episodes of depression identified in the studies. In several studies, the authors chose to report separate results for antidepressant prescribing, without using this information to ascertain the outcome of depression [39, 40]; this may partially be due to the difficulties of ascertaining the indications for which antidepressants were described. John et al, 2016 explored the indications of antidepressants; more than half of the new antidepressant prescriptions were for depression, with increasing but low incidence of prescriptions for pain and anxiety, but the authors could not identify the indication for antidepressants in 17% of the new prescriptions [41].

Regardless of the type of codes included, authors will need to often choose the inclusion/exclusion of codes relating to the clinical profile of the patients. This may have a particular impact for conditions that are highly co-morbid. For example, the code for 'mixed anxiety and depression' was sometimes used in the definition of anxiety and in the definition of depression; anxiety and depression are highly co-morbid and the inclusion/exclusion of these patients may have an impact on the results. In addition, for depression, the inclusion of codes related to depression in the context of bipolar disease, dementia and schizophrenia may raise issues as to whether it represents a primary depressive episode.

Part of the heterogeneity in the list of codes used to identify these outcomes may be explained by the complexity of these conditions and by the purpose for which these data are collected. Electronic health care data are primarily collected to provide patients with treatment, and distinctions between diagnosis and symptoms may have less weight at the point of care than when researchers aim to define these conditions using data routinely collected.

#### Fatal and non-fatal self-harm

Routinely collected primary care data was shown to have low sensitivity to detect cases of suicide [29]. Thus, record linkage to ONS mortality data is of interest; this has the advantage of including causes of death other than suicide. Ascertainment of the cause of death is not always straightforward when the death is non-natural, and several studies have included cases of accidents and open verdicts in their case definition. Open verdicts have been shown to include many similarities with suicides, and several are later registered as suicides; these are recommended to be included in studies of suicide [42]. Studies varied on whether cases of self-harm without suicidal ideation were included (e.g. Rubino et al reviewed free text to exclude those who did not seem to have attempted suicide [43]). For self-harm, linkage to HES data will allow for more cases to be identified [29], even though authors must consider

the balance between reduction of sample size and ascertainment of the outcome, as linkage is only available for a subset of patients.

# Pain

The aetiology and location of pain in the studies involved in this review varied due to our broad inclusion criteria. When pharmacological treatment was included in the definition of pain, this was most often done with prescriptions of antidepressants and anti-epileptics. Antidepressants such as first generation tricyclic antidepressants have been used for over 30 years to manage neuropathic pain (e.g. amitriptyline, doxepin, clomipramine and dosulepin) [44]. The dosages needed to treat pain are generally lower than the ones to treat depression [44]. Antiepileptic drugs reduce neuronal excitability and alleviate pain through several mechanisms [44].

#### Other outcomes

We considered cognitive impairment and dementia as a composite outcome; 10% and 20% of all patients with mild cognitive impairment are expected to convert to dementia [45, 46]. Fewer studies had fatigue, sexual dysfunction and sleep disorders as the outcome, and no study was eligible for female sexual dysfunction. The definition of these outcomes varied little across the studies but the small numbers preclude firm conclusions. It has been reported that chronic fatigue increased prior to 2001 [3], but decreased during 2001 and 2013, possibly due to the introduction of diagnostic criteria from NICE [47]; increases were noted in the diagnoses of fibromyalgia [48]. This may reflect the complexity of diagnosing fatigue, which is done by exclusion of other causes only [47].

# Validation

Information on outcomes identified in EHRs may be affected by lack of validity: a person meeting the operational definition for the outcome based on specific codes may not have the diagnosis or vice-versa. Only a small number of studies assessed validity in their studies, and this was almost always about assessing positive predictive value of the case definition, with sensitivity and specificity rarely explored. Of these, some studies only stated that validation had been carried out, but did not report the results, which makes the performance of the case definition unclear. However, the studies that reported results tended to show a high proportion of cases confirmed by their primary care physician or by further investigations (i.e. a high positive predictive value). This is in accordance with the results of two systematic reviews that assessed the validity of the diagnostic coding within the CPRD primary care database [8, 9]. Studies in which identified cases were validated by the GP did not usually

specify how this validation was done - i.e. whether the GPs confirmed cases by consulting the EHR, referring to additional information, relying on memory, or using other methods. If GPs simply checked the same EHR used to identify the case in the first place, resulting estimates of positive predictive value would be expected to be high, but may be misleadingly optimistic.

# *Implications*

Mental health and quality of life-related outcomes are difficult to identify in EHR databases and thus extra care needs to be used when defining these outcomes. The use of a particular code varies between GP practices; for example, a study on the inter-practice use of Read codes for diabetes showed that the most generic code was used in 14% to 98% of the patients with diabetes in the practice [49]; it is reasonable that this pattern applies to other conditions. GPs can derive Read codes for their practice; this may raise issues with new codes being added over time [50], and codelists that need to be updated. It is important that authors clearly document the process of selection of the codes, so that these are available with clear rationale if needed [5]. Some studies of depression and dementia referred to using the Read codes recommended by the QOF [36]; these are likely to be highly specific. It is also important to better understand the patterns of recording of some of these conditions, as changes in the patterns of use of the codes may have impact in the list of codes chosen. The inclusion of codes for symptoms and prescriptions must consider what is known about the use of codes by GPs at the point of patient providing care, as data recording in this setting is primarily intended to support clinical care.

Validation of the outcomes appears to be essential to understand the validity of case definitions. A balance between sensitivity and specificity may be considered depending on the aim of the study [5]; for depression, for example, the inclusion of terms such as 'Low mood' may increase sensitivity, at the expense of decreased specificity, as some individuals who would not fit more stringent criteria for a diagnosis will be incorrectly classified as depressed [5]. Studies might consider to use internal validation strategies, by assessing the proportion of patients referred for treatment or prescribed a relevant pharmacological agent.

Despite the difficulties of assessing each separate outcome, we must take into account that mental health disorder symptoms often overlap, and is difficult to disentangle what is attributable to each condition. Lastly, these conditions have a long period of exposure to medication after symptoms have disappeared, besides a high probability of relapse and recurrence [51], which may raise issues on whether the condition is incident or prevalent.

#### **Conclusions**

Detailed information about codes used to identify mental health and quality of life outcomes in UK primary care databases was unavailable for around half of studies of these outcomes. Where available, there was substantial heterogeneity in the list of codes used to ascertain cases. Most studies did not validate case definitions, though when this was done, positive predictive values were generally high. Future studies should fully report outcomes definitions and seek to validate the list of codes used to identify these outcomes.



#### **Authors' contributions**

HC, RW and KB designed the study. HC and HS screened the bibliographic references and performed data extraction. HC wrote the first draft of the article. All authors revised the article for important intellectual content and agreed with the final version.



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Table 1. Characteristics of the studies included in the systematic review.

	A	nxiety	De	pression	Anxiety an depressio (composit outcome)	n e	CC	ementia/ ognitive oairment	F	atigue		Pain	dy	Sexual sfunction (male)	Sleep	disorders	Fatal ar	
	N	%	N	%	N %		N	%	N	%	N	%	N	%	N	%	N	%
Total number of studies	12	100.0	42	100.0	2 100.0		27	100.0	6	100.0	8	100.0	6	100.0	2	100.0	41	100.0
Main primary care database																		
CPRD	7	58.3	24	57.1	0 0.0		21	77.8	5	83.3	5	62.5	4	66.7	1	50.0	31	75.6
PCCIU	0	0.0	1	2.4	0 0.0		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
THIN	5	41.7	10	23.8	1 50.0		5	18.5	1	16.7	0	0.0	2	33.3	0	0.0	6	14.6
Other	0	0.0	7	16.7	1 50.0		1	3.7	0	0.0	3	37.5	0	0.0	1	50.0	4	9.8
Outcome ascertained using linked data (HES or ONS)																		
Yes	1	8.3	2	4.8	0 0.0		2	7.4	0	0.0	0	0.0	0	0.0	0	0.0	9	22.0
No	11	91.7	40	95.2	2 100.0		25	92.6	6	100.0	8	100.0	6	100.0	2	100.0	32	78.0
Code list availability																		
Total number of studies with code lists available	5	41.7	17	40.5	2 100.0		17	63.0	3	50.0	4	50.0	3	50.0	1	50.0	21	51.2
Stated in publication	2	16.7	7	16.7	1 50.0		10	37.0	1	16.7	2	25.0	2	33.3	1	50.0	17	41.5
Cited another paper or web repository	0	0.0	0	0.0	0 0.0		0	0.0	0	0.0	1	12.5	0	0.0	0	0.0	0	0.0
Obtained from authors	3	25.0	10	23.8	1 50.0		7	25.9	2	33.3	1	12.5	1	16.7	0	0.0	4	9.8
Total number of studies with code lists not available Cited another paper or web	7	58.3	25	59.5	0 0.0		10	37.0	3	50.0	4	50.0	3	50.0	1	50.0	20	48.8
repository but couldn't obtain	1	8.3	1	2.4	0 0.0		1	3.7	1	16.7	0	0.0	0	0.0	0	0.0	3	7.3
Stated available on request but didn't provide	2	16.7	4	9.5	0 0.0		3	11.1	2	33.3	0	0.0	1	16.7	1	50.0	0	0.0
Not mentioned in the paper and didn't provide	4	33.3	19	45.2	0 0.0		6	22.2	0	0.0	4	50.0	2	33.3	0	0.0	17	41.5
Type of codes available ‡																		
Read/medical codes	5	100.0	14	82.4	2 100.0		17	100.0	3	100.0	4	100.0	3	100.0	1	100.0	8	42.1
OXMIS codes	0	0.0	3	17.6	0 0.0		0	0.0	0	0.0	2	50.0	0	0.0	0	0.0	8	42.1
ICD codes	1	20.0	2	4.8	0 0.0		2	11.7	0	0.0	0	0.0	0	0.0	0	0.0	9	47.4

	A	nxiety		De	oression	de (c	epression omposite utcome)	1	CC	ementia/ ognitive oairment		F	atigue			Pain			Sexual sfunction (male)	1	Sleep	disorder	s	Fatal an fatal sel	
	N	%		N	%	N	%		N	%		N	%		N	%		N	%		N	%		N	%
Definition of the outcome † Study described that codes for diagnosis were included																									
Yes [in isolation*]	12	100.0	[5]	37	88.1 [14]	2	100.0	[0]	27	100.0 [	[19]	6	100.0	[1]	-	-		5	83.3	[2]	2	100.0	[2]	-	-
No	0	0.0		5	11.9	C	0.0		0	0.0		0	0.0		-	-		1	16.7		0	0.0		-	-
Unclear	0	0.0		0	0.0	C	0.0		0	0.0		0	0.0		-	-		0	0.0		0	0.0		-	-
Study described that codes for symptoms were included																									
Yes [in isolation*]	4	33.3	[0]	6	14.3 [0]	2	100.0	[0]	6	22.2	[0]	5	83.3	[0]	8	100.0	[6]	0	0.0	[0]	0	0.0	[0]	-	-
No	6	50.0		33	78.6	C	0.0		20	74.1		1	16.7		0	0.0		4	66.7		2	100.0		-	-
Unclear	2	16.7		3	7.1	C	0.0		1	3.7		0	0.0		0	0.0		2	33.3		0	0.0		-	-
Study described that prescriptions were included																									
Yes [in isolation*]	1	8.3	[0]	21	50.0 [6]	2	100.0	[0]	4	14.8	[0]	0	0.0	[0]	2	25.0	[0]	3	50.0	[1]	0	0.0	[0]	-	-
No	11	91.7		21	50.0	C	0.0		23	85.2		6	100.0		6	75.0		3	50.0		2	100.0		-	-
Unclear	0	0.0		0	0.0	C	0.0		0	0.0		0	0.0		0	0.0		0	0.0		0	0.0		-	-
Handling of outcomes occurring prior to study period																									
Excluded	5	41.7		15	35.7	C	0.0		21	77.8		3	50.0		3	37.5		1	16.7		1	50.0		7	17.1
Adjusted/matched for	2	16.7		8	19.0	C	0.0		1	3.7		1	16.7		0	0.0		3	50.0		0	0.0		10	24.4
Stratified results	1	8.3		3	7.1	2	100.0		0	0.0		1	16.7		0	0.0		3	50.0		0	0.0		4	9.8
Not stated	3	25.0		11	26.2	C	0.0		1	3.7		0	0.0		3	37.5		0	0.0		1	50.0		15	36.6
Not applicable **	2	16.7		8	19.0	C	0.0		4	14.8		2	33.3		2	25.0		0	0.0		0	0.0		9	22.0
Validation of list of codes																									
Yes	2	16.7		5	11.9	1	50.0		5	18.5		0	0.0		3	37.5		0	0.0		0	0.0		9	22.0
None stated	10	83.3		37	88.1	1	50.0		22	81.5		6	100.0		5	62.5		6	100.0		2	100.0		32	78.0
Study aiming at validating the outcome	0	0.0		0	0.0	1	50.0		0	0.0		0	0.0		0	0.0		0	0.0		0	0.0		3	7.3

- † Defined based on the description of the outcome provided in the original studies. Studies were considered to have included symptoms in the definition of the outcomes when this information was explicitly stated by the authors. Pain was considered a symptomatic outcome, regardless of how it was described in the original publications.
- \* The number of studies where the definition of the outcome included only this category of codes is provided in squared brackets.
- ‡ Refers only to studies providing codelists. A study may include more than one type of codes.
- \*\* Depends on study design and outcome. For example, it includes studies describing the epidemiology of first ever diagnoses or focusing on completed suicide only.

CPRD – The Clinical Practice Research Datalink; HES – Hospital Episodes Statistics; ICD – International Classification of Diseases; ONS – Office for National Statistics; OXMIS – Oxford Medical Information System; PCCIU – Primary Care Clinical Informatics Unit Research Data Set; THIN – The Health Improvement Network.

**Table 2.** Clinical characteristics of the outcomes of interest in the studies for which the list of codes was available.

Study included codes for:	N	(% of total with code lists available)
Anxiety	5	100.0
Generalized anxiety disorder	5	100.0
Panic disorder/attacks	4	80.0
Phobia	4	80.0
Mixed anxiety and depression	3	60.0
Stress-related disorders	2	40.0
Obsession-compulsion	1	20.0
Post-traumatic stress disorder	1	20.0
Depression	17	100.0
Unipolar depression	17	100.0
Depression with psychotic symptoms	14	82.4
Mixed anxiety and depression	10	58.8
Bipolar disorder	4	23.5
Depression in dementia	3	17.6
Dementia / cognitive impairment	17	100.0
Alzheimer's disease	13	81.3
Vascular dementia	13	81.3
Frontotemporal dementia	12	75.0
Lewy Bodies disease	11	68.8
Mild cognitive impairment only	3	17.6
Fatigue	3	100.0
Chronic fatigue syndrome/ myalgic encephalitis	3	100.0
Neurasthenia	3	100.0
Post viral fatigue syndrome	3	100.0
Fibromyalgia	2	66.7
Pain	4	100.0
Chest pain	1	25.0
Chronic widespread pain	1	25.0
Musculoskeletal pain	1	25.0
Unspecified abdominal pain	1	25.0
Sexual dysfunction (male)	1 1 3 3 3	100.0
Erectile dysfunction	3	100.0
Other male sexual dysfunctions	1	33.3
Sleep disorder	1	100.0
Insomnia	1	100.0
Hypersomnia	1	100.0
Fatal and non-fatal self-harm	21	100.0
Completed suicide	17	80.9
Completed suicide only	8	38.1
Completed and attempted suicide only	6	28.6
Completed and attempted suicide, and self-harm	4	19.1
Included deaths of undetermined intent	7	33.3
Attempted suicide / self-harm	4	19.1

**Table 3.** Pharmacological categories used in the studies that used drug prescriptions to identify patients with the outcome of interest.

Outcome	Number of studies	%
Anxiety	12	100.0
Studies of anxiety that used drugs prescriptions only	0	0.0
Studies of anxiety that used drugs prescriptions	1	8.3
Diazepam and lorazepam	1	8.3
Depression	42	100.0
Studies of depression that used drugs prescriptions only	6	14.3
Studies of depression that used drugs prescriptions	21	50.0
Antidepressants, categories not further specified	15	35.7
Antidepressants, categories further specified	6	14.3
Tricyclic and related antidepressant drugs	3	7.1
Monoamine-oxidase inhibitors	3	7.1
Selective serotonin re-uptake inhibitors	6	14.3
Other antidepressant drugs	3	7.1
Dementia	27	100.0
Studies of dementia that used drugs prescriptions only	0	0.0
Studies of dementia that used drugs prescriptions	4	14.8
Anticholinesterases	4	14.8
Dopaminergic drugs	4	14.8
Pain	8	100.0
Studies of pain that used drugs prescriptions only	2	25.0
Studies of pain that used drugs prescriptions	2	25.0
Analgesics, not otherwise specified	2	25.0
Antidepressants	2	25.0
Anti-epileptics	2	25.0
Anaesthetics	2	25.0
Sexual dysfunction (male)	6	100.0
Studies of sexual dysfunction that used drugs prescriptions only		16.7
Studies of sexual dysfunction that used drugs prescriptions	3	50.0
Phosphodiesterase type-5 inhibitors	2	33.3
Prostaglandin analogues and prostamides	1	16.7

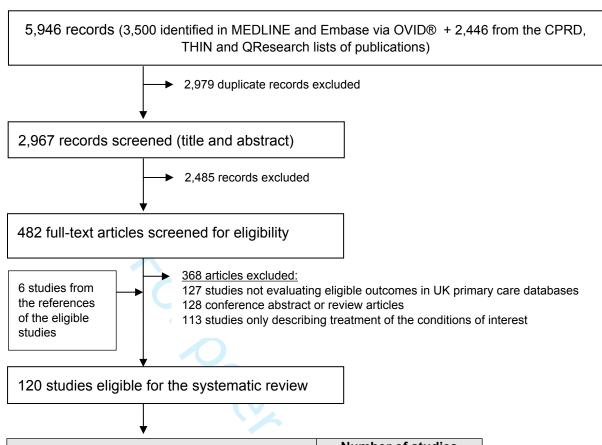
**Table 4.** Methods and results of the validation of the outcomes reported in the original studies.

Outcome and study authors	Validation method	# case validations completed/ # case validations attempted	% of cases confirmed
Anxiety			
Martin-Merino 2010	GP Questionnaire	135/140	Among pharmacologically treated: 73.5%;
2010			Among not pharmacologically treated: 89.6%
Meier 2004	Record review	nr/nr	nr
Depression			
Becker, 2011	Sensitivity analysis with different definitions	nr/nr	nr
Hagberg, 2016	Record review	nr/nr	nr
Martin-Merino, 2010	GP questionnaire	135/140	89.6%
Meier, 2004	Record review	nr/nr	nr
Yang, 2003	Record review	30/nr	83.3%
Anxiety and dep	ression (composite outcome)		
John, 2016	Compared 12 EHR algorithms to results of the Mental Health Inventory (MHI-5), a subscale of SF-36	2,799*	Between 61% and 76%, depending on the algorithm.
Dementia/ cogni	itive impairment		
Imfeld, 2015 & Imfeld, 2013	GP questionnaire	nr/120	Alzheimer's disease: 79%; Vascular dementia: 74%.
Dunn, 2005	GP asked to confirm diagnosis	50/200	100%
Dunn, 2005	GP questionnaire	95/~100	83%
Strom, 2015	GP questionnaire	86/100	88.4%
Strom, 2015	Review of free text	1047/1048	1.5% patients excluded as not having the diagnosis; 42.4% confirmed as having definite memory loss, 36.8% possible memory loss, 3.2% undetermined, and 16.0% unknown.
Pain			
Hall, 2013	GP questionnaire	48/54	56%
Mansfield, 2017	EHR data linked to self- reported pain status collected by postal questionnaire	1780*	97%
Becker, 2008	GP questionnaire	176/200	86.4%
			31

Outcome and	Validation method	# case	% of cases confirmed					
study authors		validations completed/ # case validations attempted						
Self-harm								
Thomas, 2012	Comparison of cases of suicide and self-harm identified in CPRD with Read codes, with the cases identified in CPRD data linked to HES data, and published self-harm incidence data.	74236*	68.4%					
Suicide (attempt	ted and completed)							
Hagberg, 2016	Record review	nr/nr	nr					
Haste, 1998	GP asked to confirm suicides	77% of uncertain deaths/nr	82%					
Jick, 1995	Record review	nr/nr	nr					
Meier, 2004	Record review	nr/nr	nr					
Schuerch, 2016	Outcomes identified in CPRD were compared to those identified in CPRD linked to HES and ONS data.	nr/nr	Compared to CPRD data, the frequency of the outcomes in linked data was approximately 3 times higher.					
Yang, 2003	Record review	30/nr	83.3%					
Suicide (comple	ted)							
Arana, 2010	GP questionnaire and record review	nr/132	97%					
Arana, 2010	GP questionnaire and record review	nr/86	87%					
Hall, 2009	GP questionnaire and record review	33/33	21.2%					
Thomas, 2012	Comparison of cases of suicide and self-harm identified in CPRD with Read codes, with the cases identified in CPRD data linked to ONS mortality data, and national suicide rates.	1767*	59.7% for men; 46.0% for women.					

CPRD – Clinical Practice Research Datalink; EHR – electronic health records; GP – general practitioner; HES – Hospital Episode Statistics; nr – not reported; MHI-5 - Mental Health Inventory 5 items; ONS – Office for National Statistics; SF-36 – 36-item Short Form Health Survey.

<sup>\*</sup> Validation attempted and completed for all patients identified in electronic health records database.



	Number of studies
Anxiety	12
Depression	42
Anxiety and depression (composite outcome)	2
Dementia/ cognitive impairment	27
Fatigue	6
Pain	8
Sexual dysfunction	6
Sleep disorder	2
Fatal and non-fatal self-harm	41

Figure 1.

# Systematic review flowchart.

# Appendix 1.

# MEDLINE search expression, applied via OVID, 28 June 2018

- 1. CPRD.mp.
- 2. Clinical Practice Research.mp.
- 3. GPRD.mp.
- 4. General Practice Research Database.mp.
- 5. The Health Improvement Network.mp.
- 6. QRESEARCH.mp.
- 7. DIN-LINK.mp.
- 8. VAMP.mp.
- 9. Value Added Information Medical.mp.
- 10. (THIN adj1 (database or dataset or data)).mp.
- 11. (Read adj1 (term\* or code# or codification)).mp.
- 12. (diagnostic adj1 (term\* or code#)).mp.
- 13. Disease Analyzer.mp.
- 14. Primary care clinical informatics unit.mp.
- 15. PCCIU.mp.
- 16. (optimum patient care adj4 data\*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
- 17. OPCRD.mp.
- 18. health information network.mp.
- 19. health improvement network.mp.
- 20. Q research.mp.
- 21. (ResearchOne or (Research One adj2 data\*)).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
- 22. Doctors Independent Network.mp.
- 23. SAIL.mp.
- 24. (SAIL adj4 data\*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] 25. mediplus.mp.
- 26. ((general practice or primary care or primary health care) adj4 data\*).mp.
- 27. longitudinal patient database.mp.
- 28. ((EHR or eletronic health record\*) adj4 data\*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
- 29. health care database\*.mp.
- 30. exp "mental disorders"/
- 31. exp "behavior and behavior mechanisms"/
- 32. exp "behavioral disciplines and activities"/
- 33. exp Psychological Phenomena/
- 34. exp fatique/
- 35. exp pain/
- 36. exp "Sleep Wake Disorders"/
- 37. exp central nervous system depressants/
- 38. exp muscle relaxants, central/
- 39. exp psychotropic drugs/
- 40. exp sleep aids, pharmaceutical/

60

- 41. (anxiety or anxious\* or panic or anxiolytic\* or (stress not oxidat\*) or depressi\* or dysthymia or antidepress\* or sexual or erectile or suicid\* or self-harm or hopeless\* or sleep or insomnia or hypnotic\* or cognit\* or chemo-fog or chemo-brain or pain or fatigue or (mental adi1 (disorder or disorders)) or antipsychotic).mp.
- 42. 30 or 31 or 32 or 33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 or 41
- 43. exp United Kingdom/
- 44. (UK or Britain or British or England or English or Scotland or Scottish or Wales or Welsh Ireland).mp.
- 45. 43 or 44
- 46. or/1-29
- 47. 42 and 45 and 46

## EMBASE search expression, applied via OVID, 28 June 2018

- 1. CPRD.mp.
- 2. Clinical Practice Research.mp.
- 3. GPRD.mp.
- 4. General Practice Research Database.mp.
- 5. The Health Improvement Network.mp.
- 6. QRESEARCH.mp.
- 7. DIN-LINK.mp.
- 8. VAMP.mp.
- 9. Value Added Information Medical.mp.
- 10. (THIN adj1 (database or dataset or data)).mp.
- 11. (Read adj1 (term\* or code# or codification)).mp.
- 12. (diagnostic adj1 (term\* or code#)).mp.
- 13. Disease Analyzer.mp.
- 14. Primary care clinical informatics unit.mp.
- 15. PCCIU.mp.
- 16. (optimum patient care adj4 data\*).mp.
- 17. OPCRD.mp.
- 18. health information network.mp.
- 19. health improvement network.mp.
- 20. Q research.mp.
- 21. (ResearchOne or (Research One adj2 data\*)).mp.
- 22. Doctors Independent Network.mp.
- 23. SAIL.mp.
- 24. (SAIL adj4 data\*).mp.
- 25. mediplus.mp.
- 26. ((general practice or primary care or primary health care) adj4 data\*).mp.
- 27. longitudinal patient database.mp.
- 28. ((EHR or eletronic health record\*) adj4 data\*).mp.
- 29. health care database\*.mp.
- 30. or/1-29
- 31. UK.mp.
- 32. United Kingdom.mp.
- 33. England.mp.
- 34. Wales.mp.
- 35. Scotland.mp.
- 36. Northern Ireland.mp.
- 37. 31 or 32 or 33 or 34 or 35 or 36

- 38. exp central depressant agent/
- 39. exp central muscle relaxant/
- 40. exp psychotropic agent/
- 41. antidepress\*.mp.
- 42. antipsychotic.mp.
- 43. anxiolytic.mp.
- 44. exp mental capacity/ or exp mental compliance/ or exp mental concentration/ or exp mental deficiency/ or exp mental deterioration/ or exp mental development/ or exp mental development assessment/ or exp mental disease/ or exp mental disease assessment/ or exp mental dissociation/ or mental function/ or exp mental health/ or exp mental health care/ or exp mental health center/ or exp mental health organization/ or exp mental health research/ or exp mental health service/ or exp mental hospital/ or exp mental stress/
- 45. depressi\*.mp.
- 46. dysthymia.mp.
- 47. catatonia.mp.
- 48. self-injur\*.mp.
- 49. self injury.mp.
- 50. self mutilation.mp.
- 51. suicid\*.mp.
- 52. self-harm.mp.
- 53. anxious\*.mp.
- 54. anxiety.mp.
- 55. panic.mp.
- 56. catastrophi\*.mp.
- 57. phobia.mp.
- 58. phobic.mp.
- 59. neurotic.mp.
- 60. compulsive.mp.
- 61. bipolar.mp.
- 62. neurotic.mp.
- 63. personality.mp.
- 64. psychotic.mp.
- 65. psychosis.mp.
- 66. paranoid.mp.
- 67. delusional.mp.
- 68. sexual.mp.
- 69. insomnia.mp.
- 70. exp insomnia/
- 71. exp sleep/ or exp sleep disorder/
- 72. exp somatoform disorder/
- 73. exp substance abuse/ or exp "substance use"/
- 74. exp stress/
- 75. or/38-74
- 76. 30 and 37 and 75

Appendix 2. Template email sent to corresponding authors of the studies for which a list of codes wasn't provided in the publication.

Dear [corresponding author],

I'm currently doing a PhD about mental health and quality of life in breast cancer survivors. As part of my PhD, I'm conducting a systematic review of the studies that assessed mental health outcomes using electronic health records. The aim of the review is to summarise how studies have identified these outcomes in primary care databases in the UK; the review will be part of my PhD thesis and we are also planning to publish it in a peer-reviewed journal in due course.

I'm writing to you because a study in which you are the corresponding author was identified as eligible (please see title below), and I would kindly ask if you could be of assistance with the issues described below.

[title]

[description of the list of codes needed]

I look forward to hearing from you and thank you in advance for your help.

Best wishes,

Helena

# Appendix table 3. Main characteristics of the eligible studies: anxiety.

5 6 7 8	Author, year of publication	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
10 <sup>1</sup> 11 12 13 14 15	Bouras, 2016 [1]	Linked and primary care database analysis of the incidence and impact of psychiatric morbidity following gastrointestinal cancer surgery in England	Cohort study	CPRD, HES	1997-2012	"Diagnosis code [for anxiety] in CPRD or HES, or a prescription code [for Diazepam or Lorazepam] between 36 months before and 12 months after surgery."	Yes	None stated	Data available for >3 years before the index date // Follow up duration: 1 year after index date	Study quantified the psychiatric morbidity before and after the index date.	-
	Fardet, 2012 [2]	Suicidal behavior and severe neuropsychiatric disorders following glucocorticoid therapy in primary care	Cohort study	THIN	1990-2008	Read and Multilex list of codes for diagnoses of panic disorder or panic attack excluding c odes for anxiety	No	None stated	≥6 months of registration with the primary care practice	Hazards ratios adjusted for past history of neuropsychiatric disorders (yes/no)	Outcome was eligible if there was no record of the outcome in the previous 6 months
22 23 24 25 26 27 28	Granerod, 2016 [3]	Increased rates of sequelae post- encephalitis in individuals attending primary care practices in the United Kingdom: a population-based retrospective cohort study	Cohort study	CPRD	1998-2012	"Anxiety disorders (including both symptom codes and diagnoses such as generalised anxiety disorder, panic disorder, post-traumatic stress disorder and obsessive compulsive disorder)"	Yes	None stated	None stated // At least one contact with the GP practice in the two years after the index date	Analysis restricted to those at risk of a new-onset outcome, defined as no code in the year prior to the index date.	-
29 30 31 32 33 34 35 36 37 38 39	Hesdorffer, 2012 [4]	Epilepsy, suicidality, and psychiatric disorders: a bidirectional association	Matched cohort study	CPRD	1990-2008	Anxiety, not further specified	No	None stated	At least 3 years of data before the index date, 1 year after the index date, and at least 1 code for a medical or drug code in the 6 months before the index // Follow up 3 years after index date	Excluded subjects with a record of the outcome before the study date.	-

3 4 5 6 7	Author, year of publication	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8 9 10 11	Khan, 2010 [5]	Consulting and prescribing behaviour for anxiety and depression in long-term survivors of cancer in the UK	Cohort study	CPRD	2003-2006	Consultations for anxiety and prescriptions of benzodiazepines and Buspirone	No	None stated	None stated	History of anxiety prior to the analysis period included in the models	Outcomes occurred within a 3-year period chosen for the study
12 13 14 15 16 17	Kurd, 2005 [6]	The risk of depression, anxiety, and suicidality in patients with psoriasis: A population- based cohort study	Cohort study	CPRD	1987-2002	"clinician diagnosis of anxiety and related disorders in which anxiety symptoms are common"	No (refers using the same codes of previous studies)	None stated	None stated	Patients with history of anxiety in the 6 months before the index date were excluded in a sensitivity analysis.	-
18 19 20 21 22 23 24 25 26 27 28 29	Lurie, 2015 [7]	Antibiotic exposure and the risk for depression, anxiety, or psychosis: A nested case-control study	Nested case control study	THIN	1995-2013	Anxiety, including codes for diagnosis of generalised anxiety disorder and phobic anxiety	Yes	None stated	Only records from patients that had been registered with the GP for more than 183 days // Outcomes were considered incident if occurring at more than 183 days after the index date.	Patients who had pharmacological treatment for a specific psychiatric diagnosis more than 90 days before the diagnosis was first recorded were excluded.	Patients with mixed anxiety and depression were excluded from the analysis
30 31 32 33 34 35 36 37 38	Martin- Merino, 2010 [8]	Prevalence, incidence, morbidity and treatment patterns in a cohort of patients diagnosed with anxiety in UK primary care	Cohort study	THIN	2002-2004	"Identification codes included all Read codes describing anxiety. These included codes ranging from mild anxiousness symptoms to other disorders such as phobia, panic attack and generalized and mixed anxiety disorders"	Yes	Yes Record review/ questionna ires	Enrolled for at least 2 years with the practice and have received one prescription in the previous year; patients aged ≥70 years had to have at least 2 visits registered in the follow up period of >1 year.	Patients with previous anxiety diagnoses were excluded, as well as those who had 5 or more prescriptions of anxiolytics before the diagnosis.	

3 4 5 6 7	Author, year of publication	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8 9 10 11 12 13 14 15 16 17	Meier, 2004 [9]	The risk of severe depression, psychosis or panic attacks with prophylactic antimalarials	Cohort study	CPRD	1990-1999	First time diagnosis of panic attack, regardless of referral or treatment, identified by OXMIS- and/or- ICD-8-codes	No	Yes 'reviewed a list of all cases to determine inclusion/ exclusion'	≥1 year of data available before index date and "some GPRD activity (diagnoses or prescriptions) recorded after the index date" // Patients were censored 18 months after exposure date	"The base population for person-time analyses consisted of all subjects free of () panic attacks at the start of follow up."	-
18 19 20 21 22 23 24 25	Schneider, 2013 [10]	Antimalarial chemoprophylaxis and the risk of neuropsychiatric disorders	Nested case control study	CPRD	2001-2009	Incident diagnosis of anxiety, not further specified	No	None stated	At least 1 year of date before the index date // some activity (diagnoses or prescriptions) recorded after the index date	Excluded patients with the outcome of interest observed before the index date	-
26 27 28 29 30 31	Sheehan, 2015 [11]	Mental illness, challenging behaviour, and psychotropic drug prescribing in people with intellectual disability: UK population based cohort study	Cohort study	THIN	1999-2013	Anxiety, including codes for symptoms and diagnoses	Yes	None stated	Entry in the cohort at least one year after registration with the practice	None stated	Excludes cases of mixed anxiety and depression

	Author, year of publication	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
;	Walters, 2012 [12]	Recent trends in the incidence of anxiety diagnoses and	Cohort study	THIN	1998-2008	Anxiety, including symptoms, diagnosis, mixed anxiety and depression, panic attacks and panic	No	None stated	≥1 year of data since registration with the practice	Excluded patients with an entry for anxiety	Participants could have had more than one
0		symptoms in primary				disorder			and 'consistent	recorded in the	episode during
1		care				Populto wore also provided			recording of at least one medical record	previous year.	the follow up,
2						Results were also provided separately for:			(e.g. a diagnostic		provided that they were
3						- anxiety disorders (eg. chronic			entry), one		separated for
4						anxiety, generalised anxiety disorder, anxiety state);			additional health data record (e.g.		more than 12 months.
5						- anxiety symptoms (e.g.			blood test result)		monuis.
6						'anxiousness');			and >1 prescriptions		
7						<ul><li>mixed anxiety and depression;</li><li>panic attacks and panic disorder.</li></ul>			on average for the practice per patient		
8						- partic attacks and partic disorder.			per year and		
9									consistent reporting		
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CPRD – Clinical Practice Research Datalink; HES – Hospital Episodes Statistics; ICD-10 – International Classification of Diseases, edition 10; ND – not defined; OXMIS – Oxford Medical Information System; PCCIU – Primary Care Clinical Informatics Unit Research; THIN – The Health Improvement Network.

# Appendix table 4. Main characteristics of the eligible studies: depression.

<sup>5</sup> Author, 6year of 7publication <sup>8</sup> Title 9	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
1 <b>B</b> ecker, 1 <sup>2</sup> 011 [13] 12 13 14	Risk of incident depression in patients with Parkinson disease in the UK	Nested case- control study	CPRD	1994-2005	'To be included in the analysis as a valid depression case, a patient had to have a code recorded for an affective disorder (depression, manic disorders, bipolar disorders, or unspecified affective disorders) during follow-up.'	Yes	Pharmacol ogical treatment with antidepres sive drugs	At least 3 years of computer EHR prior to the index date // None stated.	Cases who had depression diagnosed prior to the index date were excluded;	-
1 <b>g</b> ooth, 2015 1[74] 18 19 20	Impact of bariatric surgery on clinical depression. Interrupted time series study with matched controls	Controlled interrupted timeseries study	CPRD	2000-2012	Clinical depression was identified through medical diagnoses for depression recorded in clinical or referral records as well as through prescriptions for anti-depressant drugs.	Yes	None stated	At least one year of registration with the practice prior to the index date	Not applicable	-
24 25 26 27 28 24 25 26 27 28 29 30	The risk of new onset depression in association with influenza - A population-based observational study	Nested case- control study	CPRD	2000-2013	Minimum of three prescriptions for one or more antidepressant drugs recorded after the incident major depression diagnosis (i.e. the index date), identified by READ-codes based on ICD-10 codes (F32), if they started the antidepressant therapy within 90 days of the depression diagnosis	Yes	None stated	A minimum of three years of history before the index date.	Excluded patients with more than two prescriptions for antidepressants at any time prior to the index date. Adjusted for history of affective disorders in the models.	Provides data for depression severity: general depression; mild depression; moderate depression; severe depression; other.

<sup>3</sup> Author, 4year of <sub>5</sub> publication <sup>6</sup> Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8Bouras, 9 <sup>2016</sup> [1] 10 11 12 13 14 15 16	Linked Hospital and Primary Care Database Analysis of the Incidence and Impact of Psychiatric Morbidity Following Gastrointestinal Cancer Surgery in England	Cohort study	CPRD HES	1997-2012	"Codes for the diagnoses of () depression were measured in CPRD () In HES, ICD-10 codes recorded in the first position of a hospital episode (signifying the main condition treated) for the diagnoses of depression. () Prescription data () including antidepressants (Fluoxetine, Paroxetine, Sertraline, Citalopram, Escitalopram, Mitrazapine, and Venlafaxine), () anxiolytics (Diazepam and Lorazepam)."	Yes	None stated	Data available for >3 years before the study index date  // Follow up duration: 1 year post diagnosis	Not applicable	-
16laxton, 19 2000 [16] 20 21 22 23 24 25 26 27 28 29	Selective serotonin reuptake inhibitor treatment in the UK: Risk of relapse or recurrence of depression	Cohort study	MediPlus	1993-1995	Re-initiation of any antidepressant after a gap of at least 6 months with no antidepressant prescription; suicide attempt, referral to psychotherapy or psychiatrist, admission to a mental health facility, emergency room use related to mental disorders, or electroconvulsive therapy and reinitiation of antidepressant one of the above.  Depression first defined as treatment with a SSRI and a Read code within 1 month of the prescription.	Yes	None stated	Only patients with contact with the services during the previous 2 years of the index date; // Follow up duration of 18 months post index date	Not applicable (all patients had been treated with SSRI)	Patients dementia, schizophrenia, psychosis and manic depression were excluded.
3 <b>0</b> lifford, 3 <b>4</b> 002 [17] 32 33 34 35	Drug or symptom- induced depression in men treated with apha1- blockers for benign prostatic hyperplasia? A nested-case control study	Nested case- control study	CPRD	1992-1999	Proxy of antidepressant prescription (first prescription of antidepressant)	No	None stated	Registered in CPRD for at least 12 months // ND	None stated	-

<sup>3</sup> Author, 4year of 5 <sup>publication</sup> <sup>6</sup> Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8Dave, 2010 9 <sup>[18]</sup> 10 11 12 13 14 15 16	Incidence of Maternal and Paternal Depression in Primary Care	Cohort study	THIN	1993-2007	"Read code entry for unipolar depression and/or a prescription for an antidepressant at the appropriate therapeutic dose for treatment of depression on a given consultation date () we eliminated those who had an entry for anxiety or panic disorder but had no entry for depression in their entire computerized medical record."  New episode was considered when no diagnosis or prescription had been registered in the past year.	No Available on request	None stated	None stated	Results stratified by history of previous mental disorder	Mixed anxiety and depression was included.
18 ardet, 2012 19 20 21 22 23 24 25 26 27 28 29 30 31	Suicidal behavior and severe neuropsychiatric disorders following glucocorticoid therapy in primary care	Cohort study	THIN	1990-2008	'Read code for unipolar depression, for symptoms of depression, or for a prescription for an antidepressant. Diagnoses were considered first; prescriptions of antidepressants were used in defining the outcome only when there was no recorded diagnosis of a neuropsychiatric illness and no other recorded indication for the prescription. To exclude patients who may have received prescriptions for antidepressants for anxiety rather than for depression, we eliminated those who had an entry for anxiety or panic disorder but had no entry for depression in their entire computerized medical record.'	No	None stated	≥6 months of registration with the primary care practice.	Hazards ratios adjusted for past history of neuropsychiatric disorders (yes/no)	Outcome was eligible if there was no record of the outcome in the previous 6 months

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3Author, 4year of 5publication 6Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8Gunnell, 9 <sup>2009</sup> [19] 10 11 12 13 14 15 16 17	Varenicline and suicidal behaviour: a cohort study based on data from the General Practice Research Database	Cohort study	CPRD	2006-2008	Depression defined as the start of antidepressant therapy	No	None stated	At least 1 years of CPRD record before index date // ND	People who had been prescribed an antidepressant within the previous 6 months before index date were excluded. Previous psychiatric consultations considered in the models.	-
18 Granerod, 12016 [3] 20 21 22 23 24 25	Increased rates of sequelae post- encephalitis in individuals attending primary care practices in the United Kingdom: a population-based retrospective cohort study	Matched cohort study	CPRD	1998-2012	Depression, consisting of codes for depression diagnosis and symptoms if evidence of pharmacological treatment was present.	Yes	None stated	None stated // At least one contact with the GP practice in the two years after the index date.	Analysis restricted to those at risk of a new-onset outcome, defined as no code in the year prior to the index date.	-
26agberg, 27017 [20] 28 29 30 31 32 33 34 35 36	Risk of Incident Antidepressant-Treated Depression Associated with Use of 5alpha- Reductase Inhibitors Compared with Use of alpha-Blockers in Men with Benign Prostatic Hyperplasia: A Population-Based Study Using the Clinical Practice Research Datalink	Nested case- control study	CPRD	1992-2013	A Read code for a depression diagnosis and a prescription for an antidepressant within 90 days of the depression diagnosis.	No	None stated	At least 1 year of recorded history in the database before cohort entry;	Excluded men with a diagnosis of depression or suicidal behaviors (ideation or attempts), or men who received prescriptions for antidepressant medications prior to cohort entry.	-

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<sup>3</sup> Author, 4year of <sub>5</sub> publication <sup>6</sup> Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8Hagberg, 9 <sup>2016</sup> [21] 10 11 12 13 14 15 16	Incidence rates of suicidal behaviors and treated depression in patients with and without psoriatic arthritis using the Clinical Practice Research Datalink	Nested case control study	CPRD	1998-2012	'A patient was required to have at least one prescription for an antidepressant drug in addition to a diagnosis code for depression within 60 days of each other to qualify as a case of treated depression.'	No	Yes, record review	At least one year of registration with the practice prior to the index date	Any patient who had a diagnosis of depression or a prescription for an antidepressant drug recorded before the cohort entry date was excluded from the Treated Depression subcohort.	-
1 darris, 2011 19 <sup>22</sup> 20 21 22 23 24 25 26 27	Depression indicators in a national sample of older community and care home patients: applying the Quality and Outcomes Framework	Cohort study	THIN	ND-2008	(i) depression case finding with assessment tool validated for primary care; (ii) assessment of depression severity in patients with a new depression episode.  'Quality and Outcomes Framework Read Codes were used in both cases, but no account was taken of exceptions recorded by GPs, as these may bias comparisons between community and care home samples.'	Yes	None stated	Patients registered for at least 90 days with a new diagnosis of depression in period 91-450 days from end of follow up and no depression severity assessment >365 days before end of follow up.	Not applicable	Only practices contributing with data up to at least March 2008 were included.
28 esdorffer, 22012 [4] 30 31 32 33 34 35 36 37 38	Epilepsy, suicidality, and psychiatric disorders: a bidirectional association	Matched cohort study	CPRD	1990-2008	Incident major depression, not further specified	No	None stated	At least 3 years of data before the index date, 1 year after the index date, and at least 1 code for a medical or drug code in the 6 months before the index // Follow up 3 years after index date	Excluded subjects with a record of the outcome before the study date.	-

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3Author, 4year of 5publication 6Title	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8Jacob, 2017 9 <sup>[23]</sup> 10 11 12 13 14 15	Depression Risk in Patients with Rheumatoid Arthritis in the United Kingdom	Cohort study	Disease Analyser database	2000-2014	Diagnoses of depression, according to the ICD-10 codes	No	None stated	None stated // Incidence in the first 5 years of the index date	None stated	-
1/Jenkins- 1/Jenkins- 1/Jenes, 2018 1/Jenes, 2018 20 21 22 23 24 25 26 27 28	Poor compliance and increased mortality, depression and healthcare costs in patients with congenital adrenal hyperplasia	Matched cohort study	CPRD, ONS, HES inpatient and outpatient	?	Depression defined by Read Codes in CPRD, by ICD-10 code in HES inpatient data, or by the prescription of antidepressants.  Depression was identified not only from ongoing records but also from patients' clinical histories dating from before the start of data follow-up.  A sensitivity analysis considered only those depression outcomes identified by both diagnostic (Read or ICD-10) code and at least one antidepressant prescription.	Yes	None stated	None stated	Not applicable: the outcome was lifetime prevalence of depression rather than incident occurrence.	

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<sup>3</sup> Author, 4year of 5publication <sup>6</sup> Title	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8John, 2016 9 <sup>[25]</sup> 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	Recent trends in primary-care antidepressant prescribing to children and young people: an ecohort study	Cohort study	SAIL	2003-2013	Incident episode: a Read code for a diagnosis or symptom of depression, or antidepressant, with no record of the given subtype (antidepressant prescription or depression diagnosis or depression symptom) in the previous 12 months; Participants could have more than one episode recorded across the study period as long a period of at least 12 months existed between entries within that subtype.  Prevalent episode: any record of the given subtype (antidepressant prescription or depression diagnosis or depression symptom) in a target year  Annual recurrent episode: defined as the first record in a given year of a given subtype where a record of that subtype exists previously in that individuals GP record.	Yes	None stated	Registered with the GP practice for at least 1 year	Not applicable	Explored the indication of the antidepressants
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<sup>3</sup> Author, 4year of 5publication <sup>6</sup> Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8Kendrick, 9 <sup>2015</sup> [26] 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Changes in rates of recorded depression in English primary care 2003-2013: time trend analyses of effects of the economic recession, and the GP contract quality outcomes framework	Cohort study	CPRD	2003-2013	"had clinical or referral events recorded which included a Read code for non-psychotic depressive symptoms or diagnoses, or for assessment using depression symptom questionnaires."  Prevalence of depression: Read code present in the year or quarter; Incidence of depression: limited to patients who had no code for depression recorded in the previous 12 months.  Incidence of first-ever depression: no previous code for depression diagnosis, symptoms or antidepressant treatment recorded within 10 year study period, and no previous record of depression or antidepressant treatment recorded.	Yes	None stated	None stated	Not applicable	"We excluded patients with psychotic diagnoses including bipolar disorder, psychotic depression, and schizoaffective psychosis, and patients prescribed antidepressants for other indications besides depression."
24 2 <sup>khan, 2010</sup> 26 26 27 28 29	Consulting and prescribing behaviour for anxiety and depression in long-term survivors of cancer in the UK	Matched cohort study	CPRD	2003-2006	Consultations for depression and prescriptions of as tricyclics, SSRIs and MAOIs	No (Available on request)	None stated	None stated // Follow up duration: 3 years	History of anxiety prior to the analysis period was included in the models	-
3160tz, 2017 3127] 32 33 34	Cardiovascular and neuropsychiatric risks of varenicline and bupropion in smokers with chronic obstructive pulmonary disease	Matched cohort study	QResearch	2001-2012	Depression, not further specified	No	None stated	Registered for >12 months before data extraction // Follow up duration 6 months	History of neuropsychiatric events before the index date were considered as confounders	-
35 <sub>otz, 2015</sub> 3 <b>6</b> 28] 37 38 39	Cardiovascular and neuropsychiatric risks of varenicline: a retrospective cohort study	Matched cohort study	QResearch	2007-2012	Depression, not further specified	No	None stated	Registered for >12 months before data extraction // Follow up duration 6 months	History of neuropsychiatric events before the index date were considered as confounders	-

3Author, 4year of 5publication 6Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8Kurd, 2005 9 <sup>[6]</sup> 10 11 12 13	The risk of depression, anxiety, and suicidality in patients with psoriasis: A population-based cohort study	Matched cohort study	CPRD	1987-2002	Depression included all clinician diagnoses of depressive symptomology including bipolar disorder, defined by diagnostic Read or OXMIS codes	No (refers using the same codes of previous studies)	None stated	None stated	Patients with history of anxiety in the 6 months before the index date were excluded in a sensitivity analysis.	-
15 Lurie, 2015 17 16 17 18 19 20 21 22 23 24	Antibiotic exposure and the risk for depression, anxiety, or psychosis: A nested case-control study	Nested case control study	THIN	1995-2013	At least one Read code of depression; not further specified.	Yes	None stated	Only records from patients that had been registered with the GP for more than 183 days // Outcomes were considered incidence if occurring at more than 183 days after the index date.	Patients who had pharmacological treatment for a specific psychiatric diagnosis more than 90 days before the diagnosis was first recorded were excluded.	Patients with mixed anxiety and depression were excluded from the analysis
25 Martin- 26 Martin- 27 010 [29] 28 29 30 31 32 33	Study of a cohort of patients newly diagnosed with depression in general practice: Prevalence, incidence, comorbidity, and treatment patterns	Cohort study, descriptive and analytical	THIN	2002-2004	Patients with incident depression during the follow up but excluding those who had 5 or more prescriptions of an antidepressant before the depression diagnosis.	No	Yes GP questionna ires	Registered for >2 years with their GP practice prior to the index date; Excluded patients aged >69 years who had fewer than 2 visits during the follow-up.	All subjects who had a record of depression before the index date were excluded.	Prevalence of depression calculated as the sum of all patients who had the outcome during the study, plus those who had the outcome in the two years before the study start date.

<sup>3</sup> Author, 4year of 5 <sup>publication</sup> <sup>6</sup> Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8Meier, 2004 9 <sup>[9]</sup> 10 11 12 13 14 15 16	The Risk of Severe Depression, Psychosis or Panic Attacks with Prophylactic Antimalarials	Cohort study	CPRD	1990-1999	Depression referred to specialist or hospital, or if received treatment with antidepressants at or after the diagnosis date identified by OXMIS-and/or- ICD-8-codes	No	Yes 'reviewed a list of all cases to determine inclusion/ exclusion'	≥1 year of data available before index date and "some GPRD activity (diagnoses or prescriptions) recorded after the index date" // Patients were censored 18 months after exposure date	"The base population for person-time analyses consisted of all subjects free of depression at the start of follow up."	-
18/iillson, 18/000 [30] 19 20 21 22	Are triptans with enhanced lipophilicity used for the acute treatment of migraine associated with an increased consulting rate for depressive illness?	Cohort study, analytical	CPRD, data for the West Midlands	1993-1997	'consulting at least once for depression'	Yes	No	None stated	None Stated	-
2Milojevic, 2017 231] 26 27 28	Mental health impacts of flooding: a controlled interrupted time series analysis of prescribing data in England	Cohort study	General practice prescribing data	2010-2015	Antidepressants prescription	No (but list of antidepress ants provided in appendix)	Not applicable	None stated	Not applicable	-
2Moore, 2009 3[32] 31 32 33 34 35 36 37	Explaining the rise in antidepressant prescribing: a descriptive study using the general practice research database	Cohort study	CPRD	1993-2005	Depression: "first ever antidepressant prescription for depression diagnosed up to 180 days before or 90 days after the prescribing event, or received a first ever diagnosis of depression without an associated prescription for antidepressants."	No /	None stated	Registered with practices contributing with up to standard quality data for the entire study period	Patients only included if it was the first ever events during the follow up period.	Provides data for treatment patterns: chronic treatment; intermittent treatment; short-term treatment; delayed treatment; no treatment.

<sup>3</sup> Author, 4year of <sub>5</sub> publication <sup>6</sup> Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8Morgan, 9 <sup>2014</sup> [33] 10 11 12 13 14	General practice- recorded depression and antidepressant use in young people with newly diagnosed Type 1 diabetes: a cohort study using the Clinical Practice Research Datalink	Matched cohort study	CPRD	1988-2010	Depression identified from diagnosis codes (Oxford Medical Information System and Read), along with at least one antidepressant prescription (monoamine oxidase inhibitors, selective serotonin reuptake inhibitors, tricyclic antidepressants or other antidepressants).	No	None stated	None stated	Participants with depression diagnoses or prescriptions prior to diabetes diagnosis (or prior to the start date for control subjects) were excluded.	-
16/etersen, 12/006 [34] 18 19 20 21	Risk and predictors of fatigue after infectious mononucleosis in a large primary-care cohort	Nested case control cohort study	CPRD	1989-2000	Depression, not further specified	No (available from the authors)	None stated	At least one year of data before diagnosis // At least one year of complete follow up after diagnosis	Included patients who did not have fatigue in the year before onset	-
22 Aait, 2009 2(35) 24 25 26 27 28 29 30 31 32	Recent trends in the incidence of recorded depression in primary care	Cohort study	THIN	1996-2006	"Diagnoses of depression (e.g. 'depressive disorder') and recorded depressive symptoms (e.g. 'low mood'). new episode of diagnosed depression was defined as an entry in the records where there was no previous diagnosis of depression coded in the previous year. A new episode of depressive symptoms was also defined as an entry where there had been no previous recorded depressive symptom code in the previous year."	No	None stated	At least one year of follow up data // ND	None stated	Provides results separately for diagnoses and symptoms of depression.
3 <sup>5</sup> 4hah, 2016 3 <sup>[36]</sup> 36	The mental health and mortality impact of death of a partner with dementia	Nested case control study	THIN	2005-2008	Depression, not further specified	Yes	None stated	At least one year of data with the practice	None stated	-
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<sup>3</sup> Author, 4year of <sub>5</sub> publication <sup>6</sup> Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8Schneider, 9 <sup>2013</sup> [10] 10 11 12 13	Antimalarial chemoprophylaxis and the risk of neuropsychiatric disorders	Nested case control study	CPRD	2001-2009	Incident diagnosis of depression, not further specified	Yes	None stated	At least 1 year of date before the index date // some activity (diagnoses or prescriptions) recorded after the index date	Excluded patients with the outcome of interest observed before the index date	Excluded patients with history of cancer, alcoholism, and rheumatoid arthritis.
15chneider, 12010 [37] 17 18 19 20	COPD and the risk of depression	Cohort study	CPRD	1995-2005	Diagnosis of depression, not further specified  In sensitivity analysis, only cases with an incident diagnosis of depression who receive pharmacological treatment within 6 months of diagnosis were included	Yes	None stated	Excluded patients with less than 3 years of active recording history prior to the date of the COPD diagnosis	Patients with previous history of depression, suicide, suicidal ideation, etc., prior to the index date were excluded	Excluded patients with history of cancer, HIV, drug abuse, or alcoholism prior to the index date
22 heehan, 22015 [11] 24 25 26 27	Mental illness, challenging behaviour, and psychotropic drug prescribing in people with intellectual disability: UK population based cohort study	Cohort study, analytical	THIN	1999-2013	Read codes for depression (including mixed depression-anxiety) that the authors' used in previous studies.	Yes	None stated	Entry in the cohort at least one year after registration with the practice	None stated	Excludes cases of mixed anxiety and depression
28 meeth, 22008 [38] 30 31 32 33 34	Effect of statins on a wide range of health outcomes: A cohort study validated by comparison with randomized trials	Cohort study	THIN	1995-2006	Depression defined as the start of antidepressant pharmacotherapy	No	None stated	None stated	People with a previous history of the outcome prior to the index date were excluded from the analysis of that outcome.	First year of follow up was excluded.

<sup>3</sup> Author, 4year of 5publication <sup>6</sup> Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8 <sup>Smith</sup> , 2014 9 <sup>[39]</sup> 10 11 12 13 14	Depression and multimorbidity: a cross-sectional study of 1,751,841 patients in primary care	Cross-sectional	PCCIU	ND-2007	"Read code for depression recorded within last year and/or 4 or more antidepressant prescriptions (excluding low-dose tricyclic antidepressants) within the last year. Low-dose tricyclic antidepressants were excluded because they are commonly prescribed for chronic pain syndromes rather than depression."	No	None stated	Patients alive and permanently registered with a general practice at the date of the study	None stated	-
15homas, 12013 [40] 17 18 19 20 21 22 23	Smoking cessation treatment and risk of depression, suicide, and self harm in the Clinical Practice Research Datalink: prospective cohort study	Nested case- control study	CPRD HES ONS	2006-2011	"Incident episodes of depression as measured by the date that antidepressant treatment was initiated (treated depression)"  //  For comparison with previous study, depression was also defined with Read codes only in CPRD	Yes	None stated	At least one year of registration with the practice prior to the index date // ND	Previous psychiatric illness, and use of psychotropic medication considered as potential confounders.	-
2¼yrer, 1999 2½ <sup>1</sup> ] 26 27 28	A study of cardiovascular disease, depression and antidepressants on a computerised general practice database	Cohort study	UK MediPlus	1995-1996	'new diagnosis of depression and treatment, classified by the first antidepressant prescribed.'	No	None stated	At least 12 months of data before the index date // Follow up duration 12 months	Patients with depression in the 12 months period before the cardiac event were excluded.	-
29allerand, 3 <b>2</b> 018 [42] 31 32 33	Risk of depression among patients with acne in the U.K.: a population-based cohort study	Cohort study, analytical	THIN	1986-2012	Read code for major depressive disorder	Yes	None stated	None stated // Follow up for > 2 years after index date	Patients with MDD Read code prior to the start of follow up were excluded	-

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3Author, 4year of 5publication 6Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8Walters, 9 <sup>2011</sup> [43] 10 11 12 13 14	The relationship between asthma and depression in primary care patients: A historical cohort and nested case control study	Cohort study and nested case control study	CPRD	1995-2006	GP recorded diagnosis of depression, as defined by Read/OXMIS codes) during the study period	No (codes available from the authors)	None stated	All patients had at least 24 months of 'up to standard' data prior to the index date of the case.	All cases with a recorded medical diagnosis of depression or depressive symptoms before the index date were excluded from the cohort.	-
16/ang, 2003 1/4] 18 19 20 21 22 23 24 25	Lipid-lowering drugs and the risk of depression and suicidal behavior	Matched cohort study	CPRD	1991 onwards	Treated depression (with antidepressants) referred to a consultant or patient hospitalized for depression; excluded patients who also had diagnosis of anxiety or with specific causes for depression (e.g. post-partum depression)	No	List of patients referred to hospital or consultant were manually reviewed; referral letters reviewed.	≥1 year of data available before index date	Patients with history of depression prior to study start were excluded	-
					records; HES – Hospital Episodes search; SAIL – SAIL Databank - The					
	Improvement Network; C				scardi, SAIL – SAIL Dalabalik - Tik	Secure And	iyiiiised iiiidi	mation Linkage Dat	abalik, THIIN — TH	e i leaiui
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# Appendix table 5. Main characteristics of the eligible studies: composite outcomes, anxiety and depression.

	Author, year of publication Title	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
	3	Case-finding for common mental disorders of anxiety and depression in primary care: an external validation of routinely collected data	Validation study using patient reported outcomes	SAIL	2000-2009	Outcome: Common mental disorders, defined as anxiety and depression.  Read codes for: i) anxiety diagnosis, e.g. generalised anxiety disorder; ii) anxiety symptoms e.g. anxiousness; iii) mixed anxiety and depression; iv) panic attacks and panic disorders; v) depression diagnoses; vi) depression symptoms.  Treatment defined as having at least one prescription for an antidepressant, anxiolytic or hypnotic within the year around the date of the survey answer.  Excluded codes for other psychosis, phobias, obsessive compulsive disorders, post traumatic stress disorder, behavioural disorders, hyperkinetic disorders, conduct disorders, disorders of social functioning, and adjustment disorders.  Defined 12 algorithms with current and historical symptoms, diagnosis and treatment.	Yes	Patient reported outcomes	At least 6 months after registration with the practice	Not applicable (no exposure under study).  Incidence outcome were those where no previous entry had been recorded around 1 year of the date of the survey answer.  Other outcomes were considered historical.	
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4	Author, year of publication	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study //	Handling of outcomes occurring prior to exposure	Notes
6 7	Title								Follow up requirements	·	
8	Turner, 2016 [46]	Ongoing impairments following transient ischaemic attack:	Nested case control study	THIN	2009-2013	Outcome: Psychological impairment, defined as anxiety, depression and post-traumatic stress disorder.	Yes	None stated	Practice with at least one year of up to standard	Not stated.	-
10 11	)	retrospective cohort study				First consultation after the index			data, and patients registered for at		
12						date with a Read code for symptoms or diagnosis of anxiety, depression			least one year with the practice.		
13 14						or post-traumatic stress, plus a first prescription of an antianxiety or			// Patient alive and		
15 16						antidepressant drug			registered with the practice 1 month		
10									after index		

SAIL – SAIL Databank - The Secure Anonymised Information Linkage Databank; THIN – The Health Improvement Network.

# Appendix table 6. Main characteristics of the eligible studies: dementia.

· !	Author, year of publication Title	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
-	Brown, 2016 [47]	Comparison of dementia recorded in routinely collected hospital admission data in England with dementia recorded in primary care	Validation study	CPRD HES	1990-2012	Read codes for dementia and/or a code for a drug specifically prescribed for dementia (i.e. donepezil, galantamine, memantine and rivastigmine).	Yes	Yes GP questionna ire	At least 12 months before and 12 months after the first HES record of dementia	Not applicable	-
	Davies, 2014 [48]	Associations of anti- hypertensive treatments with Alzheimer's disease, vascular dementia, and other dementias	Nested case- control study	CPRD	1997-2008	Alzheimer's disease, vascular dementia, or unspecified/other dementias  Created four categories: probable Alzheimer's disease, possible Alzheimer's disease, vascular dementia, combine unspecified or other dementia.	Yes	No	None stated	Not applicable	-
	Donegan, 2017 [49]	Trends in diagnosis and treatment for people with dementia in the UK from 2005 to 2015: a longitudinal retrospective cohort study	Cohort study	CPRD	2005-2015	Dementia defined using Read codes listed for the condition in the Quality and Outcomes Framework	No	No	Patients were eligible for analysis if registered with the practice for the entire quarter of the year being analysed;	Not applicable (descriptive study of the incident cases of dementia)	-
	Dregan, 2015 [50]	Are Inflammation and Related Therapy Associated with All- Cause Dementia in a Primary Care Population?	Matched cohort study	CPRD	2002-2013	"Medical diagnostic codes were used to identify new diagnoses of dementia including Alzheimer's disease, vascular dementia, Lewy body dementia, frontotemporal dementia, dementia in other conditions, and unspecified dementia."	No	No	None stated	Considered incident cases only	-

2	Author, year of publication Title	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8 9 10 11 12 13	Dregan, 2015 [51]	Patterns of anti- inflammatory drug use and risk of dementia: a matched case-control study	Matched case control study	CPRD	1992-2014	"Medical diagnostic codes were used to identify new diagnoses of dementia and include non-specific dementia (Eu02z), Alzheimer disease (F110), vascular dementia (Eu01), Lewy body dementia (Eu025), senile dementia (E00) and dementia in other conditions (Eu02)."	Yes	No	None stated	Considered incident diagnosis	-
15 16 17 18	Dunn, 2005 [52]	Does lithium therapy protect against the onset of dementia?	Nested case control study	CPRD	1992-2002	'Cases with definite diagnosis of Alzheimer disease, vascular dementia (with which there is a diagnostic overlap), and those with uncertain cause of dementia'	No	Yes GP Questionn aire	"At least 4 years o research standard data preceding the date of the diagnosis" //	Considered incident cases only	-
21 22 23 24 25 26 27 28	Dunn, 2005 [53]	Association between dementia and infectious disease: evidence from a case-control study	Nested case control study	CPRD	1992-2002	"We identified cases as all those patients with an incident dementia, as diagnosed by their GP, a GP colleague, or a hospital specialist () We included cases with a recorded diagnosis of Alzheimer disease, vascular dementia (with which there is diagnostic overlap), and those with uncertain cause of dementia. Other specified causes of dementia were excluded (eg, dementia in Parkinson's disease)."	No	Yes GP questionna ires	"At least 4 years of research standard data preceding the date of first diagnosis (median time from onset of symptoms to diagnosis has been estimated at 4 years)."	Considered incident cases only	Cases further classified as probable or possible cases of dementia.
	Emdin, 2016 [54]	Blood Pressure and Risk of Vascular Dementia: Evidence From a Primary Care Registry and a Cohort Study of Transient Ischemic Attack and Stroke	Cohort study	CPRD HES ONS	1990-2003	First record of vascular dementia, in one of the databases. For the primary analysis, cases of Alzheimer's disease and vascular dementia (i.e. mixed dementia) were included.	Yes	No	Registered with the GP practice for at least one year // First 4 years of follow up excluded from analysis	First 4 years of follow up excluded from analysis	-

3 4 5 6 7	Author, year of publication Title	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8 9 10 11 12 13	Goh, 2014 [55]	Angiotensin receptor blockers and risk of dementia: cohort study in UK Clinical Practice Research Datalink	Cohort study	CPRD	1995-2010	New diagnosis of dementia, defined by Read codes, excluding specific causes of dementia (e.g. dementia in neoplastic disease).	Yes	No	At least 6 months of registration with the GP practice // Outcome occurring in the first year after the index date were not considered	Excluded all individuals with a record of dementia or cognitive impairment prior to the date of entry in the study	-
15 16 17 18 19 20 21	Granerod, 2016 [3]	Increased rates of sequelae post- encephalitis in individuals attending primary care practices in the United Kingdom: a population-based retrospective cohort study	Nested case control study	CPRD	1998-2012	"cognitive problems (including memory loss, aphasia, difficulty processing information, difficulty reasoning, difficulty concentrating and learning disability)"	Not provided in the original study but obtained from the authors	None stated	None stated // At least one contact with the GP practice in the two years after the index date.	Analysis restricted to those at risk of a new-onset outcome, defined as no code in the year prior to the index date.	Dementia diagnosis were considered separately
22 23 24 25	Hippisley- Cox, 2010 [56]	Unintended effects of statins in men and women in England and Wales: population based cohort study using the QResearch database	Cohort study	QResearch	2002-2008	Dementia, defined with Read codes, not further specified.	No; states that code list is available on request	No	At least one year of registration with the practice // ND	Incident cases included in the study	-

3 4 5 6	Author, year of publication	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Imfeld, 2012 [57]	Metformin, other antidiabetic drugs, and risk of Alzheimer's disease: a population- based case-control study	Nested case control study	CPRD	1998-2008	"either a diagnosis of AD followed by at least one prescription for an AD drug or vice versa; a diagnosis of dementia followed by at least two prescriptions for an AD drug; at least two recordings of an AD drug; at least two recordings of an AD diagnosis; an AD diagnosis after a specific dementia test (e.g., Mini-Mental State Examination (MMSE), Clock Drawing Test (CDT), or Abbreviated Mental Test (7-min screen)), a referral to a specialist (e.g., neurologist, geriatrician, or psychogeriatrician), an assessment based on a neuroimaging technique (e.g., magnetic resonance imaging (MRI), computed tomography (CT), or single-photon emission CT (SPECT)); or an AD diagnosis preceded or followed by any recorded dementia symptoms (e.g., memory impairment, aphasia, apraxia, or agnosia)."	No	Yes GP questionna ire	Patients with >3 years of active history in the database were excluded.	First time diagnosis of Alzheimer's disease included	

3 4 5 6 7	Author, year of publication	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 30 31 31 31 31 31 31 31 31 31 31 31 31 31	Imfeld, 2013 [58]	Epidemiology, co- morbidities, and medication use of patients with Alzheimer's disease or vascular dementia in the UK	Descriptive cohort study	CPRD	1998-2008	"A patient was required to have either: 1) a diagnosis of AD followed by at least one prescription for an AD drug or vice versa; 2) a diagnosis of unspecific dementia followed by at least two prescriptions for an AD drug; 3) at least two recordings of an AD diagnosis; 4) an AD diagnosis after a specific dementia test (e.g., Mini Mental State Examination, Clock Drawing Test, or Abbreviated Mental Test [7-Minute Screen]), a referral to a specialist (e.g., neurologist, geriatrician or psycho-geriatrician), or an assessment based on neuroimaging technique (e.g., magnetic resonance imaging, computed tomography, or single photon emission computed tomography); or 5) an AD diagnosis preceded or followed by any recorded dementia symptoms (e.g., memory impairment, aphasia, apraxia, or agnosia). In addition, AD patients with a recording of any other specific dementia diagnosis (e.g., VaD, Pick's disease, or dementia with Lewy bodies) after the index date were not eligible, as well as those AD patients with in two years prior to the index date."	No	Yes GP questionna ires	None stated	Considered incident cases during the study period only	"cases were not eligible if they had had a stroke before the index date (because this is more indicative of a diagnosis of vascular dementia (VaD)16) or a recording of any other specific dementia diagnosis (e.g., VaD, Pick's disease, or Lewy body dementia) after the index date."
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3 4 5 6 7	Author, year of publication	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up	Handling of outcomes occurring prior to exposure	Notes
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	Imfeld, 2015 [59]	Benzodiazepine Use and Risk of Developing Alzheimer's Disease or Vascular Dementia: A Case-Control Analysis	Case control	CPRD	1998-2013	"first time diagnosis of AD, VaD, or any unspecified dementia (based on Read codes) (), or who received a first-time prescription for an acetylcholinesterase inhibitor (i.e. donepezil, rivastigmine, galantamine, or tacrine) or the N-methyl-D-aspartate (NMDA) receptor antagonist memantine () To increase the probability of including only well-defined AD or VaD cases, a validated algorithm was applied () this algorithm was based on recordings of specific dementia tests [e.g. Mini-Mental State Examination (MMSE), Clock Drawing Test (CDT), or Abbreviated Mental Test (7-Minute Screen)], referrals to specialists (e.g. neurologists, geriatricians or psycho-geriatricians), brain imaging [computed tomography (CT), magnetic resonance imaging (MRI), or single photon emission computed tomography (SPECT)], or dementia symptoms (memory impairment, aphasia, apraxia, or agnosia) supportive of a diagnosis of a specific dementia subtype (i.e. AD or VaD)."	No	Yes GP questionna ire	At least three years of active history in the database before diagnosis // ND	Considered incident cases during the study period only	
31 32 33 34 35 36 37 38	Jick, 2000 [60]	Statins and the risk of dementia	Nested case control study	CPRD	1992-1998	First time diagnosis of dementia or Alzheimer's disease	No	No but refers to previous study where the validity of the same list of codes was assessed	None stated	Incidence cases considered only	-

3 4 5 6 7	Author, year of publication Title	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8 9 10 11	Judge, 2017 [61]	Protective effect of anti- rheumatic drugs on dementia in rheumatoid arthritis patients		CPRD	1995-2011	Dementia, including Alzheimer's dementia, vascular dementia, and mixed dementia.	Yes	No	At least one year of up to standard registration data before the index date // ND	Considered incident cases only	-
	Khan, 2011 [62]	Long-term health outcomes in a British cohort of breast, colorectal and prostate cancer survivors	Cohort study	CPRD	2003-2006	Dementia, defined with Read codes, not further specified	No; states that codes are available upon request	No	None stated	Only incident cases were considered	-
18 19 20 21 22 23	Khosrow- Khavar, 2017 [63]	Androgen deprivation therapy and the risk of dementia in patients with prostate cancer	Cohort study	CPRD	1988-2016	All incident cases of dementia, including Alzheimer's disease	Yes	None stated (refers to validation in previous studies)	Patients with less than 1 year of history in CPRD were excluded // All patients had to have at least 1 year of follow up data	Excluded patients with previous diagnosis of any dementia	-
25 26 27 28 29	Lu, 2016 [64]	Gout and the risk of Alzheimer's disease: a population-based, BMI- matched cohort study	Cohort study	THIN	1995-2013	Alzheimer's disease	Yes	Not in the original study; refers to a previous validation study	None stated	First diagnoses only	-
	Mehta, 2017 [65]	Association of Hypoglycaemia With Subsequent Dementia in Older Patients With Type 2 Diabetes Mellitus	Cohort study	CPRD	2002-2012	Dementia defined by Read codes; used the same list of codes as another previous study.	No	None stated	None stated	Excluded patients with dementia diagnosed in the year prior to the index date	-

3 4 5 6 7	Author, year of publication Title	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8 9 10 11 12 13	Mehta, 2016 [66]	Development and validation of the RxDx- Dementia risk index to predict dementia in patients with type 2 diabetes and hypertension	Cohort study	CPRD	2003-2012	Dementia, defined with a previously validated algorithm (refers to previous publication)	No	None stated	None stated	Considered incident cases only	Sensitivity analysis include the definition of dementia as clinical diagnosis or drug prescription
14 15 16 17 18 19	Perera, 2018 [67]	Dementia prevalence and incidence in a federation of European Electronic Health Record databases: The European Medical Informatics Framework resource	Cohort study	THIN	2004-2012	'Codes that clearly indicated a dementia diagnosis, rather than those that were suggestive'	Yes	No	None stated	Not applicable (calculated incidence estimates)	-
20 21 22 23 24	Qizilbash, 2015 [68]	BMI and risk of dementia in two million people over two decades: a retrospective cohort study	Cohort study	CPRD	1992-2007	"Patients were classified as having dementia if, any of the following terms were recorded during follow-up: dementia, Alzheimer, Lewy body disease, Pick's disease. Dementia recorded on a death certificate was also used."	No	None stated	None stated	Excluded patients with dementia diagnosed in the year prior to the index date	-
25 26 27 28	Seshadri, 2001 [69]	Postmenopausal estrogen replacement therapy and the risk of Alzheimer disease	Cohort study	CPRD	1992-1998	First-time diagnosis of Alzheimer's disease, senile dementia or presenile dementia	No	Yes Case review	None stated	Only first time diagnosis were included	-

3 1 5 7	Author, year of publication Title	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
3 )  0  1  2  3  4  5  6  7  8	Strom, 2015 [70]	Statin therapy and risk of acute memory impairment	Nested case- control study	THIN	1987-2013	"The outcome for this study was the onset of acute, reversible memory impairment. Using Read codes Clinical Terms, version 2 (), we sought codes with descriptions specifically pertaining to memory loss including amnesia, amnesia symptom, memory loss symptom, temporary loss of memory, short-term memory loss, transient global amnesia, drug-induced amnestic syndrome, non-alcoholic amnestic syndrome, amnesia (retrograde), memory lapses, minor memory lapses, and mild memory disturbance."	Yes	Yes GP questionna ire for a random sample	At least one 365 of registration with the GP practice	Patients with codes for acute memory loss before the index date were excluded.	Excluded patients diagnosed with dementia
20 21 22 23 24 25 26 27	Turner, 2016 [46]	Ongoing impairments following transient ischaemic attack: retrospective cohort study	Matched-cohort study	THIN	2009-2013	Read codes for diagnoses (such as 28E0.00: mild cognitive impairment) and symptoms (such as 1B1A.12: memory loss symptom) related to overall cognitive impairment and impaired individual cognitive domains. 'Cognitive impairment included memory, attention, spatial awareness, perception, apraxia and executive functioning impairments but not a diagnosis of dementia.'	Not provided in the original study but obtained from the authors	None stated	Patients alive and registered with the practice 1 month after the index date	Excluded patients with fatigue recorded on the index date	Dementia diagnosis were not included
29 30 31 32 33 34	Walters, 2016 [71]	Predicting dementia risk in primary care: development and validation of the Dementia risk score using routinely collected data		THIN	2000-2011	Newly recorded dementia diagnoses, including Alzheimer's disease, vascular dementia, and unspecified or mixed dementia.  Excluding dementia associated with Parkinson's disease, Lewy body dementia, Huntingdon, Picks, HIV and drug induced and alcoholrelated dementia.	No but available upon request from the authors	No	Excluded patients with less than one year of follow up data // follow up restricted to a maximum of 5 years	Excluded patients with dementia, cognitive impairment or memory symptoms at baseline	-

CPRD – Clinical Practice Research Datalink; GP – general practitioner; HES – Hospital Episodes Statistics; THIN – The Health Improvement Network; ONS – Office for National Statistics.

# Appendix table 7. Main characteristics of the eligible studies: fatigue.

3	Author, year of publication Title	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
0 1 2 3 4 5	Donegan, 2013 [72]	Bivalent human papillomavirus vaccine and the risk of fatigue syndromes in girls in the UK	Ecological and self-controlled case series	CPRD	2000-2011 and 2008-2011	Chronic fatigue syndrome including chronic fatigue syndrome/myalgic asthenia, post-viral fatigue syndrome, fibromyalgia, and neurasthenia.	(Obtained from the authors)	None stated	None stated // At least one year of follow up available	None stated	Sensitivity analysis considered 'incident fatigue' at the earliest recording of symptoms, referrals or diagnoses.
7 8 9 20 21	Collin, 2017 [73]	Trends in the incidence of chronic fatigue syndrome and fibromyalgia in the UK, 2001-2013: a Clinical Practice Research Datalink Study	Descriptive cohort study	CPRD	2001-2013	Diagnoses of chronic fatigue syndrome, fibromyalgia, post-viral fatigue syndrome, or asthenia/ debility diagnosis or referral to a specialist service	Yes	None stated	At least 12 months of up to standard data	Only new first ever diagnosis were considered	Symptoms of fatigue were considered separately.
23 24 25 26 27 28 29 30 31 32	Gallagher, 2004 [74]	Incidence of fatigue symptoms and diagnoses presenting in UK primary care from 1990 to 2001.	Descriptive cohort study	CPRD	1990-2001	Read codes for diagnosis of chronic fatigue syndrome; post-viral fatigue syndrome; asthenia/debility. Read codes for symptoms were classified separately.	No (Stated that was available from the authors but could not be obtained)	None stated	Data prior to 1990 not shown due to lower numbers than expected and being the first years of data collection of the database.	Fatigue diagnosis was incident if there was no record of diagnoses in the previous year, with or without previous symptoms; symptoms were incident if there was no symptoms or diagnoses in the previous year.	-
35 36 37 38 39 _	Hamilton, 2009 [75]	Risk markers for both chronic fatigue and irritable bowel syndromes: A prospective case-control study in primary care	Nested case control study	CPRD	1988-2001	List of diagnostic codes for post-viral fatigue syndrome; chronic fatigue syndrome.	No (refers to another publication)	None stated	Only patients with complete records for 3 years prior to the index date were included	Not applicable	-

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3 4 5 6 7 8 9	Petersen, 2006 [34]	Risk and predictors of fatigue after infectious mononucleosis in a large primary-care cohort	Nested case control cohort study	CPRD	1989-2000	Read codes for diagnoses of post- viral debility, post-viral fatigue syndromes, post-influenza debility and syndrome post-viral; symptoms of tiredness, malaise, lethargy, debility, and fatigue.	No (Stated that was available from the authors but could not be obtained)	None stated	At least one year of data before diagnosis // At least one year of complete follow up after diagnosis	Included patients who did not have fatigue in the year before onset	-
11 12 13 14 15 16 17	Turner, 2016 [46]	Ongoing impairments following transient ischaemic attack: retrospective cohort study	Nested case- cohort study	THIN	2009-2013	First consultation after the index date with a Read code for symptoms or diagnosis of fatigue	No Obtained from the authors	None stated	Practice with at least one year of up to standard data, and patients registered for at least one year with the practice.  Patient alive and registered with the practice 1 month after index	Excluded patients with fatigue recorded on the index date.	
19	CPI	RD – Clinical Practice R	esearch Datalink;	THIN – The H	ealth Improve	ement Network.			unor macx		
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# Appendix table 8. Main characteristics of the eligible studies: pain.

5 Author, 6 year of 7 publication 8	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
10 Becker, 11 <sup>2007</sup> [76] 12 13	Migraine incidence, comorbidity and health resource utilization in the UK	Nested case- control study	CPRD	1994-2001	Migraine diagnosis	No	Yes GP questionna ire	None stated	First-time diagnosis only	-
14 Campbell, 15 2015 [77] 16 17 18 19 20 21 22 23 24 25 26 27	In sickness and in health: A cross-sectional analysis of concordance for musculoskeletal pain in 13,507 couples	Descriptive	CiPCA	2005-2006	Widespread body pain: "All relevant codes were formed into the five most common consultation body regions (back, knee, neck, shoulder, foot), as well as codes for osteoarthritis consultations. A further category of 'any musculoskeletal' consultations were formed inclusive of the above body regions and conditions, as well as consultations for unspecified pain (e.g. arthralgia), widespread pain conditions and other single body regions where the proportion of consultations were too few to perform meaningful separate analysis (e.g. head, arm, elbow, wrist, hand, hip, pelvis, thigh and buttock)."	Yes	None stated	None stated	None stated	-

Validation EHR-related

Handling of

Study title

Epidemiology and treatment of neurophatic pain: the UK primary care perspective

Type of study

Database(s) Study

Outcome description

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Type of Study	Database(s)	period (years)	Catcome description	codes available	of list of codes	eligibility criteria for the study // Follow up requirements	outcomes occurring prior to exposure	Notes
Descriptive	CPRD	1992-2002	"A post-herpetic neuralgia record was a specific term for post-herpetic neuralgia or an acute herpes zoster term plus either neuropathy, or neuropathic pain, 3-6 months after the first acute herpes zoster entry. A trigeminal neuralgia record had a specific term for this diagnosis.   Phantom limb pain was defined as a specific term or a term for amputation plus either a neuropathy or neuropathic pain record 3–24 months after the first amputation code. Patients were included in the painful diabetic neuropathy cohort if their record contained a specific term; a term for diabetic neuropathy with a prescription for a treatment for pain current at the date of diagnosis; a record of diabetes and neuropathic pain or record of diabetes and both neuralgia and a treatment for pain current on the date of the neuralgia code."	No	None stated	At least year of up to standard data	None stated	
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List of

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Notes

Author, year of publication	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8 Hall, 2013 9 [79] 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34	An observational descriptive study of the epidemiology and treatment of neuropathic pain in a UK general population	Cohort study, descriptive	CPRD	2005-2010	"Five neuropathic pain cohorts (postherpetic neuralgia, painful diabetic neuropathy, phantom limb pain, neuropathic back pain and neuropathic postoperative pain) were identified from () a single specific Read code, or a combination of Read and therapy codes as specified in a case definition. Postherpetic neuralgia was defined as a specific code for post-herpetic neuralgia, or a code for acute zoster plus either a code for neuropathy, or neuropathic pain, between three and six months after the first acute zoster entry. Phantom limb pain (PLP) was defined as a specific code, or a code for amputation plus either a code for neuropathy or neuropathic pain between three and twenty-four months after the first amputation code. The painful diabetic neuropathy cohort included patients with a specific code for painful diabetic neuropathy (or diabetes and a general code for neuropathy (or diabetes and neuralgia) with a prescription for a neuropathic pain treatment which was initiated within 28 days of the date of the neuropathy/ neuralgia code."		Yes GP questionna ires	At least of 1 year of data of good quality for research		None stated
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Author, year of publication  7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8 Mansfield, 9 2017 [80] 10 11 12 13 14 15 16 17 18 19 20 21	Identifying patients with chronic widespread pain in primary care	Cross sectional	CiPCA	2005-2009	(A) Recurrent region pain, define as: "In a period of 5 consecutive years, a patient fulfils all of 1-4:  1. At least 1 consultation for a musculoskeletal complaint in the axial skeleton (neck and back);  2. At least 1 consultation for an upper- or lower-limb complaint;  3. At least 1 consultation for a regional musculoskeletal complaint in each of 3 separate years;  4. At least 4 consultations for regional musculoskeletal complaints during the 5-year period."  (B) "Non specific generalized pain conditions, including fibromyalgia, fibrositis, rheumatism, myalgia, arthralgia, and polyalgia"	Yes	Yes	Patients not registered with the practice for the full 5-year period were excluded	Not applicable (cross sectional analysis)	
23 Ruigomez, 24 2006 [81] 25 26 27 28 29	Chest pain in general practice: incidence, comorbidity and mortality	Case control study	CPRD	1996	Chest pain: Codes for chest pain that did specify the type or location of the symptom.	Yes	None stated	Registered with the GP for at least 2 years // At least one entry in the records in the last 3 years before the study	Excluded patients with history of pain the past 2 years	-
30 Wallander, 31 <sup>2007</sup> [82] 32 33 34 35 36 37	Unspecified abdominal pain in primary care: The role of gastrointestinal morbidity	Matched cohort study	CPRD	Before 1996	Abdominal pain: Diagnosis of abdominal pain	Yes	None stated	At least one entry to the data in the three years prior to the study start.	Patients were excluded if they had a record of abdominal pain of any abdominal site or type in the 2 years before the study started.	-

Study title

Type of study

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Outcome description

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year of publication 6	n  Prevalence and	Cohort study	Mediplus UK	period (years)	Chronic pelvic pain: pain in the lower	codes available	of list of codes	eligibility criteria for the study // Follow up requirements None stated	outcomes occurring prior to exposure	Notes
9 1999 [83] 10 11 12 13 14 15 16 17 18 19 20 21 22	incidence of chronic pelvic pain in primary care: evidence from a national general practice database		primary care database		abdominal region persisting for at least six months.  "Episode of chronic pelvic pain: pelvic pain on two or more contacts, with at least six months (≥ 183 days) between the first and the last contact but with no period of more than one year (> 365 days) without a pelvic pain contact. An episode of chronic pelvic pain was defined as starting six months after the first contact and finishing at the contact preceding a pain-free, one-year interval (if any)."  "Excluded pain due to malignancy; chronic inflammatory and other defined bowel diseases such as Crohn's, coeliac disease, ulcerative		stated		Monthly incidence estimated as the number of new episodes in a given month as a proportion of	
23 24					colitis; acute conditions verified by having surgery such as					
25 26					appendicectomy, cholecystectomy; or pregnancy. Women with pelvic					
26 27					pain occurring only during menstruation (dysmenorrhoea) or					
28					sexual intercourse (dyspareunia) were also excluded."		7/_			
2 <del>9</del> 30	CiPCA - The Consultation	s in Primary Care	Archive; CPRE	) – Clinical P	ractice Research Datalink;. NSAIDS	S - Nonsteroida	al anti-inflam	matory drug.		

Handling of

Notes

3	Appendix table 9.	Main charac	cteristics o	of the elig	jible studies: sexual dysf	unction.				
<sup>4</sup> Author, 5year of 6publication <sup>7</sup> Title 8	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
9Blumentals, 1 <del>2</del> 003 [84] 11 12	Antihypertensive treatment and erectile dysfunction in a cohort of type II diabetes patients	Nested case- control study	CPRD	1987-2001	Erectile dysfunction, ascertained from the diagnosis codes, not further specified	No	None stated	None stated	None stated	-
13 Hagberg, 12016 [85] 15 16 17 18 19 20 21 22 23 24	Risk of erectile dysfunction associated with use of 5-alpha reductase inhibitors for benign prostatic hyperplasia or alopecia: population based studies using the Clinical Practice Research Datalink	Nested case control study	CPRD	1992-2011	Erectile dysfunction: "diagnosis of erectile dysfunction or impotence, prescription for a phosphodiesterase type 5 inhibitor (eg, sildenafil, tadalafil, or vardenafil) where the strength and quantity prescribed was indicated for treatment of erectile dysfunction, or record of procedures for treatment of erectile dysfunction (eg, penile prosthesis, penile injection, or other operations for treatment of erectile dysfunction)."  Non-erectile dysfunction: including ejaculatory disorder, psychosexual dysfunction, or low libido	No	None stated	At least 3 years of history before the cohort entry date;	Incident cases considered after the index date.	
2 <b>l6</b> han, 2011 2[6 <sup>2</sup> ] 28 29 30 31	Long-term health outcomes in a British cohort of breast, colorectal and prostate cancer survivors: a database study	Cohort study	CPRD	2003-2006	Erectile dysfunction: "new prescriptions for sildenafil (Viagra, Pfizer, NY, United States), apomorphone hydrochloride, vardenafil (Levitra, Bayer Healthcare Pharmaceuticals, New Haven, USA), alprostadil (an injectable treatment) and tadalafil (Cialis, Lilly, USA)"	No	None stated	None stated	Excluded patients with erectile dysfunction recorded before the index date	-
3 <mark>5</mark> 10rant, 3 <sup>2</sup> 4008 [86] 35 36	Increased sexual dysfunction in men with storage and voiding lower urinary tract symptoms	Cross-sectional analysis	THIN	2000-2007	Male sexual dysfunction	Yes	None stated	None stated	None stated	-
3\$chlesinger, 2018 [87] 38 39	Gout and the Risk of Incident Erectile Dysfunction: A Body Mass Index-matched Population-based Study	Cohort study	THIN	1995-2012	Erectile dysfunction noted by the presence of the Read code E227311	Yes	None stated	At least one year of registration with the practice before the index date	Excluded prevalent cases at baseline	-

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3Author, 4year of 5publication <sup>6</sup> Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8Sultan, 2017 9 <sup>[88]</sup> 10 11 12 13	Gout and subsequent erectile dysfunction: a population-based cohort study from England	Cohort study	CPRD, HES	1998-2004	Erectile dysfunction, ascertained from the medical codes, not further specified	Yes	None stated	At least 1 year of follow up data	Only incident cases after the index date were considered; cases in the first 6 months of registration were considered prevalent.	-
15	CPRD – Clinical Practice	Research Datalir	nk; HES – Hos	pital Episode	s Statistics; THIN – The Health Imp	provement Net	work.			

CPRD – Clinical Practice Research Datalink; HES – Hospital Episodes Statistics; THIN – The Health Improvement Network.

#### Appendix table 10. Main characteristics of the eligible studies: sleep disorder.

<sup>5</sup> Author, 6year of 7publication <sup>8</sup> Title	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
1 <b>B</b> oddy, 2013 1[β <sup>9</sup> ] 12	The association of gout with sleep disorders: A cross-sectional study in primary care	Matched cohort study	CiPCA and PiPCA	2001-2008	Read codes for sleep disorders, excluding codes for sleep apnoea which were classified separately	Yes	None stated	None stated	None stated	-
1Wallander, 12007 [90] 15 16 17 18 19	Morbidity associated with sleep disorders in primary care: A longitudinal cohort study	Cohort study	CPRD	1996	Read codes for sleep disorder including insomnia, hypersomnia, and sleep disturbance	Yes	None stated	Registered with a general practitioner for at least 2 years and having at least 1 entry in CPRD in the previous 3 years.	Patients with a consultation for sleep disorders during the 2 years before the start of the study were excluded.	-

CPRD – Clinical Practice Research Datalink; CiPCA - The Consultations in Primary Care Archive; PiPCA - The Prescriptions in Primary Care Archive.

3		1. Main char	acteristics	of the el	igible studies: fatal and n	on-fatal s	self-harm.			
<sup>4</sup> Author, 5year of 6publication <sup>7</sup> Title	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure (applicable to self-harm only)	Notes
9Andersohn, 1 <del>0</del> 010 [91] 11 12 13 14 15	Use of antiepileptic drugs in epilepsy and the risk of self-harm or suicidal behaviour	Nested case- control study	CPRD	1990-2005	"Potential cases were identified using predefined medical codes of self-harm (i.e., without a clear suicidal intention [intentional self-harm]) or suicidal behaviour (i.e., with a clear suicidal intention [attempted suicide]). Patients who died were also considered as potential cases if suicidal thoughts were recorded within 4 weeks before death."	Yes	Yes, record review	At least one year of data with the GP practice	Models adjusted for history of self-harm at baseline	In an additional analysis, the patients with codes for self-harm without explicitly mention to suicidal behaviour were excluded.
17, rana, 2010 18, 2] 19 20 21 22 23 24 25 26 27 28 29 30 31 32	Suicide-related events in patients treated with antiepileptic drugs	Cohort study	THIN	1988-2008	"Cases of suicide-related events were based on codes for suicide, attempted suicide, and intentional self-inflicted injuries plus suicide. A completed suicide was defined as a code for suicidality followed by a code for death in the following month and a final date of any administrative activity in the database or disenrollment within 6 months after the suicidality code. If the disenrollment date occurred more than 6 months after a suicidality code, we reviewed the patient's profile. Patients with a last medical or other health related code that was recorded within 1 month after the suicide date were also considered to have completed suicide."	No	Yes  GP questionna ire, record and death certificate review	Patients were eligible if they were enrolled with a clinical practice for at least 6 months during the study period	Patients with personal or family history of suicide attempt were excluded	
36arr, 2016 [93] 34 35 36 37 38 39	The epidemiology of self-harm in a UK-wide primary care patient cohort, 2001-2013	Descriptive cohort study	CPRD	2001-2013	"Read codes incorporating all cases across the spectrum from milder forms of non-suicidal behaviour through to near-fatal suicide attempts () We excluded codes that referred only to thoughts of self-harm or suicidal ideation and alcohol-related codes, unless intent to actively harm oneself was specified.	Yes	None stated	None stated	None stated	None stated

3Author, 4year of 5publication 6Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure (applicable to self-harm only)	Notes
8 <sup>Carr, 2017</sup> 9 <sup>[94]</sup> 10	Premature Death Among Primary Care Patients With a History of Self-Harm	Cohort study	CPRD ONS	2001-2013	Suicide, ascertained with ICD-10 codes in the ONS mortality data; including open verdicts.	Yes	Not applicable	At least one year of registration with the practice prior to the index date;	Not applicable.	-
1©oupland, 12011 [95] 12 13 14	Antidepressant use and risk of adverse outcomes in older people: Population based cohort study	Cohort study	QResearch, ONS	1996-2007	Read codes for attempted suicide or self-harm, not further specified	No	None stated	At least one year of registration with the practice prior to the index date;	None stated	Suicide was also an outcome, but data for this outcome was not analysed due to small numbers.
16 <sub>oupland</sub> , 1 <b>2</b> 015 [96] 18 19 20 21	Antidepressant use and risk of suicide and attempted suicide or self-harm in people aged 20 to 64: cohort study using a primary care database	Cohort study	QResearch, ONS	2000-2011	"code for suicide or an open verdict in their linked death certificate, or patients who had a Read code for attempted suicide or self-harm who died within 30 days.	No (refers to codes used in other studies	None stated	At least one year of registration with the practice prior to the index date; // Most analysis restricted to the first 5 years of follow up.	Excluded patients with a previous attempted suicide or self-harm event recorded at baseline	-
2Bardet, 2012 2[42] 25 26 27	Suicidal behavior and severe neuropsychiatric disorders following glucocorticoid therapy in primary care	Cohort study	THIN	1990-2008	Cases of suicide or suicide attempt	No	Yes  Review of death certificates	≥6 months of registration with the primary care practice	Hazards ratios adjusted for past history of neuropsychiatric disorders (yes/no)	Outcome was eligible if there was no record of the outcome in the previous 6 months
29onovan, 1996 [97] 29 30 31	The use of the General Practice Research Database (GPRD) to examine potential links between antidepressant medication and the incidence of suicide	Cohort study	CPRD	1988-1993	Suicide, not further specified	No	None stated	None stated	Prior suicidal history considered as a risk factor for suicide	-
3Boyle, 2016 3[a]8] 35 36 37	Suicide risk in primary care patients diagnosed with a personality disorder: a nested case control study	Nested case control study	CPRD, ONS	2002-2011	Suicides and open verdicts ascertained via linkage to ONS mortality data	Yes (ICD-10 codes)	Not applicable (Data linked to the gold- standard)	At least one year of up to standard CPRD data	Not applicable	•

<sup>3</sup> Author, 4year of <sub>5</sub> publication <sup>6</sup> Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure (applicable to self-harm only)	Notes
8Gao, 2013 9 <sup>[99]</sup> 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	Association between body mass index and suicide, and suicide attempt among British adults: The health improvement network database	Cohort study	THIN	2000-2007	Suicide: "defined in two ways (): 1) patients with a Read code of suicide attempt confirmed by death within 3 months or 2) patients who did not have a Read code of suicide attempt, but whose cause of death might be suicide. To identify patients using the second approach, we first searched for all deaths () the cause of death was reviewed. In addition, free text records were searched for potential suicide as cause of death, including suicide, deliberate drug overdose or self-harm, self-inflicted injuries, poisoning, asphyxiation, trauma, and acute or multiple organ failure. Death certificates for these patients were requested for the final verdict of the cause of death.  Suicide attempt: "identified using the Read codes for suicide and then by confirming that the patient was still alive for at least 3 months from the time of the event."	No	None stated	None stated	None stated	
28gunnell, 22009 [19] 30 31 32 33 34	Varenicline and suicidal behaviour: a cohort study based on data from the General Practice Research Database	Cohort study	CPRD	2006-2008	OXMIS and Read terms for fatal and non-fatal self-harm.	No	Yes Record review	At least 1 years of CPRD records before index date;	Considered the potential confounding effect of previous self-harm or suicidal thoughts in analysis.	-

<sup>3</sup> Author, 4year of 5 <sup>publication</sup> <sup>6</sup> Title	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure (applicable to self-harm only)	Notes
8Hall, 2009 9 <sup>[100]</sup> 10 11 12 13 14	Validation of death and suicide recording on the THIN UK primary care database	Validation study	THIN	2002-2004	"Coded and free text records were searched to identify any entry for suicide or a medical cause of death which might indicate suicide, including trauma, poisoning, overdose, asphyxiation, acute or multiple organ failure or a suggestion that death was intentional. An electronic record of suicide was accepted."	Yes	Yes (Validation study, record review)	None stated	Not applicable (validation study)	-
16 agberg, 12016 [21] 18 19 20 21 22 23	Incidence rates of suicidal behaviors and treated depression in patients with and without psoriatic arthritis using the Clinical Practice Research Datalink	Cohort study	CPRD	1998-2012	Suicidal behaviours, defined as: "diagnosis of suicidal ideation, suicide attempt, and/or suicide recorded after the cohort entry date. () If a patient had a code for suicide, but had not died, the event was classified as a suicide attempt. Suicidal ideation, attempts, and suicide were considered separately; thus a patient may have been included in more than one analysis.	No	Yes, record review	At least one year of registration with the practice prior to the index date	Patients with suicidal behaviors were included "because patients could recover from suicidal behaviors with treatment or consultation."	-
25 Agyes, 2016 26 01] 27 28 29 30 31 32 33 34 35	Self-harm, Unintentional Injury, and Suicide in Bipolar Disorder During Maintenance Mood Stabilizer Treatment: A UK Population-Based Electronic Health Records Study	Cohort study	THIN	1995-2013	"emergency department or primary care attendance for self-harm during the period of drug exposure and the 3 months afterward. This outcome included Read codes for intentional poisoning, intentional self injurious behavior, and self-harm acts of uncertain intent. () Secondary outcomes were unintentional injury (eg, falls or motor vehicle crashes) seen in primary or secondary care and a record of the patient's suicide during this period"	No	Refers to previous validation of the list of codes	None stated	Not applicable (the outcome was diagnoses during the exposure period)	-

3Author, 4year of 5publication 6Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure (applicable to self-harm only)	Notes
8Hesdorffer, 9 <sup>2012</sup> [4] 10 11 12 13 14 15 16 17	Epilepsy, suicidality, and psychiatric disorders: a bidirectional association	Cohort study	CPRD	1990-2008	Read codes for suicidality including codes for attempted suicide and completed suicide.	No	None stated	At least 3 years of data before the index date, and at least 1 code for a medical or drug code in the 6 months before the index // At least 1 day of data after index date; follow up duration: 3 years after index date	Excluded subjects with a record of the outcome before the study date.	-
1Aesdorffer, 22016 [102] 21 22 23 24 25 26 27 28 29 30	Occurrence and Recurrence of Attempted Suicide Among People With Epilepsy	Cohort study	CPRD	1988-2013	Diagnoses of attempted suicide identified with Read codes, not further specified.  Suicide attempts divided into incident or recurrent.	No	None stated	At least 6 month of complete records before the index date and ≥1 medical or drug codes for a condition other than epilepsy in the 6 months before the index date.  // At least 1 day of data post index date	None stated	-

3Author, 4year of 5publication 6Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure (applicable to self-harm only)	Notes
8Haste, 1998 9 <sup>[103]</sup> 10 11 12 13 14 15 16 17	Potential for suicide prevention in primary care? An analysis of factors associated with suicide.	Matched cohort study	CPRD	1991-1993	Suicide: "were identified from the database in two ways: 1. Patients with a record of suicide in the notes; and 2. Patients who did not have a record of suicide, but whose record of cause of death on the database suggested that suicide might be possible. These causes included death from carbon monoxide poisoning (excluding accidental poisoning), hanging, suicidal or accidental overdose, and reference to self-inflicted injury. () Cases where the verdict was open were included."	No	Yes  GP confirmatio n, review of death certificates	None stated	Not applicable (cases of completed suicide only)	-
19 <sub>ck, 1995</sub> 2004] 21 22 23 24 25 26 27	Antidepressants and suicide	Cohort study	CPRD	1988-1993	"Cases of suicide were identified from the computer record from among all the study subjects who died. When the cause of death was recorded as suicide or was considered to be uncertain, we obtained further information from the general practitioner and the death certificate to determine the final diagnosis and means of committing suicide."	No	Yes, GP questionna ire	At least 6 month of registration with the practice prior to the index date	Not applicable (cases of completed suicide only)	-
2 fick, 1998 2 fi 05] 30 31 32 33 34 35 36	A study of the relation of exposure to quinolones and suicidal behaviour	Nested case control study	CPRD	1991-1995	Three case groups: 1) committed suicide; 2) had a diagnosis of attempted suicide; 3) had a diagnosis of suicidal ideation.  "If the subject had more than one case diagnosis during the study period, only the first such diagnosis was considered."	Yes	None stated	>18 months of information on drugs prescribed and diagnoses recorded prior to the index.	None stated	-

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3Author, 4year of 5publication 6Title	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure (applicable to self-harm only)	Notes
8Jick, 2000 9 <sup>[106]</sup> 10 11 12 13	Isotretinoin use and risk of depression, psychotic symptoms, suicide, and attempted suicide	Cohort study	CPRD	?	Suicide and inpatient or outpatient code for attempted suicide	Yes	None stated	Between 5 years and 6 months of clinical records before the index date // At least 1 year of records post index date	Controlled for history of attempted suicide	-
15 <sub>ick, 2004</sub> 1 <sub>607]</sub> 17 18 19 20 21	Antidepressants and risk of suicidal behaviours	Cohort study	CPRD	1993-1999	Nonfatal suicidal behaviour: "Cases were those who (1) had a first-time recorded diagnosis of nonfatal suicidal ideation () or attempted suicide"  Suicide: patients who committed suicide, not further specified.	Yes	None stated	At least 2 years of registration with the practice prior to the index date	None stated	-
2 <del>3</del> ick, 2009 2[308] 24	Rate of suicide in patients taking montelukast	Cohort study	CPRD	1998-2007	'computer recorded diagnosis of suicide'	No	None stated	None stated	None stated	
24 2½urd, 2010 26 27 28 29 30 31	The risk of depression, anxiety, and suicidality in patients with psoriasis: A population-based cohort study	Matched cohort study	CPRD	1987-2002	'Suicidality was defined as diagnosis of suicidal ideation, suicide attempt, or suicide', defined by diagnostic Read or OXMIS codes.	No Refers to diagnostic codes used in other publications.	None stated	None stated	In sensitivity analysis, the patients with a diagnosis of the outcome measured prior to or within six months of the index date were excluded.	-
3k <sub>otz, 2015</sub> 3kg8] 34 35 36 37	Cardiovascular and neuropsychiatric risks of varenicline: a retrospective cohort study	Cohort study	QResearch	2007-2012	Fatal and non-fatal self-harm, not further specified	None stated	None stated	Registered for >12 months before data extraction // Follow up duration 6 months	History of neuropsychiatric events considered as confounders	-

3Author, 4year of 5publication 6Title	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure (applicable to self-harm only)	Notes
8Kotz, 2017 9 <sup>[27]</sup> 10 11	Cardiovascular and neuropsychiatric risks of varenicline and bupropion in smokers with chronic obstructive pulmonary disease	Cohort study	QResearch	2001-2012	Fatal and non-fatal self-harm, not further specified	None stated	None stated	None stated // Follow up duration 6 months	History of neuropsychiatric events considered as confounders	-
12 <sub>almohame</sub> 13, 2012 14,09] 15 16 17	Causes of death in patients with multiple sclerosis and matched referent subjects: A population-based cohort study	Cohort study	CPRD HES ONS mortality	2001-2008	Death by accident or suicide ascertained in the ONS mortality database	Yes (ICD-10 codes)	Not applicable (ONS mortality database, ICD-10 codes)	≥1 year of data available before index date	None stated	-
1 Martinez, 19005 [110] 19 20 21 22 23	Antidepressant treatment and the risk of fatal and non-fatal self harm in first episode of depression: nested case-control study	Nested case control study	CPRD	1995-2001	Non-fatal self-harm (drug overdose, deliberate self-laceration, poisoning, and non-fatal suicide attempts using other methods)  Suicide, identified by OXMIS and Read codes	No Obtained from the authors	Yes, Review of the death certificates and free text entries	≥1 year of data available before index date	Model adjusted for history of non-fatal self- harm	"People with an episode of non-fatal self harm were not censored in analyses with suicide as the end point."
2Meier, 2004 2 <sup>[5]</sup> 26 27 28 29 30 31 32 33	The Risk of Severe Depression, Psychosis or Panic Attacks with Prophylactic Antimalarials	Cohort study	CPRD	1990-1999	Suicide defined by OXMIS and/or ICD-8 codes	No	Yes 'reviewed a list of all cases to determine inclusion/ exclusion'	≥1 year of data available before index date and "some GPRD activity (diagnoses or prescriptions) recorded after the index date" // Patients were censored 18 months after exposure date	Not applicable (suicide as an outcome only)	-
34 3Mines, 2005 3[11] 36 37 38	Prevalence of risk factors for suicide in patients prescribed venlafaxine, fluoxetine, and citalopram	Cohort study	CPRD	1995-2002	Suicidal behaviour in the year prior to index date	Yes	None stated	≥1 year of data available	None stated	-

<sup>3</sup> Author, 4year of 5publication <sup>6</sup> Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure (applicable to self-harm only)	Notes
8Osborn, 9 <sup>2008</sup> [112] 10	Suicide and severe mental illnesses. Cohort study within the UK general practice research database	Matched cohort study	CPRD	1987-2002	Suicide, not further specified	No	None stated	None stated	None stated	
18ubino, 12007 [113] 13 14 15 16 17 18 19 20	Risk of suicide during treatment with venlafaxine, citalopram, fluoxetine, and dothiepin: retrospective cohort study	Cohort study	CPRD	1995-2005	Completed suicide: coding for death associated with mention of suicide in free text or by code for suicide in the medical record and a statement of death in the administrative record (30 days either way);  First attempted suicide (non-fatal event).	Yes	Yes Free text search	At least one year of registration with the practice prior to the index date	Suicide attempts considered as a confounder in the models	"excluded records that at the review of free text notes did not seem to represent attempted suicide - for example, unintentional overdose or self harm without suicidal intent"
21 Schneider, 22010 [37] 23 24 25 26 27	COPD and the risk of depression	Cohort study	CPRD	1995-2005	'incident suicide or suicidal ideation', not further specified	No Obtained from the authors	None stated	Patients with less than 3 years of active recording history prior to the date of the COPD diagnosis were excluded;	Patients with previous history of depression, suicide, suicidal ideation, etc., prior to the index date were excluded	- ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '

3Author, 4year of 5publication 6Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure (applicable to self-harm only)	Notes
8Schuerch, 9 <sup>2016</sup> [114] 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	Impact of varying outcomes and definitions of suicidality on the associations of antiepileptic drugs and suicidality: comparisons from UK Clinical Practice Research Datalink (CPRD) and Danish national registries (DNR)	Validation study	CPRD HES ONS	1996-2009	Suicidal ideation/intent:  "Recorded medical terms from the clinical and referral module, plus reasons for transfer out of the general practices to identify patients with one of these outcomes"  Suicide attempt:  "Recorded medical terms from the clinical and referral module, plus reasons for transfer out of the GP-practice to identify patients with one of these outcomes from CPRD."  Completed suicide:  "Term of suicidal attempt or ideation occurring simultaneously with a recording of death (+/- 4 weeks), death recorded as reason for leaving the practice (registering out), and a final date of any administrative activity in the database of disenrollment within six months after suicidality code."	Yes	Yes (validation study)	At least 6 months of data before the index date //	Patients with history of suicide attempts, self-harm or suicidal ideation/intent in the 6 months before index were excluded	
27homas, 28013 [40] 29 30 31	Smoking cessation treatment and risk of depression, suicide, and self harm in the Clinical Practice Research Datalink: prospective cohort study	Nested case- control study	CPRD, HES and ONS mortality data	2006-2011	Incidence fatal and non-fatal self- harm (as measured by death from suicide in the ONS mortality database) and hospital admission for self-harm (as recorded in the HES database). Includes open verdicts.	Yes for ONS database; no for Read codes.	None stated	At least one year of registration with the practice prior to the index date	Previous self- harm considered as a potential confounder in analysis	-

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<sup>3</sup> Author, 4year of 5 <sup>publication</sup>	Study title	Type of study	Database(s)
<sup>6</sup> Title 7			
8Thomas, 9 <sup>2013</sup> [115] 10 11 12 13 14 15 16 17	Validation of suicide and self-harm records in the Clinical Practice Research Datalink	Validation study	CPRD, HES, ONS mortality data, and Multicentre study of self- harm
18 1[116] 20 21 22 23 24 25 26 27	Changes in poisonings among adolescents in the UK between 1992 and 2012: a population based cohort study	Cohort study	THIN
29(ebb, 2012 3[017] 31 32 33 34	Risk of self-harm in physically ill patients in UK primary care	Nested case control study	CPRD
<sup>3</sup> Webb, 2012 3[18] 37 38	Suicide risk in primary care patients with major physical diseases: A case-control study	Nested case control study	CPRD and ONS mortality data
<del>39</del> 40			

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"Cases of suicide and self-harm (the

'events') were identified by

extracting all records with Read codes for suicide, attempted suicide

and self-harm (...). Given that

refer to both fatal and nonfatal

within the CPRD were identified using the conventional CPRD approach of linking patient deaths to Read codes for suicide that were recorded within 95 days of the CPRD derived death dates"

"poisonings [categorised] as

intentional, unintentional, unknown

Read codes explicitly described the

intent using the words 'deliberate' or

'intentional' (intentional); 'accidental'

(unintentional); and 'unknown' or 'unspecified' (unknown) then they were classified as such. The words 'suicide', 'self-inflicted', 'self-poisoning' or 'overdose' were also used to categorise a poisoning as intentional, unless otherwise

Suicidal ideation, defined by Read

terms 'suicide and self-inflicted,'

'suicide and self-harm,' 'parasuicide' or 'attempted suicide.' Cases that died following the code

certificate, and open verdicts.

coding descriptions that included the

Suicides as mentioned in the death

specified."

were excluded.

intent or alcohol related. Where

suicide-related Read codes may

suicide attempts, completed suicides

List of

codes

No

No

Yes

available

Validation

(Validation

study)

None

stated

None

stated

Not

(ONS

applicable

mortality data)

of list of

codes

Yes

**EHR-related** 

for the study

requirements

Registered with a

contributing with

data, and having

up to standard

acceptable

records for

None stated

At least two years

of up to standard

At least two years

of up to standard

CPRD data

CPRD data

research.

Follow up

practice

eligibility criteria

Handling of

to exposure

(descriptive

study on the

harm)

(applicable to

self-harm only)
Not applicable

incidence of self-

First poisoning

within the

period

observation

None stated

Not applicable

only)

(study of suicide

occurring prior

outcomes

Notes

Multiple events

occurring in the

same individual

within a month

one event only

were counted as

**Outcome description** 

Study

period

(years)

1998-2010

1992-2012

2001-2008

2001-2008

<sup>3</sup> Author, 4year of <sub>5</sub> publication <sup>6</sup> Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure (applicable to self-harm only)	Notes
8Wijlaars, 9 <sup>2013</sup> [119] 10 11 12 13	Suicide-related events in young people following prescription of SSRIs and other antidepressants: A self- controlled case series analysis	Nested case control study	THIN	1995-2009	Suicide attempts, suicidal ideation and completed suicide.  Completed suicides: "Read codes that were confirmed by a date of death within 2 weeks of the suicide event date. We searched a cause of death, if available."  Excluded cases classified as open verdicts.	Refers to a previous list, that was updated for the study	Yes Record review	At least 6 months of up to standard CPRD data	Accounted for in analysis	-
15 Vindfuhr, 1 <u>2</u> 016 [120] 17 18 19 20	Suicide risk linked with clinical consultation frequency, psychiatric diagnoses and psychotropic medication prescribing in a national study of primary-care patients	Nested case- control study	CPRD and ONS mortality data	2002-2011	International Classification of Disease version 10 (ICD-10) codes X60-84, Y10-34 (excluding Y33.9), Y87.0, Y87.2 Includes open verdicts	Yes	Not applicable (ONS mortality data)	≥1 year of data available after up to standard data	None stated	-
2¥ang, 2003 2[34] 24 25 26 27 28	Lipid-lowering drugs and the risk of depression and suicidal behaviour	Matched cohort study	CPRD	1991 onwards	Suicidal behaviour, ideation suicidal, suicidal plan, suicidal thoughts, attempted suicide, threat suicide, suicidal drug overdose, drug overdose, para suicide and suicide.	Yes	No (refers to previous studies assessing suitability of the records)	Patients with history of suicidal behaviour prior to study start were excluded	None stated	-

CPRD - Clinical Practice Research Datalink; THIN - The Health Improvement Network; PCCIU - Primary Care Clinical Informatics Unit; SSRI - selective serotonin re-uptake inhibitors; GP – General practice; MAOIs - monoamine oxidase inhibitors; CiPCA - Consultations in primary care archive; PiPCA - Prescriptions in primary care archive.

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## Appendix 11. List of Read codes used in the studies of anxiety.

Read code	Description	Number of studies
Eu41.00	[X]Other anxiety disorders	5
Eu41100	[X]Generalized anxiety disorder	5
Eu41z11	[X]Anxiety NOS	5
Eu41000	[X]Panic disorder [episodic paroxysmal anxiety]	4
Eu05400	[X]Organic anxiety disorder	4
Eu41112	[X]Anxiety reaction	4
Eu41111	[X]Anxiety neurosis	4
Eu41z00	[X]Anxiety disorder, unspecified	4
E202.12	Phobic anxiety	4
E200200	Generalised anxiety disorder	4
E200.00	Anxiety states	4
E200000	Anxiety state unspecified	4
E200z00	Anxiety state NOS	4
Eu40.00	[X]Phobic anxiety disorders	3
Eu40z00	[X]Phobic anxiety disorder, unspecified	3
Eu41012	[X]Panic state	3
Eu41011	[X]Panic attack	3
Eu41y00	[X]Other specified anxiety disorders	3
Eu41300	[X]Other mixed anxiety disorders	3
Eu41211	[X]Mild anxiety depression	3
Eu41113	[X]Anxiety state	3
E200500	Recurrent anxiety	3
E200100	Panic disorder	3
E200111	Panic attack	3
E200400	Chronic anxiety	3
1B1V.00	C/O - panic attack	3
1B13.11	Anxiousness - symptom	3
1B13.00	Anxiousness	3
E200300	Anxiety with depression	3
Eu93200	[X]Social anxiety disorder of childhood	2
Eu34114	[X]Persistant anxiety depression	2
Eu40012	[X]Panic disorder with agoraphobia	2
Eu40y00	[X]Other phobic anxiety disorders	2
Eu41200	[X]Mixed anxiety and depressive disorder	2
Eu93y12	[X]Childhood overanxious disorder	2
Eu41y11	[X]Anxiety hysteria	2
E2D0.00	Disturbance of anxiety and fearfulness childhood/adolescent	2
E2D0z00	Disturbance anxiety and fearfulness childhood/adolescent NOS	2
E202100	Agoraphobia with panic attacks	2
E292400	Adjustment reaction with anxious mood	2
E280.00	Acute panic state due to acute stress reaction	2
Z4I7.00	Acknowledging anxiety	2
Eu40100	[X]Social phobias	1
Eu40112	[X]Social neurosis	1
Eu93000	[X]Separation anxiety disorder of childhood	1
Eu42100	[X]Predominantly compulsive acts [obsessional rituals]	1
Eu93100	[X]Phobic anxiety disorder of childhood	1
Eu42.12	[X]Obsessive-compulsive neurosis	1
Eu42.00	[X]Obsessive - compulsive disorder	1
Eu45215	[X]Nosophobia	1
Eu46z11	[X]Neurosis NOS	1

Read code	Description	Number of studies
Eu40300	[X]Needle phobia	1
Eu45213	[X]Hypochondriacal neurosis	1
Eu45212	[X]Dysmorphophobia nondelusional	1
Eu51511	[X]Dream anxiety disorder	1
Eu40213	[X]Claustrophobia	1
Eu60600	[X]Anxious [avoidant] personality disorder	1
Eu42.11	[X]Anankastic neurosis	1
Eu40011	[X]Agoraphobia without history of panic disorder	1
Eu40000	[X]Agoraphobia	1
R2y2.00	[D]Nervousness	1
R2y2.12	[D]Nervous tension	1
R2y2.11	[D]Nerves	1
1BK00	Worried	1
1B12.12	Tension - nervous	1
E202300	Social phobia, fear of eating in public	1
E112000	Single major depressive episode, unspecified	1
E292000	Separation anxiety disorder	1
Z4I7211	Reducing anxiety	1
Z4I7100	Recognising anxiety	1
E29y100	Other post-traumatic stress disorder	1
E203z00	Obsessive-compulsive disorder NOS	1
E203100	Obsessional neurosis	1
225J.00	O/E - panic attack	1
2258.00	O/E - anxious	1
1465.00	H/O: depression	1
1466.00	H/O: anxiety state	1
1B100	General nervous symptoms	1
E275711	Compulsive water drinking	1
E203000	Compulsive neurosis	1
1P300	Compulsive behaviour	1
E202800	Claustrophobia	1
E2D0000	Childhood and adolescent overanxiousness disturbance	1
1B13.12	Anxious	1
8G94.00	Anxiety management training	1
Z4L1.00	Anxiety counselling	1
E203.11	Anancastic neurosis	1
Z4I7200	Anxiety counselling Anancastic neurosis Alleviating anxiety	1
E202200	Agoraphobia without mention of panic attacks	1
1B12.00	'Nerves' - nervousness	1
1B12.11	'Nerves'	1

## Appendix 12. List of Read codes used in the studies of depression.

		Number of
Read code	Description	studies
E112.00	Single major depressive episode	14
E112000	Single major depressive episode, unspecified	14
E112100	Single major depressive episode, mild	14
E112200	Single major depressive episode, moderate	14
E112300	Single major depressive episode, severe, without psychosis	14
E112z00	Single major depressive episode NOS	14
E135.00	Agitated depression	14
E112.11	Agitated depression	13
E112.12	Endogenous depression first episode	13
E112.13	Endogenous depression first episode	13
E112.14	Endogenous depression	13
E112500	Single major depressive episode, partial or unspec remission	13
E2B00	Depressive disorder NEC	13
E2B1.00	Chronic depression	13
Eu32.00	[X]Depressive episode	13
E113.00	Recurrent major depressive episode	12
E11y200	Atypical depressive disorder	12
E11z200	Masked depression	12
Eu32.11	[X]Single episode of depressive reaction	12
Eu32.12	[X]Single episode of psychogenic depression	12
Eu32.13	[X]Single episode of reactive depression	12
Eu32000	[X]Mild depressive episode	12
Eu32100	[X]Moderate depressive episode	12
Eu32200	[X]Severe depressive episode without psychotic symptoms	12
Eu32400	[X]Mild depression	12
Eu32y00	[X]Other depressive episodes	12
Eu32z00	[X]Depressive episode, unspecified	12
Eu33.00	[X]Recurrent depressive disorder	12
E112400	Single major depressive episode, severe, with psychosis	11
E113.11	Endogenous depression - recurrent	11
E130.11 Eu32212	Psychotic reactive depression	11 11
	[X]Single episode major depression w'out psychotic symptoms	
Eu32y11	[X]Atypical depression	11
Eu32z11	[X]Depression NOS	11 11
Eu32z12 1B17.00	[X]Depressive disorder NOS	
E112600	Depressed Single major depressive episode, in full remission	10 10
E112000 E113000	Recurrent major depressive episodes, unspecified	10
E113000	Recurrent major depressive episodes, unspecined  Recurrent major depressive episodes, mild	10
E113100	Recurrent major depressive episodes, milid  Recurrent major depressive episodes, moderate	10
E113300	Recurrent major depressive episodes, moderate  Recurrent major depressive episodes, severe, no psychosis	10
E113500	Recurrent major depressive episodes, severe, no psychosis  Recurrent major depressive episodes, partial/unspec remission	10
E113700	Recurrent depression	10
E113z00	Recurrent major depressive episode NOS	10
E130.00	Reactive depressive psychosis	10
E200300	Anxiety with depression	10
E291.00	Prolonged depressive reaction	10
Eu32211	[X]Single episode agitated depressn w'out psychotic symptoms	10
Eu32211	[X]Single episode agriculed depression wout psychotic symptoms	10
Eu32311	[X]Single episode vital depression wout psychotic symptoms	10
_U02011	properties of the properties o	10

Pood codo	Description	Number of
Read code	·	studies
Eu32313	[X]Single episode of psychotic depression	10
Eu32y12	[X]Single episode of masked depression NOS	10
Eu32z13	[X]Prolonged single episode of reactive depression	10
Eu33.11	[X]Recurrent episodes of depressive reaction	10
Eu33.12	[X]Recurrent episodes of psychogenic depression	10
Eu33.13	[X]Recurrent episodes of reactive depression	10
Eu33000	[X]Recurrent depressive disorder, current episode mild	10
Eu33100	[X]Recurrent depressive disorder, current episode moderate	10
Eu33211	[X]Endogenous depression without psychotic symptoms	10
Eu33y00	[X]Other recurrent depressive disorders	10
Eu33z00	[X]Recurrent depressive disorder, unspecified	10
Eu34114	[X]Persistant anxiety depression	10
1B1U.00	Symptoms of depression	9
1B1U.11	Depressive symptoms	9
E113600	Recurrent major depressive episodes, in full remission	9
Eu32300	[X]Severe depressive episode with psychotic symptoms	9
Eu32312	[X]Single episode of psychogenic depressive psychosis	9
Eu32314	[X]Single episode of reactive depressive psychosis	9
Eu32500	[X]Major depression, mild	9
Eu32600	[X]Major depression, moderately severe	9
Eu32700	[X]Major depression, severe without psychotic symptoms	9
Eu32z14	[X] Reactive depression NOS	9
Eu33214	[X]Vital depression, recurrent without psychotic symptoms	9
Eu33311	[X]Endogenous depression with psychotic symptoms	9
Eu33z11	[X]Monopolar depression NOS	9
Eu34113	[X]Neurotic depression	9
Eu41200	[X]Mixed anxiety and depressive disorder	9
Eu41211	[X]Mild anxiety depression	9
1B17.11	C/O - feeling depressed	8
E113400	Recurrent major depressive episodes, severe, with psychosis	8
E204.00	Neurotic depression reactive type	8
Eu33200	[X]Recurr depress disorder cur epi severe without psyc sympt	8
Eu33212	[X]Major depression, recurrent without psychotic symptoms	8
Eu33400	[X]Recurrent depressive disorder, currently in remission	8
Eu34111	[X]Depressive neurosis	8
Eu3y111	[X]Recurrent brief depressive episodes	8
1BT00	Depressed mood	7
2257.00	O/E - depressed	7
E1112	Depressive psychoses	7
Eu32800	[X]Major depression, severe with psychotic symptoms	7
Eu33.14	[X]Seasonal depressive disorder	7
Eu33313	[X]Recurr severe episodes/major depression+psychotic symptom	7
Eu33314	[X]Recurr severe episodes/psychogenic depressive psychosis	7
Eu33315	[X]Recurrent severe episodes of psychotic depression	7
Eu33316	[X]Recurrent severe episodes/reactive depressive psychosis	7
9H90.00	Depression annual review	6
9H91.00	Depression medication review	6
9H92.00	Depression interim review	6
9HA0.00	On depression register	6
E290.00	Brief depressive reaction	6
Eu33300	[X]Recurrent depress disorder cur epi severe with psyc symp	6
Eu34100	[X]Dysthymia	6
E118.00	Seasonal affective disorder	5

Read code	Description	Number of studies
E204.11	Postnatal depression	5
E290z00	Brief depressive reaction NOS	5
Eu53011	[X]Postnatal depression NOS	5
Eu53012	[X]Postpartum depression NOS	5
1465.00	H/O: depression	4
1BQ00	Loss of capacity for enjoyment	4
00.pHH8	Referral for guided self-help for depression	4
E02y300	Drug-induced depressive state	4
Eu33.15	[X]SAD - Seasonal affective disorder	4
R007z13	[D]Postoperative depression	4
1BP0.00	Loss of interest in previously enjoyable activity	3
1BT11	Low mood	3
1BU00	Loss of hope for the future	3
212S.00	Depression resolved	3
8CAa.00	Patient given advice about management of depression	3
90v0.00	Depression monitoring first letter	3
90v1.00	Depression monitoring second letter	3
90v2.00	Depression monitoring third letter	3
90v3.00	Depression monitoring verbal invite	3
90v4.00	Depression monitoring telephone invite	3
9k400	Depression - enhanced services administration	3
E001300	Presenile dementia with depression	3
E002100	Senile dementia with depression	3
E2B0.00	Postviral depression	3
Eu20400	[X]Post-schizophrenic depression	3
Eu34112	[X]Depressive personality disorder	3
Eu92000	[X]Depressive conduct disorder	3
1JJ00	Suspected depression	2
8BK0.00	Depression management programme	2
9HA1.00	Removed from depression register	2
90v00	Depression monitoring administration	2
9k40.00	Depression - enhanced service completed	2
9kQ00	On full dose long term treatment depression - enh serv admin	2
E115.00	Bipolar affective disorder, currently depressed	2
E11y.00	Other and unspecified manic-depressive psychoses	2
E211200	Depressive personality disorder	2
Eu25100	[X]Schizoaffective disorder, depressive type	2
Eu25111	[X]Schizoaffective psychosis, depressive type	2
Eu25112	[X]Schizophreniform psychosis, depressive type	2
Eu32B00	[X]Antenatal depression	2
Eu33213	[X]Manic-depress psychosis,depressd,no psychotic symptoms	2
Eu34y00	[X]Other persistent mood affective disorders	2
Eu34z00	[X]Persistent mood affective disorder, unspecified	2
Eu3y100	[X]Other recurrent mood affective disorders	2
Eu3z.00	[X]Unspecified mood affective disorder	2
1645.00	Excessive fluid intake	1
1B1J.00	Emotional problem	1
1B1J.11	Emotional upset	1
1BO00	Mood swings	1
1BP00	Loss of interest	1
1BT12	Sad mood Mood chargetions	1
1S400	Mood observations	1
1S40.00	Dysphoric mood	1

Read code	Description	Number of
388J.00	Hospital anxiety and depression scale	studies
388K.00	Geriatric depression scale	1
388P.00	HAD scale: depression score	1
388g.00	Beck depression inventory second edition score	1
62T1.00	Puerperal depression	1
6896.00	Depression screening using questions	1
8082.00	Emotional and psychosocial support and advice	1
9ON3.00	Stress monitoring default	1
9ON4.00	Stress monitoring 1st letter	1
9ON5.00	Stress monitoring 2nd letter	1
9ON6.00	Stress monitoring 3rd letter	1
9ON7.00	Stress monitoring verbal inv.	1
9ON8.00	Stress monitoring phone invite	1
9ON9.00	Stress monitoring deleted	1
90NA.00	Stress monitoring check done	1
9ONZ.00	Stress monitoring admin.NOS	1
E002.00	Senile dementia with depressive or paranoid features	1
E002z00	Senile dementia with depressive or paranoid features NOS	1
E004300	Arteriosclerotic dementia with depression	1
E115.11	Manic-depressive - now depressed	1
E115000	Bipolar affective disorder, currently depressed, unspecified	1
E115100	Bipolar affective disorder, currently depressed, mild	1
E115200	Bipolar affective disorder, currently depressed, moderate	1
E115300 E115400	Bipolar affect disord, now depressed, severe, no psychosis Bipolar affect disord, now depressed, severe with psychosis	1
E115500	Bipolar affect disord, now depressed, severe with psychosis  Bipolar affect disord, now depressed, part/unspec remission	1
E115600	Bipolar affective disorder, now depressed, in full remission	1
E115z00	Bipolar affective disorder, now depressed, in full remission  Bipolar affective disorder, currently depressed, NOS	1
E11y000	Unspecified manic-depressive psychoses	1
E11z100	Rebound mood swings	1
E222		1
E283.00	Other acute stress reactions	1
E283z00	Other acute stress reaction NOS	1
E284.00	Stress reaction causing mixed disturbance of emotion/conduct	1
E28z.00	Acute stress reaction NOS	1
E292.00	Adjustment reaction, predominant disturbance other emotions	1
E292400	Adjustment reaction with anxious mood	1
E292y00	Adjustment reaction with mixed disturbance of emotion	1
E292z00	Adjustment reaction with disturbance of other emotion NOS	1
E294.00	Adjustment reaction with disturbance emotion and conduct	1
E2C4.00	Mixed disturbance of conduct and emotion	1
E2C4z00	Mixed disturbance of conduct and emotion NOS	1
E35		1
E4J5	D/10 11 1 11 11 11 11 11 11 11 11 11 11 11	1
Eu02z16	[X] Senile dementia, depressed or paranoid type	1
Eu300	[X]Mood - affective disorders	1
Eu31.11	[X]Manic-depressive illness	1
Eu31300 Eu31400	[X]Bipolar affect disorder cur epi mild or moderate depressn	1
Eu31400 Eu31500	[X]Bipol aff disord, curr epis sev depress, no psychot symp	1
Eu31600	[X]Bipolar affect dis cur epi severe depres with psyc symp [X]Bipolar affective disorder, current episode mixed	1
Eu31y00	[X]Other bipolar affective disorders	1
Eu31y00	[X]Bipolar II disorder	1
Luciyii	Marketal II dioorder	'

Read code	Description	Number of studies
Eu31z00	[X]Bipolar affective disorder, unspecified	1
Eu33312	[X]Manic-depress psychosis,depressed type+psychotic symptoms	1
Eu34.00	[X]Persistent mood affective disorders	1
Eu3y.00	[X]Other mood affective disorders	1
Eu3y000	[X]Other single mood affective disorders	1
Eu3y011	[X]Mixed affective episode	1
Eu3yy00	[X]Other specified mood affective disorders	1
Eu400	[X]Neurotic, stress - related and somoform disorders	1
Eu43.00	[X]Reaction to severe stress, and adjustment disorders	1
Eu43000	[X]Acute stress reaction	1
Eu43012	[X]Acute reaction to stress	1
Eu43y00	[X]Other reactions to severe stress	1
Eu43z00	[X]Reaction to severe stress, unspecified	1
Eu92.11	[X]Emotional behavioural problems	1
R007z14	[D]Work stress	1
ZR2A.00	Beck depression inventory	1
ZR2A.11	BDI - Beck depression inventory	1
ZR2B.00	Beck hopelessness scale	1
ZR2G.00	Behaviour and mood disturbance scale	1
ZR2h.00	Brief depression rating scale	1
ZR700	Depression anxiety scale	1
ZR800	Depression self rating scale	1
ZR811	DSRS - Depression self rating scale	1
ZRBY.00	Edinburgh postnatal depression scale	1
ZRBY.11	EPDS - Edinburgh postnatal depression scale	1
ZRL6.00	Geriatric depression scale	1
ZRL6.11	GDS - Geriatric depression scale	1
ZRL6.12	Geriatric depression score	1
ZRLU.00	Hamilton rating scale for depression	1
ZRLU.11	HAMD - Hamilton rating scale for depression	1
ZRLU.12	HRSD - Hamilton rating scale for depression	1
ZRLfH00	Health of the Nation Outcome Scale item 7 - depressed mood	1
ZRLfI00	Health of the Nation Outcome Scale item 7 - depressed mood	1
ZRLn.00	Hopelessness scale	1
ZRLr.00	Hospital anxiety and depression scale	1
ZRLr.11	HAD - Hospital anxiety and depression scale	1
ZRLr.12	HADS - Hospital anxiety and depression scale	1
ZRVM.00	Leeds scale for the self-assessment of anxiety & depression	1
ZRaH.00	Mood affective checklist	1
ZRaH.11	MACL - Mood affective checklist	1
ZRbS.00	Positive and negative affect schedule	1
ZRby.00	Profile of mood states	1
ZRby.11	POMS - Profile of mood states	1
ZRrl.00	Wakefield self-assessment depression inventory	1
ZRrY.00	WHO depression scale	1
ZRrc.00	Zung self-rating depression scale	1
ZRrc.11	SDS - Zung self-rating depression scale	1
ZV11100	[V]Personal history of affective disorder	1
ZV11111	[V]Personal history of manic-depressive psychosis	1
ZV11112	[V]Personal history of manic-depressive psychosis	1

# Appendix 13. List of Read codes used in the studies of composite outcomes of anxiety and depression.

Read code	Description	Number of
Eu32200	[X]Severe depressive episode without psychotic symptoms	studies 2
Eu33z00	[X]Recurrent depressive disorder, unspecified	2
Eu33400	[X]Recurrent depressive disorder, currently in remission	2
Eu33100	[X]Recurrent depressive disorder, current episode moderate	2
Eu33000	[X]Recurrent depressive disorder, current episode mild	2
Eu33.00	[X]Recurrent depressive disorder	2
Eu33200	[X]Recurr depress disorder cur epi severe without psyc sympt	2
Eu41000	[X]Panic disorder [episodic paroxysmal anxiety]	2
Eu41y00	[X]Other specified anxiety disorders	2
Eu33y00	[X]Other recurrent depressive disorders	2
Eu32y00	[X]Other depressive episodes	2
Eu41.00	[X]Other anxiety disorders	2
Eu32100	[X]Moderate depressive episode	2
Eu41200	[X]Mixed anxiety and depressive disorder	2
Eu32000	[X]Mild depressive episode	2
Eu32400	[X]Mild depression	2
Eu41100	[X]Generalized anxiety disorder	2
Eu34100	[X]Dysthymia	2
Eu32z00	[X]Depressive episode, unspecified	2
Eu32.00	[X]Depressive episode	2
Eu41z00	[X]Anxiety disorder, unspecified	2
1B1U.00	Symptoms of depression	2
E112000	Single major depressive episode, unspecified	2
E112300	Single major depressive episode, severe, without psychosis	2
E112500	Single major depressive episode, partial or unspec remission	2
E112200	Single major depressive episode, moderate	2
E112100	Single major depressive episode, mild	2
E112600	Single major depressive episode, in full remission	2
E112z00	Single major depressive episode NOS	2
E112.00	Single major depressive episode	2
E118.00	Seasonal affective disorder	2
E113500	Recurrent major depressive episodes,partial/unspec remission	2
E113000	Recurrent major depressive episodes, unspecified	2
E113300	Recurrent major depressive episodes, severe, no psychosis	2
E113200	Recurrent major depressive episodes, moderate	2
E113100	Recurrent major depressive episodes, mild	2
E113600	Recurrent major depressive episodes, in full remission	2
E113z00	Recurrent major depressive episode NOS	2
E113.00	Recurrent major depressive episode	2
E113700	Recurrent depression	2
E200500	Recurrent anxiety	2
E291.00	Prolonged depressive reaction	2
E2B0.00	Postviral depression	2
E200100	Panic disorder	2
2257.00	O/E - depressed	2
E204.00	Neurotic depression reactive type	2
E200200	Generalised anxiety disorder	2
E2B00	Depressive disorder NEC	2
1BT00	Depressed mood	2
1B17.00	Depressed	2

Pood codo	Description	Number of
Read code	Description	studies
E2B1.00	Chronic depression	2
E200400	Chronic anxiety	2 2
E200300 E200.00	Anxiety with depression	2
	Anxiety states	2
E200000	Anxiety state unspecified	2
E200z00	Anxiety state NOS	2
E135.00	Agitated depression	1
Eu33214	[X]Vital depression, recurrent without psychotic symptoms	•
Eu3z.00	[X]Unspecified mood affective disorder	1
Eu40100	[X]Social phobias	1
Eu40112	[X]Social neurosis	1
Eu32213	[X]Single episode vital depression w'out psychotic symptoms	1
Eu32314 Eu32.13	[X]Single episode of reactive depressive psychosis	1
	[X]Single episode of reactive depression	1
Eu32313	[X]Single episode of psychotic depression	1
Eu32312	[X]Single episode of psychogenic depressive psychosis	1
Eu32.12	[X]Single episode of psychogenic depression	1
Eu32y12	[X]Single episode of masked depression NOS	1
Eu32311	[X]Single episode of major depression and psychotic symptoms	1
Eu32.11	[X]Single episode of depressive reaction	1
Eu32212	[X]Single episode major depression w'out psychotic symptoms	1
Eu32211	[X]Single episode agitated depressn w'out psychotic symptoms	1
Eu32300	[X]Severe depressive episode with psychotic symptoms	1
Eu33.14	[X]Seasonal depressive disorder	1
Eu33.15	[X]SAD - Seasonal affective disorder	1
Eu06y11	[X]Right hemispheric organic affective disorder	1
Eu33316	[X]Recurrent severe episodes/reactive depressive psychosis	1
Eu33315	[X]Recurrent severe episodes of psychotic depression	1
Eu33.13	[X]Recurrent episodes of reactive depression	1
Eu33.12	[X]Recurrent episodes of psychogenic depression	1
Eu33.11	[X]Recurrent episodes of depressive reaction	1
Eu33300	[X]Recurrent depress disorder cur epi severe with psyc symp	1
Eu3y111	[X]Recurrent brief depressive episodes	
Eu33314	[X]Recurr severe episodes/psychogenic depressive psychosis	1 1
Eu33313 Eu43z00	[X]Recurr severe episodes/major depression+psychotic symptom [X]Reaction to severe stress, unspecified	1
Eu43200 Eu43.00		1
Eu43.00 Eu32z13	[X]Reaction to severe stress, and adjustment disorders [X]Prolonged single episode of reactive depression	1
Eu32213 Eu42100	[X]Predominantly compulsive acts [obsessional rituals]	1
Eu42100 Eu20400	[X]Post-schizophrenic depression	1
Eu20400 Eu43100	[X]Post - traumatic stress disorder	1
Eu40.00	[X]Phobic anxiety disorders	1
Eu34.00	[X]Persistent mood affective disorders	1
Eu34:00 Eu34z00	[X]Persistent mood affective disorder, unspecified	1
Eu34200 Eu34114	[X]Persistent mood affective disorder, drispectified	1
Eu41012		
Eu41012 Eu40012	[X]Panic state [X]Panic disorder with agoraphobia	1 1
Eu41011	[X]Panic attack [X]Other specified mood affective disorders	1
Eu3yy00	[X]Other specified mood affective disorders	1
Eu3y000	[X]Other single mood affective disorders	1
Eu3y100	[X]Other recurrent mood affective disorders	1
Eu43y00	[X]Other reactions to severe stress	1
Eu34y00	[X]Other persistent mood affective disorders	1

Read code	Description	Number of studies
Eu42y00	[X]Other obsessive-compulsive disorders	1
Eu3y.00	[X]Other mood affective disorders	1
Eu41300	[X]Other mixed anxiety disorders	1
Eu31y00	[X]Other bipolar affective disorders	1
Eu05300	[X]Organic mood [affective] disorders	1
Eu05400	[X]Organic anxiety disorder	1
Eu60513	[X]Obsessive-compulsive personality disorder	1
Eu42.12	[X]Obsessive-compulsive neurosis	1
Eu42z00	[X]Obsessive-compulsive disorder, unspecified	1
Eu42.00	[X]Obsessive - compulsive disorder	1
Eu400	[X]Neurotic, stress - related and somoform disorders	1
Eu34113	[X]Neurotic depression	1
Eu300	[X]Mood - affective disorders	1
Eu33z11	[X]Monopolar depression NOS	1
Eu3y011	[X]Mixed affective episode	1
Eu41211	[X]Mild anxiety depression	1
Eu31.13	[X]Manic-depressive reaction	1
Eu31.12	[X]Manic-depressive psychosis	1
Eu31.11	[X]Manic-depressive illness	1
Eu33312	[X]Manic-depress psychosis,depressed type+psychotic symptoms	1
Eu33213	[X]Manic-depress psychosis, depressd, no psychotic symptoms	1
Eu32700	[X]Major depression, severe without psychotic symptoms	1
Eu32800	[X]Major depression, severe with psychotic symptoms	1
Eu33212	[X]Major depression, recurrent without psychotic symptoms	1
Eu32600	[X]Major depression, moderately severe	1
Eu32500	[X]Major depression, mild	1
Eu33211	[X]Endogenous depression without psychotic symptoms	1
Eu33311	[X]Endogenous depression with psychotic symptoms	1
Eu51511	[X]Dream anxiety disorder	1
Eu34112	[X]Depressive personality disorder	1
Eu34111	[X]Depressive neurosis	1
Eu32z12	[X]Depressive disorder NOS	1
Eu92000	[X]Depressive conduct disorder	1
Eu32z11	[X]Depression NOS	1
Eu60511	[X]Compulsive personality disorder	1
Eu63011	[X]Compulsive gambling	1
Eu43013	[X]Combat fatigue	1
Eu31z00	[X]Bipolar affective disorder, unspecified	1
Eu31700	[X]Bipolar affective disorder, currently in remission	1
Eu31600	[X]Bipolar affective disorder, current episode mixed	1
Eu31900	[X]Bipolar affective disorder type II	1
Eu31800	[X]Bipolar affective disorder type I	1
Eu31.00	[X]Bipolar affective disorder	1
Eu31300	[X]Bipolar affect disorder cur epi mild or moderate depressn	1
Eu31500	[X]Bipolar affect dis cur epi severe depres with psyc symp	1
Eu31y11	[X]Bipolar II disorder	1
Eu31911	[X]Bipolar II disorder	1
Eu31400	[X]Bipol aff disord, curr epis sev depress, no psychot symp	1
Eu32y11	[X]Atypical depression	1
Eu41113	[X]Anxiety state	1
Eu41112	[X]Anxiety reaction	1
Eu41111	[X]Anxiety neurosis	1
Eu41y11	[X]Anxiety hysteria	1
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Read code	Description	Number of studies
Eu41z11	[X]Anxiety NOS	1
Eu42.11	[X]Anankastic neurosis	1
Eu40011	[X]Agoraphobia without history of panic disorder	1
Eu40000	[X]Agoraphobia	1
Eu3z.11	[X]Affective psychosis NOS	1
Eu34011	[X]Affective personality disorder	1
Eu43000	[X]Acute stress reaction	1
Eu43012	[X]Acute reaction to stress	1
Eu32z14	[X] Reactive depression NOS	1
ZV11112	[V]Personal history of manic-depressive psychosis	1
ZV11111	[V]Personal history of manic-depressive psychosis	1
ZV11100	[V]Personal history of affective disorder	1
R2y2.00	[D]Nervousness	1
1BK00	Worried	1
E11y000 E117400	Unspecified manic-depressive psychoses	1
E117400 E117000	Unspecified bipolar affective disorder, severe with psychosis Unspecified bipolar affective disorder, unspecified	1
E117000 E117300	Unspecified bipolar affective disorder, severe, no psychosis	1
E117300 E117200	Unspecified bipolar affective disorder, moderate	1
E117200	Unspecified bipolar affective disorder, mild	1
E117600	Unspecified bipolar affective disorder, in full remission	1
E117z00	Unspecified bipolar affective disorder, NOS	1
E117.00	Unspecified bipolar affective disorder	1
E117500	Unspecified bipolar affect disord, partial/unspec remission	1
E11z000	Unspecified affective psychoses NOS	1
E211000	Unspecified affective personality disorder	1
1JJ00	Suspected depression	1
E284.00	Stress reaction causing mixed disturbance of emotion/conduct	1
67J00	Stress counselling	1
E202.11	Social phobic disorders	1
E112400	Single major depressive episode, severe, with psychosis	1
E002z00	Senile dementia with depressive or paranoid features NOS	1
E002.00	Senile dementia with depressive or paranoid features	1
E002100	Senile dementia with depression	1
1BT12	Sad mood  Deferred for guided self help for depression	1
8HHq.00 8HHp.00	Referral for guided self-help for depression Referral for guided self-help for anxiety	1
Z4I7211	Reducing anxiety	1
E113400	Recurrent major depressive episodes, severe, with psychosis	1
Z4I7100	Recognising anxiety	1
E11z100	Rebound mood swings	1
E130.00	Reactive depressive psychosis	1
E130.11	Psychotic reactive depression	1
E001300	Presenile dementia with depression	1
E2A2.11	Post-traumatic brain syndrome	1
E202.00	Phobic disorders	1
E202.12	Phobic anxiety	1
E202000	Phobia unspecified	1
8CAa.00	Patient given advice about management of depression	1
E200111	Panic attack	1
E29y100	Other post-traumatic stress disorder	1
E11y300	Other mixed manic-depressive psychoses	1
E11yz00	Other and unspecified manic-depressive psychoses NOS	1

Read code	Description	Number of studies
E11y.00	Other and unspecified manic-depressive psychoses	1
E11z.00	Other and unspecified affective psychoses	1
E11zz00	Other affective psychosis NOS	1
E283.00	Other acute stress reactions	1
E283z00	Other acute stress reaction NOS	1
E03y200	Organic affective syndrome	1
9kQ00	On full dose long term treatment depression - enh serv admin	1
9HA0.00	On depression register	1
E203.00	Obsessive-compulsive disorders	1
E203z00	Obsessive-compulsive disorder NOS	1
E214100	Obsessional personality	1
E203100	Obsessional neurosis	1
225J.00	O/E - panic attack	1
2259.00	O/E - nervous	1
225K.00	O/E - fearful mood	1
2253.00	O/E - distressed	1
2258.00	O/E - anxious	1
E116000	Mixed bipolar affective disorder, unspecified	1
E116300	Mixed bipolar affective disorder, severe, without psychosis	1
E116400	Mixed bipolar affective disorder, severe, with psychosis	1
E116500	Mixed bipolar affective disorder, partial/unspec remission	1
E116200	Mixed bipolar affective disorder, moderate	1
E116100	Mixed bipolar affective disorder, mild	1
E116600	Mixed bipolar affective disorder, in full remission	1
E116z00	Mixed bipolar affective disorder, NOS	1
E116.00	Mixed bipolar affective disorder	1
E11z200	Masked depression	1
E115.11	Manic-depressive - now depressed	1
13Y3.00	Manic-depression association member	1
1BT11	Low mood	1
1BU00	Loss of hope for the future	1
1BQ00	Loss of capacity for enjoyment	1
146D.00	H/O: manic depressive disorder	1
1465.00	H/O: depression	1
1466.00	H/O: anxiety state	1
1B1H.00	Frightened	1
Z522600	Flooding - obsessional compulsive disorder	1
1B1T.00	Feeling stressed	1
16ZB100	Feeling low or worried	1
E202D00	Fear of death	1
1B1H.11	Fear	1
9hC00	Exception reporting: depression quality indicators	1
9hC0.00	Excepted from depression quality indicators: Patient unsuita	1
9hC1.00	Excepted from depression quality indicators: Informed dissen	1
E112.13	Endogenous depression first episode	1
E112.12	Endogenous depression first episode	1
E113.11	Endogenous depression - recurrent	1
E112.14	Endogenous depression	1
9N54.00	Encounter for fear	1
1B1U.11	Depressive symptoms	1
E1112	Depressive psychoses	1
E211200	Depressive personality disorder	1
90v3.00	Depression monitoring verbal invite	1
		•

Read code	Description	Number of studies
90v2.00	Depression monitoring third letter	1
90v4.00	Depression monitoring telephone invite	1
90v1.00	Depression monitoring second letter	1
90v0.00	Depression monitoring first letter	1
90v00	Depression monitoring administration	1
9H91.00	Depression medication review	1
8BK0.00	Depression management programme	1
9H92.00	Depression interim review	1
9H90.00	Depression annual review	1
9k400	Depression - enhanced services administration	1
9k40.00	Depression - enhanced service completed	1
E214.00	Compulsive personality disorders	1
E214z00	Compulsive personality disorder NOS	1
E203000	Compulsive neurosis	1
1P300	Compulsive behaviour	1
E2811	Combat fatigue	1
1B1V.00	C/O - panic attack	1
1B17.11	C/O - feeling depressed	1
E290z00	Brief depressive reaction NOS	1
E290.00	Brief depressive reaction	1
E1111	Bipolar psychoses	1
E115600	Bipolar affective disorder, now depressed, in full remission	1
E115000	Bipolar affective disorder, currently depressed, unspecified	1
E115200	Bipolar affective disorder, currently depressed, moderate	1
E115100	Bipolar affective disorder, currently depressed, mild	1
E115z00	Bipolar affective disorder, currently depressed, NOS	1
E115.00	Bipolar affective disorder, currently depressed	1
E115300	Bipolar affect disord, now depressed, severe, no psychosis	1
E115400	Bipolar affect disord, now depressed, severe with psychosis	1
E115500	Bipolar affect disord, now depressed, part/unspec remission	1
E11y200	Atypical depressive disorder	1
E004300	Arteriosclerotic dementia with depression	1
1B1H.12	Apprehension	1
1B13.00	Anxiousness	1
8G94.00	Anxiety management training	1
Z4L1.00	Anxiety management training Anxiety counselling Anxiety about breathlessness Antidepressant drug treatment started	1
173f.00	Anxiety about breathlessness	1
6659000	1 9	1
E214000	Anankastic personality	1
E203.11	Anancastic neurosis	1
Z4I7200	Alleviating anxiety	1
E202200	Agoraphobia without mention of panic attacks	1
E202100	Agoraphobia with panic attacks	1
E112.11	Agitated depression	1
E1100	Affective psychoses	1
E211.00	Affective personality disorder	1
E292400	Adjustment reaction with anxious mood	1
E282.00	Acute stupor state due to acute stress reaction	1
E28z.00	Acute stress reaction NOS	1
E2800	Acute reaction to stress	1
E283100	Acute posttrauma stress state	1
E280.00	Acute panic state due to acute stress reaction	1
E281.00	Acute fugue state due to acute stress reaction	1

Read code	Description	Number of studies
Z4I7.00	Acknowledging anxiety	1
1B12.00	'Nerves' - nervousness	1
9kQ11		1



## Appendix 14. List of Read codes used in the studies of dementia and cognitive impairment.

		Number of
Read code	Description	studies
Eu01.00	[X]Vascular dementia	13
Eu01200	[X]Subcortical vascular dementia	13
Eu00112	[X]Senile dementia,Alzheimer's type	13
Eu00011	[X]Presenile dementia,Alzheimer's type	13
Eu01100	[X]Multi-infarct dementia	13
Eu00.00	[X]Dementia in Alzheimer's disease	13
Eu01.11	[X]Arteriosclerotic dementia	13
Eu00z11	[X]Alzheimer's dementia unspec	13
E000.00	Uncomplicated senile dementia	13
E004.11	Multi infarct dementia	13
E004.00	Arteriosclerotic dementia	13
F110000	Alzheimer's disease with early onset	13
F110.00	Alzheimer's disease	13
Eu01z00	[X]Vascular dementia, unspecified	12
Eu01000	[X]Vascular dementia of acute onset	12
Eu00012	[X]Primary degen dementia, Alzheimer's type, presenile onset	12
Eu00113	[X]Primary degen dementia of Alzheimer's type, senile onset	12
Eu01111	[X]Predominantly cortical dementia	12
Eu00z00	[X]Dementia in Alzheimer's disease, unspecified	12
Eu00100	[X]Dementia in Alzheimer's disease with late onset	12
Eu00000	[X]Dementia in Alzheimer's disease with early onset	12
Eu00200	[X]Dementia in Alzheimer's dis, atypical or mixed type	12
Eu00013	[X]Alzheimer's disease type 2	12
Eu00111	[X]Alzheimer's disease type 1	12
E004000	Uncomplicated arteriosclerotic dementia	12
E004200	Arteriosclerotic dementia with paranoia	12
E004300	Arteriosclerotic dementia with depression	12
E004100	Arteriosclerotic dementia with delirium	12
E004z00	Arteriosclerotic dementia NOS	12
F110100	Alzheimer's disease with late onset	12
Eu01y00	[X]Other vascular dementia	11
Eu01300	[X]Mixed cortical and subcortical vascular dementia	11
Eu02.00	[X]Dementia in other diseases classified elsewhere	11
Eu02300	[X]Dementia in Parkinson's disease	11
Eu02z00	[X] Unspecified dementia	11
Eu02z14	[X] Senile dementia NOS	11
E0012	Senile/presenile dementia	11
E002000	Senile dementia with paranoia	11
E002100	Senile dementia with depression	11
E001.00	Presenile dementia	11
E041.00	Dementia in conditions EC	11
Fyu3000	[X]Other Alzheimer's disease	10
Eu02500	[X]Lewy body dementia	10
Eu02y00	[X]Dementia in other specified diseases classif elsewhere	10
Eu04100	[X]Delirium superimposed on dementia	10
Eu02z16	[X] Senile dementia, depressed or paranoid type	10
Eu02z13	[X] Primary degenerative dementia NOS	10
Eu02z11	[X] Presenile dementia NOS	10
E001000	Uncomplicated presenile dementia	10
E002z00	Senile dementia with depressive or paranoid features NOS	10

Read code	Description	Number of studies
E002.00	Senile dementia with depressive or paranoid features	10
E003.00	Senile dementia with delirium	10
E0011	Senile dementia	10
E001200	Presenile dementia with paranoia	10
E001300	Presenile dementia with depression	10
E001100	Presenile dementia with delirium	10
E001z00	Presenile dementia NOS	10
Eu02000	[X]Dementia in Pick's disease	9
Eu02200	[X]Dementia in Huntington's disease	9
Eu02400	[X]Dementia in human immunodef virus [HIV] disease	8
Eu02100	[X]Dementia in Creutzfeldt-Jakob disease	8
F112.00	Senile degeneration of brain	8
F116.00	Lewy body disease	8
F111.00	Pick's disease	7
E012.00	Other alcoholic dementia	6
E012.11	Alcoholic dementia NOS	6
Eu10711 E00z.00	[X]Alcoholic dementia NOS	5 5
6AB00	Senile or presenile psychoses NOS  Dementia annual review	5
Eu02z15	[X] Senile psychosis NOS	4
Eu02z13 Eu02z12	[X] Presenile psychosis NOS	4
ZS7C500	Language disorder of dementia	4
E02y100	Drug-induced dementia	4
66h00	Dementia monitoring	4
R00z011	[D]Memory deficit	3
e000.00	Uncomplicated senile dementia	3
Z7CEG00	Transient memory loss	3
Z7CF811	Short-term memory loss	3
E0000	Senile and presenile organic psychotic conditions	3
2900	SENILE DEMENTIA	3
Z7CF800	Poor short-term memory	3
Z7CEH15	Poor memory Poor memory	3
2901A	PRESENILE DEMENTIA	3
E00y.00	Other senile and presenile organic psychoses	3
3A30.00	Memory: present place not knwn	3
Z7CEH14	Memory problem	3
1B1A.12	Memory: present place not knwn Memory problem Memory loss symptom Memory loss - amnesia	3
1B1A.00		3
Z7CE611	Memory loss	3
Z7CEJ00	Memory lapses	3
Z7CEH00	Memory impairment	3
1B1A.13	Memory disturbance	3
Z7CEC11	Loss of memory for recent events	3
Z7CE615	Loss of memory	3
1461.00	H/O: dementia	3
3AE6.00 3AE5.00	GDS level 6 - severe cognitive decline	3
3AE3.00	GDS level 6 - severe cognitive decline GDS level 5 - moderately severe cognitive decline	3
3AE4.00 3AE3.00	GDS level 3 - moderate y severe cognitive decline	3
3AE2.00	GDS level 3 - mild cognitive decline	3
3AE1.00	GDS level 3 - mild cognitive decline	3
2930	DEMENTIA ARTERIOSCLEROTIC	3
299 G	DEMENTIA AGGRESSIVE	3
_00 0		3

Read code	Description	Number of studies
299 B	DEMENTIA	3
E012000	Chronic alcoholic brain syndrome	3
1B1A.11	Amnesia symptom	3
ZR1K.00	Alzheimer's disease assessment scale	3
2901B	ALZHEIMER'S DISEASE	3
ZR1K.11	ADAS - Alzheimer's disease assessment scale	3
Eu80200	[X]Receptive language disorder	2
R00z000	[D]Amnesia (retrograde)	2
ZS78D00	Wernicke's dysphasia	2
ZS78D13	Wernicke's aphasia	2
Z7C3500	Unable to use verbal reasoning	2
Z7C3200	Unable to reason	2
Z7C5100	Unable to concentrate	2
1B1A000	Temporary loss of memory	2
Z7CEF00	Temporary loss of memory	2
Z7C5313	Short concentration span	2
Z7C5312	Short attention span	2
1BR0.11	Short attention span	2
8HTY.00	Referral to memory clinic	2
8Hla.00	Referral to dementia care advisor	2
Z7C5300	Reduced concentration span	2
1BR00	Reduced concentration	2
Z7C5311	Reduced attention span	2
E00y.11	Presbyophrenic psychosis	2
Z7CEB12	Poor memory for remote events	2
Z7CFO00	Poor long-term memory	2
1BW00	Poor concentration	2
Z7CEC12	No memory for recent events	2
Z7CEK00	Minor memory lapses	2
Z7CEL00	Mild memory disturbance	2
E2A1000	Mild memory disturbance	2
3A40.00	Memory: present year not known	2
3A20.00	Memory: present time not known	2
3A10.00	Memory: own age not known	2
3A50.00	Memory: own DOB not known	2
3A70.00	Memory: own DOB not known Memory: important event not kn Memory: import.person not knwn	2
3A80.00	Memory: import.person not knwn	2
3A91.00	Memory: count down unsuccess.	2
3AA1.00	Memory: address recall unsucc.	2
Z7A1500	Memory retraining	2
Z7CE412	Memory loss symptom	2
Z7CE614	Memory loss - amnesia	2
Z7CE413	Memory loss - amnesia	2
Z7CE612	Memory gone	2
Z7CEH11	Memory dysfunction	2
Z7CE400	Memory disturbance (& amnesia (& symptom))	2
Z7CE414	Memory definit	2
Z7CEH12	Memory deficit	2
Z7CFx00	Memory aided by use of labels	2
Z7CE415	Loss of memory	2
Z7CF011	Long-term memory loss	2
Z7C5111	Lack of concentration	2
Z7CE616	LOM - Loss of memory	2

Dood code	Description	Number of
Read code	Description	studies
2901D	JACOB- CREUZFELDT DISEASE WITH DEMENTIA	2
Z7CEN11	Invents experiences to compensate for loss of memory	2
Z7CEA11	Impairment of working memory	2
Z7CEA13	Impairment of primary memory	2
Z7C1.00	Impaired cognition	2
129B.00 Z7A1A00	FH: Alzheimer's disease Executive functions training	2 2
9hD0.00	Excepted from dementia quality indicators: Patient unsuitabl	2
9hD1.00	Excepted from dementia quality indicators: Informed dissent	2
1S21.00	Disturbance of memory for order of events	2
Z7C3C00	Difficulty using visuospatial reasoning	2
Z7C3600	Difficulty using verbal reasoning	2
Z7C3300	Difficulty reasoning	2
Z7C4A00	Difficulty processing information at normal speed	2
Z7C4700	Difficulty processing information accurately	2
Z7C4300	Difficulty processing information	2
Z7CI100	Difficulty making plans	2
ZR3V.13	Dementia rating scale	2
9Ou4.00	Dementia monitoring verbal invite	2
9Ou3.00	Dementia monitoring third letter	2
9Ou5.00	Dementia monitoring telephone invite	2
9Ou2.00	Dementia monitoring second letter	2
9Ou1.00	Dementia monitoring first letter	2
3A12	Dementia assessment	2
Z7CGP00	Delayed verbal memory	2
ZR3V.11	DRS - Clinical dementia rating scale	2
Y0601JS	DEMENTIA CLINIC ATTENDANCE	2
Y060 JS	DEMENTIA CLINIC	2
2919	DEMENTIA ALCOHOLIC	2
Z7300	Cognitive intervention strategies	2
28E00	Cognitive decline	2 2
ZR3V.00	Clinical dementia rating scale CDR - Clinical dementia rating scale	2
ZR3V.12 Z7CEH13	Bad memory	
ZR2X.12	BDRS - Blessed dementia rating scale	2 2
Z7A1400	Attention training	2
Z7CE600	Amnesia	2
EU02y0	7 WINIOGIA	2
X0034		2
AE00		2
Ryu5.00	[X]Symptoms/signs inv cognit, percept, emotion state & behav	1
Eu80000	[X]Specific speech articulation disorder	1
Eu81500	[X]Severe learning disability	1
Eu81700	[X]Profound learning disability	1
Ryu5000	[X]Other amnesia	1
Ryu5100	[X]Oth & unspec symptom/sign involv cognit funct/awareness	1
Eu81600	[X]Mild learning disability	1
Eu05700	[X]Mild cognitive disorder	1
Eu81z12	[X]Learning disorder NOS	1
Eu81z11	[X]Learning disability NOS	1
Eu81z13	[X]Learn acquisition disab NOS	1
Eu03.11	[X]Korsakov's psychosis, nonalcoholic	1
Eu10611	[X]Korsakov's psychosis, alcohol induced	1

Read code	Description	Number of studies
Eu80014	[X]Functional speech articulation disorder	1
Eu80100	[X]Expressive language disorder	1
Eu90000	[X]Disturbance of activity and attention	1
Eu44000	[X]Dissociative amnesia	1
Ryu5700	[X]Disorientation, unspecified	1
Eu10712	[X]Chronic alcoholic brain syndrome	1
Eu80600	[X]Auditory processing disorder	1
Eu90011	[X]Attention deficit hyperactivity disorder	1
Eu9y700	[X]Attention deficit disorder	1
ZS91.12	[X]Attention deficit disorder	1
Eu04.12	[X]Acute / subacute confusional state, nonalcoholic	1
ZV40000	[V]Problems with learning	1
R045100	[D]Dysphasia	1
R00zX00	[D]Disorientation, unspecified	1
R043.00	[D]Aphasia	1
R00z500	[D]Anterograde amnesia	1
E011200	Wernicke-Korsakov syndrome	1
C253.00	Wernicke's encephalopathy	1
C251.11	Wernicke's encephalopathy	1
Z7CMB00	Visuospatial agnosia	1
Z7A1800	Visual processing training	1
F481J00	Visual disorientation syndrome	1
F584000	Unspecified other abnormal auditory perception	1
Z7CH300	Unrealistic planning	1
Z7C7200	Unable to write	1
ZT46200	Unable to use verbal communication	1
ZT49200	Unable to use non-verbal communication	1
ZT47200	Unable to use language	1
Z7CI500	Unable to use decision-making strategies	1
Z7C6200	Unable to tell the time	1
ZT4f200	Unable to responds to communication by others	1
Z7C2600	Unable to recognise surroundings	1
Z7C2200	Unable to recognise sounds	1
Z7C2D00	Unable to recognise parts of own body	1
Z7C2L11	Unable to recognise objects visually	1
Z7C2L00	Unable to recognise objects by sight	1
Z7C2H00	Unable to recognise objects visually Unable to recognise objects by sight Unable to recognise objects	1
Z7C2T00	Unable to recognise familiar people	1
Z7C2R00	Unable to recognise faces by sight	1
Z7C2P00	Unable to recognise faces	1
Z7CFC00	Unable to recall five digit number at five minutes	1
Z7C8200	Unable to read	1
Z7C4900	Unable to process information at normal speed	1
Z7C4600	Unable to process information accurately	1
Z7C4200	Unable to process information	1
ZM18200	Unable to plan meals	1
Z7CH200	Unable to plan	1
ZN28200	Unable to organise a journey	1
Z7CI900	Unable to make considered choices	1
Z7C4C00	Unable to analyse information	1
1B1S.00	Transient global amnesia	1
Z7CE700	Transient global amnesia	1
ZS78600	Transcortical sensory dysphasia	4

Read code	Description	Number of
ZS78411	Transcortical motor aphasia	studies 1
Z7CE711	TGA - Transient global amnesia	1
ZS78300	Subcortical aphasia	1
E031.00	Subacute confusional state	1
Z7A2200	Strategy training for perceptual skills	1
ZS500	Speech and language dyspraxias	1
ZS00	Speech and language disorder	1
ZS73.00	Specific language impairment	1
ZS73.11	Specific language disorder	1
Z7CC700	Spatial disorientation	1
Z7CD400	Slow learner	1
F483200	Simultaneous visual perception without fusion	1
1B1A100	Short-term memory loss	1
28E2.00	Severe cognitive impairment	1
ZS78A00	Semantic dysphasia	1
9Nk1.00	Seen in memory clinic	1
9N0y.00	Seen in learning disabilities clinic	1
342 CP	SENILE PARKINSONISM	1
Z7CE900	Retrograde amnesia	1
8HHP.00	Referral to learning disability team	1
8H4f.00	Referral to learning disabilities psychiatrist	1
1BR0.00	Reduced concentration span	1
ZS72.00	Receptive language impairment	1
ZS78C00	Receptive dysphasia	1
ZS78C11	Receptive aphasia	1
Z7A1700	Reality orientation	1
Z7A1711	RO - Reality orientation	1
Z7CE911	RA - Retrograde amnesia	1
ZRbf.00	Psycholinguistic assessments of language process in aphasia	1
ZD38300	Promoting aphasics communication effectiveness programme	1
8G96.00	Problem solving therapy	1
ZS78F00	Posterior dysphasia	1
1B1Y.00	Poor visual sequential memory	1
1B1a.00	Poor auditory sequential memory	1
F591z00	Perceptive hearing loss NOS	1
F591.14	Perceptive hearing loss	1
F591.13	Perceptive deafness	1
Z7CL700	Perception that things appear grey	1
Z7CL800	Perception that things appear flat	1
Z7CLE00	Perception of things changing size	1
Z7CLH00	Perception of things changing shape	1
Z7CL911	Perception of things changing colour	1
E2F2.00	Other specific learning difficulty	1
F584z00	Other abnormal auditory perception NOS	1
F584.00	Other abnormal auditory perception	1
Z7A1600	Orientation training	1
Z7CC312	Orientation poor	1
Z7CC311	Orientation confused	1
E2A1100	Organic memory impairment	1
918e.00	On learning disability register	1
29J4.00	O/E - sensory inattention	1
2B46.11	O/E - sensory dysphasia	1
2B43.00	O/E - sensory aphasia	1

<b>D</b>	5	Number of
Read code	Description	studies
2BM3.11	O/E - perceptive deafness	1
2B45.11	O/E - motor dysphasia	1
2B42.00	O/E - motor aphasia	1
2B46.00	O/E - dysphasia - sensory	1
2B45.00	O/E - dysphasia - motor	1
2B47.00	O/E - dysphasia - NOS	1
2B412	O/E - dysphasia	1
2B44.00	O/E - aphasia NOS	1
2B411	O/E - aphasia	1
ZS78I00	Non-fluent dysphasia	1
ZS78I11	Non-fluent aphasia	1
28E1.00	Moderate cognitive impairment	1
ZS78200	Mixed transcortical dysphasia	1
ZS78900	Mixed dysphasia	1
ZS78911	Mixed aphasia	1
Z7C2700	Mistakes people's identity	1
28E0.00	Mild cognitive impairment	1
3A60.00	Memory: present month not knwn	1
3A11.00	Memory: own age known	1
Z7A1300	Memory skills training	1
Z7CFx00	Memory aided by use of diana	1 1
Z7CFw00	Memory aided by use of diary	-
ZS34.11	Learning disability	1
9HB2.00 9HB1.00	Learning disabilities health action plan reviewed	1 1
9HB0.00	Learning disabilities health action plan offered	1
9HB4.00	Learning disabilities health action plan declined  Learning disabilities health action plan completed	1
9HB6.11	Learning disabilities annual health check declined	1
9HB6.00	Learning disabilities annual health assessment declined	1
9HB5.00	Learning disabilities annual health assessment	1
Z7CD200	Learning difficulties	1
ZS300	Language-related cognitive disorder	1
ZS700	Language impairment	1
ZS7C600	Language disorder associated with thought disorder	1
13ZA.00	Language difficulty	1
E011100	Korsakov's alcoholic psychosis with peripheral neuritis	1
E011000	Korsakov's alcoholic psychosis	1
E040.11	Korsakoff's non-alcoholic psychosis	1
ZS78D12	Jargon dysphasia	1
ZS78D11	Jargon aphasia	1
A411.00	Jakob-Creutzfeldt disease	1
ZS78212	Isolation dysphasia	1
Z7CEA12	Impairment of immediate recall	1
Z7CD300	Impaired ability to learn new material	1
E201700	Hysterical amnesia	1
Z7CL100	Heightened visual perception	1
Z7CL511	Heightened perception of touch	1
Z7CLO00	Heightened perception of taste	1
Z7CLP11	Heightened perception of sound	1
Z7CLN11	Heightened perception of smells	1
Z7CLN12	Heightened perception of odours	1
Z7CLN00	Heightened olfactory perception	1
Z7CLP00	Heightened auditory perception	1

Read code	Description	Number of
	'	studies
ZRLfE00 Z7CF200	Health of the Nation Outcome Scale item 4 - cognitive probl	1
ZS78800	Has delayed recall Global dysphasia	1
3AE00	Global deterioration scale: assessment of prim deg dementia	1
ZS78811	Global aphasia	1
Z7CE500	·	1
ZS78E11	Forgetful Fluent aphasia	1
1281.00	FH: Senile dementia	1
ZS71.00	Expressive language impairment	1
ZS84.00	Expressive language impairment  Expressive language disorder	1
ZS78G11	Expressive aphasia	1
9hD00	Exception reporting: dementia quality indicators	1
ZS78K00	Efferent motor dysphasia	1
ZS78K11	Efferent motor aphasia	1
ZS78.00	Dysphasia	1
ZT46400	Does not use verbal communication	1
ZT4J400	Does not use the elements of language	1
ZT49400	Does not use non-verbal communication	1
ZT4f400	Does not respond to communication by others	1
Z7C2900	Does not recognise self	1
Z7C2A00	Does not recognise photographs of self	1
Z7CEM00	Distortion of memory	1
Z7CC600	Disorientation for person	1
Z7C7300	Difficulty writing	1
ZT46500	Difficulty using verbal communication	1
ZT49500	Difficulty using non-verbal communication	1
Z7CI600	Difficulty using decision-making strategies	1
ZT4A500	Difficulty using a non-speech system for communication	1
Z7CJ100	Difficulty solving problems	1
Z7C8300	Difficulty reading	1
ZM18500	Difficulty planning meals	1
Z7C9300	Difficulty performing logical sequencing	1
ZN28500	Difficulty organising a journey	1
Z7CI200	Difficulty making decisions	1
Z7CIA00	Difficulty making considered choices	1
ZT4g500	Difficulty imitating forms of communication	1
Z7C4D00	Difficulty analysing information	1
9HB7.11	Did not attend learning disabilities annual health check	1
9HB7.00	Did not attend learning disabilities annual health assessmnt	1
9Ou00	Dementia monitoring administration	1
ZS93.11	DAMP - Deficits in attention motor control and perception	1
ZS78B11	Conduction aphasia	1
F591y00	Combined perceptive hearing loss	1
Z7A1.00	Cognitive skills training	1
ZD15.00	Cognitive neuropsychological language therapy	1
ZD38200	Cognitive behavioural language therapy	1
E2E0z00	Child attention deficit disorder NOS	1
E2E0.00	Child attention deficit disorder	1
Z7CLK00	Changed perception of time	1
F11x700	Cerebral degeneration due to Jakob - Creutzfeldt disease	1
ZS78H00	Broca's dysphasia	1
ZS78H11	Broca's aphasia	1
ZS76.00	Auditory processing disorder	1

Read code	Description	Number of studies
E2E0000	Attention deficit without hyperactivity	1
ZS91.00	Attention deficit disorder	1
ZS78.11	Aphasia	1
Z7CE811	Antegrade amnesia	1
ZS78511	Anomic aphasia	1
ZS78500	Anomia	1
Z7CEB00	Amnesia for remote events	1
Z7CEC00	Amnesia for recent events	1
Z7CEE00	Amnesia for important personal information	1
Z7CED00	Amnesia for day to day facts	1
13Y7.00	Alzheimer's disease society member	1
ZS7C.00	Acquired language disorder	1
ZS78100	Acquired dysphasias	1
9OIA.00	ADHD monitoring invitation third letter	1
9018.00	ADRD Attention deficit discardes	1
ZS91.11	ADD - Attention deficit disorder	1
Z7C2N00 E0120		1
6AB.00		1 1
Z7C3800		1
Xa25J		1
Z7CEB11		1
Z7CC800		1
Z7C2J00		1
X00Rk		1
Z7C3B00		1
Z7A1100		1
Z7C6300		1
Z7C9200		1
Z7C3900		1
Z7C2F00		1
Z7C2B00		1
Z7A1712		1
Z7A2100		1
Z7A2300		1

## Appendix 15. List of Read codes used in the studies of fatigue.

Dood oodo	Description	Number of
Read code	Description	studies
16800	Tiredness symptom	3
16811	Fatigue - symptom	3
16812	Lethargy - symptom	3
1682.00	Fatigue	3
1683.00	Tired all the time	3
1684.11	C/O - debility - malaise	3
168Z.00	Tiredness symptom NOS	3
8HkW.00	Referral to chronic fatigue syndrome specialist team	3
8HIL.00	Referral for chronic fatigue syndrome activity management	3
8Q100 E205.00	Activity management for chronic fatigue syndrome	3 3
E205.00 E205.12	Neurasthenia - nervous debility Tired all the time	3
E205.12 Eu46011		3
F286.00	[X]Fatigue syndrome Chronic fatigue syndrome	3
F286.11	CFS - Chronic fatigue syndrome	3
F286.12	Postviral fatigue syndrome	3
F286.13	PVFS - Postviral fatigue syn	3
F286.14	Post-viral fatigue syndrome	3
F286.15	Myalgic encephalomyelitis	3
F286.16	ME - Myalgic encephalomyelitis	3
F286000	Mild chronic fatigue syndrome	3
F286100	Moderate chronic fatigue syndrome	3
F286200	Severe chronic fatigue syndrome	3
R007.00	[D]Malaise and fatigue	3
R007.00	[D]Fatigue	3
R007100	[D]General weakness	3
R007300	[D]Lethargy	3
R007400	[D]Postviral (asthenic) syndrome	3
R007411	[D]Post viral debility	3
R007500	[D]Tiredness	3
R007z00	[D]Malaise and fatigue NOS	3
16813	Malaise - symptom	2
1683.11	C/O - 'tired all the time'	2
1684.00	Malaise/lethargy	2
1684.13	C/O - postviral syndrome	2
1688.00	Exhaustion	2
1B312	Weakness symptoms	2
E205.11	Nervous exhaustion	2
Eu46000	[X]Neurasthenia	2
F03y.12	Myalgic encephalomyelitis	2
N239.00	Fibromyalgia	2
N248.00	Fibromyalgia	2
R007000	[D]Malaise	2
R007200	[D]Asthenia NOS	2
R2y3.00	[D]Debility, unspecified	2
16814	C/O 'Muzzy head'	1
1B32.00	Weakness present	1
8HkW.11	Referral to myalgic encephalomyelitis specialist team	1
8Q111	Activity management for myalgic encephalopathy	1
A4zy300	Encephalitis lethargica	1
Eu46y14	[X]Psychasthenia	1
-		

Read code	Description	Number of studies
Eu46y15	[X]Psychasthenia neurosis	1
R007600	[D]Post polio exhaustion	1
R007z11	[D]Lassitude	1
R202.00	[D]Senile asthenia	1
SN44.00	Exhaustion due to exposure	1

## Appendix 16. List of Read codes used in the studies of pain.

Read code	Description	Number of studies
NyuAG NyuA Nyu80 Nyu3 Ryu70	<ul><li>[X]Uns sof tis d,use/overu/prs</li><li>[X]Other soft tissue disorders</li><li>[X]Other myositis</li><li>[X]Other joint disorders</li><li>[X]Other chronic pain</li></ul>	2 2 2 2 2
NyuAF Nyu85	[X]Oth spcf soft tissu disords [X]Oth spcf disorders/muscle	2 2
NyuAA Nyu8A	[X]Oth sft tis diso/oth dis CE [X]Oth disordrs/muscle/dis CE	2
Nyu9 Nyu8	[X]Disorders/synovium+tendon [X]Disorders of muscles	2 2
Nyu8B R01zz R01z	[X]Disorder of muscle, unspec [D]Nerv/musculoskel.sympt.NOS [D]Nerv/musculoskel.symp.other	2 2 2
R01 R01z2	[D]Musculoskeletal symptoms [D]Musculoskeletal pain	2 2
R00z2 N22z	[D]General aches and pains Synovium/tendon/bursa dis.NOS	2 2
N0950 N0958	Stiff joint NEC-site unspecif. Stiff joint NEC-other specif.	2 2
N240 N2 N240z	Rheumatism/fibrositis NOS Rheumatism, excl.the back	2 2
N2400 N2403	Rheumatism or fibrositis NOS Rheumatism NOS - shoulder Rheumatic pain	2 2 2
N24z N09	Polyalgia Other/unspecif.joint disorders	2
N22yz N233z	Other tendon disorder NOS Other specif.musc.disorder NOS	2 2
N06yz N06y9 N09y	Other specif.arthropathy NOS Other spec.arthrmultipl.site	2 2 2
N24 N3z	Other spec. joint disorders Other soft tissue disorders Other musculoskeletal dis. NOS	2 2
N247 N23y	Other musculoskel.limb sympts. Other muscle/ligament/fascia	2 2
N23yz N096z	Other musc./lig./fasc.dis.NOS Other joint symptoms NOS	2
N0968 N0969 N09yz	Other joint symptother spec. Other joint symptmultip.site Other joint disorders NOS	2 2 2
N09y0 N09y8	Other joint dis-other sneed. Other joint dis-other specif.	2 2
N09y9 N2y	Other joint dismultiple site Nonarticular rheumatism OS	2 2
N2z N39	Nonarticular rheumatism NOS Nonallopathic lesions, NEC	2 2
N39z N2411 N2480	Nonallopathic lesion NEC NOS  Myositis unspecified  Myofossial pain syndrome	2 2
N241	Myofascial pain syndrome Myalgia/myositis unspecified	2 2

Read code	Description	Number of studies
N241z	Myalgia/myositis NOS	2
N3y	Musculoskeletal disorders OS	2
Ny	Musculoskeletal diseases OS	2
Nz Na 400	Musculoskeletal diseases NOS	2
N2402	Muscular rheumatism	2
N23z	Muscle/ligament/fascia dis.NOS	2
N2410	Muscle pain	2
N0959	Multiple joint stiffness	2
N0450	Juv ankylosing spondylitis	2
N095z	Joint stiffness NEC NOS	2
N095	Joint stiffness NEC	2
N09zz	Joint disorders NOS	2
N09z	Joint disorder NOS	2
N09z0	Joint disord.NOS-site unspecif	2
N09z8	Joint disord.NOS-other specif.	2
N09z9	Joint disord.NOS-multiple site	2
N096	Joint crepitus	2
N2401	Fibrositis unspecified	2
N2412	Fibromyositis NOS	2
N248	Fibromyalgia	2
N239	Fibromyalgia	2
N23 N06zB	Fascia disorders	2
N0626 N0620	Chronic arthritis	2
N06z8	Arthropathy NOS-site unspecif.	2
N06z9	Arthropathy NOS-other specif.	2
N06zz	Arthropathy NOS-multiple sites	2 2
N0z	Arthropathy NOS	
N06z	Arthropathies NOS Arthritis	2 2
N0949		2
N094z	Arthralgia of multiple joints	
N0940	Arthralgia NOS Arthralgia - site unspecified	2 2
N0948	Arthralgia - site unspecified  Arthralgia - other specified	2
N094	Ache in joint	2
OX7179KB	viral myoloio /ov	1
7K6T1	release of Torticollis	1
N2452	release of Torticollis neuropathic pain	1
OX7289CH	back pain /ox	1
Syu4E	[X]Unspecif inj should/up arm	1
NyuB8	[X]Unsp osteopor + pathol frac	1
Nyu28	[X]Unilat second gonarthrosis	1
Nyu25	[X]Unilat primary gonarthrosis	1
Nyu4	[X]Systmc connctv tis disordrs	1
Nyu4C	[X]Sys diso/connctv t/o dis CE	1
Nyu95	[X]Synovitis+tenosyn/bact d CE	1
Nyu97	[X]Synovial hypertrophy, NEC	1
Ryu3	[X]Sym/sign inv nv/muscskel sy	1
Syu12	[X]Superf inj neck part unsp	1
Syu84	[X]Sprn/str oth unsp part knee	1
Syu46	[X]Spr/str oth/un part shl gir	1
Syu36	[X]Spr/str ot/un pt lum sp/pel	1
-		1
•		1
Syu18 Nyu92	[X]Spr/str jt/lg ot/un pt neck [X]Spontans ruptr/oth tendons	

Read code	Description	Number of studies
Nyu68	[X]Spondylpthy/oth diseases CE	Studies 1
Nyu66	[X]Spondylpth/o inf+paras d CE	1
Nyu69	[X]Spondylopathy unspecified	1
Nyu6	[X]Spondylopathies	1
Nyu5B	[X]Spin osteochondrosis, unsp	1
Nyu1G	[X]Seroposit rheum arthr, unsp	1
Nyu10	[X]Rheum arthrit+inv/o org/sys	1
Nyu05	[X]Reactv arthropathy/o dis CE	1
Eu45y	[X]Psychogenic torticollis	1
NyuE4	[X]Postproc muscsk disord,unsp	1
Nyu2F	[X]Post-traum arthr oth joints	1
NyuC9	[X]Periostitis/oth inf dis CE	1
Nyu51	[X]Other+unspecified kyphosis	1
Nyu64	[X]Other spondylosis	1
Nyu2D	[X]Other specified arthrosis	1
Nyu1B	[X]Other specified arthritis	1
Nyu65	[X]Other specified artiflitis [X]Other specified artiflitis	1
Nyu3D	[X]Other spefd joint disorders	1
NyuAB	[X]Other shoulder lesions	1
Nyu54	[X]Other secondary scoliosis	1
Nyu50		1
Nyu17	[X]Other secondary kyphosis [X]Other secondary gout	1
Nyu21		1
Nyu20	[X]Other primary coxarthrosis	-
Nyu46	[X]Other polyarthrosis	1
NyuB1	[X]Other overlap syndromes	1
NyuC	[X]Other osteoporosis	1
NyuC5	[X]Other osteopathies	1
NyuC3	[X]Other osteomecrosis	1 1
Nyu82	[X]Other osteomyelitis	1
Nyu37	[X]Other ossification/muscle [X]Other meniscus derangements	1
Nyu52		1
Nyu15	[X]Other lordosis	1
Nyu3C	[X]Other juvenile arthritis	
NyuA4	[X]Other instability of joint	1
Nyu53	[X]Other infective bursitis	1
Nyu41	[X]Other idiopathic scoliosis	1 1
Nyu56	[X]Other giant cell arteritis	1
Nyu55	[X]Other fusion of spine [X]Other forms of scoliosis	1
NyuAE		1
Nyu7	[X]Other enthesopathies,NEC	1
Nyu7A	[X]Other dorsopathies [X]Other dorsalgia	1 1
Nyu36		1
Nyu44	[X]Other disorders of patella	1
Nyu35	[X]Other dermatomyositis	1
NyuB6	[X]Other derangements/patella	1
NyuC2	[X]Other cyst of bone	-
Nyu18	[X]Other chandrocalcinosis	1
Nyu81	[X]Other chondrocalcinosis	1
NyuA1	[X]Other calcification/muscle	1
=	[X]Other bursitis NFC	1
NyuA6 NyuA5	[X]Other bursel evet	1
NyuA5 NyuA7	[X]Other bursal cyst	1
inyu <i>A1</i>	[X]Other bursa disorder	1

Read code	Description	Number of studies
NyuE3	[X]Other biomechanical lesions	1
NyuB4	[X]Other adult osteomalacia	1
NyuC0	[X]Other acute osteomyelitis	1
NyuC4	[X]Other 2ndary osteonecrosis	1
Nyu47	[X]Oth syst dis/connctv tissue	1
Nyu91	[X]Oth synovitis+tenosynovitis	1
Syu40	[X]Oth sup inj should/upp arm	1
Nyu62	[X]Oth spondylosis+myelopathy	1
Nyu79	[X]Oth specified dorsopathies	1
NyuC8	[X]Oth spcfd disorders of bone	1
Nyu1A	[X]Oth spcfc arthropathies,NEC	1
Nyu12	[X]Oth spcf rheumatd arthritis	1
Nyu61	[X]Oth spcf inflam spondylpath	1
NyuD4	[X]Oth spcf disordrs/cartilage	1
Nyu59	[X]Oth spcf deform dorsopaths	1
NyuD3	[X]Oth spc osteochondropathies	1
Syu3K	[X]Oth sp inj abd/low back/pel	1
Nyu2E	[X]Oth secondary coxarthrosis	1
Nyu83	[X]Oth ruptr/muscl(nontraumtc)	1
Nyu58	[X]Oth recur vertebrl subluxtn	1
Nyu03	[X]Oth reactive arthropathies	1
Nyu13	[X]Oth psoriatic arthropathies	1
Nyu26	[X]Oth post-traum gonarthrosis	1
Nyu23	[X]Oth post-traum coxarthrosis	1
NyuB0	[X]Oth osteoporosis+patholog #	1
Nyu39	[X]Oth intrnl derangemnts/knee	1
Nyu90	[X]Oth infectve(teno)synovitis	1
Nyu60	[X]Oth infectv spondylopathies	1
Nyu45	[X]Oth forms/systemc sclerosis	1
Nyu43	[X]Oth forms/sys lup erythemat	1
NyuA9	[X]Oth fibroblastic disorders	1
Nyu22	[X]Oth dysplastic coxarthrosis	1
NyuB5	[X]Oth diso/continuity of bone	1
NyuC6	[X]Oth diso/bone dvlpmnt+grwth	1
NyuE	[X]Oth dis musculosk+connect	1
Nyu70	[X]Oth cervicl disc displacmnt	1
Nyu71	[X]Oth cervicl disc degeneratn	1
Nyu72	[X]Oth cervical disc disorders	1
Nyu3A	[X]Oth articulr cartilag disor	1
Nyu27	[X]Oth 2ndry gonarthrsis,bilat	1
Nyu24	[X]Oth 2ndry coxarthrsis,bilat	1
NyuB2	[X]Osteoporosis/oth disords CE	1
NyuBC	[X]Osteopenia	1
NyuCA	[X]Osteopathy/other inf dis CE	1
NyuCF	[X]Osteopathy/oth diseases CE	1
NyuCC	[X]Osteonecrosis/other dis CE	1
NyuCB	[X]Osteonecros/h'moglobnpth CE	1
NyuCD	[X]Osteitis defrmn/neop dis CE	1
SR1z1	[X]Op multiple fractures unsp	1
Nyu00	[X]O strep arthritis+polyarthr	1
Nyu38	[X]O spontn disrptn/lig(s)knee	1
Nyu63	[X]O spondylosis+radiculopathy	1
NyuD2	[X]O spf juvnl osteochondrosis	1

Read code	Description	Number of studies
Nyu42	[X]O spcf necrotiz vasculopath	1
Nyu3B	[X]O spcf joint derangmnts,NEC	1
Nyu77	[X]O spcf intrvrtbrl disc diso	1
Nyu94	[X]O spcf diso/synovium+tendon	1
Nyu19	[X]O spcf crystl arthropathies	1
Nyu76	[X]O spc intrvrtbl disc degenr	1
Nyu75	[X]O spc intervert disc displm	1
NyuB7	[X]O spc diso/bne dnsity+struc	1
NyuE0	[X]O spc acq defrm/muscskl sys	1
NyuA3	[X]O sft t d rl/use,overu+prss	1
Nyu11	[X]O sero+ve rheumat arthritis	1
Nyu57	[X]O recur atlantoaxl subluxtn	1
NyuE2	[X]O postproced muscskel disor	1
Nyu04	[X]O postinf arthropath/dis CE	1
NyuC7	[X]O hypertrophc osteoarthrpth	1
Nyu14	[X]O enteropathic arthrpathies	1
NyuB3	[X]O drug-indc osteomalac/adlt	1
Nyu96	[X]O diso/synovm+tendon/dis CE	1
Nyu93	[X]O contractre/tendon(sheath)	1
Nyu40	[X]O cond relt/polyarterit nod	1
NyuC1	[X]O chr h'matogens osteomylit	1
Nyu4D	[X]Necrotis vasculopathy, unsp	1
Nyu87	[X]Myosits/protzl+paras inf CE	1
Nyu88	[X]Myositis/oth infects dis CE	1
Nyu89	[X]Myositis in sarcoidosis CE	1
Nyu86	[X]Myositi/bacterial dis CE	1
Nyu84	[X]Muscle wasting and atrophy NEC	1
SyuA4	[X]Multi disloc/spr/strns,unsp	1
Nyu4F	[X]Mixed connective tissue disease	1
Nyu74	[X]Lumb+o intvt disc d+radiclp	1
Nyu73	[X]Lumb+o intrvrt disc d+mylop	1
Nyu5A	[X]Lordosis, unspecified	1
Nyu16	[X]Juvenile arthritis/o dis CE	1
Syu1	[X]Injuries to the neck	1
Syu3	[X]Injabd/low back/lum sp/pel	1
Syu4	[X]Inj to shoulder/upper arm	1
Syu8	[X]Inj to knee and lower leg	1
Nyu1	[X]Inflammatory polyarthropathies	1
Nyu0	[X]Infectious arthropathies	1
Nyu1C	[X]Gt arthpth/enz d+o inh d CE	1
Syu16	[X]Fracture other parts neck	1
Syu44	[X]Fract should/upp arm unsp	1
Syu15	[X]Fract oth spec cervic vert	1
SyuA2	[X]Fract inv oth comb bod regn	1
NyuAH	[X]Fibroblastic disord, unspec	1
NyuA8	[X]Fasciitis,NEC	1
NyuBB	[X]Erosion of bone	1
SyuA3	[X]Dsl/spr/str,oth comb bod rg	1
SyuB3	[X]Dsl/sp/st un jt/l leg,lv un	1
NyuB	[X]Disordrs/bone dens+structur	1
Nyu3E	[X]Disorder of patella, unspec	1
NyuDE	[X]Disorder cartilage, unspec	1
NyuBA	[X]Disord bone dens/struc,unsp	1
<b>,</b>	[/1]Dioora bono deno/endo,anop	'

Read code	Description	Number of studies
Syu17	[X]Disloc oth unsp parts neck	1
SyuBC	[X]Disl/spr/str unsp body reg	1
Nyu4E	[X]Dermatopolymyositis, unspec	1
Nyu48	[X]Dermat(poly)myosit/neo d CE	1
Nyu5	[X]Deforming dorsopathies	1
Nyu1D	[X]Crys arthpth/o meta diso,CE	1
Nyu67	[X]Collapsd vertebra in dis CE	1
SR1z0	[X]Clsd multiple fracts unspec	1
NyuD	[X]Chondropathies	1
Nyu7B	[X]Cervical disc disord, unsp	1
Nyu4B	[X]Arthrpthy/hyprsens react CE	1
Nyu1F	[X]Arthrpth/o spcf diseases CE	1
Nyu1E	[X]Arthrpth/o en,nut+meta diso	1
Nyu2	[X]Arthrosis	1
Nyu4A	[X]Arthropathy/o bld disord CE	1
Nyu49	[X]Arthropathy/neoplast dis CE	1
Nyu02	[X]Arthrits/o inf+paras dis CE	1
Nyu01	[X]Arthrit+polyarth/o s bact a	1
NyuB9	[X]Adult osteomalacia, unspec	1
Nyu	[X]Ad muscskl+con t dis cls tm	1
NyuCE	[X]#bone/neoplastic disease CE	1
NyuE1	[X]#/bne f insrt/o i,j pr,bn p	1
EMISREQ 7N945(9)	[SO]Lumbosacral joint -Req.	1
HNGZ018	[RFC] Arthritis	1
R0420	[D]Swelling in head or neck	1
R042	[D]Swell.masslump head/neck	1
R027	[D]Spontaneous bruising	1
R065A	[D]Musculoskeletal chest pain	1
R137	[D]Musculoskel.ray/scan abnorm	1
R137z	[D]Musculosc xray/scan abn NOS	1
R022C	[D]Lump on knee	1
R04zz	[D]Head and neck symptoms NOS	1
R04	[D]Head and neck symptoms	1
R04z	[D]Head and neck other sympt.	1
R00z2-1	[D]General aches and pains	1
R065000	[D]CHEST PAIN, UNSPECIFIED	1
R065z00	[D]CHEST PAIN, ONSPECIFIED	1
R065.00	[D]CHEST PAIN	1
R090z00	[D]Abdominal pain	1
R090.00	[D]Abdominal pain	1
DEGRADE_EVENT_1730_49	• •	1
DEGRADE_EVENT_2469_340	[DEGRADE Muscle Injury]	1
DEGRADE_EVENT_3154_40	[DEGRADE Knee Pain]	1
N135z-2	[DEGRADE Knee Pain]	1
N05z3	Wry neck	1
	Wrist osteoarthritis NOS	1
N0943-1 N06z3-1	Wrist joint pain	1
	Wrist arthritis NOS	1
S5704	Whiplash injury	1
EGTONWE2	Wedge Compression # Of Dorsal Spine	1
EGTONWE1	Wedge Compression # Lumbar Spine	1
N2432	Weber - Christian disease	1
N2430	Weber - Christian disease	1
N0974	Walking difficulty-other spec.	1

Read code	Description	Number of studies
N0975	Walking difficulty-multip.site	1
N0970	Walking difficulty due to unspecified site	1
N2413	Viral myalgia	1
N092M	Villonodular synovitis of knee	1
N092z	Villonodular synovitis NOS	1
N092	Villonodular synovitis	1
N0920	Villonod.synovitis-site unspec	1
N0921	Villonod.synovitis-shoulder	1
N0928	Villonod.synovitis-other spec.	1
N0929	Villonod.synovitis-mult.sites	1
N2208	Villonod synovitis-tend sheath	1
N092B	Villonod synovitis-sternclav j	1
N092A	Villonod synovitis-shoulder	1
N092C	Villonod synovitis-acromclav j	1
N330B	Vertebral osteoporosis	1
N320	Vertebral epiphysitis	1
N1	Vertebral column syndromes	1
N1y	Vertebral column disorders OS	1
N1z	Vertebral column disorder NOS	1
N0966-2	Unstable knee	1
N0967-1	Unstable ankle	1
N066z	Unspecified monoarthritis NOS	1
N066	Unspecified monoarthritis	1
N1290	Unspec.disc disorder+myelop.	1
N0650	Unsp.polyarthrsite unspecif.	1
N065000	Unsp.polyarthrsite unspecif.	1
N0651	Unsp.polyarthrshoulder	1
N065800	Unsp.polyarthrother specif.	1
N0658	Unsp.polyarthrother specif.	1
N065900	Unsp.polyarthrmultiple site	1
N0659	Unsp.polyarthrmultiple site	1
N3020		1
N3021	Unsp.osteomyelitis shoulder	1
N3028	Unsp.osteomyelitis-shoulder	1
N3029	Unsp.osteomyelitis-other spec.	1
N302z	Unsp.osteomyelitis-mult.site	1
N0660	Unsp.osteomyelitis NOS	1
N0661	Unsp.monoarthrsite unspecif.	1
N0668	Unsp.monoarthrshoulder	1
N1121	Unsp.monoarthrother specif.	1
N11B1	Two lev th spondyl + radicular	1
N1131	Two lev th spondyl + radiculop	1
N1141	Two lev th spondyl + myelop	1
N1151	Two lev lumbsac spond-no myelo	1
N1101	Two lev lumbsac spond + myelop	1
	Two lev Cx spondyl-no myelop	1
N1191 N1111	Two lev Cx spondyl + radiculop	1
	Two lev Cx spondyl + myelop	1
N018	Tuberculous arthritis	1
N3041	Tuberculosis of thoracic spine	1
N304	Tuberculosis of spine	1
N306	Tuberculosis of other bones	1
N3042	Tuberculosis of lumbar spine	1
N3040	Tuberculosis of cervical spine	1

Read code	Description	Number of studies
N3060	Tuberculosis bone-site unspec.	1
N3061	Tuberculosis bone-shoulder	1
N3064	Tuberculosis bone-other sites	1
N3065	Tuberculosis bone-multip.sites	1
N306z	Tuberculosis bone NOS	1
N22yD	Tuberc infec - tendon sheath	1
N2155	Trochanteric tendinitis	1
N2157	Trochanteric bursitis	1
N0874	Triangular fibrocartilage tear	1
N0875	Triangular fibrocartil detach	1
N118	Traumatic spondylopathy	1
N2312	Traumatic myositis ossificans	1
SE46	Traumatic haematoma	1
SK	Traumatic complicat./unsp.inj.	1
N061A	Traumatic arthropathy-shoulder	1
N061M	Traumatic arthropathy-knee	1
N061z	Traumatic arthropathy NOS	1
N061	Traumatic arthropathy	1
N0610	Traumatic arthrsite unspecif	1
N0611	Traumatic arthrshoulder	1
N0618	Traumatic arthrother specif.	1
N0619	Traumatic arthrmultiple site	1
N061B	Traumat arthrop-sternoclav jt	1
N061C	Traumat arthrop-acromioclav jt	1
S906	Traumat amp at shoulder joint	1
SA72	Traum.unil.amput.>knee-no comp	1
N220Q	Transient synovitis	1
N064A	Transient arthropathy-shoulder	1
N064M	Transient arthropathy-knee	1
N064z	Transient arthropathy NOS	1
N064	Transient arthropathy	1
N064B	Transient arthrop-sternoclav j	1
N0640	Transient arthrsite unspecif	1
N0641	Transient arthrshoulder	1
N0648	Transient arthrother specif.	1
N0649	Transient arthrother specif. Transient arthrmultiple site Transient arthr-acromioclav jt Torticollis unspecified	1
N064C	Transient arthr-acromioclav jt	1
N135	Torticollis unspecified	1
Q20y9	Torticollis due to birth injury	1
16A3	Torticollis - symptom	1
N2451-1	Toe pain	1
N2162	Tibial collateral lig.bursitis	1
N2450-1	Thumb pain	1
N05z4-2	Thumb osteoarthritis NOS	1
N3735	Thoracogenic scoliosis	1
N1485	Thoraco-lumbar ankylosis	1
N144	Thoracic/lumbosacral neuritis	1
N144z	Thoracic/lumbosac.neuritis NOS	1
N112-1	Thoracic spondylosis	1
N112	Thoracic spondno myelopathy	1
N113	Thoracic spond.+ myelopathy	1
	· · · · · · · · · · · · · · · · · · ·	
N148B	Thoracic spine instability	1

Read code	Description	Number of studies
N1401	Thoracic spinal stenosis	1
N12A2	Thoracic postlaminectomy syndr	1
N1440	Thoracic nerve root pain	1
N12z8	Thoracic discitis	1
N121	Thoracic disc displno myelop	1
N1292	Thoracic disc disord.+myelop.	1
N126	Thoracic disc degeneration	1
S571	Thoracic back sprain	1
EMISNQTH14	Thoracic back pain	1
N245-8	Thigh pain	1
N11B	Th spondyl + radiculop	1
N1406	Th spin stenos due to oth dis	1
N12C1	Th disc prolapse+radiculopathy	1
N12B1	Th disc prolapse + myelopathy	1
N2132-1	Tennis elbow	1
N2202	Tendon sheath giant cell tumor	1
ASDFGTE2	Tendon Symptoms	1
N2456	Tender heel pad	1
S46B	Tear/articulr cart/knee,currnt	1
S545	Tear of ligament of knee joint	1
N000*	Systemic lupus erythematosus	1
N000	Systemic lupus erythematosus	1
N000z	Systemic lupus erythematos.NOS	1
N0012	Syst scleros induc drugs/chems	1
N0003	Syst lup eryth + organ/sys inv	1
N2227	Syphilitic bursitis	1
N2200	Synovitis or tenosynovitis NOS	1
N220z-2	Synovitis of knee	1
N220z	Synovitis of knee	1
N220V	Synovitis of knee	1
N220	Synovitis and tenosynovitis	1
N220T	Synovitis NOS	1
N2201	Synovit./tenosynovitis+dis EC	1
N22y4	Synovial plica	1
N098	Synovial osteochondromatosis	1
N2240	Synovial cyst unspecified	1
N0980	Synov osteochondromat-shoulder	1
N098B	Synov osteochondromat-knee	1
N0981	Synov osteochondromat st-cla j	1
N0982	Synov osteochondromat ac-cla j	1
1D24	Symptom: trunk posterior	1
16J4	Swollen knee	1
16J3	Swollen joint	1
16J7	Swollen foot	1
1834-1	Swollen finger	1
1JG	Suspected inflammatory arthritis	1
N21z2	Supraspinatus tendonitis	1
N2113	Supraspinatus tendinitis	1
N230	Suppurative myositis	1
SD1y4	Supl inj bk NOS-no mj opn wnd	1
SD9	Superficialinjuriesunspecif.	1
SD097	SuperficialInjury:Neck	1
SD2y1	Superficial injury of scapular NOS	1

SDP2         Superficial injury of knee NOS           SD2         Superficial injury is Nock           SD20         Superficial injury; Neck           SD20         Superficial injury; Neck           SD22         Superfi, injs houlder/upper arm           SD124         Superf. injs houlder/upper arm           SD124         Superf. injs houlder/upper arm           N3371         Sudek's atrophy           N2167         Subpatellar bursitis           N3901         Subbuxat complex (vertebral)           N3y02         Subbux stenos of neural canal           N3081         Subacute osteomyelitis-th spin           N3082         Subacute osteomyelitis-th spin           N3083         Subacute osteomyelitis           N3080         Subacute osteomyelitis           N3081         Subacute osteomyelitis           N3082         Subacute osteomyelitis           N3083         Subacute osteomyelitis           N3084         Subacute osteomyelitis           N3085         Subacute osteomyelitis           N3086         Subacute osteomyelitis           N3087         Subacute osteomyelitis           N3088         Subacute osteomyelitis           N3088         Subacute osteomyelitis	Read code	Description	Number of studies
SD0         Superficial Injury: Neck           SD2y0         Superficin Injury shoulder NOS           SD2         Superfini, shoulder/upper arm           SD124         Superfini, shoulder/upper arm           SD1744         Superfini, shoulder/upper arm           N3371         Sudek's atrophy           N2167         Subpatellar bursitis           N3901         Subbuxath complex (vertebral)           N3902         Subbuxath complex (vertebral)           N3080         Subacute osteomyelitis- uspin           N3081         Subacute osteomyelitis- uspin           N3082         Subacute osteomyelitis- uspin           N3083         Subacute osteomyelitis           N309         Subacute osteomyelitis           N309         Subacute osteomyelitis           N309         Subacromial purplement           N308         Subacromial bursitis           N3108         Subacromial bursitis           N212         Subacromial bursitis           N212         Subacromial bursitis           N214         Subacromial bursitis           N215         Suff freck symptom           N035         Stiff freck symptom NOS           16A         Stiff neck symptom NOS           16A         Stif	=	Superficial injury of knee NOS	1
SD2y0         Superfic injury shoulder NOS           SD2         Superf.inj.shoulder/upper arm           SD1z4         Superf.inj.shoulder/upper arm           N3371         Sudek's atrophy           N2167         Subpatellar bursitis           N3y01         Sublux stenos of neural canal           N3081         Subacute osteomyelitis-th spin           N3082         Subacute osteomyelitis-th spin           N3083         Subacute osteomyelitis-th spin           N3080         Subacute osteomyelitis           N309         Subacute osteomyelitis           N308         Subacute osteomyelitis           N308         Subacute osteomyelitis           N309         Subacute osteomyelitis           N310         Subacute osteomyelitis           N310         Subacute osteomyelitis           N310         Subacute osteomyelitis           N310         Subacut		Superficial injuries NOS	1
SD2         Superf.inj.shoulder/upper arm           SD124         Superf.back inj.NOS+infect.           N3371         Sudek's atrophy           N2167         Subpatellar bursitis           N3y01         Sublux tenos of neural canal           N3y02         Sublux stenos of neural canal           N3081         Subacute osteomyelitis-th spin           N3082         Subacute osteomyelitis-Lx spin           N3080         Subacute osteomyelitis           N309         Subacute osteomyelitis           N2122         Subacute osteomyelitis           N2124         Subacute osteomyelitis           N2125         Subacute osteomyelitis           N2126         Subacute osteomyelitis           N2127         Subacute osteomyelitis           N2128         Subacute ost	SD0	Superficial Injury: Neck	1
SD124	SD2y0	Superfic injury shoulder NOS	1
N3371 Sudek's atrophy 12167 Subpatellar bursitis 130401 Subjuxant complex (vertebrat) 130402 Sublux stenos of neural canal 13081 Subacute osteomyelitis-th spin 13082 Subacute osteomyelitis-th spin 13080 Subacute osteomyelitis 1309 Subacute osteomyelitis 1309 Subacute osteomyelitis 1309 Subacute osteomyelitis 1309 Subacute osteomyelitis 1310 Subacomial impingement 13116 Subacomial impingement 13116 Subacomial impingement 13116 Subacomial impingement 13116 Subacomial bursitis 1302 Stress fracture 13032 Stress fracture 13032 Stress fracture 13032 Stress fracture 13040 Striff shoulder NEC 13147 shoulder NEC 13147 shoulder NEC 13148 Striff neck symptom NOS 13150 Striff neck symptom NOS 1316A Striff neck NOS 1317 strenoclavicular sprain 135410 Spra, knee jt, tedal collat 135410 Spra, knee jt, tedal collat 135400 Spra knee jt, tedal collat 135400 Spra shrt intrase Igamt non-sp 1350 Sprains and strains 1350 Sprained shoulder 13500 Sprained shoulder 13501 Sprained shoulder 13503 Sprained shoulder 13503 Sprained shoulder 13504 Sprain shoulder joint posterior 13507 Sprain shoulder joint posterior 13507 Sprain shoulder joint anterior 13507 Sprain shoulder joint anterior 13508 Sprain infraspinatus tendon 13509 Sprain infraspinatus tendon 13500 Sprain infraspinatus tendon 13501 Sprain infraspinatus tendon 13502 Sprain infraspinatus tendon 13503 Sprain infraspinatus tendon 13504 Sprain - medial knee ligament 13504 Sprain - medial knee ligament 13504 Sprain - lateral knee ligament 13504 Sprain - lateral knee ligament 13504 Sprain - lateral knee ligament	SD2	Superf.inj.shoulder/upper arm	1
N2167 Subpatellar bursitis N3y01 Subluxan complex (vertebral) N3y02 Sublux stenos of neural canal N3081 Subacute osteomyelitis-th spin N3082 Subacute osteomyelitis-th spin N3080 Subacute osteomyelitis- x spin N3080 Subacute osteomyelitis N322 Subacromial impiement N322 Subacromial impiement N322 Steres fracture N322 Steres fr	SD1z4	Superf.back inj.NOS+infect.	1
N3y01         Subluxatn complex (vertebral)           N3y02         Sublux stenos of neural canal           N3081         Subacute osteomyelitis-th spin           N3082         Subacute osteomyelitis-th spin           N3080         Subacute osteomyelitis-Cx spin           N309         Subacute osteomyelitis           N308         Subacute osteomyelitis           N308         Subacromial impingement           N3161         Subacromial bursitis           N322         Subacromial bursitis           N322         Stress fracture           N095B         Stiff stemoclavic joint NEC           N095A         Stiff shoulder NEC           16AZ         Stiff neck symptom           N095A         Stiff neck symptom           N095B         Stiff neck symptom           N095C         Stiff neck symptom           N095B         Stiff neck symptom <t< td=""><td>N3371</td><td>Sudek's atrophy</td><td>1</td></t<>	N3371	Sudek's atrophy	1
NSy02         Sublux stenos of neural canal           N3081         Subacute osteomyelitis-th spin           N3082         Subacute osteomyelitis-Cx spin           N3080         Subacute osteomyelitis           N309         Subacute osteomyelitis           N308         Subacute osteomyelitis           N2122         Subacromial impingement           N2116         Subacromial bursitis           S322         Stress fracture           N095B         Stiff sternoclavic joint NEC           N095B         Stiff shoulder NEC           N095B         Stiff neck symptom NOS           16A         Stiff neck symptom NOS           Stiff scould texture stender         Stiff neck symptom	N2167	Subpatellar bursitis	1
N3081         Subacute osteomyelitis-th spin           N3082         Subacute osteomyelitis-Cx spin           N3080         Subacute osteomyelitis           N309         Subacute osteomyelitis           N308         Subacromial bursitis           N2122         Subacromial bursitis           N2126         Subacromial bursitis           N327         Stress fracture           N095B         Stiff stroclavic joint NEC           N095A         Stiff stroclavic joint NEC           N095A         Stiff strock NEC           N095A         Stiff neck symptom           N05A         Stiff neck symptom           N135z         Stiff neck symptom           N135z         Stiff neck NOS           16A         Stiff neck symptom           N095M         Stiff neck symptom           N095M         Stiff neck NOS           S5411         Sternoclavicular sprain           N0108         Staphylococc arthrit/polyarthr           S5410         Sprn, knee jt, lat collat lgmt           S5410         Sprn, knee jt, lat collat lgmt           S520D         Sprn triangular fibrocartilage           S5400         Sprain shi tinrus lgmt non-sp           S544-99         Sprained shoulder	N3y01	Subluxatn complex (vertebral)	1
N3082         Subacute osteomyelitis-lu spin           N3080         Subacute osteomyelitis-Cx spin           N308         Subacute osteomyelitis           N308         Subacromial bursitis           N2122         Subacromial bursitis           S322         Stress fracture           N095B         Stiff sternoclavic joint NEC           N095B         Stiff sternoclavic joint NEC           16AZ         Stiff neck symptom NOS           16A         Stiff neck symptom           N135z         Stiff neck NOS           16AA         Stiff neck NOS           16A2         Stiff neck NOS           16A3         Stiff neck NOS           16A4         Stiff neck NOS           16A2         Stiff neck NOS           16A3         Stiff neck NOS           16A4         Stiff neck NOS           16A5         Stiff neck NOS           16A6         Stiff acromioclavicular joint NEC           16A3         Stiff neck NOS           16A4         Stiff neck NOS           16A5         Stiff acromioclavicular joint NEC           16A6         Stiff neck NOS           16A4         Stiff neck NOS           16A5         Stiff neck NoS	N3y02	Sublux stenos of neural canal	1
N3082         Subacute osteomyelitis-lu spin           N3080         Subacute osteomyelitis           N308         Subacute osteomyelitis           N2122         Subacromial bursitis           S322         Stress fracture           N095B         Stiff stemoclavic joint NEC           N095A         Stiff shoulder NEC           16AZ         Stiff neck symptom NOS           16A         Stiff neck symptom NOS           16A         Stiff neck symptom NOS           16A2         Stiff neck NOS           16A2         Stiff neck NOS           16A2         Stiff neck NOS           16A2         Stiff neck NOS           16A3         Stiff neck NOS           16A4         Stiff neck NOS           16A5         Stiff neck NOS           16A6         Stiff neck NOS           16A2         Stiff neck NOS           16A3         Stiff neck NOS           16A4         Stiff neck NOS           16A5         Stiff neck NOS           16A6         Stiff neck NOS           16A4         Stiff neck NOS           16A5         Stiff neck NOS           16A6         Stiff neck NOS           16A6         Stiff neck NOS	N3081	Subacute osteomyelitis-th spin	1
N3080 Subacute osteomyelitis-Cx spin N308 Subacute osteomyelitis N2122 Subacromial impingement N2116 Subacromial bursitis S322 Stress fracture N095B Stiff sternoclavic joint NEC N095A Stiff shoulder NEC 16AZ Stiff neck symptom N135z Stiff neck symptom N135z Stiff neck NOS 16A2 Stiff neck NOS 16A2 Stiff neck NOS Stiff shoulder NEC N095C Stiff shoulder NEC N095C Stiff neck NOS Styphylor N095C Stiff neck Styphylor N0108 Staphylococa arthrit/polyarthr Styphylococa	N3082	· · · · · · · · · · · · · · · · · · ·	1
N309 N308 N308 Subacute osteomyelitis N2122 Subacromial impingement Subacromial impingement N2116 Subacromial bursitis S322 Stress fracture N095B Stiff sternoclavic joint NEC N095A Stiff sternoclavic joint NEC N095A Stiff sternoclavic joint NEC N095A Stiff neck symptom NOS Stiff neck symptom N135z Stiff neck NOS Stiff neck NOS Stiff neck NOS Stiff neck N095M Stiff knee NEC N095C Stiff acromioclavicular joint NEC S5y41 Sternoclavicular sprain N0108 Staphylococc arthrit/polyarthr S5410 Sprn,knee jt,nedial collat S5410 Sprn,knee jt,lat collat Igmt S520D Sprn triangular fibrocartilage S520G Spr shrt intrnsc Igmnt non-sp S5 Sprains and strains S50 Sprained shoulder S54-99 Sprained knee S64 Sprain, lumbosacral ligament S54-99 Sprained knee S560 Sprain, iliolumbar ligament S501 Sprain, silolumbar ligament S501 Sprain subscapularis tendon S505 Sprain subscapularis tendon S507 Sprain shoulder joint posterior S508 Sprain infraspinatus tendon S503 Sprain infraspinatus tendon S504 Sprain - atteral knee ligament S541 Sprain - medial knee ligament S541 Sprain - medial knee ligament S541 Sprain - lateral knee ligament	N3080		1
N208 N2122 Subacromial impingement N2116 Subacromial bursitis S322 Stress fracture N095B Stiff sternoclavic joint NEC N095A Stiff shoulder NEC 16AZ Stiff neck symptom NOS 16A Stiff neck symptom N135z Stiff neck NOS 16A2 Stiff neck NOS 16A2 Stiff neck NOS 16A4 Stiff neck NOS 16A5 Stiff neck NOS 16A6 Stiff neck NOS 16A6 Stiff neck NOS S	N309	· · · · · · · · · · · · · · · · · · ·	1
N2122 Subacromial impingement N2116 Subacromial bursitis S322 Stress fracture N095B Stiff sternoclavic joint NEC N095A Stiff shoulder NEC 16AZ Stiff neck symptom NOS 16A Stiff neck symptom N135z Stiff neck NOS 16A2 Stiff neck NOS 16A2 Stiff neck NOS 16A3 Stiff neck NOS 16A4 Stiff neck N095M Stiff neck N095M Stiff neck N095C Stiff acromioclavicular joint NEC S5y41 Sternoclavicular sprain N0108 Staphylococc arthritipolyarthr S5410 Sprn,knee jt,medial collat S5400 Sprn,knee jt,lat collat lgmt S520D Sprn shri intrnsc lgmnt non-sp S520D Sprn shri intrnsc lgmnt non-sp S55 Sprains and strains S50 Sprained shoulder S54-99 Sprained knee S640 Sprn, lumbosacral ligament S560 Sprain, lumbosacral ligament S560 Sprain subscapularis tendon S560 Sprain subscapularis tendon S5001 Sprain subscapularis tendon S5005 Sprain shoulder joint posterior S5007 Sprain shoulder joint anterior S5007 Sprain shoulder joint anterior S5008 Sprain patellar tendon S5009 Sprain patellar tendon S5001 Sprain spoulder joint anterior S5003 Sprain infraspinatus tendon S5003 Sprain infraspinatus tendon S5004 Sprain patellar tendon S5005 Sprain spoulder joint anterior S5007 Sprain shoulder joint anterior S5008 Sprain infraspinatus tendon S5009 Sprain acromio-clav ligament S501 Sprain -cruciate knee ligament S501 Sprain - medial knee ligament S501 Sprain - medial knee ligament S501 Sprain - lateral knee ligament S5040 Sprain - lateral knee ligament S5040 Sprain - lateral knee ligament	N308	•	1
N2116         Subacromial bursitis           S322         Stress fracture           N095B         Stiff sternoclavic joint NEC           N095A         Stiff shoulder NEC           16AZ         Stiff neck symptom NOS           16A         Stiff neck symptom           N135z         Stiff neck NOS           16A2         Stiff neck           N095M         Stiff sternoclavicular joint NEC           S5941         Sternoclavicular sprain           N0108         Staphylococc arthrit/polyarthr           S5410         Sprn,knee jt,lat collat lgmt           S5400         Sprn,knee jt,lat collat lgmt           S520D         Sprn,knee jt,lat collat lgmt           S520G         Sprn shrt intrnsc lgmnt non-sp           S5         Sprains and strains           S50         Sprained shoulder           S54y-99         Sprained knee NOS           S54-99         Sprained knee           S564         Sprain, lumbosacral ligament           S501         Sprain subscapularis tendon           S505         Sprain subscapularis tendon           S507         Sprain shoulder joint posterior           S507         Sprain shoulder joint posterior           S507         Sprain shoulder joi	N2122		1
N095B Stiff sternoclavic joint NEC N095A Stiff shoulder NEC 16AZ Stiff neck symptom NOS 16A Stiff neck symptom N135z Stiff neck NOS 16A2 Stiff neck NOS 16A2 Stiff neck N095M Stiff knee NEC N095C Stiff acromicolavicular joint NEC S5y41 Sternoclavicular sprain N0108 Staphylococc arthrit/polyarthr S5410 Sprn,knee jt,lat collat lgmt S520D Sprn triangular fibrocartilage S520G Spr shrt intrnsc lgmnt non-sp S55 Sprains and strains S55 Sprains and strains S56 Sprained knee NOS S54-99 Sprained knee S560 Sprain, lumbosacral ligament S561 Sprain, lumbosacral ligament S561 Sprain, supraspinatus tendon S500 Sprain subscapularis tendon S500 Sprain shoulder joint posterior S500 Sprain shoulder joint posterior S500 Sprain shoulder joint anterior S500 Sprain and Sprain infraspinatus tendon S5001 Sprain shoulder joint anterior S5001 Sprain shoulder joint anterior S5001 Sprain shoulder joint anterior S5001 Sprain infraspinatus tendon S5002 Sprain infraspinatus tendon S5003 Sprain infraspinatus tendon S5004 Sprain - medial knee ligament S5040-99 Sprain - lateral knee ligament S5040-99 Sprain - lateral knee ligament S5040-99 Sprain - lateral knee ligament	N2116	· · ·	1
N095B Stiff sternoclavic joint NEC N095A Stiff shoulder NEC 16AZ Stiff neck symptom NOS 16A Stiff neck symptom N135z Stiff neck NOS 16A2 Stiff neck N095M Stiff knee NEC N095M Stiff knee NEC N095C Stiff acromicolavicular joint NEC S5y41 Sternoclavicular sprain N0108 Staphylococc arthrit/polyarthr S5410 Sprn,knee jt,lnedial collat S520D Sprn triangular fibrocartilage S520G Spr shrt intrnsc lgmnt non-sp S55 Sprains and strains S55 Sprains and strains S56 Sprained knee NOS S544-99 Sprained knee S560 Sprain, lumbosacral ligament S561 Sprain, lumbosacral ligament S561 Sprain, coraco-clav ligament S500 Sprain subscapularis tendon S500 Sprain shoulder joint posterior S5007 Sprain shoulder joint posterior S5007 Sprain shoulder joint posterior S500 Sprain shoulder joint anterior S500 Sprain shoulder joint anterior S500 Sprain shoulder joint anterior S500 Sprain infraspinatus tendon S5001 Sprain shoulder joint posterior S5002 Sprain infraspinatus tendon S5003 Sprain infraspinatus tendon S5004 Sprain infraspinatus tendon S5005 Sprain infraspinatus tendon S5007 Sprain shoulder joint anterior S5008 Sprain infraspinatus tendon S5009 Sprain - medial knee ligament S501 Sprain - medial knee ligament S501 Sprain - medial knee ligament S5020 Sprain - lateral knee ligament S5040-99 Sprain - lateral knee ligament S5040-99 Sprain - lateral knee ligament	S3z2		1
N095A Stiff shoulder NEC 16AZ Stiff neck symptom NOS 16A N135Z Stiff neck NOS 16A2 Stiff neck NOS 16A2 Stiff neck NOS 16A2 Stiff neck N095M Stiff knee NEC N095C Stiff acromicolavicular joint NEC S5y41 Sternoclavicular sprain N0108 Staphylococc arthrit/polyarthr S5410 Sprn,knee jt,lat collat lgmt S520D Sprn triangular fibrocartilage S520D Sprn triangular fibrocartilage S520G Sprn shrt intrnsc lgmnt non-sp S55 Sprains and strains S50 Sprained knee NOS S54-99 Sprained knee S564 Sprain, lillolumbar ligament S501 Sprain, lillolumbar ligament S501 Sprain, coraco-clav ligament S500 Sprain supraspinatus tendon S500 Sprain shoulder joint posterior S507 Sprain shoulder joint anterior S507 Sprain shoulder joint S534 Sprain patellar tendon S503 Sprain acromio-clav ligament S500 Sprain acromio-clav ligament S501 Sprain spoulder joint S503 Sprain infraspinatus tendon S503 Sprain infraspinatus tendon S504 Sprain - medial knee ligament S541 Sprain - medial knee ligament S541-99 Sprain - lateral knee ligament S540-99 Sprain - lateral knee ligament S540-99 Sprain - lateral knee ligament			1
16AZ Stiff neck symptom NOS 16A Stiff neck symptom N135z Stiff neck NOS 16A2 Stiff neck NOS 16A2 Stiff neck N095M Stiff knee NEC N095C Stiff acromioclavicular joint NEC S5y41 Sternoclavicular sprain N0108 Staphylococc arthrit/polyarthr S5410 Sprn, knee jt, lat collat lgmt S5400 Sprn kinee jt, lat collat lgmt S520D Sprn triangular fibrocartilage S520D Sprn shr intrnsc lgmnt non-sp S52 Sprains and strains S50 Sprained shoulder S54-99 Sprained knee NOS S54-99 Sprained knee S560 Sprain, llinolumbar ligament S560 Sprain, iliolumbar ligament S501 Sprain, coraco-clav ligament S500 Sprain supraspinatus tendon S5001 Sprain supraspinatus tendon S5005 Sprain shoulder joint posterior S5007 Sprain shoulder joint posterior S5008 Sprain shoulder joint anterior S5009 Sprain shoulder joint stendon S5001 Sprain shoulder joint stendon S5003 Sprain infraspinatus tendon S5004 Sprain infraspinatus tendon S5005 Sprain shoulder joint stendon S5006 Sprain in redial knee ligament S5009 Sprain - medial knee ligament S541 Sprain - medial knee ligament S541-99 Sprain - lateral knee ligament S540-99 Sprain - lateral knee ligament S540-99 Sprain - lateral knee ligament	N095A		1
Stiff neck symptom N135z Stiff neck NOS 16A2 Stiff neck N095M Stiff knee NEC N095C Stiff acromioclavicular joint NEC S5y41 Sternoclavicular sprain N0108 Staphylococc arthrit/polyarthr S5410 Sprn,knee jt,medial collat S5400 Sprn,knee jt,lat collat lgmt S520D Sprn triangular fibrocartilage S520G Sprains and strains S50 Sprained shoulder S54y-99 Sprained knee NOS S54-99 Sprained knee S560 Sprain, lumbosacral ligament S561 Sprain, coraco-clav ligament S501 Sprain, coraco-clav ligament S506 Sprain supraspinatus tendon S507 Sprain shoulder joint posterior S5070 Sprain shoulder joint S5070 Sprain shoulder joint S507 Sprain sprain patellar tendon S503 Sprain infraspinatus tendon S503 Sprain infraspinatus tendon S504 Sprain - cruciate knee ligament S541 Sprain - medial knee ligament S541-99 Sprain - medial knee ligament S541-99 Sprain - lateral knee ligament			1
N135z         Stiff neck           16A2         Stiff neck           N095M         Stiff knee           N095C         Stiff acromioclavicular joint NEC           S5y41         Sternoclavicular sprain           N0108         Staphylococc arthrit/polyarthr           S5410         Sprn,knee jt,medial collat           S5400         Sprn,knee jt,lat collat lgmt           S520D         Sprn triangular fibrocartilage           S520G         Sprn shrt intrnsc lgmnt non-sp           S5         Sprained shoulder           S54y-99         Sprained knee NOS           S54y-99         Sprained knee           S500         Sprained knee           S501         Sprain, limbosacral ligament           S501         Sprain, iliolumbar ligament           S501         Sprain, supraspinatus tendon           S505         Sprain supraspinatus tendon           S501         Sprain subscapularis tendon           S502         Sprain shoulder joint posterior           S503         Sprain shoulder joint anterior           S507         Sprain shoulder joint           S5034         Sprain patellar tendon           S503         Sprain infraspinatus tendon           S503         Sprain - cruc			1
Stiff neck N095M Stiff knee NEC N095C Stiff acromioclavicular joint NEC S5y41 Sternoclavicular sprain N0108 Staphylococc arthrit/polyarthr S5410 Sprn,knee jt,medial collat S5400 Sprn,knee jt,lat collat lgmt S520D Sprn triangular fibrocartilage S520G Sprn shrt intrnsc lgmnt non-sp S5 S5 Sprains and strains S54 Sprained shoulder S54-99 Sprained knee NOS S54-99 Sprained knee S660 Sprain, lliolumbar ligament S564 Sprain, iliolumbar ligament S506 Sprain supraspinatus tendon S507 Sprain shoulder joint posterior S5070 Sprain shoulder joint anterior S507 Sprain shoulder joint S503 Sprain jatellar tendon S503 Sprain acromio-clav ligament S503 Sprain sprain shoulder joint anterior S507 Sprain shoulder joint anterior S503 Sprain acromio-clav ligament S503 Sprain patellar tendon S503 Sprain infraspinatus tendon S503 Sprain infraspinatus tendon S504 Sprain - medial knee ligament S541 Sprain - medial knee ligament S541-99 Sprain - lateral knee ligament S540 Sprain - lateral knee ligament			1
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Stiff acromioclavicular joint NEC S5y41 Sternoclavicular sprain N0108 Staphylococc arthrit/polyarthr S5410 Sprn,knee jt,lat collat S5400 Sprn,knee jt,lat collat lgmt S520D Sprn triangular fibrocartilage S520G Sprn shrt intrnsc lgmnt non-sp S5 S5 Sprains and strains S5409 Sprained shoulder S54-99 Sprained knee NOS S54-99 Sprained knee S560 Sprain, llindumbar ligament S561 Sprain, coraco-clav ligament S500 Sprain subscapularis tendon S500 Sprain subscapularis tendon S5001 Sprain shoulder joint anterior S5007 Sprain shoulder joint anterior S5008 Sprain patellar tendon S5001 Sprain patellar tendon S5002 Sprain patellar tendon S5003 Sprain patellar tendon S5004 Sprain - reruciate knee ligament S541 Sprain - medial knee ligament S541 Sprain - medial knee ligament S540-99 Sprain - lateral knee ligament			1
Sty41 Sternoclavicular sprain N0108 Staphylococc arthrit/polyarthr S5410 Sprn,knee jt,medial collat S5400 Sprn,knee jt,lat collat lgmt S520D Sprn triangular fibrocartilage S520G Sprn shrt intrnsc lgmnt non-sp S50 Sprains and strains S50 Sprained shoulder S544-99 Sprained knee NOS S564 Sprain, lumbosacral ligament S501 Sprain, lumbosacral ligament S501 Sprain, coraco-clav ligament S501 Sprain subscapularis tendon S505 Sprain subscapularis tendon S501 Sprain shoulder joint posterior S507 Sprain shoulder joint anterior S507 Sprain shoulder joint S503 Sprain infraspinatus tendon S503 Sprain infraspinatus tendon S500 Sprain nedial knee ligament S542 Sprain - medial knee ligament S541-99 Sprain - medial knee ligament S540-99 Sprain - lateral knee ligament			1
Staphylococc arthrit/polyarthr Sprn,knee jt,medial collat Sprn,knee jt,medial collat Sprn,knee jt,lat collat lgmt Sprn triangular fibrocartilage Sprn shrt intrnsc lgmnt non-sp Sprn shrt intrnsc lgmnt non-sp Sprn sprained shoulder Sprained shoulder Sprained knee NOS Sprained knee Sprained knee Sprained knee Sprain, lumbosacral ligament Sprain, lilolumbar ligament Sprain, soraco-clav ligament Sprain subscapularis tendon Sprain subscapularis tendon Sprain shoulder joint posterior Sprain shoulder joint anterior Sprain shoulder joint anterior Sprain sprain patellar tendon Sprain infraspinatus tendon Sprain infraspinatus tendon Sprain infraspinatus tendon Sprain sprain shoulder joint anterior Sprain shoulder joint anterior Sprain sprain joint sendon Sprain infraspinatus tendon Sprain infraspinatus tendon Sprain infraspinatus tendon Sprain - medial knee ligament Sprain - medial knee ligament Sprain - medial knee ligament Sprain - lateral knee ligament Sprain - lateral knee ligament			1
Sprn,knee jt,medial collat Sprn,knee jt,lat collat lgmt Sprobe Sp	•		1
Sprn,knee jt,lat collat lgmt Sprobe S			1
Spri triangular fibrocartilage Spro Spri shrt intrnsc Igmnt non-sp Sprains and strains Sprained shoulder Sprained knee NOS Sprained knee Sprained knee Sprained knee Sprain, lumbosacral ligament Sprain, iliolumbar ligament Sprain, coraco-clav ligament Sprain supraspinatus tendon Sprain subscapularis tendon Sprain shoulder joint posterior Sprain shoulder joint anterior Sprain sprain patellar tendon Sprain sprain patellar tendon Sprain sprain patellar tendon Sprain sprain patellar tendon Sprain patellar tendon Sprain acromio-clav ligament Sprain acromio-clav ligament Sprain - cruciate knee ligament Sprain - medial knee ligament Sprain - lateral knee ligament Sprain - lateral knee ligament Sprain - lateral knee ligament			1
Sprains and strains Sprained shoulder Sprained shoulder Sprained knee NOS Sprained knee Sprain, lumbosacral ligament Sprain, coraco-clav ligament Sprain, coraco-clav ligament Sprain supraspinatus tendon Sprain supraspinatus tendon Sprain subscapularis tendon Sprain shoulder joint posterior Sprain shoulder joint anterior Sprain shoulder joint Sprain acromio-clav ligament Sprain acromio-clav ligament Sprain - medial knee ligament Sprain - lateral knee ligament Sprain - lateral knee ligament			1
S5 Sprains and strains S50 Sprained shoulder S54y-99 Sprained knee NOS S54-99 Sprained knee S560 Sprain, lumbosacral ligament S564 Sprain, iliolumbar ligament S501 Sprain, coraco-clav ligament S506 Sprain supraspinatus tendon S505 Sprain subscapularis tendon S507 Sprain shoulder joint posterior S507 Sprain shoulder joint anterior S503 Sprain patellar tendon S503 Sprain infraspinatus tendon S500 Sprain acromio-clav ligament S542 Sprain - cruciate knee ligament S541 Sprain - medial knee ligament S541-99 Sprain - lateral knee ligament S540 Sprain - lateral knee ligament		· · · · · · · · · · · · · · · · · · ·	1
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Sprain shoulder joint anterior Sprain shoulder joint Sprain patellar tendon Sprain infraspinatus tendon Sprain acromio-clav ligament Sprain -cruciate knee ligament Sprain - medial knee ligament Sprain - medial knee ligament Sprain - lateral knee ligament Sprain - lateral knee ligament Sprain - lateral knee ligament		·	1
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Sprain - medial knee ligament Sprain - medial knee ligament Sprain - medial knee ligament Sprain - lateral knee ligament Sprain - lateral knee ligament		·	1
S541-99 Sprain - medial knee ligament S540-99 Sprain - lateral knee ligament S540 Sprain - lateral knee ligament		· · · · · · · · · · · · · · · · · · ·	1
S540-99 Sprain - lateral knee ligament Sprain - lateral knee ligament		· · · · · · · · · · · · · · · · · · ·	1
S540 Sprain - lateral knee ligament		· · · · · · · · · · · · · · · · · · ·	1
- Tatalan Marana		· · · · · · · · · · · · · · · · · · ·	1
Sprain - late effect		· · · · · · · · · · · · · · · · · · ·	1
GP-500-1500	3007	Sprain - late effect	1

Read code	Description	Number of
S57X	Spr/str ot/un pt lum sp/pel	studies 1
ASDFGSP5	Sports Injury	1
N082	Spontaneous joint dislocation	1
16B3	Spontaneous bruising	1
N11z0	Spondylosis-no myelopathy,NOS	1
N11zz	Spondylosis NOS	1
N11z1	· · ·	1
N388	Spondylosis + myelopathy, NOS	_
OXL7561C	Spondylolysis	1
N10z	Spondylolisthesis /ox	1
N374	Spondylitis NOS	1
N374z	Spine curvature+other condits.	1
	Spine curvature+other cond.NOS	1
N1400	Spinal stenosis unspec.region	1
N140z	Spinal stenosis NOS	1
N140-1	Spinal stenosis	1
N140	Spinal stenosis	1
N101	Spinal enthesopathy	1
N222z	Specific bursitides NOS	1
N222	Specific bursitides	1
F1382	Spasmodic Torticollis	1
N23y4	Spasm of muscle	1
N23yE	Spasm of back muscles	1
EGTON309	Sore Neck	1
N3321	Solitary bone cyst	1
N0878	Snapping shoulder	1
N32y	Slipped radial epiphysis	1
N33zA	Skeletal fluorosis	1
N002*	Sicca (Sjogren's) syndrome	1
N2125	Shoulder tendonitis	1
S50y	Shoulder sprain NOS	1
N245-7	Shoulder pain	1
N245	Shoulder pain	1
N2457	Shoulder pain	1
N0951	Shoulder joint stiffness	1
UNMAPPC0	Shoulder injury	1
S221	Shoulder injury Shoulder fracture - open Short tendon Sex acquired reactive arthrop	1
N22y5	Short tendon	1
N011	Sex acquired reactive arthrop	1
N0110	Sex acqd reac arthrop-unspec	1
N0111	Sex acqd reac arthrop-shoulder	1
N011y	Sex acqd reac arthrop-oth spec	1
N011x	Sex acqd reac arthrop-multiple	1
N011z	Sex acq reac arthropathy NOS	1
SRz0	Severe multiple injuries	1
N047	Seropositive errosive RA	1
N04X	Seroposit rheum arthr unsp	1
N040P	Seronegative rheumat arthritis	1
EGTONSE2	Sero-Negative Polyarthritis	1
N04y1	Sero negative arthritis	1
N04y10	Sero negative arthritis	1
N3301	Senile osteoporosis	1
N2169	Semimembranosus tendinitis	1
EGTON131	Semi Frozen Shoulder	1
		•

Read code	Description	Number of studies
N3y00	Segmental & somatic dysfunctn	1
N0505	Secondary multiple arthrosis	1
N050500	Secondary multiple arthrosis	1
EMISNQSC20	Scoliosis of thoracic spine	1
N374A	Scoliosis in skelet dysplasia	1
N374C	Scoliosis in neurofibromatosis	1
N374D	Scoliosis in conn tiss anomal	1
N3739	Scoliosis due to oth treatment	1
OX735AA	Scoliosis Acquired /ox	1
N3743	Scoliosis + other condition	1
N001	Scleroderma	1
OX353C	Sciatica Chronic /ox	1
N1240	Schmorl's nodes-unspec. region	1
N1241	Schmorl's nodes-thoracic regn.	1
N124z	Schmorl's nodes-region NOS	1
N1242	Schmorl's nodes-lumbar region	1
N124	Schmorl's nodes	1
N3201	Scheuermann's disease	1
N2121	Scapulohumeral fibrositis	1
N146z-1	Sacroiliac strain	1
N1466	Sacroiliac disorder	1
S5731	Sacral/coccyx sprain	1
N0004	SLE with pericarditis	1
N25	SAPHO syndrome	1
S5Q2	Rupture supraspinatus tendon	1
S5Q1	Rupture subscapularis tendon	1
S5U2	Rupture patellar tendon	1
N2250	Rupture of synovium unspecif.	1
N225z	Rupture of synovium NOS	1
N2251-99	Rupture of synovium - knee	1
N225	Rupture of synovium	1
S5Q0	Rupture infraspinatus tendon	1
N2251	Ruptur poplit space synov cyst	1
N2110	Rotator cuff syndrome unspecif	1
S504	Rotator cuff sprain	1
N211	Rotator cuff shoulder syndrome	1
N2261	Rotator cuff complete rupture	1
N3385	Rotational mal-union of #	1
182B	Rib pain	1
EGTON425	Rheumatology	1
N040N	Rheumatoid vasculitis	1
N0422	Rheumatoid nodule	1
N0422 N040R	Rheumatoid nodule	1
N0401		
N0421 N040Q	Rheumatoid lung disease Rheumatoid bursitis	1
N040Q N0402		1
N0402 N0400	Rheumatoid arthritis-shoulder	1
N0400 N040D	Rheumatoid arthritis-Cx spine	1
	Rheumatoid arthritis of knee	1
N040	Rheumatoid arthritis	1
N0403	Rheumatoid arthr-sternoclav jt	1
N0404	Rheumatoid arthr-acromioclav j	1
N1351	Rheumatic torticollis	1
N0420	Rheumatic carditis	1

Read code	Description	Number of
OX7149A		studies
N040S	Rheumatic Arthritis /ox	1
N2333	Rheumat arthr - multiple joint	1
N042z	Rhabdomyolysis	1
N080A	Rh.arthr.+visc/syst.dis.NOS	1
N0871	Reverse Hill-Sachs lesion Reverse Bankart lesion	1
N12zA		1
N12zE	Resorption of thoracic disc	1
N12z6	Resorption of lumbar disc	1
N3732	Resorption of cervical disc	1
N246	Resolving infant.idiopath.scol	1
N339	Residual soft tiss foreign bod	1
	Residual foreign body in bone	1
Ny2	Repetitive strain injury	1
N33z5	Relapsing polychondritis	1
N337	Reflex sympathetic dystrophy	1
N083	Redislocation of joint	1
S46D	Recurrent subluxation of patella	1
N083D	Recurrent sublux shoulder-post	1
N083F	Recurrent sublux shoulder-inf	1
N083C	Recurrent sublux shoulder-ant	1
N083H	Recurrent sublux shoulder-ant	1
N083q	Recurrent sublux - patella	1
N083z	Recurrent joint dislocat.NOS	1
N0839	Recurrent disloc-multip joints	1
N083B	Recurrent disloc shoulder-post	1
N083E	Recurrent disloc shoulder-inf	1
N083A	Recurrent disloc shoulder-ant	1
N083G	Recurrent disloc shoulder-ant	1
N083p	Recurrent disloc - patella	1
N083n	Recurrent disloc - knee	1
N0830	Recurr.joint dislocsite unsp	1
N0838	Recurr.joint disloc-other spec	1
N0831	Recur. disloc shoulder joint	1
N0836-99	Recur. disloc knee joint	1
N083K	Recur sublux shoulder-multidir	1
N083J	Recur disloc shoulder-multidir	1
N1y0	Rec atlantoax subl + myelopath	1
N01w0	Reactive arthropathy-shoulder	1
N01w	Reactive arthropathy unspecified	1
N01wB	Reactive arthropathy of knee	1
N038	Reactive arthropathies	1
N01w2	Reactive arthrop-sternoclav jt	1
N01w1	Reactive arthr-acromioclav jt	1
EGTON436	Radiculopathy	1
N2422	Radiculitis unspecified	1
N3734	Radiation scoliosis	1
N3711	Radiation kyphosis	1
N0706	Radial tear of medial meniscus	1
N0717	Radial tear of lateral meniscus	1
N2204	Radial styloid tenosynovitis	1
N22yC	Pyogenic infec - tendon sheath	1
N010	Pyogenic arthritis	1
N0100	Pyogenic arthrsite unspecif.	1

Read code	Description	Number of studies
N0101	Pyogenic arthrshoulder regn.	1
N010y	Pyogenic arthrother specif.	1
N010x	Pyogenic arthrmultiple sites	1
N010z	Pyogenic arthrNOS	1
S57z0	Pulled back muscle	1
OX848ML	Pulled Muscle /ox	1
E2601	Psychogenic Torticollis	1
N2373	Pseudosarcomatous fibromatosis	1
N33zC	Pseudarth after fusn/arthrodes	1
S5422	Prt tr,knee,post cruciate Igmt	1
N12C4	Prol lumb interv disc sciatic	1
N0010	Progressive systemic sclerosis	1
N2311	Progressive myositis ossific.	1
N3733	Progressive infant.idiop.scol.	1
N051B	Primary gonarthrosis, bilat	1
N050400	Primary general osteoarthrosis	1
N0504	Primary general osteoarthrosis	1
N0519	Primary coxarthrosis bilateral	1
N051C	Primary arthrosis of first carpometacarpal joints,	'
110310	bilateral	1
N2165	Prepatellar bursitis	1
N3736	Postural scoliosis	1
N3307	Postsurg malabsorp osteoporos	1
N3314	Postsur malab osteop+path frct	1
NyX	Postproc muscsk disord,unsp	1
N2313	Postop.heterotopic calcificat.	1
N3306	Postoophorectomy osteoporosis	1
N3312	Postoophorc osteopor+path frct	1
N3302	Postmenopausal osteoporosis	1
N331B	Postmenop osteopor+path fract	1
N0380	Postmeningococcal arthritis	1
N12Az	Postlaminectomy syndrome NOS	1
N12A	Postlaminectomy syndrome	1
N12A0		
N0381	Postlaminectomy syndr.unspec.	1
N037	Posting arthropath in syphilis	1
N037	Postimmunization arthropathy	1
N0130	Postdysenteric react arthrop	1
N0130	Postdys react arthrop-unspec	1
N0131	Postdys react arthrop-shoulder	1
•	Postdys react arthrop-oth spec	1
N013x	Postdys react arthrop-multiple	1
N013z	Postdys react arthrop NOS	1
16B4	Post-traumatic bruising	1
N052B	Post-traumatic arthrosis of first carpometacarpal	4
NOSOC	joints, bilateral	1
N052C	Post-trauma gonarth, unilat	1
N052A	Post-traum gonarthrosis, bilat	1
N0529	Post-traum coxarthrosis, bilat	1
N3738	Post-surgical scoliosis	1
N3721	Post-laminectomy lordosis	1
N3712	Post-laminectomy kyphosis	1
N2314	Polymyositis ossificans	1
N004	Polymyositis	1

Read code	Description	Number of studies
N20*	Polymyalgia rheumatica	Studies 1
N20	Polymyalgia	1
N065-1	Polyarthropathy NEC	1
N065.11	Polyarthropathy NEC	1
N065	Polyarthropathy NEC	1
N065z	Polyarthritis	1
N065z00	Polyarthritis	1
N307z	Poliomyelitis osteopathy NOS	1
N3070	Polio.osteopathy-site unspecif	1
N3071	Polio.osteopathy-shoulder	1
N3078	Polio.osteopathy-other sites	1
N3079	Polio.osteopathy-multiple site	1
N0109	Pneumococc arthrit & polyarthr	1
N2179	Plantar fasciitis	1
N2209	Plant thorn synovitis	1
N2161	Pes anserinus tendin./bursitis	1
SJz-98	Peripheral nerve injury NOS	1
N21zz	Peripheral enthesopathy NOS	1
N21	Peripheral enthesopathies	1
N0705	Periph detach-medial meniscus	1
N0716	Periph detach-lateral meniscus	1
N303	Periostitis, no osteomyelitis	1
N303B	Periostitis, no osteomye-th sp	1
N303C	Periostitis, no osteomye-lu sp	1
N303A	Periostitis, no osteomye-Cx sp	1
N303z	Periostitis no osteomyel NOS	1
N3030	Periostitis - site unspecified	1
N3031	Periostitis - shoulder	1
N3038	Periostitis - other sites	1
N3039	Periostitis - multiple sites	1
N2120	Periarthritis of shoulder	1
N21z1	Periarthritis NOS	1
N3843	Pedicular spondylolisthesis	1
N0432	Pauciarticular juvenile R.A.	1
N0456	Pauciartic onset juv ch arth	1
N331y	Pathological fracture OS	1
N331z	Pathological fracture NOS	1
N082z	Pathological dislocation NOS	1
N331C	Pathological # cervical vert	1
N0820	Patholog.dislocsite unspecif	1
N0821	Patholog.dislocshoulder	1
N0828	Patholog.dislocother specif.	1
N082A	Path disloc-shoulder joint	1
N082R	Path disloc-patellofem joint	1
N082B	Path disloc-oth joint-shoulder	1
N0829	Path disloc-multiple joints	1
N082Q	Path disloc-knee joint	1
N0536-1	Patellofemoral osteoarthritis	1
N0536	Patellofemoral osteoarthritis	1
N07y6	Patellofemoral maltracking	1
N09A	Patellofemoral disorder	1
N2266	Patellar tendon nontraum.rupt.	1
N2164	Patellar tendinitis	1
	·	

Read code	Description	Number of studies
N33z9	Partial epiphyseal arrest	1
S5421	Part tr,knee,ant cruciate Igmt	1
N2114	Part thickn rotator cuff tear	1
S5411	Part tear,knee,mdl collat lgmt	1
S5401	Part tear,knee,lat collat lgmt	1
N1y2	Pars interarticular strss frct	1
N0704	Parr beak tear-post/med menisc	1
N0715	Parr beak tear-post/lat menisc	1
N2316	Paralytic calcific/ossif muscl	1
N243	Panniculitis unspecified	1
N136	Panniculitis of neck	1
N243z	Panniculitis NOS	1
N093z	Palindromic rheumatism NOS	1
N093	Palindromic rheumatism	1
N0930	Palindromic rheumsite unspec	1
N0931	Palindromic rheumshoulder	1
N0938	Palindromic rheumother spec.	1
N0939	Palindromic rheummultip.site	1
N211z	Painful arc syndrome	1
N211z-1	Painful arc syndrome	1
EGTON224	Painful Shoulder	1
EGTON279	Painful Right Knee	1
N131-1	Pain in cervical spine	1
N245-9	Pain in buttock	1
N2453	Pain in arm	1
OX7280AD	Pain Neck /ox	1
OX7873E	Pain Knee /ox	1
N245-95	Pain In Right Leg	1
N245-97	Pain In Right Arm	1
N245-96	Pain In Left Leg	1
N3101	Paget's disease-thoracic spine	1
N3106	Paget's disease-scapula	1
N310F	Paget's disease-patella	1
N310x	Paget's disease-multiple sites	1
N3102	Paget's disease-lumbar spine	1
N3105	Paget's disease-clavicle	1
N3100	Paget's disease-cervical spine	1
N310y	Paget's disease OS	1
N310z	Paget's disease NOS	1
N122-1	PID - prolapsed lumbar disc	1
N129	PID - prol i/v disc + myelop	1
S102y	Othr spec clsd # thorac vert	1
S411y	Othr opn trmtc disloctn shider	1
S410y	Othr cls trmtc disloc shoulder	1
SK12z	Othershould/upperarminj.NOS	1
SE08	Othercontusionneck	1
N0600	Other/unspecif. arthropathies	1
N12z2	Other thoracic disc disorders	1
N22	Other synovium/tendon/bursa	1
N22y	Other synovium/tendon/bursa	1
N096B	Other symptoms - sternoclav jt	1
N096A	Other symptoms - shoulder	1
N096M	Other symptoms - knee	1
	Other symptoms - knee	ı

Read code	Description	Number of studies
N096D	Other symptoms - elbow	1
N096C	Other symptoms - acromioclav j	1
SD9y	Other superficial injury, without mention of infection,	
05	NOS	1
S5y	Other sprains and strains	1
S5yz	Other sprains NOS	1
N11y	Other spondyloses/allied dis.	1
S5W	Other specified tendon rupture	1
S54w	Other specified knee sprain	1
SK1	Other specified injury	1
N06y	Other specified arthropathy	1
N233	Other specific muscle disorder	1
N04y	Other specif.infl.polyarthrop.	1
N32yz	Other spec.osteochondrop.NOS	1
N04yz	Other spec.infl.polyarthr.NOS	1
N00y	Other spec.diff.collagen dis.	1
N06y0	Other spec.arthrsite unspec.	1
N06y1	Other spec.arthrshoulder	1
N06y8	Other spec.arthrother specif	1
S5yy	Other spec sprains and strains	1
S50w	Other shoulder sprain	1
SK122	Other shoulder injuries	1
N212	Other shoulder affections NEC	1
N212z	Other shoulder affect.NEC NOS	1
SK121	Other scapular region injuries	1
N042	Other rh.arthr.+visc/syst.dis.	1
N3722	Other post-surgical lordosis	1
N21y	Other periph. enthesopathies	1
N3272	Other osteochondr dissec-knee	1
S466	Other opn trm dslctn knee	1
S497	Other open trmtc dislocation	1
S49Fz	Other open subluxation NOS	1
S4J3	Other open #-subluxation	1
S4J1	Other open #-dislocation	1
N226z	Other nontraumatic tendon rupt	1
SK10y SK1x	Other neck injuries	1
N12z3	Other multiple injuries	1
	Other lumbar disc disorders	1
N07yy SK170	Other knee lig. old disruption	1
N368	Other knee injury	1
N045	Other knee deformity	1
N326	Other juven actors handress	1
N0960	Other juven.osteochondroses	1
N0961	Other joint sympt, site unspec	1
N09y1	Other joint symptshoulder	1
N08yz	Other joint disshoulder	1
SK112	Other joint derange.NEC NOS	1
N07yz	Other interscapular injuries	1
SK1z	Other intern.knee derang.NOS	1
N10y	Other injury NOS	1
N10y	Other inflamm spondylop NOS	1
N30y	Other inflamm.spondylop.NOS Other infections+bone disease	1
1400 y	Other infections-bone disease	1

Read code	Description	Number of studies
N03x	Other general dis.+arthropathy	1
N237z	Other fibromatoses NOS	1
N237	Other fibromatoses	1
SK10z	Other face and neck injuries NOS	1
S49z	Other dislocation NOS	1
N12z0	Other disc disorders unspecif.	1
N08	Other derangement of joint	1
N36y	Other deformity of bone	1
N37y	Other curvatures of spine	1
N02yz	Other crystal arthropathy NOS	1
N02y	Other crystal arthropathies	1
N02y0	Other crystal arthsite unsp.	1
N02y1	Other crystal arthshoulder	1
N02yy	Other crystal arthother spec	1
N02yx	Other crystal arthmult.sites	1
S465	Other cls trm dslctn knee	1
S49E	Other closed traumatic sublux	1
S4J2	Other closed #-sublux	1
S4J0	Other closed #-dislocation	1
N13yz	Other cervical syndromes NOS	1
N13y N12z1	Other cervical syndromes	1
	Other cervical disc disorders	1
N33	Other bone/cartilage disorders	1
N31y SK114	Other bone involve in dis.EC	1
N374X	Other back injuries	1
N06	Other and unspecified kyphosis	1
S462	Other and unspecified arthropathies	1
N38yz	Other acute meniscus tear	1
N38y	Other acquired deformity NOS	1
N38	Other acquired deformity  Other acquired deformity	1
S4J	Other #-dslc or subluxation	1
N08y0	Other #-usic or subluxation Oth.joint deran.NEC-site unsp.	1
N08y1	Oth.joint deran.NEC-shoulder	1
N08y8	Oth.joint deran.NEC-other spec	1
N08y9	Oth.joint deran.NEC-mult.sites	1
N30y0	Oth.inf.+bone dis-site unspec.	1
N30y1	Oth.inf.+bone dis-shoulder	1
N30y8	Oth.inf.+bone dis-shoulder Oth.inf.+bone dis-other sites	1
N30y9	Oth.inf.+bone dis-multip.site	1
N30yz	Oth.inf.+bone dis-NOS	1
N07y	Oth. internal knee derangement	1
S49	Oth, mlti+ill-def dislc/sublux	1
N0401	Oth rheumatoid arthritis-spine	1
S49F	Oth open traumatic subluxation	1
SRy	Oth inj inv mult body reg NEC	1
S496	Oth cls trmatic dislocation	1
S49Ez	Oth closed subluxation NOS	1
N33B	Osteoradionecrosis	1
N3746	Osteoporotic kyphosis	1
N3300	Osteoporosis unspecified	1
N330C	Osteoporosis localized spine	1
N330A	Osteoporosis in endocr disord	1
	Osteopolosis ili chaodi alsola	1

Read code	Description	Number of
N330z	Osteoporosis NOS	studies
N330	Osteoporosis	1
N330D	Osteoporos due corticosteroid	1
N3309	Osteopor, multiple myelomatosis	1
N3319	Osteopor path # thor vertebrae	1
N3318	Osteopor path # lumb vertebrae	1
N331A	Osteopor path # cerv vertebrae	1
N3313	Osteopor of disuse + path frct	_
N09B	·	1
N307	Osteophyte	1
ASDFGOS1	Osteopathy from poliomyelitis	1
N334B	Osteopaenia	1
N3349	Osteonecrosis in caisson dis	1
N334A	Osteonecrosis due to drugs	1
N334C	Osteonecr due to prev trauma	1
	Osteonecr due haemoglobinopath	1
N30	Osteomyelitis/periostitis	1
N302a	Osteomyelitis of vertebra	1
N302	Osteomyelitis NOS	1
N33zH	Osteolytic lesion	1
N33zD	Osteolysis	1
N32z3	Osteochondrosis NOS	1
N32z	Osteochondropathy NOS	1
N32zz	Osteochondropathy NOS	1
N32	Osteochondropathies	1
N32z2	Osteochondritis of knee	1
N3270	Osteochondritis dissec-patella	1
N327y	Osteochondr dissec-other site	1
N3274	Osteochondr dissec-capitellum	1
N327	Osteochond dissecans	1
OX7130E	Osteoarthrosis Shoulder /ox	1
OX7130B	Osteoarthrosis Knee(S) /ox	1
OX7131A	Osteoarthrosis Cervical Spine /ox	1
N11z	Osteoarthritis spine	1
N11D1	Osteoarthritis of thoracic spine	1
N11D3	Osteoarthritis of spine NOS	1
N11-2	Osteoarthritis of spine	1
N11D	Osteoarthritis of spine	1
N11D2	Osteoarthritis of lumbar spine	1
N11D0	Osteoarthritis of cervical spine	1
N110-2	Osteoarthritis cervical spine	1
N05z0	Osteoarthritis NOS-site unspec	1
N05z000	Osteoarthritis NOS-site unspec	1
N05z7	Osteoarthritis NOS-ankle/foot	1
N05zM	Osteoarthritis NOS, of tibio-fibular joint	1
N05zQ	Osteoarthritis NOS, of talonavicular joint	1
N05zK	Osteoarthritis NOS, of sacro-iliac joint	1
N05zR	Osteoarthritis NOS, of other tarsal joint	1
N05zF	Osteoarthritis NOS, of metacarpophalangeal joint	1
N05zT	Osteoarthritis NOS, of lesser metatarsophalangeal	
	joint	1
N05zU	Osteoarthritis NOS, of interphalangeal joint of toe	1
N05zD	Osteoarthritis NOS, of distal radio-ulnar joint	1
N05zE	Osteoarthritis NOS of wrist	1

N0524         Osteoarthritis NOS of the hand           N0521         Osteoarthritis NOS of knee           N052J         Osteoarthritis NOS of lip           N052C         Osteoarthritis NOS of elbow           N052N         Osteoarthritis NOS of elbow           N052N         Osteoarthritis NOS           N0522         Osteoarthritis NOS           N0521         Osteoarthritis -shoulder joint           N05280         Osteoarthritis - other joint           N0528         Osteoarthritis - other joint           N05280         Osteoarthritis - other joint           N05280         Osteoarthritis - other joint           N05281         Osteoarthritis - whee joint           N0529         Osteoarthritis - other joint           N0529         Osteoarthritis           N05         Osteoarthritis - other joint           N0529         Osteoarthrit	Read code	Description	Number of studies
N05zl         Osteoarthritis NOS of kine           N05zJ         Osteoarthritis NOS of elibow           N05zC         Osteoarthritis NOS of elibow           N05zN         Osteoarthritis NOS           N05zZO         Osteoarthritis NOS           N05zZ         Osteoarthritis - Shoulder joint           N05z8         Osteoarthritis - other joint           N05z8         Osteoarthritis - other joint           N05z8         Osteoarthritis - other joint           N05z8         Osteoarthritis           N05z8         Osteoarthritis           N05z8         Osteoarthritis           N05z8         Osteoarthritis           N05z8         Osteoarthritis           N05z9         Osteoarthritis           N05         Osteoarthritis           N05         Osteoarthritis           N31         Osteoarthritis           N31         Osteitis deformans-Paget's dis           N311         Osteitis condensans ili           N335         Osteitis condensans ili           N335         Osteitis condensans ili           N340         Osteitis condensans ili           N3y03         Osseous stenos of neural canal           N3y06         Ossisubix steni interver foram	N05z4	Osteoarthritis NOS of the hand	1
N05zJ         Osteoarthritis NOS of hip           N05zC         Osteoarthritis NOS of elbow           N05zN         Osteoarthritis NOS           N05z200         Osteoarthritis NOS           N05z1         Osteoarthritis - shoulder joint           N05z1         Osteoarthritis - other joint           N05z8         Osteoarthritis - other joint           N05z6-99         Osteoarthritis - knee joint           N05.11         Osteoarthritis           N05         Osteoarthritis           N05         Osteoarthritis           N310         Osteitis deformans-Paget's dis           N311         Osteitis deformans-Paget's dis           N335         Osteitis condensans lii           N336         Osteitis condensans           N311         Osteitis condensans           N3110         Osteitid deform/osteop,+dis-EC           N3110         Osteit deformans,neoplast dis           N3y03         Osseous stenos of neural canal           N3y06         Oss/subix sten intervert foram           S900z         Opn word shoulder+up limb, NOS           SA10         Opn trmc sublux hose jt, unsp           S468a         Opn trmc sublux hose jt, unsp           S468b         Opn trmc sublux knee jt, unsp <tr< td=""><td></td><td>Osteoarthritis NOS of shoulder</td><td>1</td></tr<>		Osteoarthritis NOS of shoulder	1
N052C         Osteoarthritis NOS of elbow           N052N         Osteoarthritis NOS           N052Z0         Osteoarthritis NOS           N052Z         Osteoarthritis NOS           N052B0         Osteoarthritis - other joint           N052800         Osteoarthritis - other joint           N0528         Osteoarthritis - other joint           N0526-99         Osteoarthritis           N0511         Osteoarthritis           N05         Osteoarthritis           N05         Osteoarthritis           N310         Osteoarthritis           N311         Osteitis deformans-Paget's dis           N311         Osteitis deformans-Paget's dis           N3350         Osteitis condensans illi           N3353         Osteitis condensans illi           N3110         Osteit deform/osteop.+dis.EC           N3110         Osteit deform/osteop.+dis.EC           N3903         Osseous stenos of neural canal           N3y03         Osseous stenos of neural canal           N3y06         Oss/sublx sten intervert foram           S900z         Opn wound shoulder+up limb.NOS           SA10         Opn trmt sublux steneigt-mak-no cmpletn           S468a         Opn trmt sublux sheej it.           S	N05zL	Osteoarthritis NOS of knee	1
N05zN         Osteoarthritis NOS           N05z200         Osteoarthritis NOS           N05z1         Osteoarthritis -shoulder joint           N05z800         Osteoarthritis - other joint           N05z802         Osteoarthritis - other joint           N05z8-99         Osteoarthritis           N05x11         Osteoarthritis           N054K         Osteoarthritis           N05         Osteoarthritis           N310         Osteitis deformans-Paget's dis           N311         Osteitis deformans-Paget's dis           N311         Osteitis deformans-Paget's dis           N335         Osteitis condensans ili           N335         Osteitis condensans           N311         Osteit deform./ Josteop. + dis. EC           N3110         Osteit deform./ Josteop. + dis. EC           N3110         Osteit deform./ Josteop. + dis. EC           N3110         Osteit deform./ Josteop. + dis. EC           N3906         Oss/sublx sten intervert foram           S900z         Opn wond shoulder-tup limb, NOS           S406         Oss/sublx sten intervert foram           S406A6         Opn trmtc sublux shoulder NOS           S4686         Opn trmtc sublux spat-fem jt           S4686         Opn trmtc sublux spat-fe	N05zJ	Osteoarthritis NOS of hip	1
N05z20         Osteoarthritis NOS           N05z2         Osteoarthritis - Shoulder joint           N05z800         Osteoarthritis - other joint           N05z82         Osteoarthritis - other joint           N05z83         Osteoarthritis - other joint           N05z6-99         Osteoarthritis           N05.11         Osteoarthritis           N05         Osteoarthritis           N05         Osteoarthritis           N310         Osteoarthritis           N311         Osteitis deformans-Paget's dis           N311         Osteitis deformans-disease EC           N3350         Osteitis condensans illi           N335         Osteitis condensans           N311         Osteit deformans-neoplast dis           N3303         Osteit deformans-neoplast dis           N3y03         Osseous stenos of neural canal           N3y06         Ossi/sublx stein intervert foram           S900z         Opn would shoulder-tup limb, NOS           S410         Opn trmtc sublux have fibula           S4132         Opn trmtc sublux, shoulder NOS           S468         Opn trmtc sublux knee ji, nost           S468.2         Opn trmtc sublux knee ji, inst           S46A2         Opn trmc sublux knee ji, nost	N05zC	Osteoarthritis NOS of elbow	1
N05zz         Osteoarthritis -shoulder joint           N05z80         Osteoarthritis - other joint           N05z80         Osteoarthritis - other joint           N05z82         Osteoarthritis - other joint           N05z6-99         Osteoarthritis           N05.11         Osteoarthritis           N05.11         Osteoarthritis           N05         Osteoarthritis           N310         Osteitis deformans-Paget's dis           N311         Osteitis deformans-disease EC           N3350         Osteitis condensans ilii           N3351         Osteitis condensans           N311         Osteit deform./osteop.+dis. EC           N3110         Osteit deformans.neoplast dis           N3303         Osseous stenos of neural canal           N3y03         Osseous stenos of neural canal           N3y06         Oss/sublx sten intervert foram           S900z         Opn wund shoulder+up limb,NOS           SA10         Opn wind shoulder +up limb,NOS           S413z         Opn trmtc sublux, head fibula           S413z         Opn trmtc sublux pat-fem jt           S46A6         Opn trmtc sublux pat-fem jt           S46A0         Opn trmtc sublux knee jt,post           S46A1         Opn trmt sublux knee jt,lo	N05zN	Osteoarthritis NOS of ankle	1
N05z1         Osteoarthritis - other joint           N05z800         Osteoarthritis - other joint           N05z8         Osteoarthritis - other joint           N05z8-99         Osteoarthritis - knee joint           N05.11         Osteoarthritis           N094K         Osteoarthritis           N05         Osteoarthritis           N310         Osteitis deformans-Paget's dis           N311         Osteitis deformans-disease EC           N3350         Osteitis condensans           N311         Osteitis deformans-disease, etc           N3351         Osteitis condensans           N311         Osteit deformosteop, +dis, EC           N3110         Osteit deformans, neoplast dis           N3y03         Osteit deformans, neoplast dis           N3y03         Osseous stenos of neural canal           N3y06         Ossivabla sten intervert foram           S900z         Opn would shoulder+up limb, NOS           SA10         Opn was kneelg+ank-no empletn           S468A         Opn time sublux, shead fibula           S413z         Opn time sublux shoulder NOS           S468B         Opn time sublux knee jt, unsp           S46A2         Opn time sublux knee jt, itant           S46A3         Opn time sublux	N05zz00	Osteoarthritis NOS	1
N05z800         Osteoarthritis - other joint           N05z8         Osteoarthritis - knee joint           N05z8-99         Osteoarthritis - knee joint           N05.11         Osteoarthritis           N04K         Osteoarthritis           N05         Osteoarthritis           N310         Osteelits deformans-Paget's dis           N311         Osteitis deformans-disease EC           N3350         Osteitis condensans ilii           N335         Osteitis condensans           N311         Osteiti deform/osteop,+dis. EC           N3110         Osteiti deformans,neoplast dis           N3y03         Osseous stenos of neural canal           N3y06         Oss/subix sten intervert foram           S9002         Opn wound shoulder-up limb, NOS           S410         Opn wound shoulder-up limb, NOS           S4112         Opn trmtc sublux, head fibula           S4132         Opn trmtc sublux, head fibula           S4132         Opn trmtc sublux knee jt, unsp           S4680         Opn trmtc sublux knee jt, unsp           S4682         Opn trmtc sublux knee jt, littl           S4684         Opn trmtc sublux knee jt, littl           S4684         Opn trmtc sublux knee jt, littl           S4684         Op	N05zz	Osteoarthritis NOS	1
N0528         Osteoarthritis - knee joint           N0526-99         Osteoarthritis - knee joint           N05.11         Osteoarthritis           N094K         Osteoarthritis           N310         Osteitis Geformans-Paget's dis           N311         Osteitis Geformans-Paget's dis           N311         Osteitis Geformans-Paget's dis           N3350         Osteitis Geformans-Paget's dis           N3351         Osteitid Ceform/Osteop.+dis.EC           N3110         Osteitid Geform/Losteop.+dis.EC           N3110         Osteitid Geformans, neoplast dis           N3y03         Osseous stenos of neural canal           N3y06         Oss/subix sten intervert foram           S900z         Opn would shoulder+up limb, NOS           S401         Opn would shoulder hop limb, NOS           S406         Opn trmtc sublux, head fibula           S4132         Opn trmtc sublux shoulder NOS           S4688         Opn trmtc sublux knee jt, unsp           S46A0         Opn trmtc sublux knee jt, unsp           S46A2         Opn trmtc sublux knee jt, post           S46A3         Opn trmtc sublux knee jt, ant           S46A4         Opn trmt sublux knee jt, mat           S49F3         Opn trm sublux, st-clav jt, post	N05z1	Osteoarthritis -shoulder joint	1
N05z6-99         Osteoarthritis - knee joint           N0511         Osteoarthritis           N094K         Osteoarthritis           N05         Osteois deformans-Paget's dis           N310         Osteitis deformans-Paget's dis           N311         Osteitis condensans illi           N3350         Osteitis condensans           N31         Osteit deform./osteop.+dis.EC           N3110         Osteit deformans,neoplast dis           N3903         Osseous stenos of neural canal           N3y03         Osseous stenos of neural canal           N3y06         Oss/subbx sten intervert foram           S9002         Opn wond shoulder+up limb, NOS           SA10         Opn wond shoulder Hos           S46A6         Opn trmtc sublux, head fibula           S413z         Opn trmtc sublux shoulder NOS           S468         Opn trmtc sublux knee jt, unsp           S46A0         Opn trmtc sublux knee jt, unsp           S46A1         Opn trmtc sublux knee jt, post           S46A2         Opn trmtc sublux knee jt, ant           S46A3         Opn trmtc sublux knee jt           S46A4         Opn trmt sublux knee jt           S4112         Opn trmt disictn shoulder jnt           S4973         Opn trm sublux	N05z800	Osteoarthritis - other joint	1
N052-99         Osteoarthritis           N094K         Osteoarthritis           N05         Osteoarthritis           N05         Osteoitis deformans-Paget's dis           N310         Osteitis deformans-Paget's dis           N311         Osteitis condensans illi           N3350         Osteitis condensans           N31         Osteit deform./osteop.+dis.EC           N3110         Osteit deformans,neoplast dis           N3903         Osseous stenos of neural canal           N3y06         Oss/sublx sten intervert foram           S900z         Opn wond shoulder+up limb.NOS           SA10         Opn wond shoulder+up limb,NOS           SA11         Opn trmt sublux,head fibula           S46A6         Opn trmt sublux shoulder NOS           S413z         Opn trmt sublux shoulder NOS           S468         Opn trmt sublux knee jt,unsp           S46A0         Opn trmts sublux knee jt,unsp           S46A1         Opn trmts sublux knee jt,post           S46A2         Opn trmts sublux knee jt,littl           S46A3         Opn trmts sublux knee jt           S4112         Opn trmt sublux knee jt           S46A2         Opn trmt sublux knee jt           S4112         Opn trm sublux knee jt,post     <	N05z8	•	1
NO5. 11 NO94K Osteoarthritis NO5 NO5 Osteoarthritis N310 Osteitis deformans-Paget's dis N311 Osteitis deformans-Paget's dis N335 Osteitis condensans ilii N335 Osteitis condensans ilii N335 Osteitis condensans ilii N336 N311 Osteit deform./osteop.+dis.EC N3110 Osteit deformans-neoplast dis N3903 Osseous stenos of neural canal N3906 Oss/sublx sten intervert foram S900z Opn wound shoulder+up limb,NOS SA10 Opn wond shoulder+up limb,NOS SA10 Opn wond shoulder vup limb, NOS SA10 Opn trmtc sublux, head fibula S4132 Opn trmtc sublux, head fibula S46A6 Opn trmtc sublux shoulder NOS S468 Opn trmtc sublux knee jt,unsp Opn trmtc sublux knee jt,unsp N36A2 Opn trmtc sublux knee jt,unsp N36A3 Opn trmtc sublux knee jt,thtl S46A1 Opn trmtc sublux knee jt,thtl S46A2 Opn trmtc sublux knee jt,post S4112 Opn trmtc sublux knee jt,post S4112 Opn trmtc disloctn shoulder NOS S49F1 Opn trmt disloctn shoulder NOS S49F3 Opn trm sublux,st-clav jt,nost S49F3 Opn trm sublux,st-clav jt,ant S49F3 Opn trm sublux st-clav jt,tost S49F3 Opn trm sublux pat-fem jt,thtl S46A3 Opn trm sublux pat-fem jt,thtl S46A4 Opn trm sublux pat-fem jt,thtl S46A5 Opn trm sublux laryngl cartlge S46A64 Opn trm sublux laryngl cartlge S46A64 Opn trm sublux knee jt,roatry S46A64 Opn trm sublux knee jt,roatry S46A64 Opn trm sublux knee jt,roatry S46A64 Opn trm sublux heee jt,roatry S46A64 Opn trm disctn heee, in,spec S46A64 Opn trm disctn knee, in,spec	N05z6-99	•	1
NO5 N310 Osteitis deformans-Paget's dis N311 Osteitis deformans-Hajesase EC N3350 Osteitis condensans ilii N335 Osteitis condensans N31 Osteitis condensans N31 Osteit deform./osteop.+dis.EC N3370 N311 Osteit deformans,neoplast dis N3903 Osseous stenos of neural canal N3906 Oss/subbx sten intervert foram S9002 Opn wound shoulder+up limb,NOS SA10 Opn wind kneelg+ank-no cmplctin S46A6 Opn trmtc sublux, head fibula Opn trmtc sublux pat-fem jt S46A0 Opn trmtc sublux pat-fem jt S46A4 Opn trmtc sublux knee jt,tunsp Opn trmtc dislotin shouldr NOS Opn trmtc dislotin shoulder int Opn trmtc dislotin shoulder jnt Opn trmt dislotin shoulder jnt Opn trm sublux, st-clav jt, post Opn trm sublux st-clav jt, post Opn trm sublux pat-fem jt,trd Opn trm sublux knee jt, rotatry Opn trm dislctn pat-fem jt, med Opn trm dislctn pat-fem jt med Opn trm dislctn pat-fem jt, med Opn trm dislctn pat-fem jt hat Opn trm dislctn pat-fem jt hat Opn trm dislctn pat-fem jt hat Opn trm dislctn pat-fem jt, med Opn trm dislctn pat-fem jt hat Opn trm dislctn knee, it, pospec	N0511		1
NO5 N310 Osteitis deformans-Paget's dis N311 Osteitis deformans-Hajesase EC N3350 Osteitis condensans ilii N335 Osteitis condensans N31 Osteitis condensans N31 Osteit deform./osteop.+dis.EC N3370 N311 Osteit deformans,neoplast dis N3903 Osseous stenos of neural canal N3906 Oss/subbx sten intervert foram S9002 Opn wound shoulder+up limb,NOS SA10 Opn wind kneelg+ank-no cmplctin S46A6 Opn trmtc sublux, head fibula Opn trmtc sublux pat-fem jt S46A0 Opn trmtc sublux pat-fem jt S46A4 Opn trmtc sublux knee jt,tunsp Opn trmtc dislotin shouldr NOS Opn trmtc dislotin shoulder int Opn trmtc dislotin shoulder jnt Opn trmt dislotin shoulder jnt Opn trm sublux, st-clav jt, post Opn trm sublux st-clav jt, post Opn trm sublux pat-fem jt,trd Opn trm sublux knee jt, rotatry Opn trm dislctn pat-fem jt, med Opn trm dislctn pat-fem jt med Opn trm dislctn pat-fem jt, med Opn trm dislctn pat-fem jt hat Opn trm dislctn pat-fem jt hat Opn trm dislctn pat-fem jt hat Opn trm dislctn pat-fem jt, med Opn trm dislctn pat-fem jt hat Opn trm dislctn knee, it, pospec	N094K	Osteoarthritis	1
N310 Osteitis deformans-Paget's dis N311 Osteitis deformans-disease EC N3350 Osteitis condensans ilii N335 Osteitis condensans N31 Osteit deform/osteop.+dis.EC N3110 Osteit deformans,neoplast dis N3903 Osseous stenos of neural canal N3y06 Oss/sublx sten intervert foram S900z Opn wound shoulder+up limb,NOS S410 Opn wnd kneelg+ank-no cmplctn S46A6 Opn trmtc sublux,head fibula S413z Opn trmtc sublux pat-fem jt S46A2 Opn trmtc sublux knee jt,unsp S46A4 Opn trmtc sublux knee jt,unsp S46A4 Opn trmtc sublux knee jt,tent S46A4 Opn trmtc sublux knee jt,itrl S46A4 Opn trmtc sublux knee jt S4112 Opn trmtc dislotn shoulder NOS S4112 Opn trmtc dislotn shouldr NOS S4110 Opn trmtc dislotn shouldr NOS S4110 Opn trmt dislotn shouldr NOS S4110 Opn trmt dislotn shouldr NOS S41110 Opn trmtc dislotn shouldr NOS S4110 Opn trmt sublux,st-clav jt,post S49F4 Opn trm sublux,st-clav jt,ant S49F3 Opn trm sublux st-clav jt, ant S49F3 Opn trm sublux pat-fem jt,med S46B1 Opn trm sublux pat-fem jt,med S46B3 Opn trm sublux knee jt, rotatry S46B4 Opn trm sublux knee jt, rotatry S46B5 Opn trm sublux knee jt, rotatry S46B60 Opn trm sublux knee jt, rotatry S46B64 Opn trm dislotn pat-fem jt, med S46B60 Opn trm dislotn pat-fem jt, med	N05		1
N311 Osteitis deformans+disease EC N3350 Osteitis condensans ilii N3351 Osteitis condensans N31 Osteit deform./osteop.+dis.EC N3110 Osteit deformans,neoplast dis N3y03 Osseous stenos of neural canal N3y06 Oss/sublx sten intervert foram S900z Opn wound shoulder+up limb,NOS SA10 Opn wound shoulder+up limb,NOS SA10 Opn would shoulder hold limb, NOS SA10 Opn trmtc sublux,head fibula S46A6 Opn trmtc sublux shoulder NOS S468 Opn trmtc sublux pat-fem jt S46A0 Opn trmtc sublux knee jt,unsp S46A2 Opn trmtc sublux knee jt,unsp S46A4 Opn trmtc sublux knee jt,ltrl S46A1 Opn trmtc sublux knee jt,ltrl S46A2 Opn trmtc sublux knee jt S46A4 Opn trmtc sublux knee jt S46A4 Opn trmtc sublux knee jt S46A6 Opn trmtc dislotn shouldr NOS S4112 Opn trmtc dislotn shouldr NOS S4110 Opn trmtc dislotn shouldr NOS S4110 Opn trmtc dislotn shouldr jnt S49F4 Opn trm sublux,st-clav jt,post S49F3 Opn trm sublux,st-clav jt,net S49F2 Opn trm sublux st-clav jt S46B1 Opn trm sublux pat-fem jt,ltrl S46B0 Opn trm sublux pat-fem jt,ltrl S46B1 Opn trm sublux pat-fem jt,med S46B3 Opn trm sublux knee jt,rotatry S46B4 Opn trm sublux knee jt,rotatry S46B66 Opn trm sublux knee jt,medial S46B1 Opn trm sublux knee jt,medial S46B4 Opn trm dislotn, head fibula S46B4 Opn trm dislotn pat-fem jt lat S46B60 Opn trm dislotn pat-fem jt lat S46B60 Opn trm dislotn knee jt,lateral	N310		1
N3350 N335 Osteitis condensans ilii N335 Osteitis condensans N31 Osteit deform./osteop.+dis.EC N3110 Osteit deformans,neoplast dis N3y03 Osseous stenos of neural canal N3y06 Oss/subix sten intervert foram S900z Opn wound shoulder+up limb,NOS SA10 Opn wnd kneelg+ank-no cmplctn S46A6 Opn trmto sublux,head fibula S413z Opn trmto sublux shoulder NOS S468 Opn trmto sublux shoulder NOS S46A2 Opn trmto sublux knee jt,unsp S46A4 Opn trmto sublux knee jt,ltrl O46A4 Opn trmto sublux knee jt,trl S46A1 Opn trmto sublux knee jt, post S46A2 Opn trmto sublux knee jt S4112 Opn trmto dslotn shldr jt,post Opn trmto dslotn shoulder NOS S4110 Opn trmto dslotn shoulder jnt S4112 Opn trmto dslotn shoulder jnt S49F4 Opn trm sublux,st-clav jt, post Opn trm sublux st-clav jt, tant S49F3 Opn trm sublux pat-fem jt,itrl S49F5 Opn trm sublux pat-fem jt,itrl S49F5 Opn trm sublux knee jt,rotatry S46A3 Opn trm sublux knee jt,rotatry S46A6 Opn trm sublux knee jt,rotatry S46A6 Opn trm sublux knee jt,rotatry S46A6 Opn trm sublux acromio-clav jt S46A6 Opn trm sublux acromio-clav jt S46A6 Opn trm dslotn pat-fem jt,med S46A1 Opn trm dslotn pat-fem jt lat S46A2 Opn trm dslotn pat-fem jt lat S46A3 Opn trm dslotn pat-fem jt lat S46A6 Opn trm dslotn knee jt,lateral	N311		1
N335 N31 Osteit deform / losteop. + dis. EC N3110 Osteit deformans, neoplast dis N3y03 Osseous stenos of neural canal N3y06 Oss/sublx sten intervert foram S900z Opn wound shoulder+up limb, NOS SA10 Opn wond shoulder+up limb, NOS SA10 Opn wond kneelg+ank-no cmplctn S46A6 Opn trmtc sublux, head fibula S413z Opn trmtc sublux shoulder NOS S468 Opn trmtc sublux pat-fem jt S46A0 Opn trmtc sublux knee jt, unsp S46A1 Opn trmtc sublux knee jt, ltrl O46A1 Opn trmtc sublux knee jt, ltrl O46A1 Opn trmtc sublux knee jt, ant S46A2 Opn trmtc sublux knee jt, bost S46A3 Opn trmtc dslctn shldr jt, post Opn trmtc dislctn shoulder int S49F2 Opn trm sublux, st-clav jt, post S46B3 Opn trm sublux pat-fem jt, med S46B3 Opn trm sublux pat-fem jt, tril S49F5 Opn trm sublux pat-fem jt, tril S49F5 Opn trm sublux knee jt, rotatry S46B3 Opn trm sublux knee jt, rotatry S46B4 Opn trm sublux knee jt, rotatry S46B66 Opn trm dslctn, head fibula S46B1 Opn trm dslctn pat-fem jt ltat S46B4 Opn trm dslctn pat-fem jt ltat S46B60 Opn trm dslctn pat-fem jt ltat S46B60 Opn trm dslctn pat-fem jt lat S46B60 Opn trm dslctn pat-fem jt lat S46B60 Opn trm dslctn knee, unspec	N3350		1
N31         Osteit deform./osteop.+dis.EC           N3110         Osteit deformans,neoplast dis           N3y03         Osseous stenos of neural canal           N3y06         Oss/sublx sten intervert foram           S900z         Opn wound shoulder+up limb,NOS           SA10         Opn wold kneelg+ank-no cmplctn           S46A6         Opn trmtc sublux,head fibula           S413z         Opn trmtc sublux shoulder NOS           S468         Opn trmtc sublux shoulder NOS           S46A0         Opn trmtc sublux knee jt,unsp           S46A2         Opn trmtc sublux knee jt,unsp           S46A4         Opn trmtc sublux knee jt,ltrl           S46AA         Opn trmtc sublux knee jt,ltrl           S46AA         Opn trmtc sublux knee jt,ant           S46A         Opn trmtc sublux knee jt           S4112         Opn trmtc dislotn shouldr jn,post           S4112         Opn trmtc dislotn shouldr NOS           S4110         Opn trmt sublux,st-clav jt,post           S49F3         Opn trm sublux,st-clav jt,not           S49F3         Opn trm sublux pat-fem jt,ltrl           S4681         Opn trm sublux pat-fem jt,ltrl           S4682         Opn trm sublux knee jt,rotatry           S4683         Opn trm sublux knee jt,med	N335		1
N3110 N3903 Osseous stenos of neural canal N3y06 Oss/sublx sten intervert foram S90002 Opn wound shoulder+up limb,NOS SA10 Opn wnd kneelig+ank-no cmplctn S46A6 Opn trmtc sublux,head fibula S4132 Opn trmtc sublux pat-fem jt S46A0 Opn trmtc sublux pat-fem jt S46A1 Opn trmtc sublux knee jt,lnrb S46A2 Opn trmtc sublux knee jt,ltrl Opn trmtc sublux knee jt,ltrl S46A1 Opn trmtc sublux knee jt,ltrl S46A2 Opn trmtc sublux knee jt,ltrl S46A3 Opn trmtc sublux knee jt S4112 Opn trmtc sublux knee jt S4112 Opn trmtc disloctn shouldr NOS S4110 Opn trmtc disloctn shouldr NOS S4110 Opn trmtc disloctn shouldr NOS S49F4 Opn trm sublux,st-clav jt,post S49F2 Opn trm sublux,st-clav jt,ant S49F2 Opn trm sublux pat-fem jt,ltrl S49F5 Opn trm sublux pat-fem jt,ltrl S49F5 Opn trm sublux knee jt,rotatry S46A3 Opn trm sublux knee jt,rotatry S46A64 Opn trm sublux knee jt,medial S411 Opn trm sublux knee jt,medial S411 Opn trm sublux knee jt,medial S46A4 Opn trm sublux hnee jt,med S46A4 Opn trm dslctn, head fibula Opn trm dslctn pat-fem jt,med S46A4 Opn trm dslctn pat-fem jt,med S46A4 Opn trm dslctn pat-fem jt,med S46A4 Opn trm dslctn pat-fem jt,med	N31		1
N3y03 N3y06 Oss/sublx sten intervert foram S900z Opn wound shoulder+up limb, NOS SA10 Opn wound shoulder+up limb, NOS SA10 Opn wound shoulder+up limb, NOS SA10 Opn wound shoulder worth in the sublux shoulder shoulder shoulder worth in the sublux shoulder shoulder shoulder shoulder shoulder worth in the sublux shoulder shoulder worth in the sublux shoulder shoulder worth in the sublux should	N3110		1
N3y06 S900z Opn wound shoulder+up limb,NOS SA10 Opn wond kneelg+ank-no cmplctn S46A6 Opn trmtc sublux,head fibula S413z Opn trmtc sublux shoulder NOS S468 Opn trmtc sublux pat-fem jt S46A0 Opn trmtc sublux knee jt,unsp S46A2 Opn trmtc sublux knee jt,ltrl S46A1 Opn trmtc sublux knee jt,ltrl S46A1 Opn trmtc sublux knee jt,ltrl S46A2 Opn trmtc sublux knee jt, ant S46A4 Opn trmtc sublux knee jt S4112 Opn trmtc sublux knee jt S4112 Opn trmtc disloctn shouldr NOS S4110 Opn trmtc disloctn shouldr NOS S4110 Opn trm sublux,st-clav jt,post S49F3 Opn trm sublux,st-clav jt, ant S49F2 Opn trm sublux, st-clav jt S4681 Opn trm sublux pat-fem jt,ltrl S49F5 Opn trm sublux laryngl cartige S46A5 Opn trm sublux laryngl cartige S46A63 Opn trm sublux knee jt,roatry S46A3 Opn trm sublux knee jt,roatry S46A66 Opn trm dslctn, head fibula S464 Opn trm dslctn pat-fem jt,med S46A0 Opn trm dslctn pat-fem jt,med Opn trm dslctn pat-fem jt lat Opn trm dslctn pat-fem jt lat Opn trm dslctn pat-fem jt,med Opn trm dslctn pat-fem jt,med Opn trm dslctn pat-fem jt,med Opn trm dslctn knee, unspec Opn trm dslctn knee jt,lateral	N3v03		1
S900z SA10 Opn wound shoulder+up limb,NOS SA10 Opn wound shoulder+up limb,NOS SA6A6 Opn trmtc sublux,head fibula S46A6 Opn trmtc sublux shoulder NOS S46B Opn trmtc sublux pat-fem jt S46A0 Opn trmtc sublux knee jt,unsp S46A2 Opn trmtc sublux knee jt,post S46A4 Opn trmtc sublux knee jt,ltrl S46A1 Opn trmtc sublux knee jt,ltrl S46A2 Opn trmtc sublux knee jt,ltrl S46A3 Opn trmtc sublux knee jt S4112 Opn trmtc dslctn sholldr jt,post S4112 Opn trmtc disloctn shouldr NOS S4110 Opn trmt dislotn shoulder jnt S49F4 Opn trm sublux,st-clav jt,post S49F3 Opn trm sublux,st-clav jt,nat S49F2 Opn trm sublux pat-fem jt,med S46B0 Opn trm sublux pat-fem jt,ltrl S49F5 Opn trm sublux pat-fem jt,trl S49F5 Opn trm sublux laryngl cartlge S46A5 Opn trm sublux knee jt,roatry S46A3 Opn trm sublux knee jt,roatry S46A3 Opn trm sublux knee jt,roatry S46A64 Opn trm dslctn, head fibula S464 Opn trm dslctn pat-fem jt S4660 Opn trm dslctn pat-fem jt lat Opn trm dslctn pat-fem jt lat Opn trm dslctn pat-fem jt lat Opn trm dslctn knee, unspec	•		1
SA10 Opn wnd kneelg+ank-no cmplctn S46A6 Opn trmtc sublux,head fibula S413z Opn trmtc sublux shoulder NOS S468 Opn trmtc sublux pat-fem jt S46A0 Opn trmtc sublux knee jt,unsp S46A2 Opn trmtc sublux knee jt,unsp S46A2 Opn trmtc sublux knee jt,ltrl S46A1 Opn trmtc sublux knee jt,ltrl S46A1 Opn trmtc sublux knee jt,ant S46A2 Opn trmtc sublux knee jt,ant S46A3 Opn trmtc sublux knee jt S4112 Opn trmtc dislotn shidr jt,post S4110 Opn trmtc dislotn shouldr NOS S4110 Opn trmt dislotn shouldr pint S49F4 Opn trm sublux,st-clav jt,post S49F3 Opn trm sublux,st-clav jt,nost S49F2 Opn trm sublux st-clav jt S46B1 Opn trm sublux pat-fem jt,ltrl S46B0 Opn trm sublux laryngl cartige S46A5 Opn trm sublux laryngl cartige S46A6 Opn trm sublux knee jt,medial S4131 Opn trm sublux knee jt,medial S4131 Opn trm dslctn pat-fem jt lat S4640 Opn trm dslctn pat-fem jt,med S4640 Opn trm dslctn pat-fem jt,med	•		1
S46A6 Opn trmtc sublux, head fibula S413z Opn trmtc sublux shoulder NOS S468 Opn trmtc sublux pat-fem jt S46A0 Opn trmtc sublux knee jt, unsp S46A2 Opn trmtc sublux knee jt, post S46A4 Opn trmtc sublux knee jt, post S46A1 Opn trmtc sublux knee jt, ant S46A0 Opn trmtc sublux knee jt, ant S46A1 Opn trmtc sublux knee jt S4112 Opn trmtc disloctn shouldr NOS S4110 Opn trmtc disloctn shouldr NOS S4110 Opn trmt disloctn shoulder jnt S49F4 Opn trm sublux, st-clav jt, post S49F2 Opn trm sublux, st-clav jt, ant S46B1 Opn trm sublux pat-fem jt, med S46B0 Opn trm sublux pat-fem jt, trl S49F5 Opn trm sublux laryngl cartlge S46A5 Opn trm sublux knee jt, rotatry S46A3 Opn trm sublux knee jt, rotatry S46B66 Opn trm dslctn, head fibula S46A1 Opn trm dslctn pat-fem jt, med S46A1 Opn trm dslctn pat-fem jt, med S46A1 Opn trm dslctn pat-fem jt lat S46B1 Opn trm dslctn pat-fem jt lat S46B1 Opn trm dslctn knee, unspec S46B1 Opn trm dslctn knee, unspec S46B1 Opn trm dslctn knee, unspec			1
S413z Opn trmtc sublux shoulder NOS S468 Opn trmtc sublux pat-fem jt S46A0 Opn trmtc sublux knee jt,unsp S46A2 Opn trmtc sublux knee jt,post S46A4 Opn trmtc sublux knee jt,ltrl S46A1 Opn trmtc sublux knee jt,ltrl S46A1 Opn trmtc sublux knee jt S4112 Opn trmtc sublux knee jt S4112 Opn trmtc disloctn shouldr NOS S4110 Opn trmtc disloctn shouldr NOS S4110 Opn trmt disloctn shoulder jnt S49F4 Opn trm sublux,st-clav jt,post S49F3 Opn trm sublux,st-clav jt,ant S46B1 Opn trm sublux pat-fem jt,med S46B0 Opn trm sublux pat-fem jt,ltrl S49F5 Opn trm sublux laryngl cartige S46A5 Opn trm sublux knee jt,rotatry S46A3 Opn trm sublux knee jt,rotatry S46B6 Opn trm dslotn, head fibula S46B1 Opn trm dslotn pat-fem jt med S46B1 Opn trm dslotn pat-fem jt lat S46B1 Opn trm dslotn knee, unspec S46B1 Opn trm dslotn knee, unspec		·	1
S468 Opn trmtc sublux pat-fem jt S46A0 Opn trmtc sublux knee jt,unsp S46A2 Opn trmtc sublux knee jt,unsp S46A4 Opn trmtc sublux knee jt,ltrl S46A1 Opn trmtc sublux knee jt,ant S46AA Opn trmtc sublux knee jt S4112 Opn trmtc dslctn shldr jt,post S4112 Opn trmtc dislotn shouldr NOS S4110 Opn trmtc dislotn shouldr jnt S49F4 Opn trm sublux,st-clav jt,post S49F3 Opn trm sublux,st-clav jt, ant S49F2 Opn trm sublux st-clav jt S4681 Opn trm sublux pat-fem jt,med S4680 Opn trm sublux pat-fem jt,ltrl S49F5 Opn trm sublux laryngl cartlge S46A5 Opn trm sublux knee jt,rotatry S46A3 Opn trm sublux knee jt,medial S4131 Opn trm sublux knee jt,medial S4131 Opn trm dslctn, head fibula S464 Opn trm dslctn pat-fem jt S4640 Opn trm dslctn pat-fem jt lat Opn trm dslctn knee, unspec S4664 Opn trm dslctn knee, unspec			1
S46A0 Opn trmtc sublux knee jt,unsp S46A2 Opn trmtc sublux knee jt,post S46A4 Opn trmtc sublux knee jt,ltrl S46A1 Opn trmtc sublux knee jt,ant S46A Opn trmtc sublux knee jt S4112 Opn trmtc dslctn shldr jt,post S4110 Opn trmtc dslctn shouldr NOS S4110 Opn trmt dislctn shouldr int S49F4 Opn trm sublux,st-clav jt,post S49F3 Opn trm sublux,st-clav jt,ant S49F2 Opn trm sublux st-clav jt S4681 Opn trm sublux pat-fem jt,ltrl S49F5 Opn trm sublux laryngl cartlge S46A5 Opn trm sublux knee jt,rotatry S46A3 Opn trm sublux knee jt,rotatry S46A3 Opn trm sublux acromio-clav jt S4666 Opn trm dslctn, head fibula S4641 Opn trm dslctn pat-fem jt, med S4640 Opn trm dslctn pat-fem jt lat S4660 Opn trm dslctn pat-fem jt lat S4660 Opn trm dslctn knee, unspec S4664 Opn trm dslctn knee, unspec			1
S46A2 Opn trmtc sublux knee jt, post S46A4 Opn trmtc sublux knee jt, ltrl S46A1 Opn trmtc sublux knee jt, ant S46A Opn trmtc sublux knee jt S4112 Opn trmtc dslctn shouldr NOS S4110 Opn trmtc disloctn shouldr NOS S4110 Opn trmt dslctn shoulder jnt S49F4 Opn trm sublux, st-clav jt, post S49F3 Opn trm sublux, st-clav jt, ant S49F2 Opn trm sublux pat-fem jt, med S4680 Opn trm sublux pat-fem jt, ltrl S49F5 Opn trm sublux laryngl cartlge S46A5 Opn trm sublux knee jt, rotatry S46A3 Opn trm sublux knee jt, medial S4131 Opn trm sublux acromio-clav jt S4666 Opn trm dslctn, head fibula S4641 Opn trm dslctn pat-fem jt, med S4640 Opn trm dslctn pat-fem jt lat S4660 Opn trm dslctn knee, unspec S4664 Opn trm dslctn knee, unspec			1
S46A4 Opn trmtc sublux knee jt, ltrl S46A1 Opn trmtc sublux knee jt, ant S46A Opn trmtc sublux knee jt S4112 Opn trmtc dslctn shldr jt, post S4112 Opn trmtc disloctn shouldr NOS S4110 Opn trmtc dislotn shoulder jnt S49F4 Opn trm sublux, st-clav jt, post S49F3 Opn trm sublux, st-clav jt, ant S49F2 Opn trm sublux st-clav jt S4681 Opn trm sublux pat-fem jt, ltrl S49F5 Opn trm sublux pat-fem jt, ltrl S49F5 Opn trm sublux laryngl cartige S46A5 Opn trm sublux knee jt, rotatry S46A3 Opn trm sublux knee jt, medial S4131 Opn trm sublux acromio-clav jt S4666 Opn trm dslctn, head fibula S464 Opn trm dslctn pat-fem jt, med S4640 Opn trm dslctn pat-fem jt lat S4660 Opn trm dslctn knee, unspec S4664 Opn trm dslctn knee, unspec		· · · · · · · · · · · · · · · · · · ·	1
S46A1 Opn trmtc sublux knee jt, ant S46A Opn trmtc sublux knee jt S4112 Opn trmtc disloctn shouldr NOS S4110 Opn trmtc disloctn shoulder jnt S49F4 Opn trm sublux, st-clav jt, post S49F3 Opn trm sublux, st-clav jt, ant S49F2 Opn trm sublux pat-fem jt, med S4680 Opn trm sublux pat-fem jt, ltrl S49F5 Opn trm sublux laryngl cartige S46A5 Opn trm sublux knee jt, rotatry S46A3 Opn trm sublux knee jt, medial S4131 Opn trm sublux acromio-clav jt S4666 Opn trm dslctn, head fibula S464 Opn trm dslctn pat-fem jt lat S4640 Opn trm dslctn pat-fem jt lat S4660 Opn trm dslctn knee, unspec S4664 Opn trm dslctn knee, unspec S4664 Opn trm dslctn knee, unspec			1
S46A Opn trmtc sublux knee jt S4112 Opn trmtc dslctn shldr jt,post S4112 Opn trmtc disloctn shouldr NOS S4110 Opn trmtc dislotn shoulder jnt S49F4 Opn trm sublux,st-clav jt,post S49F3 Opn trm sublux,st-clav jt,ant S49F2 Opn trm sublux st-clav jt S4681 Opn trm sublux pat-fem jt,med S4680 Opn trm sublux pat-fem jt,ltrl S49F5 Opn trm sublux laryngl cartige S46A5 Opn trm sublux knee jt,rotatry S46A3 Opn trm sublux knee jt,medial S4131 Opn trm sublux acromio-clav jt S4666 Opn trm dslctn, head fibula S464 Opn trm dslctn pat-fem jt,med S4640 Opn trm dslctn pat-fem jt lat S4660 Opn trm dslctn knee, unspec S4664 Opn trm dslctn knee, unspec S4664 Opn trm dslctn knee jt,lateral			1
S4112 Opn trmtc dslctn shldr jt,post S4112 Opn trmtc disloctn shouldr NOS S4110 Opn trmtc dislotn shoulder jnt S49F4 Opn trm sublux,st-clav jt,post S49F3 Opn trm sublux,st-clav jt,ant S49F2 Opn trm sublux st-clav jt S4681 Opn trm sublux pat-fem jt,med S4680 Opn trm sublux laryngl cartlge S46A5 Opn trm sublux knee jt,rotatry S46A3 Opn trm sublux knee jt,medial S4131 Opn trm sublux acromio-clav jt S4666 Opn trm dslctn, head fibula S4641 Opn trm dslctn pat-fem jt med S4640 Opn trm dslctn pat-fem jt lat S4660 Opn trm dslctn knee, unspec S4664 Opn trm dslctn knee, unspec S4664 Opn trm dslctn knee jt,lateral			1
S411z Opn trmtc disloctn shoulder NOS S4110 Opn trmtc dislotn shoulder jnt S49F4 Opn trm sublux,st-clav jt,post S49F3 Opn trm sublux,st-clav jt,ant S49F2 Opn trm sublux st-clav jt S4681 Opn trm sublux pat-fem jt,ltrl S49F5 Opn trm sublux laryngl cartige S46A5 Opn trm sublux knee jt,rotatry S46A3 Opn trm sublux knee jt,medial S4131 Opn trm sublux acromio-clav jt S4666 Opn trm dslctn, head fibula S4641 Opn trm dslctn pat-fem jt,med S4640 Opn trm dslctn pat-fem jt lat S4660 Opn trm dslctn knee, unspec S4664 Opn trm dslctn knee, unspec S4664 Opn trm dslctn knee jt,lateral			1
S4110 Opn trmtc dislctn shoulder jnt S49F4 Opn trm sublux,st-clav jt,post S49F3 Opn trm sublux,st-clav jt,ant S49F2 Opn trm sublux st-clav jt S4681 Opn trm sublux pat-fem jt,med S4680 Opn trm sublux pat-fem jt,ltrl S49F5 Opn trm sublux laryngl cartlge S46A5 Opn trm sublux knee jt,rotatry S46A3 Opn trm sublux knee jt,medial S4131 Opn trm sublux acromio-clav jt S4666 Opn trm dslctn, head fibula S464 Opn trm dslctn pat-fem jt,med S4640 Opn trm dslctn pat-fem jt lat S4660 Opn trm dslctn knee, unspec S4664 Opn trm dslctn knee jt,lateral			1
S49F4 S49F3 Opn trm sublux,st-clav jt,post S49F2 Opn trm sublux st-clav jt S4681 Opn trm sublux pat-fem jt,med S4680 Opn trm sublux pat-fem jt,ltrl S49F5 Opn trm sublux laryngl cartIge S46A5 Opn trm sublux knee jt,rotatry S46A3 Opn trm sublux knee jt,medial S4131 Opn trm sublux acromio-clav jt S4666 Opn trm dslctn, head fibula S464 Opn trm dslctn patello-fem jt S4641 Opn trm dslctn pat-fem jt,med S4640 Opn trm dslctn pat-fem jt lat S4660 Opn trm dslctn knee, unspec S4664 Opn trm dslctn knee, inspec			1
S49F3  S49F2  Opn trm sublux,st-clav jt,ant  S4681  Opn trm sublux pat-fem jt,med  S4680  Opn trm sublux pat-fem jt,ltrl  S49F5  Opn trm sublux laryngl cartige  S46A5  Opn trm sublux knee jt,rotatry  S46A3  Opn trm sublux knee jt,medial  S4131  Opn trm sublux acromio-clav jt  S4666  Opn trm dslctn, head fibula  S464  Opn trm dslctn pat-fem jt,med  S4641  Opn trm dslctn pat-fem jt lat  S4660  Opn trm dslctn knee, unspec  S4664  Opn trm dslctn knee jt,lateral			1
S49F2 Opn trm sublux st-clav jt S4681 Opn trm sublux pat-fem jt,med S4680 Opn trm sublux pat-fem jt,ltrl S49F5 Opn trm sublux laryngl cartige S46A5 Opn trm sublux knee jt,rotatry S46A3 Opn trm sublux knee jt,medial S4131 Opn trm sublux acromio-clav jt S4666 Opn trm dslctn, head fibula S464 Opn trm dslctn pat-fem jt S4641 Opn trm dslctn pat-fem jt lat S4640 Opn trm dslctn pat-fem jt lat S4660 Opn trm dslctn knee, unspec S4664 Opn trm dslctn knee jt,lateral			1
S4681 Opn trm sublux pat-fem jt,med S4680 Opn trm sublux pat-fem jt,ltrl S49F5 Opn trm sublux laryngl cartige S46A5 Opn trm sublux knee jt,rotatry S46A3 Opn trm sublux knee jt,medial S4131 Opn trm sublux acromio-clav jt S4666 Opn trm dslctn, head fibula S464 Opn trm dslctn patello-fem jt S4641 Opn trm dslctn pat-fem jt,med S4640 Opn trm dslctn pat-fem jt lat S4660 Opn trm dslctn knee, unspec S4664 Opn trm dslctn knee jt,lateral		· · · · · · · · · · · · · · · · · · ·	1
S4680 Opn trm sublux pat-fem jt,ltrl S49F5 Opn trm sublux laryngl cartlge S46A5 Opn trm sublux knee jt,rotatry S46A3 Opn trm sublux knee jt,medial S4131 Opn trm sublux acromio-clav jt S4666 Opn trm dslctn, head fibula S464 Opn trm dslctn patello-fem jt S4641 Opn trm dslctn pat-fem jt,med S4640 Opn trm dslctn pat-fem jt lat S4660 Opn trm dslctn knee, unspec S4664 Opn trm dslctn knee jt,lateral		· · · · · · · · · · · · · · · · · · ·	1
S49F5  S46A5  Opn trm sublux laryngl cartige  S46A3  Opn trm sublux knee jt,rotatry  S46A3  Opn trm sublux knee jt,medial  S4131  Opn trm sublux acromio-clav jt  S4666  Opn trm dslctn, head fibula  S464  Opn trm dslctn patello-fem jt  S4641  Opn trm dslctn pat-fem jt,med  S4640  Opn trm dslctn pat-fem jt lat  S4660  Opn trm dslctn knee, unspec  S4664  Opn trm dslctn knee jt,lateral		· · · · · · · · · · · · · · · · · · ·	1
S46A5 Opn trm sublux knee jt,rotatry S46A3 Opn trm sublux knee jt,medial S4131 Opn trm sublux acromio-clav jt S4666 Opn trm dslctn, head fibula S464 Opn trm dslctn patello-fem jt S4641 Opn trm dslctn pat-fem jt,med S4640 Opn trm dslctn pat-fem jt lat S4660 Opn trm dslctn knee, unspec S4664 Opn trm dslctn knee jt,lateral		· · · · · · · · · · · · · · · · · · ·	l 4
S46A3 Opn trm sublux knee jt,medial S4131 Opn trm sublux acromio-clav jt S4666 Opn trm dslctn, head fibula S464 Opn trm dslctn patello-fem jt S4641 Opn trm dslctn pat-fem jt,med S4640 Opn trm dslctn pat-fem jt lat S4660 Opn trm dslctn knee, unspec S4664 Opn trm dslctn knee jt,lateral		· · · · · · · · · · · · · · · · · · ·	1
S4131 Opn trm sublux acromio-clav jt S4666 Opn trm dslctn, head fibula S464 Opn trm dslctn patello-fem jt S4641 Opn trm dslctn pat-fem jt,med S4640 Opn trm dslctn pat-fem jt lat S4660 Opn trm dslctn knee, unspec S4664 Opn trm dslctn knee jt,lateral		,	1
S4666 Opn trm dslctn, head fibula S464 Opn trm dslctn patello-fem jt S4641 Opn trm dslctn pat-fem jt,med S4640 Opn trm dslctn pat-fem jt lat S4660 Opn trm dslctn knee, unspec S4664 Opn trm dslctn knee jt,lateral		· · · · · · · · · · · · · · · · · · ·	1
S464 Opn trm dslctn patello-fem jt S4641 Opn trm dslctn pat-fem jt,med S4640 Opn trm dslctn pat-fem jt lat S4660 Opn trm dslctn knee, unspec S4664 Opn trm dslctn knee jt,lateral		· · · · · · · · · · · · · · · · · · ·	1
S4641 Opn trm dslctn pat-fem jt,med S4640 Opn trm dslctn pat-fem jt lat S4660 Opn trm dslctn knee, unspec S4664 Opn trm dslctn knee jt,lateral			1
S4640 Opn trm dslctn pat-fem jt lat S4660 Opn trm dslctn knee, unspec S4664 Opn trm dslctn knee jt,lateral		· · · · · · · · · · · · · · · · · · ·	1
S4660 Opn trm dslctn knee, unspec S4664 Opn trm dslctn knee jt,lateral		· · · · · · · · · · · · · · · · · · ·	1
S4664 Opn trm dslctn knee jt,lateral		· · · · · · · · · · · · · · · · · · ·	1
The second secon		·	1
Opp trm dslctn knee it, post		· · · · · · · · · · · · · · · · · · ·	1
5 P. T. W.		Opn trm dslctn knee jt, post	1
S4663 Opn trm dslctn knee jt, medial	S4663	Opn trm dslctn knee jt, medial	1

		Number of
Read code	Description	studies
S4661	Opn trm dslctn knee jt, ant	1
S4665	Opn trm dslct knee jt,rotatory	1
S4973	Opn trm dslc,stern-clav jt,ant	1
S4972	Opn trm dslc sterno-clav jt	1
S4974	Opn trm dsl,stern-clav jt,post	1
S4114	Opn trm dislc acromio-clav jt	1
S413	Opn traumtc subluxatn shoulder	1
S4130	Opn traumtc sublux shouldr jnt	1
S411	Opn traumtc disloctn shoulder	1
S4115	Opn traumatic disloctn scapula	1
S49B	Opn sublux thrcic+lmbr vertbra	1
S49B1	Opn sublux thoracic spine	1
S499x	Opn sublux mlti cerv vertebrae	1
S499z	Opn sublux cerv vertebra NOS	1
S4991	Opn sublux atlanto-occipitl jt	1
S493C	Opn spnl dslc+cauda equina lsn	1
S4934	Opn spnl dslc+ant thrc crd lsn	1
S4939	Opn spnl dslc+ant lmbr crd lsn	1
S491B	Opn spnl dslc+ant cerv crd lsn	1
S493B	Opn spnl dsl+post lmbr crd lsn	1
S491D	Opn spnl dsl+post cerv crd lsn	1
S4933	Opn spnl dsl+comp thrc crd Isn	1
S4938	Opn spnl dsl+comp lmbr crd lsn	1
S4919	Opn spnl dsl+cerv crd lsn,unsp	1
S4932	Opn spn dslc+thrc crd lsn,unsp	1
S4936	Opn spn dslc+post thrc crd Isn	1
S491C	Opn spn dslc+ctrl cerv crd lsn	1
S491A	Opn spn dslc+comp cerv crd lsn	1
S4935	Opn spn dslc+cent thrc crd Isn	1
S493A	Opn spn dslc+cent lmbr crd lsn	1
S1150	Opn spn # + unsp lumb crd lesn	1
S1154	Opn spn # + post lumb crd lesn	1
S1151	Opn spn # + comp lumb crd lesn	1
S1153	Opn spn # + cent lumb crd lesn	1
S1155	Opn spn # + cauda equina lesn	1
S1152	Opn spn # + ant lumbr crd lesn	1
S5P1z	Opn dvsn,thyroid regn Igmt NOS	1
S5P1	Opn dvsn,thyroid region lgmt	1
S5P12	Opn dvsn,thyroid cartilge lgmt	1
S5P30	Opn dvsn,sternoclavicular lgmt	1
S5N	Opn dvsn,lgmt other part back	1
S5P11	Opn dvsn,cricothyroid ligament	1
S5P10	Opn dvsn,cricoarytenoid lgmt	1
S5K1	Opn dvsn mdl collat lgmt knee	1
S5K0	Opn dvsn lat collat lgmt knee	1
S5F1	Opn dvsn coracoclavicular lgmt	1
S5F0	Opn dvsn acromioclavic lgmt	1
S5K2	Opn dvs post cruciate lgm knee	1
S5K3	Opn dvs ant cruciate lgmt knee	1
S4931	Opn dslc thoracic spine	1
S4975	Opn dslc laryngl cartilage	1
S1034	Opn # thorc vert-trnsvrse prcs	1
S1032	Opn # thorc vert-spondylolysis	1

Read code	Description	Number of studies
S1033	Opn # thorc vert-spinous prcs	1
S1036	Opn # thor vert-tricolumnar	1
S1035	Opn # thor vert-posterior arch	1
S1055	Opn # lumb vert,posterior arch	1
S1054	Opn # lumb vert, trnsvrse prcs	1
S1056	Opn # lumb vert, tricolumnar	1
S1052	Opn # lumb vert, spondylolysis	1
S1053	Opn # lumb vert, spinous prcs	1
S101L	Opn # cerv vert, trnsvrse prcs	1
S101N	Opn # cerv vert, tricolumnar	1
S101J	Opn # cerv vert, spondylolysis	1
S101K	Opn # cerv vert, spinous prcs	1
S101M	Opn # cerv vert, post arch	1
S101D	Opn # axis, trnsvrse process	1
S1018	Opn # atlas-isol arch/art pres	1
S89z	Open wounds NOS	1
S90	Open wound shoulder/upper limb	1
S9020	Open wound shoulder-tendon inv	1
S9010	Open wound shoulder+complicat.	1
S9021	Open wound scapular+tendon inv	1
S900	Open wound of shoulder/upper limb without	1
0000	complication	1
S9000	Open wound of shoulder region	1
S87	Open wound of sacroiliac reg.	1
S84	Open wound of neck	1
SA100	Open wound of knee	1
S86	Open wound of back	1
SA110	Open wound knee+complication	1
S8z	Open wound head/neck/trunk NOS	1
S8	Open wound head/neck/trunk	1
S113z	Open thoracic #+cord lesn.NOS	1
S113	Open thoracic #+cord lesion	1
S49Dz	Open subluxation of spine NOS	1
S49B0		1
S4998	Open subluyation C7/T1	1
S4997	Open sublivation C7/T1	1
S4996	Open subluxation C6/C7 Open subluxation C5/C6	1
S4995	· · · · · · · · · · · · · · · · · · ·	1
S4994	Open sublivation C4/C5	1
S4993	Open sublivation C3/C3	1
S49D0	Open subling appropriate	1
S49D0 S49D	Open sublive other worth bro	1
S4990	Open sublive core oning unon	1
S4990 S499	Open sublux cerv spine, unsp	1
S499 S4992	Open sublux cerv spine	1
	Open sublux atlanto-axial jt	1
S49y	Open multiple/ill-def.disloc.	1
S2921	Open mult fract clav scap hum	1
S115	Open lumbar # + cord lesion	1
S2115	Open fracture scapula, spine	1
S2116	Open fracture scapula, neck	1
S2113	Open fracture scapula, glenoid	1
S2114	Open fracture scapula, blade	1
S321	Open fracture of the patella	1

Read code	Description	Number of
	·	studies
S105	Open fracture lumbar vertebra	1
S1260	Open fracture larynx	1
S2012	Open fracture clavicle, shaft	1
S101	Open fracture cervical spine	1
S1012	Open fracture axis	1
S1011	Open fracture atlas	1
S5N0	Open dvsn, neck ligament	1
S5Fz	Open dvsn shoulder lgmt NOS	1
S4911	Open dslc atlanto-occipital jt	1
S4912	Open dslc atlanto-axial jt	1
S5Nz	Open divisn, back ligament NOS	1
S5N1	Open division,thoracic lgmt	1
S5P	Open division, other ligament	1
S5Pz	Open division, other lig NOS	1
S5N2	Open division, lumbar ligament	1
S5F	Open division shoulder Igmt	1
S5Ky SEME	Open division other knee Igmt	1
S5M5	Open division lumbosacral lgmt	1
S5K	Open division ligament knee	1
S5Kz	Open division knee Igmt NOS	1
S5M4	Open division iliolumbar Igmt	1
S4950	Open dislocation spine unspec.	1
S495z	Open dislocation spine NOS	1
S491	Open dislocation of neck	1
S4930	Open dislocation lumbar spine	1
S466z	Open dislocation knee NOS	1
S497z	Open dislocation NOS	1
S4918	Open dislocation C7/T1	1
S4917	Open dislocation C6/C7	1
S4916 S4915	Open dislocation C5/C6	1
S4914	Open dislocation C4/C5	1
S4913	Open dislocation C3/C4	1
	Open dislocation C2/C3	1
S493 S493z	Open disloc thoracic/lumbar	1
S495	Open dislocathorac./lumbar NOS	1
S491x	Open disloc.other vertebra	1
S491z	Open disloc.mult.cerv.vertebra	1
S4910	Open disloc.cervical vert.NOS	1
S111z	Open disloc.cerv.spine unspec.	1
S1112 S111	Open cervical#+cord lesion NOS Open cervical #+cord lesion	1
S1263	Open #trachea	1
S1262	Open #thyroid cartilage	1
S1202	Open #spine+cord lesion unsp.	1
S2110	Open #spirie+cord lesion unsp.  Open #scapula-unspecified	1
S211z	Open #scapula NOS	1
S126z	Open #larynx/trachea NOS	1
S1261	Open #hyoid bone	1
S2010	Open #riyold borie  Open #clavicle unspecified	1
S201z	Open #clavicle unspecified Open #clavicle NOS	1
S3z1	•	1
S4F7	Open #sublux patello fem it	1
S4J33	Open #-sublux,patello-fem jt Open #-sublux st-clav jt,post	1
3 1000	Open #-sublux st-clav jt,post	ı

Read code	Description	Number of studies
S4J32	Open #-sublux st-clav jt,ant	1
S4A30	Open #-sublux shoulder joint	1
S4A3	Open #-sublux shoulder	1
S4F3	Open #-sublux knee joint	1
S4A31	Open #-sublux acrom-clav joint	1
S4F5	Open #-dslc,patello-fem jt	1
S4F1	Open #-dslc, knee joint	1
S4J13	Open #-dslc st-clav jt,post	1
S4J12	Open #-dslc st-clav jt,ant	1
S4A10	Open #-dslc shoulder joint	1
S4A1	Open #-dslc shoulder	1
S4A11	Open #-dslc acrom-clav joint	1
S1010	Open # unsp cerv vertebra	1
S103	Open # thoracic vertebra	1
S1031	Open # thorac vert, wedge	1
S1030	Open # thorac vert, burst	1
S1013	Open # third cerv vertebra	1
S10y	Open # spine, unspecif	1
S1016	Open # sixth cerv vertebra	1
S1017	Open # seventh cerv vert	1
S2112	Open # scapula, coracoid	1
S2111	Open # scapula, acromion	1
S211	Open # scapula	1
S3213	Open # patella, vertical	1
S3210	Open # patella, transverse	1
S3214	Open # patella, stellate	1
S3211	Open # patella, proximal pole	1
S3212	Open # patella, distal pole	1
S1051	Open # lumbar vert, wedge	1
S1050	Open # lumbar vert, burst	1
S126	Open # larynx and trachea	1
S1014	Open # fourth cerv vertebra	1
S1015	Open # fifth cerv vertebra	1
S2011	Open # clavicle, medial end	1
S2013	Open # clavicle, lateral end	1
S201	Open # clavicle	1
S101H	Open # cerv vert, wedge	1
S101G	Open # cerv vert, burst	1
S101z	Open # cerv spine NOS	1
S101F	Open # axis, tricolumnar	1
S101B	Open # axis, spondylolysis	1
S101C	Open # axis, spinous procss	1
S101E	Open # axis, posterior arch	1
S101A	Open # axis, odontoid prcss	1
S1019	Open # atlas, comminuted	1
S4113	Op tr ds shd jt,inf(infr-glen)	1
S4111	Op tr dis shld jt,ant(sub-cor)	1
S49Bz	Op sublx thrc+lmbr vertbra NOS	1
S49B2	Op spn sublx+thrc crd lsn,unsp	1
S49B6	Op spn sublx+post thrc crd Isn	1
S49BB	Op spn sublx+post lmbr crd lsn	1
S49B7	Op spn sublx+lmbr crd lsn,unsp	1
S49B3	Op spir subix inforcia isin, unsp	•

Read code	Description	Number of studies
S49B8	Op spn sublx+comp lmbr crd lsn	1
S499A	Op spn sublx+comp cerv crd lsn	1
S499C	Op spn sublx+cntrl crv crd lsn	1
S4999	Op spn sublx+cerv crd lsn,unsp	1
S49B5	Op spn sublx+cent thrc crd Isn	1
S49BA	Op spn sublx+cent lmbr crd lsn	1
S49BC	Op spn sublx+cauda equina Isn	1
S49B4	Op spn sublx+ant thrc crd Isn	1
S499D	Op spn sublux+post crv crd lsn	1
S49B9	Op spn sublux+ant Imbr crd Isn	1
S499B	Op spn sublux+ant cerv crd Isn	1
S4937	Op spn dsl+lmbr crd lsn unsp	1
S1134	Op spn #+pst thor crd lsn,T1-6	1
S1133	Op spn #+cnt thor crd lsn,T1-6	1
S1132	Op spn #+ant thor crd lsn,T1-6	1
S115z	Op spn # incmp lmb crd lsn NOS	1
S1130	Op sp #+unsp thor crd lsn,T1-6	1
S1136	Op sp #+unsp thor cd lsn,T7-12	1
S113A	Op sp #+pst thor crd lsn,T7-12	1
S1139	Op sp #+cnt thor crd lsn,T7-12	1
S1131	Op sp #+cmpl thor crd lsn,T1-6	1
S1137	Op sp #+cmp thor crd lsn,T7-12	1
S1138	Op sp #+ant thor crd lsn,T7-12	1
S1501	Op multi fractur of thor spine	1
SR161	Op fract/th wth lw bck+plv+lmb	1
SR101	Op fract invol head with neck	1
S113B	Op # T7-12incomp cord Isn NOS	1
S1135	Op # T1-6 incomp cord Isn NOS	1
S1116	Op # C5-7 unspec cord lesion	1
S111A	Op # C5-7 posterior cord lesn	1
S111B	Op # C5-7 incomp cord les NOS	1
S1117	Op # C5-7 compl cord lesion	1
S1119	Op # C5-7 central cord les	1
S1118	Op # C5-7 anterior cord les	1
S1110	Op # C1-C4 unspec cord les	1
S1114	Op # C1-4 post cord lesion	1
S1115	Op # C1-4 cord les. NOS	1
S1111	Op # C1-4 compl cord lesion	1
S1113	Op # C1-4 cent cord lesion	1
S1112	Op # C1-4 ant cord lesion	1
N1120	One lev th spondyl-no myelop	1
N11B0	One lev th spondyl + radiculop	1
N1130	One lev th spondyl + myelop	1
N1140	One lev lumbsac spond-no myelo	1
N1150	One lev lumbsac spond + myelop	1
N1100	One lev Cx spondyl-no myelop	1
N1190	One lev Cx spondyl + radiculop	1
N1110	One lev Cx spondyl + myelop	1
N0542	Oligoarticular osteoarthritis, unspecified, of upper	
	arm	1
N0545	Oligoarticular osteoarthritis, unspecified, of the pelvic	
NOTAC	region and thigh	1
N0546	Oligoarticular osteoarthritis, unspecified, of lower leg	1

Read code	Description	Number of studies
N0544	Oligoarticular osteoarthritis, unspecified, of hand	1
N0543	Oligoarticular osteoarthritis, unspecified, of forearm	1
N0547	Oligoarticular osteoarthritis, unspecified, of ankle and	
	foot	1
N054	Oligoarticular OA unspecified	1
N0541	Oligoartic OA, unspec-shoulder	1
N0549	Oligoartic OA, unspec-multiple	1
N0540	Oligoartic OA, unsp-unsp sites	1
N0548	Oligoartic OA unspec-oth site	1
N2133	Olecranon bursitis	1
N0720	Old torn meniscus of knee	1
N070B	Old tear post horn med menis	1
N070A	Old tear of medial meniscus	1
N071C	Old tear of lateral meniscus	1
N07y9	Old post/lat caps complex tear	1
N07y3	Old post.cruciate lig.disrupt.	1
N07yF	Old part tear post cruciat lig	1
N07yA	Old part tear med collat lig	1
N07y7	Old part tear lat collat lig	1
N07yD	Old part tear ant cruciate lig	1
N07y1	Old med.collat.lig.disruption	1
N07yC	Old med capsular complex tear	1
N07y0	Old lat.collat.lig.disruption	1
N07yB	Old compl tear med collat lig	1
N07y8	Old compl tear lat collat lig	1
N07yG	Old comp tear post cruciat lig	1
N07yE	Old comp tear ant cruciate lig	1
N07y4	Old capsular knee lig.disrupt.	1
N0701	Old bucket handle tear-medial	1
N0711	Old bucket handle tear-lat men	1
N07y2	Old ant.cruciate lig.disrupt.	1
N067	Ochronotic arthropathy	1
N054z	OA,1 site +,unspecified NOS	1
N05zP	OA NOS-subtalar joint	1
N05zA	OA NOS-sternoclavicular joint	1
N05zB		1
N05zG	OA NOS-acromioclavicular join OA NOS-PIP joint of finger	1
N05zH	, and the second	1
N05zS	OA NOS 1st MTR is int	1
N3381	OA NOS-1st MTP joint	1
N226	Nonunion of fracture	1
	Nontraumatic tendon subluxatn	1
N23y2 N2260	Nontraumatic muscle rupture	1
N392	Nontraum.unspec.tendon rupture	1
	Nonallopathic lesion-thoracic	1
N393	Nonallopathic lesion-lumbar	1
N391	Nonallopathic lesion-cervical	1
N082Z	Non-trau subl acromiocl joint	1
N044	Nodular fibrositis-chr. rheum.	1
N2372	Nodular fasciitis	1
16A1	No stiff neck	1
16C1	No backache	1
1229	No FH: Osteoporosis	1
N2471	Night cramps	1

B	B	Number of
Read code	Description	studies
N11y2	Neuropathic spondylopathy	1
N2423	Neuropathic pain	1
N374B	Neuromuscular scoliosis	1
N3749	Neuromuscular lordosis	1
N3745	Neuromuscular kyphosis	1
N14A	Neurogenic claudication	1
N2421	Neuritis unspecified	1
N2420	Neuralgia unspecified	1
N242z	Neuralg./neurit./radiculit.NOS	1
N242	Neuralg./neurit./radicul.unsp.	1
SJ	Nerve/spinal cord injuries	1
EMISNQNE5	Nerve root pain present	1
SJz	Nerve and spinal cord injury NOS	1
S5700	Neck sprain unspecified	1
S570z	Neck sprain NOS	1
S570	Neck sprain	1
N12D	Narrowing disc space	1
N2332	Myositis in sarcoidosis	1
N2321	Myofibrosis	1
N241-97	Myalgia/myositis - shoulder	1
EGTON307	Myalgia	1
EMISNQMU15	Musculoskeletal symptom	1
EMISNQMU5	Musculoskeletal pain severe	1
EMISNQMU2	Musculoskeletal pain present	1
EMISNQMU4	Musculoskeletal pain moderate	1
N096-2	Musculoskeletal pain - joints	1
MAWBYMU1	Musculoskeletal Symptoms	1
N3	Musculosk.inflam/deform.+other	1
N232z	Muscle wasting/atrophy NEC NOS	1
N232	Muscle wasting and disuse atrophy NEC	1
N2322	Muscle wasting NEC	1
UNMAPM4AB	Muscle strain	1
N23yD	Muscle strain	1
N2410-2	Muscle pain	1
N231		1
S5yz1	Muscle injury / strain	1
N238	Muscle ossification Muscle injury / strain Muscle contracture Muscle calcif /ossificat NOS	1
N231z	Muscle calcif./ossificat.NOS	1
N230D	Muscle abscess-shoulder	1
N230B	Muscle abscess-neck	1
N230C	Muscle abscess-back	1
N230A	Muscle abscess	1
ASDFGMU2	Muscle Symptoms	1
EGTON110	Muscle Injury	1
M4A8	Muscle Injury	1
N2310	Musc.calcif./ossif.unspecified	1
N0719	Multiple tears-lat meniscus	1
N0708	Multiple tears of medial meniscus	1
S101x	Multiple tears of mediar meniscus  Multiple open # cerv vert	1
SR1z	Multiple open # cerv vert  Multiple fractures unspecified	1
S100x	Multiple tractures unspectied  Multiple clsd # cerv vert	1
N099A	•	1
S3y	Multiple tleas/arms/ribs/stern	1
ООУ	Multiple #legs/arms/ribs/stern	1

Read code	Description	Number of studies
S10A2	Multip fracture/cervical spin	1
N11C2	Multi lev lumbsac spond+radicu	1
S150	Multi fractures/thoracic spine	1
S3y1	Mult.open #legs/arms/ribs	1
S3y0	Mult.closed #legs/arms/ribs	1
N1122	Mult lev th spondyl-no myelop	1
N11B2	Mult lev th spondyl+radiculop	1
N1132	Mult lev th spondyl + myelop	1
N1142	Mult lev lumbsac spond-no myel	1
N1152	Mult lev lumbsac spond + myelo	1
N1102	Mult lev Cx spondyl-no myelop	1
N1192	Mult lev Cx spondyl+radiculop	1
N1112	Mult lev Cx spondyl + myelop	1
S10B6	Mult fractur/lumbar spine+pelv	1
S292	Mult fract/clav,scapula+humrus	1
1D17	Morning stiffness - joint	1
N3323	Monostotic fibrous dysplasia	1
N0433	Monarticular juvenile R.A.	1
EMISNQMI188	Mixed connective tissue disease	1
OX6954MC	Mixed Connective Tissue Disease /ox	1
N2224	Miners' knee	1
N2172	Metatarsalgia NOS	1
N063.11	Menopausal arthritis	1
N063	Menopausal arthritis	1
N072	Meniscus derangement NEC	1
N070	Medial meniscus derangement	1
N070z	Medial meniscus derange.NOS	1
N0703	Medial menisc.post.horn derang	1
N0700	Medial menisc.derang.unspecif	1
N0702	Medial menisc.ant.horn derang.	1
N2131	Medial epicondylitis - elbow	1
16CA	Mechanical low back pain	1
N3380	Malunion of fracture	1
N338	Malunion and nonunion of fracture	1
N11C	Lumbosacral spondylosis with radiculopathy	1
N115	Lumbosacral spond.+ myelopathy	1
SJ35	Lumbosacral plexus injury	1
N1441	Lumbosacral neuritis unspecif.	1
N1463	Lumbosacral instability	1
N1460	Lumbosacral ankylosis	1
N114-2	Lumbar spondylosis	1
N148C	Lumbar spine instability	1
N1486	Lumbar spine ankylosis	1
N1402	Lumbar spinal stenosis	1
N12A3	Lumbar postlaminectomy syndr.	1
SJ321	Lumbar nerve root injury - L2	1
N12zC	Lumbar discitis	1
N122	Lumbar disc displacement	1
N1293	Lumbar disc disord.+myelopathy	1
N127	Lumbar disc degeneration	1
S572	Lumbar back sprain	1
N1420	Lumbago with sciatica	1
N142-4	Lumbago	

Read code	Description	Number of studies
N140A	Lu spin stenos due to oth dis	1
N12C2	Lu disc prolapse+radiculopathy	1
N12B2	Lu disc prolapse + myelopathy	1
N12C3	Lu disc prol+caud eq compress	1
N142-1	Low back pain	1
EGTON264	Low Back Pain	1
N374W	Lordosis unspecified	1
N3747	Lordosis in skeletal dysplasia	1
N3748	Lordosis in hip disease	1
N3742	Lordosis + other condition	1
N0818	Loose joint body-multip joints	1
N081z	Loose joint body (ex.knee)NOS	1
N081A	Loose body, oth joint-shoulder	1
N0811	Loose body joint-shoulder	1
N0819	Loose body in shoulder joint	1
N073	Loose body in knee	1
N081	Loose body in joint-excl.knee	1
N0817	Loose body in joint, joint OS	1
N0810	Loose body in joint	1
N07yH	Locking knee	1
N07y5	Locked knee	1
N0522	Localised, secondary osteoarthritis of the upper arm	1
N0525	Localised, secondary osteoarthritis of the pelvic	
Notoo	region and thigh	1
N0526	Localised, secondary osteoarthritis of the lower leg	1
N0524	Localised, secondary osteoarthritis of the hand	1
N0523	Localised, secondary osteoarthritis of the forearm	1
N0527	Localised, secondary osteoarthritis of the ankle and foot	1
N051E	Localised, primary osteoarthritis of toe	1
N0512	Localised, primary osteoarthritis of the upper arm	1
N0515	Localised, primary osteoarthritis of the pelvic region	'
110010	and thigh	1
N0513	Localised, primary osteoarthritis of the forearm	1
N0517	Localised, primary osteoarthritis of the ankle and foot	1
N051F	Localised, primary osteoarthritis of elbow	1
N052z	Localised secondary OA NOS	1
N051z	Localised primary OA NOS	1
N0532	Localised osteoarthritis, unspecified, of the upper	
	arm	1
N0537	Localised osteoarthritis, unspecified, of the ankle and	
NOSO	foot	1
N053z	Localised OA unspecified NOS	1
N053	Localised OA unspecified	1
N052	Local.secondary osteoarthritis	1
N0520	Local.secondary OA-site unsp.	1
N0521	Local.secondary OA-shoulder	1
N0528	Local.secondary OA-other spec.	1
N051	Local.primary osteoarthritis	1
N0510	Local.primary OA-site unspec.	1
N0511	Local.primary OA-shoulder regn	1
N0518	Local.primary OA-other specif	1
N0516	Local.primary OA-lower leg	1
N0514	Local.primary OA-hand	1

3			Number of
4	Read code	Description	studies
5	N0530	Local.OA unspsite unspecif.	3144163
6	N0531	Local.OA unspshoulder region	1
7	N0538	Local.OA unspother specified	1
8	N0534	Local.OA unsphand	1
9	N0533	Local.OA unspforearm	1
10	N051D	Local prim osteoarth wrist	1
11	N3308	Local osteoporosis - Lequesne	1
12	S5z	Ligament sprain NOS	1
13	N0001	Libman-Sacks disease	1
14	N245-6		1
15	N234	Leg pain	1
16	SJ43	Laxity of ligament	1
17 18	N071	Latri cutaneous branch T12 inj	1
19	N0714	Lateral meniscus derangement	1
20	N0713	Lateral meniscus derangem.NOS	1
21	N0710	Lateral menisc.post.horn deran	1
22	N0712	Lateral menisc.derang.unspecif	1
23	N2132	Lateral menisc.ant.horn derang	1
24	MHTBALA9	Lateral epicondylitis of the elbow	1
25	SC08	Lateral Patella Release	1
26	SC05	Late effect-tendon injury	1
27	SC06	Late effect-mult./other #bones	1
28	SC00 SC01	Late effect-dislocation	1
29		Late effect-#spine-no cord les	1
30	SC011	Late effect # thoracic vert	1
31	SC012	Late effect # lumbar vertebra	1
32	SC010	Late effect # cervic vertebra	1
33	EGTON119	Laceration Nos	1
34	N3744	Kyphosis in skeletal dysplasia	1
35	N3713	Kyphosis due to oth treatment	1
36	N3741	Kyphosis + other condition	1
37	N373z	Kyphoscoliosis or scoliosis NOS	1
38 39	N373	Kyphoscoliosis and scoliosis	1
40	N3241	Kohler's dis.(prim.patell.ctr)	1
41	N0956	Knee stiff	1
42	S54y	Knee sprain NOS	1
43	S54	Knee sprain Knee sprain Knee pyogenic arthritis	1
44	N0106	Knee pyogenic arthritis	1
45	N0826	Knee pathological dislocation	1
46	1M10	Knee pain	1
47	N05z6	Knee osteoarthritis NOS	1
48	N05z6-1	Knee osteoarthritis NOS	1
49	N0946-1	Knee joint pain	1
50	N0946	Knee joint pain	1
51	N0846	Knee joint contracture	1
52	N0856	Knee joint ankylosis	1
53	N0966	Knee gives way	1
54	N216z	Knee enthesopathy NOS	1
55	N06z6-1	Knee arthritis NOS	1
56 57	N06z6	Knee arthritis NOS	1
58	ASDFGKN2	Knee Pain?	1
59	ASDFGKN6	Knee Pain Does Not Affect Sleep	1
60	ASDFGKN4	Knee Pain Affects Sleep?	1
	ASDFGKN5	Knee Pain Affects Sleep	1

ASDFGKN3         Knee Pain         1           MUNNUKN1         Knee Pain         1           MUNNUKN1         Knee Pain         1           MAWBYKN1         Knee Pain         1           N0836         Knee - recurrent dislocation         1           N13y1         Klippel's disease         1           N116         Kissing spine         1           N0600         Kaschin-Beck disStouter         1           N0601         Kaschin-Beck disShoulder         1           N0601         Kaschin-Beck disShoulder         1           N0608         Kaschin-Beck disShoulder         1           N0609         Kaschin-Beck disShoulder         1           N0600         Kaschin-Beck disShoulder         1           N0600         Kaschin-Beck disShoulder         1           N0600         Kaschin-Beck disShoulder         1           N0600         Kaschin-Beck disShoulder         1           N0700         1         N3200           Juvenile Pack disShoulder         1           N3200         Juvenile Pack disNOS         1           N0431         Juvenile Rimeral distriction distriction distriction distriction distriction distriction distriction distriction distriction distr	Read code	Description	Number of
MUNDUKN1         Knee Pain         1           MAWBYKN1         Knee Pain         1           N0836         Knee - recurrent dislocation         1           N13y1         Klippel's disease         1           N116         Kissing spine         1           N060         Keratoconjunctivitis sicca         1           N0600         Kaschin-Beck dissite unspec.         1           N0601         Kaschin-Beck dissitoulder         1           N0608         Kaschin-Beck disother specif         1           N0609         Kaschin-Beck disNOS         1           N0600         Kaschin-Beck disNOS         1           N0600         Kaschin-Beck disNOS         1           N3200         Juvenile spine osteochondr.NOS         1           N3200         Juvenile spine osteochondr.NOS         1           N3201         Juvenile rheumatoid arthr.insp         1           N0430         Juvenile rheumatoid arthr.NOS         1           N3262         Juvenile rheumatoid arthr.NOS         1           N3262         Juvenile osteochondroses NOS         1           N3262         Juvenile osteochondrosis NOS         1           N3263         Juvenile apphysitis NOS <t< td=""><td>ASDEGKN3</td><td>·</td><td></td></t<>	ASDEGKN3	·	
MAWBYKN1   Knee Pain   1   N0836   Knee - recurrent dislocation   1   N0836   Knee - recurrent dislocation   1   N1391   Klippel's disease   1   N116   Klissing spine   1   N002   Keratoconjunctivitis sicca   1   N0600   Kaschin-Beck dissite unspec.   1   N0600   Kaschin-Beck disshoulder   1   N0600   Kaschin-Beck disshoulder   1   N0609   Kaschin-Beck dishoulder   1   N0609   Kaschin-Beck dishoulder   1   N0609   Kaschin-Beck dishultipl.site   1   N0600   Kaschin-Beck dishultipl.site   1   N0600   Kaschin-Beck dishultipl.site   1   N0600   Kaschin-Beck dishultipl.site   1   N0800   Maschin-Beck dishultipl.site   1   N0800   Maschin-Beck dishultipl.site   1   N0800   Maschin-Beck dishultipl.site   1   N08200   Juvenile spine osteochondri.NOS   1   N3200   Maschin-Beck dishultipl.site   1   N0830   Maschin-Beck dishultipl.site   1   N0841   Maschin-Beck dishultipl.site   1   N0842   Maschin-Beck dishultipl.site   1   N0843   Maschin-Beck dishultipl.site   1   N0844   Maschin-Maschin-Maschin-Maschin-Maschin-Maschin-Beck dishultipl.site   1   N0848   Maschin-Beck dishultipl.site   1   N0848   Maschin-Beck dishultipl.site   1   N0848			
N836         Knee - recurrent dislocation         1           N13y1         Klippel's disease         1           N116         Kissing spine         1           N002         Keratoconjunctivitis sicca         1           N0600         Kaschin-Beck dissite unspec.         1           N0601         Kaschin-Beck disste unspec.         1           N0608         Kaschin-Beck dishoulter         1           N0609         Kaschin-Beck disNOS         1           N0602         Kaschin-Beck disNOS         1           N0603         Kaschin-Beck disNOS         1           N0604         Kaschin-Beck disNOS         1           N0605         Kaschin-Beck disNOS         1           N0606         Kaschin-Beck disNOS         1           N0800         Kaschin-Beck disNOS         1           N3202         Juverile spine osteochondr.NOS         1           N3203         Juverile spine osteochond.NOS         1           N3204         Juverile depine rematori darthr.NOS         1           N3283         Juverile depine rematori darthr.NOS         1           N3284         Juverile dermatori spine rematori spine remator			
N13y1         Klippel's disease         1           N116         Kissing spine         1           N002         Keratoconjunctivitis sicca         1           N0600         Kaschin-Beck dissite unspec.         1           N0601         Kaschin-Beck disshoulder         1           N0608         Kaschin-Beck disshoulder         1           N0609         Kaschin-Beck disMoS         1           N0600         Kaschin-Beck disNOS         1           N060         Kaschin-Beck disNOS         1           N060         Kaschin-Beck disNOS         1           N060         Kaschin-Beck disNOS         1           N060         Kaschin-Beck disNOS         1           N3200         Juvenile pinc osteochondr.NOS         1           N3200         Juvenile spine osteochond.unsp         1           N0430         Juvenile pinc osteochond.onsp         1           N0432         Juvenile rheumatoid arthr.NOS         1           N3263         Juvenile rheumatoid arthr.NOS         1           N3264         Juvenile osteochondrosis NOS         1           N3265         Juvenile osteochondrosis NOS         1           N3266         Juvenile spinystils NOS <t< td=""><td></td><td></td><td>1</td></t<>			1
N116			1
N002         Keratoconjunctivitis sicca         1           N0600         Kaschin-Beck dissite unspec.         1           N0601         Kaschin-Beck disshoulder         1           N0608         Kaschin-Beck disdrher specif         1           N0609         Kaschin-Beck disdrher specif         1           N0600         Kaschin-Beck disNOS         1           N0600         Kaschin-Beck disease         1           N3200         Juvenile spine osteochondr.NOS         1           N3200         Juvenile spine osteochondr.NOS         1           N3200         Juvenile spine osteochondr.NOS         1           N3200         Juvenile rheumatoid arthr.unsp         1           N432         Juvenile rheumatoid arthr.NOS         1           N3263         Juvenile osteochondrosis NOS         1           N3262         Juvenile osteochondroses NOS         1           N3262         Juvenile osteochondroses NOS         1           N3261         Juvenile osteochondroses NOS         1           N3262         Juvenile osteochondroses NOS         1           N3263         Juvenile osteochondroses NOS         1           N3264         Juvenile osteochondroses NOS         1	•	• • • • • • • • • • • • • • • • • • • •	
N0600         Kaschin-Beck dissite unspec.         1           N0601         Kaschin-Beck disshoulder         1           N0608         Kaschin-Beck disother specif         1           N0609         Kaschin-Beck disOther specif         1           N0600         Kaschin-Beck disNOS         1           N0600         Kaschin-Beck disease         1           N3200         Juvenile spine osteochondr.NOS         1           N3200         Juvenile spine osteochond.unsp         1           N0455         Juvenile rheumatoid arthr.unsp         1           N0430         Juvenile rheumatoid arthr.Unsp         1           N0432         Juvenile osteochondrosis NOS         1           N3263         Juvenile osteochondrosis NOS         1           N3266         Juvenile osteochondrosis NOS         1           N3262         Juvenile osteochondrosis NOS         1           N3261         Juvenile epiphysitis NOS         1           N0300         Juvenile epiphysitis NOS         1           N0432         Juvenile epiphysitis NOS         1           N0433         Juvenile apophysitis NOS         1           N0430         Juvenile epiphysitis NOS         1           N0431		<del>-</del> '	
N0601         Kaschin-Beck disshoulder         1           N0608         Kaschin-Beck disother specif         1           N0609         Kaschin-Beck dismultipl.site         1           N0602         Kaschin-Beck disNOS         1           N060         Kaschin-Beck disNOS         1           N0800         Kaschin-Beck disNOS         1           N0801         Juvenile spine osteochondr.NOS         1           N3202         Juvenile spine osteochond.unsp         1           N0430         Juvenile rheumatoid arthr.tiss         1           N0430         Juvenile rheumatoid arthr.NOS         1           N3263         Juvenile osteochondrosis NOS         1           N3263         Juvenile osteochondrosis NOS         1           N3264         Juvenile osteochondrosis NOS         1           N3265         Juvenile osteochondrosis NOS         1           N3266         Juvenile osteochondrosis NOS         1           N3261         Juvenile osteochondrosis NOS         1           N3260         Juvenile osteochondrosis NOS         1           N0431         Juvenile osteochondrosis NOS         1           N0432         Juvenile osteochondrosis NOS         1           N04		•	1
N0608         Kaschin-Beck disother specif           N0609         Kaschin-Beck disMoS         1           N0600         Kaschin-Beck disNOS         1           N060         Kaschin-Beck disNOS         1           N3200         Juvenile spine osteochondr.NOS         1           N3200         Juvenile spine osteochondr.NOS         1           N3200         Juvenile spine osteochondr.NOS         1           N0455         Juvenile rheumatoid arthritis         1           N0430         Juvenile rheumatoid arthritis         1           N0432         Juvenile rheumatoid arthr.NOS         1           N3263         Juvenile osteochondrosis NOS         1           N3263         Juvenile osteochondroses NOS         1           N3262         Juvenile osteochondrosis NOS         1           N3262         Juvenile epiphysitis NOS         1           N3261         Juvenile epiphysitis NOS         1           N3262         Juvenile epiphysitis NOS         1           N043         Juvenile apophysitis NOS         1           N043         Juvenile Arbritis fox         1           N043         Juvenile Arbritis fox         1           N0451         Juv arbritis in fox		·	1
N0609         Kaschin-Beck disNOS         1           N0602         Kaschin-Beck disNOS         1           N0600         Kaschin-Beck disease         1           N3202         Juvenile spine osteochond.unsp         1           N3200         Juvenile spine osteochond.unsp         1           N0455         Juvenile prince osteochond.unsp         1           N0430         Juvenile rheumatoid arthr.unsp         1           N0432         Juvenile heumatoid arthr.NOS         1           N3263         Juvenile osteochondrosis NOS         1           N3262         Juvenile osteochondroses NOS         1           N3262         Juvenile osteochondrosis NOS         1           N3261         Juvenile epiphysitis NOS         1           N3262         Juvenile epiphysitis NOS         1           N3263         Juvenile epiphysitis NOS         1           N3264         Juvenile epiphysitis NOS         1           N043         Juvenile epiphysitis NOS         1           N044         Juvenile epiphysi			
N060z         Kaschin-Beck disNOS         1           N060         Kaschin-Beck disease         1           N320z         Juvenile spine osteochondr.NOS         1           N3200         Juvenile spine osteochond.unsp         1           N4355         Juvenile rheumatoid arthr.unsp         1           N0430         Juvenile rheumatoid arthr.NOS         1           N3263         Juvenile rheumatoid arthr.NOS         1           N3263         Juvenile osteochondrosis NOS         1           N3262         Juvenile osteochondrosis NOS         1           N3262         Juvenile osteochondrosis NOS         1           N3261         Juvenile epiphysitis NOS         1           N3262         Juvenile dematomyositis         1           N3263         Juvenile ermatomyositis         1           N3264         Juvenile apophysitis NOS         1           N3285         Juvenile Archritis /oS         1           N3260         Juvenile apophysitis NOS         1           N43         Juvenile apophysitis NO		·	
N060         Kaschin - Beck disease         1           N320z         Juvenile spine osteochondr.NOS         1           N3200         Juvenile spine osteochond.unsp         1           N3200         Juvenile spine osteochond.unsp         1           N0455         Juvenile rheumatoid arthr.unsp         1           N0430         Juvenile rheumatoid arthr.unsp         1           N0432         Juvenile rheumatoid arthr.unsp         1           N0432         Juvenile rheumatoid arthr.unsp         1           N3263         Juvenile rheumatoid arthr.unsp         1           N3263         Juvenile stochondriss NOS         1           N3266         Juvenile osteochondriss NOS         1           N3267         Juvenile epiphysitis NOS         1           N3261         Juvenile dermatomyositis         1           N3262         Juvenile apophysitis NOS         1           N0300         Juvenile apophysitis NOS         1           N043         Juvenile Arthritis fox         1           N043         Juvenile Arthritis fox         1           N043         Juvenile Arthritis fox         1           N3243         Juv arthritis in toth         1           N0451         Juv se			
N3202         Juvenile spine osteochondr.NOS         1           N3200         Juvenile spine osteochond.unsp         1           N0455         Juvenile rheumatoid arthr.unsp         1           N0430         Juvenile rheumatoid arthr.unsp         1           N0432         Juvenile heumatoid arthr.NOS         1           N3263         Juvenile osteochondrosis NOS         1           N3262         Juvenile osteochondrosis NOS         1           N3263         Juvenile osteochondrosis NOS         1           N3264         Juvenile osteochondrosis NOS         1           N3265         Juvenile osteochondrosis NOS         1           N3266         Juvenile osteochondrosis NOS         1           N3267         Juvenile dermatomyositis         1           N3260         Juvenile dermatomyositis         1           N3280         Juvenile Arbritis NOS         1           N3280         Juvenile Arbritis in NOS         1           N3281         Juvenile Arbritis in Sorias         1           N3282         Juv osteochondrosis of spine         1           N3243         Juv seronegative polyarthritis         1           N3283         Juv arthritis in Crohn's dis         1			
N3200         Juvenile spine osteochond.unsp         1           N0455         Juvenile rheumatoid arthritis         1           N0430         Juvenile rheumatoid arthr.unsp         1           N0432         Juvenile osteochondrosis NOS         1           N3263         Juvenile osteochondrosis NOS         1           N3262         Juvenile osteochondroses NOS         1           N3262         Juvenile osteochondritis NOS         1           N3261         Juvenile epiphysitis NOS         1           N0300         Juvenile dermatomyositis         1           N3260         Juvenile apophysitis NOS         1           N043         Juvenile Arthritis in NOS         1           N043         Juvenile Arthritis in Sox         1           N3243         Juv.osteoch.secondary.pat.ctre         1           N0451         Juv seronegative polyarthritis         1           N3283         Juv osteochondrosis of spine         1           N0451         Juv seronegative polyarthritis         1           N3283         Juv arthritis in Crohn's dis         1           N0452         Juv arthritis in Crohn's dis         1           N0453         Juv arthritis in Crohn's dis         1 <td< td=""><td></td><td></td><td></td></td<>			
N0455         Juvenile rheumatoid arthr.unsp         1           N0430         Juvenile rheumatoid arthr.unsp         1           N0432         Juvenile rheumatoid arthr.NOS         1           N3263         Juvenile osteochondrosis NOS         1           N3262         Juvenile osteochondroses NOS         1           N3262         Juvenile osteochondritis NOS         1           N3261         Juvenile expohysitis NOS         1           N0030         Juvenile dermatomyositis         1           N03260         Juvenile apophysitis NOS         1           N043         Juvenile apohysitis NOS         1           N043         Juvenile Arbritis ions         1           N043         Juvenile Arbritis ions         1           N043         Juvenile Arbritis ions         1           N3243         Juv osteoch secondary patctre         1           N0451         Juv seronegative polyarthritis         1           N328         Juv osteochondrosis of spine         1           N0452         Juv arthritis in Crohn's dis         1           N0452         Juv arthritis in Crohn's dis         1           N0454         Juv arthritis in Crohn's dis         1           N0454 <t< td=""><td></td><td></td><td></td></t<>			
N0430         Juvenile rheumatoid arthr.unsp         1           N043z         Juvenile osteochondrosis NOS         1           N3263         Juvenile osteochondrosis NOS         1           N3262         Juvenile osteochondritis NOS         1           N3261         Juvenile epiphysitis NOS         1           N0303         Juvenile epiphysitis NOS         1           N043         Juvenile apophysitis NOS         1           N043         Juvenile Arthritis /ox         1           N3243         Juvenile Arthritis /ox         1           N3243         Juvenile Arthritis /ox         1           N3243         Juv costeoch.secondary.pat.ctre         1           N0451         Juv seronegative polyarthritis         1           N328         Juv osteochondrosis of spine         1           N0452         Juv arthritis in Crohn's dis         1           N0453         Juv arthritis in Crohn's dis         1           N0454         Juv arth in ulcerative colitis         1           N0455         Juv arthritis in Crohn's dis         1           N0900         Joint effusion-site unspecif.         1           N0901         Joint effusion-site unspecif.         1           N0902			
N043z         Juvenile rheumatoid arthr.NOS         1           N3263         Juvenile osteochondrosis NOS         1           N326z         Juvenile osteochondroses NOS         1           N3261         Juvenile osteochondroses NOS         1           N3261         Juvenile epiphysitis NOS         1           N0030         Juvenile dermatomyositis         1           N043         Juvenile apophysitis NOS         1           N043         Juvenile apophysitis NOS         1           N043         Juvenile Arthritis /ox         1           N043         Juvenile Arthritis /ox         1           N3243         Juv.osteoch.secondary.pat.ctre         1           N0451         Juv seronegative polyarthritis         1           N328         Juv osteochondrosis of spine         1           N0452         Juv arthritis in psoriasis         1           N0452         Juv arthritis in psoriasis         1           N0453         Juv arthritis in crohn's dis         1           N0454         Juv arth in ulcerative colitis         1           N0900         Joint effusion-shoulder region         1           N0901         Joint effusion-shoulder region         1           N082			
N3263         Juvenile osteochondrosis NOS         1           N326z         Juvenile osteochondroses NOS         1           N3262         Juvenile osteochondritis NOS         1           N3261         Juvenile epiphysitis NOS         1           N0030         Juvenile dermatomyositis         1           N0030         Juvenile dermatomyositis         1           N3260         Juvenile apophysitis NOS         1           N043         Juvenile Arthritis disease         1           OX7120DA         Juvenile Arthritis disease         1           OX7120DA         Juvenile Arthritis disease         1           N3243         Juv costeoch.secondary.pat.ctre         1           N0451         Juv seronegative polyarthritis         1           N3283         Juv osteochondrosis of spine         1           N0451         Juv seronegative polyarthritis         1           N0452         Juv arthritis in psoriasis         1           N0453         Juv arthritis in psoriasis         1           N0453         Juv arthritis in psoriasis         1           N0454         Juv arthritis in Crohn's dis           N0900         Joint effusion-site unspecif.         1           N0901         J		·	
N326z         Juvenile osteochondroses NOS         1           N3262         Juvenile osteochondritis NOS         1           N3261         Juvenile epiphysitis NOS         1           N0030         Juvenile dermatomyositis         1           N3260         Juvenile apophysitis NOS         1           N043         Juvenile R.A Still's disease         1           OX7120DA         Juvenile Arthritis /ox         1           N3243         Juv osteoch secondary pat.ctre         1           N0451         Juv seronegative polyarthritis         1           N0452         Juv arthritis in pooriasis         1           N0452         Juv arthritis in Crohn's dis         1           N0453         Juv arthritis in Crohn's dis         1           N0454         Juv arthritis in Crohn's dis         1           N0454         Juv arth in ulcerative colitis         1           N0900         Joint effusion-site unspecif.         1           N0901         Joint effusion-shoulder region         1           N0921         Joint dernagenent NOS         1           N08z         Joint derangenent NOS         1           N08z         Joint derange.NOS-site unspec.         1           N08z0			
N3262         Juvenile osteochondritis NOS         1           N3261         Juvenile epiphysitis NOS         1           N0030         Juvenile dermatomyositis         1           N3260         Juvenile apophysitis NOS         1           N043         Juvenile Arthritis /os         1           NV120DA         Juvenile Arthritis /os         1           N3243         Juv.osteoch.secondary.pat.ctre         1           N0451         Juv seronegative polyarthritis         1           N328         Juv osteoch.secondary.pat.ctre         1           N0451         Juv seronegative polyarthritis         1           N328         Juv osteoch.secondary.pat.ctre         1           N0451         Juv seronegative polyarthritis         1           N0452         Juv arthritis in Crohn's dis         1           N0453         Juv arthritis in Crohn's dis         1           N0453         Juv arthritis in Crohn's dis         1           N0454         Juv arthritis in Crohn's dis         1           N0900         Joint effusion-site unspecif.         1           N0901         Joint effusion-site unspecif.         1           N0902         Joint derange.NOS-shoulder         1           N08			1
N3261         Juvenile epiphysitis NOS         1           N0030         Juvenile dermatomyositis         1           N3260         Juvenile apophysitis NOS         1           N043         Juvenile R.A. Still's disease         1           OX7120DA         Juvenile R.A. Still's disease         1           OX7120DA         Juvenile Arthritis /ox         1           N3243         Juv osteoch.secondary.pat.ctre         1           N0451         Juv seronegative polyarthritis         1           N328         Juv osteochondrosis of spine         1           N0452         Juv arthritis in psoriasis         1           N0453         Juv arthritis in Crohn's dis         1           N0453         Juv arthritis in Crohn's dis         1           N0454         Juv arth in ulcerative colitis         1           N0900         Joint effusion-shoulder region         1           N0901         Joint effusion-shoulder region         1           N0902         Joint derangenment NOS         1           N08z         Joint derangement NOS         1           N08z         Joint derange.NOS-shoulder         1           N08z0         Joint derange.NOS-shoulder         1           N08z7			1
N0030         Juvenile dermatomyositis         1           N3260         Juvenile apophysitis NOS         1           N043         Juvenile A.A Still's disease         1           OX7120DA         Juvenile Arthritis /ox         1           N3243         Juv. osteoch. secondary. pat. ctre         1           N0451         Juv seronegative polyarthritis         1           N328         Juv osteochondrosis of spine         1           N0452         Juv arthritis in psoriasis         1           N0453         Juv arthritis in Crohn's dis         1           N0454         Juv arth in ulcerative colitis         1           N0900         Joint effusion-site unspecif.         1           N0901         Joint effusion-shoulder region         1           N0902         Joint effusion-shoulder region         1           N0921         Joint disord.NOS-shoulder         1           N08z         Joint derangement NOS         1           N08z         Joint derangement NOS         1           N08z0         Joint derange.NOS-site unspec.         1           N08z1         Joint derange.NOS-shoulder         1           N08z2         Joint derange.NOS-other spec.         1           N08z8<			_
N3260         Juvenile apophysitis NOS         1           N043         Juvenile R.A Still's disease         1           OX7120DA         Juvenile Arthritis /ox         1           N3243         Juv osteoch.secondary.pat.ctre         1           N0451         Juv seronegative polyarthritis         1           N328         Juv osteochondrosis of spine         1           N0452         Juv arthritis in psoriasis         1           N0453         Juv arthritis in Crohn's dis         1           N0454         Juv arth in ulcerative colitis         1           N0900         Joint effusion-site unspecif.         1           N0901         Joint effusion-shoulder region         1           N0902         Joint effusion-shoulder region         1           N0921         Joint disord NOS-shoulder         1           N0822         Joint derangement NOS         1           N0823         Joint derangement NOS         1           N0820         Joint derange.NOS-shoulder         1           N0821         Joint derange.NOS-shoulder         1           N0827         Joint derange.NOS-multipl.site         1           N052         Joint degeneration         1           N0840			
N043         Juvenile R.A Still's disease         1           OX7120DA         Juvenile Arthritis /ox         1           N3243         Juv.osteoch.secondary.pat.ctre         1           N0451         Juv seronegative polyarthritis         1           N328         Juv osteochondrosis of spine         1           N0452         Juv arthritis in psoriasis         1           N0453         Juv arthritis in Crohn's dis         1           N0454         Juv arth in ulcerative colitis         1           N0900         Joint effusion-site unspecif.         1           N0901         Joint effusion-shoulder region         1           N0908         Joint effusion-shoulder region         1           N0921         Joint derangen-shoulder region         1           N082         Joint derangement NOS         1           N082         Joint derangement NOS         1           N08z         Joint derange.NOS-shoulder         1           N08z0         Joint derange.NOS-shoulder         1           N08z1         Joint derange.NOS-multipl.site         1           N08z8         Joint derange.NOS-multipl.site         1           N05z         Joint degeneration         1           N0840		· · · · · · · · · · · · · · · · · · ·	
OX7120DA         Juvenile Arthritis /ox         1           N3243         Juv.osteoch.secondary.pat.ctre         1           N0451         Juv seronegative polyarthritis         1           N328         Juv osteochondrosis of spine         1           N0452         Juv arthritis in psoriasis         1           N0453         Juv arthritis in Crohn's dis         1           N0454         Juv arth in ulcerative colitis         1           N0900         Joint effusion-site unspecif.         1           N0901         Joint effusion-shoulder region         1           N0902         Joint effusion-shoulder region         1           N0921         Joint deffusion-shoulder         1           N0822         Joint derangement NOS         1           N08z2         Joint derangement NOS         1           N08z2         Joint derange.NOS-shoulder         1           N08z0         Joint derange.NOS-shoulder         1           N08z7         Joint derange.NOS-other spec.         1           N08z8         Joint derange.NOS-multipl.site         1           N05z.11         Joint degeneration         1           N0840         Joint contracture-site unspec         1           N0841			
N3243         Juv.osteoch.secondary.pat.ctre         1           N0451         Juv seronegative polyarthritis         1           N328         Juv osteochondrosis of spine         1           N0452         Juv arthritis in psoriasis         1           N0453         Juv arthritis in Crohn's dis         1           N0454         Juv arth in ulcerative colitis         1           N0900         Joint effusion-site unspecif.         1           N0901         Joint effusion-shoulder region         1           N0902         Joint effusion-other specif.         1           N0901         Joint deffusion-other specif.         1           N0902         Joint deffusion-other specif.         1           N0903         Joint deffusion-other specif.         1           N0804         Joint derangement NOS         1           N082         Joint derangement NOS         1           N082z         Joint derange.NOS-site unspec.         1           N082d         Joint derange.NOS-shoulder         1           N0827         Joint derange.NOS-multipl.site         1           N052         Joint degeneration         1           N0840         Joint contracture-site unspec         1           N084			
N0451       Juv seronegative polyarthritis       1         N328       Juv osteochondrosis of spine       1         N0452       Juv arthritis in psoriasis       1         N0453       Juv arthritis in Crohn's dis       1         N0454       Juv arth in ulcerative colitis       1         N0900       Joint effusion-site unspecif.       1         N0901       Joint effusion-shoulder region       1         N0908       Joint effusion-other specif.       1         N0921       Joint disord.NOS-shoulder       1         N08z       Joint derangement NOS       1         N08z2       Joint derange.NOS-site unspec.       1         N08z0       Joint derange.NOS-site unspec.       1         N08z1       Joint derange.NOS-shoulder       1         N08z7       Joint derange.NOS-multipl.site       1         N08z8       Joint derange.NOS-multipl.site       1         N05z.11       Joint degeneration       1         N05z       Joint degeneration       1         N0840       Joint contracture-site unspec       1         N0841       Joint contracture-shoulder       1         N0848       Joint contracture-other specif       1         N0850			
N328         Juv osteochondrosis of spine         1           N0452         Juv arthritis in psoriasis         1           N0453         Juv arthritis in Crohn's dis         1           N0454         Juv arth in ulcerative colitis         1           N0900         Joint effusion-site unspecif.         1           N0901         Joint effusion-shoulder region         1           N0908         Joint effusion-other specif.         1           N0921         Joint disord.NOS-shoulder         1           N08z         Joint derangement NOS         1           N08z2         Joint derangement NOS         1           N08z0         Joint derange.NOS-site unspec.         1           N08z1         Joint derange.NOS-shoulder         1           N08z7         Joint derange.NOS-other spec.         1           N08z8         Joint derange.NOS-multipl.site         1           N05z.11         Joint degeneration         1           N05z         Joint degeneration         1           N0840         Joint contracture-site unspec         1           N0841         Joint contracture-shoulder         1           N0848         Joint contracture-other specif         1           N0850 <t< td=""><td></td><td></td><td></td></t<>			
N0452       Juv arthritis in psoriasis       1         N0453       Juv arthritis in Crohn's dis       1         N0454       Juv arth in ulcerative colitis       1         N0900       Joint effusion-site unspecif.       1         N0901       Joint effusion-shoulder region       1         N0908       Joint effusion-other specif.       1         N0921       Joint disord.NOS-shoulder       1         N08z       Joint derangement NOS       1         N08z2       Joint derangement NOS       1         N08z0       Joint derange.NOS-site unspec.       1         N08z1       Joint derange.NOS-shoulder       1         N08z7       Joint derange.NOS-other spec.       1         N08z8       Joint derange.NOS-multipl.site       1         N05z.11       Joint degeneration       1         N05z       Joint degeneration       1         N0840       Joint contracture-site unspec       1         N0841       Joint contracture-shoulder       1         N0848       Joint contracture-other specif       1         N0850       Joint ankylosis-site unspecif.       1         N0851       Joint ankylosis-shoulder       1         N0858       Joint			
N0453       Juv arthritis in Crohn's dis       1         N0454       Juv arth in ulcerative colitis       1         N0900       Joint effusion-site unspecif.       1         N0901       Joint effusion-shoulder region       1         N0908       Joint effusion-other specif.       1         N0921       Joint defusion.NOS-shoulder       1         N08z       Joint derangement NOS       1         N08z2       Joint derange.NOS-shoulder       1         N08z0       Joint derange.NOS-site unspec.       1         N08z1       Joint derange.NOS-shoulder       1         N08z7       Joint derange.NOS-multipl.site       1         N08z8       Joint derange.NOS-multipl.site       1         N05z.11       Joint degeneration       1         N05z       Joint degeneration       1         N0840       Joint contracture-site unspec       1         N0841       Joint contracture-shoulder       1         N0848       Joint contracture-other specif       1         N0850       Joint ankylosis-site unspecif.       1         N0851       Joint ankylosis-shoulder       1         N0858       Joint ankylosis-other specif.       1         ASDFGJO2			
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N09z1       Joint disord.NOS-shoulder       1         N08z       Joint derangement NOS       1         N08z2       Joint derangement NOS       1         N08z0       Joint derange.NOS-site unspec.       1         N08z1       Joint derange.NOS-shoulder       1         N08z7       Joint derange.NOS-other spec.       1         N08z8       Joint derange.NOS-multipl.site       1         N05z.11       Joint degeneration       1         N05z       Joint degeneration       1         N0840       Joint contracture-site unspec       1         N0841       Joint contracture-shoulder       1         N0848       Joint contracture-other specif       1         N0850       Joint ankylosis-site unspecif.       1         N0851       Joint ankylosis-shoulder       1         N0858       Joint ankylosis-other specif.       1         ASDFGJO2       Joint Symptoms       1         ASDFGJO3       Joint Pain       1			1
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N0848Joint contracture-other specif1N0850Joint ankylosis-site unspecif.1N0851Joint ankylosis-shoulder1N0858Joint ankylosis-other specif.1ASDFGJO2Joint Symptoms1ASDFGJO3Joint Pain1		·	1
N0850Joint ankylosis-site unspecif.1N0851Joint ankylosis-shoulder1N0858Joint ankylosis-other specif.1ASDFGJO2Joint Symptoms1ASDFGJO3Joint Pain1		Joint contracture-shoulder	1
N0851Joint ankylosis-shoulder1N0858Joint ankylosis-other specif.1ASDFGJO2Joint Symptoms1ASDFGJO3Joint Pain1		·	1
N0858Joint ankylosis-other specif.1ASDFGJO2Joint Symptoms1ASDFGJO3Joint Pain1		Joint ankylosis-site unspecif.	1
ASDFGJO2 Joint Symptoms 1 ASDFGJO3 Joint Pain 1		Joint ankylosis-shoulder	1
ASDFGJO3 Joint Pain 1		Joint ankylosis-other specif.	1
		Joint Symptoms	1
N3841 Isthmic spondylolisthesis 1		Joint Pain	1
	N3841	Isthmic spondylolisthesis	1

Read code	Description	Number of studies
S531	Ischiocapsular sprain	1
N23yB	Ischaemic infarction of muscle	1
N123-1	Intervertebral disc prol. NOS	1
N12z	Intervertebral disc lesion NOS	1
OX7259AP	Intervertebral Disc Prolapsed /ox	1
N3y05	Intervert disc sten neur canal	1
N23y0	Interstitial myositis	1
N07z	Internal knee derangement NOS	1
N07	Internal derangement of knee	1
N1350	Intermittent torticollis	1
N090W	Intermittent hydrarthrosis	1
N084E	Int rotat contracture-shoulder	1
N08y	Instability of joint	1
SJ7z	Injury to other nerve NOS	1
SKz	Injury NOS	1
OX9967C	Injury Knee /ox	1
SJ9	Injur/nerv+spinl crd/thorx lev	1
SJB	Inj/nerves/should+upp arm levl	1
S46C	Inj/multipl structures of knee	1
S5Q6	Inj tendon rotator cuff should	1
N2166	Infrapatellar bursitis	1
N10	Inflammatory spondylopathies	1
N04	Inflammatory polyarthropathy	1
N04*	Inflammatory arthropathy	1
N10y0	Inflamm.spondylop.in dis. EC	1
N04z	Inflamm.polyarthropathy NOS	1
S4103	Inferior dislocation shoulder	1
N2302	Infective myositis-shoulder	1
N2300	Infective myositis-neck	1
N2301	Infective myositis-back	1
N01z	Infective arthritis NOS	1
N01zz	Infective arthritis NOS	1
N302B	Infection of thoracic spine	1
N302G	Infection of scapula	1
N302R	Infaction of patolla	1
N302Z	Infection of multiple bones	1
N302C	Infection of patena Infection of multiple bones Infection of lumbar spine	1
N302F	Infection of clavicle	1
N302A	Infection of cervical spine	1
N01z0	Infect.arthr.NOS-site unspecif	1
N01z1	Infect.arthr.NOS-shoulder reg	1
N01zy	Infect.arthr.NOS-other specifi	1
N01zx	Infect.arthr.NOS-multiple site	1
N12zG	Infect intervert disc - pyogen	1
N01z8	Infec arthritis NOS-shoulder	1
N01zK	Infec arthritis NOS-knee	1
N01z9	Infec arthr NOS-sternoclav jt	1
N01zA	Infec arth NOS-acromioclav jt	1
N23y5	Inappropriate firing of muscle	1
N2124	Impingement syndr of shoulder	1
N2331	Immobility syndrome	1
N2159	lliotibial band syndrome	1
	monoral barra dyriardine	l l

Read code	Description	Number of studies
N3730	Idiopathic scoliosis	1
N3303	Idiopathic osteoporosis	1
N1407	Idiopathic lu spinal stenosis	1
N3731	Idiopathic kyphoscoliosis	1
N33z7	Idiopathic hypertrophy of bone	1
N1300	Idiopathic Cx spinal stenosis	1
N3316	Idiopath osteopor + path fract	1
N3348	Idiopath asep necrosis of bone	1
N1405	latrogenic th spinal stenosis	1
N1409	latrogenic lu spinal stenosis	1
N1302	latrogenic Cx spinal stenosis	1
C04*	Hypothyroidism	1
N2431	Hypertrophy of knee fat pad	1
N33z4	Hypertrophy of bone	1
N3382	Hypertrophic non-union of #	1
N312	Hypertroph.pulm.osteoarthrop.	1
N02y8	Hydroxyapatite deposition dis	1
N2225	Housemaids knee	1
N0707	Horiz cleavage tear-med menisc	1
N0718	Horiz cleavage tear-lat menisc	1
N094K-2	Hip pain	1
N05z5	Hip osteoarthritis NOS	1
N05z5-1	Hip osteoarthritis NOS	1
N0535	Hip osteoarthitis NOS	1
N0535-2	Hip osteoarthitis NOS	1
N06z5	Hip arthritis NOS	1
N0809	Hill-Sachs lesion	1
N245-5	Heel pain	1
N0507	Heberden's nodes with arthropathy	1
N245-4	Hand pain	1
N2450	Hand pain	1
N0944-1	Hand joint pain	1
N06z4-1	Hand arthritis NOS	1
N068	Haemophilic arthropathy	1
N091B	Haemarthrosis-sternoclav joint	1
N0910	Haemarthrosis-site unspecified	1
N0911	Haemarthrosis-shoulder	1
N0918	Haemarthrosis-other specified	1
N0919	Haemarthrosis-multiple joints	1
N091C	Haemarthrosis-acromioclav jt	1
N0916	Haemarthrosis of the knee	1
N091A	Haemarthrosis of shoulder	1
N091M	Haemarthrosis of knee	1
N091z	Haemarthrosis NOS	1
N091	Haemarthrosis	1
N083M	Habitual sublux shoulder	1
N083L	Habitual disloc shoulder	1
N083r	Habitual disloc - patella	1
14G8	H/O: vertebral fracture	1
14G1	H/O: rheumatoid arthritis	1
14G2	H/O: osteoarthritis	1
14GZ	H/O: musculo-skeletal dis. NOS	1
14G3	H/O: knee problem	1

Studies   Horizontal   Horizo	Read code	Description	Number of
14G4		· ·	studies
14T5			1
14V6		·	
14N30		· · · · · · · · · · · · · · · · · · ·	•
14N30			•
18Z2			•
S37.00         Greenstick fracture         1           N0230         Gouty arthritis-site unspecif.         1           N0231         Gouty arthritis-shoulder         1           N0232         Gouty arthritis-multiple sites         1           N023x         Gouty arthritis MOS         1           N023         Gouty arthritis         1           N223         Gouty arthritis         1           N231-1         Golfer's elbow         1           N200         Grt cell arter-polymyalg rheum         1           ECTON444         Gluteal Muscle Injury         1           N0873         Glenoid labrum tear         1           N0872         Glenoid labrum detachment         1           N365         Genu recurvatum - acquired         1           N0502         Generalised osteoarthritis NOS         1           N0502         Generalised osteoarthritis NOS         1           N0500         Generalised osteoarthritis NOS         1           N0500         Generalised arthritis         0           N0500         Generalised ot-site unspecif.         1           N0500         Generalised OA-site unspecif.         1           N0500         Generalised OA-multiple sites		· · · · · · · · · · · · · · · · · · ·	•
N0230         Gouty arthritis-shoulder         1           N0231         Gouty arthritis-shoulder         1           N023y         Gouty arthritis-offer specif.         1           N023x         Gouty arthritis Houses         1           N023z         Gouty arthritis NOS         1           N023         Gouty arthritis         1           N023         Gouty arthritis         1           N023         Gouty arthritis         1           N023         Gouty arthritis         1           N023         Gouty arthritis HOS         1           N020         Gouty arthritis HOS         1           N200         Gouty arthritis HOS         1           N200         Gret all arthritis         1           N200         Gret el arter + polymyalg rheum         1           EGTON444         Gluteal Muscle Injury         1           N873         Glenoid labrum tear         1           N0872         Glenoid labrum tear         1           N0872         Glenoid labrum tear         1           N0502         Generalised Osteoarthritis NOS         1           N0502         Generalised osteoarthritis NOS         1           N0503         Gener		<del>-</del> •	•
N0231         Gouty arthritis-shoulder         1           N023y         Gouty arthritis-other specif.         1           N023z         Gouty arthritis NOS         1           N023         Gouty arthritis NOS         1           N023         Gouty arthritis NOS         1           N200         Golfer's elbow         1           N200         Gnt cell arter-polymyalg rheum         1           EGTON444         Gluteal Muscle Injury         1           N0873         Glenoid labrum tear         1           N0872         Glenoid labrum detachment         1           N365         Genu recurvatum - acquired         1           N0502         Generalised osteoarthritis NOS         1           N0502         Generalised osteoarthritis NOS         1           N0502         Generalised osteoarthritis NOS         1           N0500         Generalised arthritis         0           N0500         Generalised osteoarthritis - OA         1           N065A         Generalised arthritis         1           N065AO         Generalised arthritis         1           N05020         Generalised OA-site unspecif.         1           N05020         Generalised OA-multiple sites			-
N023y         Gouty arthritis-other specif.         1           N023x         Gouty arthritis NOS         1           N023z         Gouty arthritis NOS         1           N023         Gouty arthritis         1           N211-1         Golfer's elbow         1           N2200         Gnt cell arter-polymyalg rheum         1           EGTON444         Gluteal Muscle Injury         1           N0873         Glenoid labrum tear         1           N0872         Glenoid labrum detachment         1           N365         Genu recurvatum - acquired         1           N0502         Generalised osteoarthritis NOS         1           N050200         Generalised osteoarthritis NOS         1           N0502         Generalised osteoarthritis - OA         1           N0503         Generalised osteoarthritis - OA         1           N0504         Generalised osteoarthritis - OA         1           N0505         Generalised OA-site unspecif.         1           N065A         Generalised OA-site unspecif.         1           N0500         Generalised OA-site unspecif.         1           N05020         Generalised OA-multiple sites         1           N0502         Generali		·	_
N023x         Gouty arthritis NOS         1           N023z         Gouty arthritis         1           N023         Gouty arthritis         1           N220         Gotty arthritis         1           N200         Gnt cell arter-polymyalg rheum         1           EGTON444         Gluteal Muscle Injury         1           N0873         Glenoid labrum tear         1           N0872         Glenoid labrum detachment         1           N365         Genu recurvatum - acquired         1           N050z         Generalised osteoarthritis NOS         1           N050z         Generalised OA-site unspecif.         1           N050z         Generalised OA-s		•	
N023z         Gouty arthritis NOS         1           N023         Gouty arthritis         1           N2131-1         Golfer's elbow         1           N200         Gnt cell arter+polymyalg rheum         1           EGTON444         Gluteal Muscle Injury         1           N0873         Glenoid labrum tear         1           N0872         Glenoid labrum detachment         1           N365         Genu recurvatum - acquired         1           N05020         Generalised osteoarthritis NOS         1           N050200         Generalised osteoarthritis - OA         1           N0500         Generalised osteoarthritis - OA         1           N0500         Generalised osteoarthritis - OA         1           N065A         Generalised arthritis         1           N065A         Generalised osteoarthritis - OA         1           N065A         Generalised arthritis         1           N05000         Generalised arthritis         1           N05000         Generalised OA-site unspecif.         1           N05020         Generalised OA-multiple sites         1           N0502         Generalised OA-multiple sites         1           N0501         Generalised OA-mul	•	,	•
N023         Gouty arthritis         1           N2131-1         Golfer's elbow         1           N200         Gnt cell arter+polymyalg rheum         1           EGTON444         Gluteal Muscle Injury         1           N0873         Glenoid labrum tear         1           N0872         Glenoid labrum detachment         1           N365         Genu recurvatum - acquired         1           N0502         Generalised osteoarthritis NOS         1           N050200         Generalised osteoarthritis NOS         1           N0504         Generalised osteoarthritis - OA         1           N0505         Generalised osteoarthritis - OA         1           N0506         Generalised osteoarthritis - OA         1           N0507         Generalised osteoarthritis - OA         1           N0508         1         0           N0509         Generalised osteoarthritis - OA         1           N05000         Generalised OA-site unspecif.         1           N05000         Generalised OA-site unspecif.         1           N05000         Generalised OA-multiple sites         1           N0501         Generalised OA-multiple sites         1           N0502         Generalise		· · · · · · · · · · · · · · · · · · ·	•
N2131-1         Golfer's elbow         1           N200         Gnt cell arter-polymyalg rheum         1           EGTON444         Gluteal Muscle Injury         1           N0873         Glenoid labrum tear         1           N0872         Glenoid labrum detachment         1           N365         Genu recurvatum - acquired         1           N0502         Generalised osteoarthritis NOS         1           N050200         Generalised osteoarthritis NOS         1           N050200         Generalised osteoarthritis - OA         1           N0503         Generalised osteoarthritis - OA         1           N0504         Generalised osteoarthritis - OA         1           N0505         Generalised osteoarthritis - OA         1           N0506         Generalised osteoarthritis - OA         1           N0507         Generalised otheoarthritis - OA         1           N0508         Generalised otheoarthritis - OA         1           N0509         Generalised OA-site unspecif.         1           N05000         Generalised OA-site unspecif.         1           N05020         Generalised OA-multiple sites         1           N05021         Generalised OA-multiple sites         1      <			•
N200         Gnt cell arter+polymyalg rheum         1           EGTON444         Gluteal Muscle Injury         1           N0873         Glenoid labrum tear         1           N0872         Glenoid labrum detachment         1           N365         Genu recurvatum - acquired         1           N0502         Generalised osteoarthritis NOS         1           N0500         Generalised osteoarthritis NOS         1           N050         Generalised osteoarthritis - OA         1           N050.0         Generalised osteoarthritis - OA         1           N050.0         Generalised osteoarthritis - OA         1           N050.0         Generalised arthritis         1           N065A         Generalised arthritis         1           N05000         Generalised OA-site unspecif.         1           N05000         Generalised OA-multiple sites         1           N05020         Generalised OA-multiple sites         1           N0501         Generalised OA-multiple sites         1           N0502         Generalised OA-multiple sites         1           N0503         Generalised OA-multiple sites         1           N0504         Generalised OA-multiple sites         1           <			•
EGTON444   Gluteal Muscle Injury   1   1   1   1   1   1   1   1   1			•
N0873         Glenoid labrum tear         1           N0872         Glenoid labrum detachment         1           N365         Genu recurvatum - acquired         1           N0502         Generalised osteoarthritis NOS         1           N050200         Generalised osteoarthritis NOS         1           N050         Generalised osteoarthritis - OA         1           N050         Generalised osteoarthritis - OA         1           N050         Generalised osteoarthritis - OA         1           N050         Generalised otheoarthritis - OA         1           N050         Generalised arthritis         1           N065A0         Generalised arthritis         1           N05000         Generalised OA-site unspecif.         1           N05000         Generalised OA-site unspecif.         1           N05020         Generalised OA-multiple sites         1           N05021         Generalised OA-multiple sites         1           N05022         Generalised OA-multiple sites         1           N0503         Generalised OA-multiple sites         1           N0504         Generalised OA-multiple sites         1           N0505         Generalised OA-multiple sites         1			
N0872         Glenoid labrum detachment         1           N365         Genu recurvatum - acquired         1           N050z         Generalised osteoarthritis NOS         1           N050z00         Generalised osteoarthritis NOS         1           N050         Generalised osteoarthritis - OA         1           N050.0         Generalised osteoarthritis - OA         1           N065A         Generalised arthritis         1           N065A00         Generalised A-site unspecif.         1           N05000         Generalised OA-site unspecif.         1           N05000         Generalised OA-multiple sites         1           N050200         Generalised OA-multiple sites         1           N0501         Generalised OA-hand         1           N224z         Ganglion/synovial cyst NOS         1           N224z         Ganglion/synov.cyst - knee         1           N224-92         Ganglion of wist         1           N2245         Ganglion of wrist         1           N2245         Ganglion of brot         1           N2246         Ganglion of foot         1           EMISRAQFU2         Fusion Of Lumbar Spine         1           EMISRAQFU1         Fusion Of Cer		* *	
N365         Genu recurvatum - acquired         1           N050z         Generalised osteoarthritis NOS         1           N050z00         Generalised osteoarthritis NOS         1           N050         Generalised osteoarthritis - OA         1           N050.0         Generalised osteoarthritis - OA         1           N050.0         Generalised arthritis         1           N065A0         Generalised Arthritis         1           N05000         Generalised OA-site unspecif.         1           N0500         Generalised OA-site unspecif.         1           N0500         Generalised OA-multiple sites         1           N0502         Generalised OA-multiple sites         1           N0501         Generalised OA-hand         1           N224z         Ganglion/synovial cyst NOS         1           N224d         Ganglion/synov.cyst - knee         1           N2249         Ganglion in unspecified         1           N2249         Ganglion of wrist         1           N2242         Ganglion of knee         1           N2243         Ganglion of knee         1           N2244         Ganglion of knee         1           N2245         Ganglion of knee			
N050z         Generalised osteoarthritis NOS         1           N050z00         Generalised osteoarthritis NOS         1           N050         Generalised osteoarthritis - OA         1           N050.0         Generalised osteoarthritis - OA         1           N065A         Generalised arthritis         1           N065A00         Generalised arthritis         1           N05000         Generalised OA-site unspecif.         1           N05000         Generalised OA-site unspecif.         1           N050200         Generalised OA-multiple sites         1           N0502         Generalised OA-multiple sites         1           N0501         Generalised OA-hand         1           N0224z         Ganglion/synovial cyst NOS         1           N224d         Ganglion/synovial cyst NOS         1           N224d         Ganglion synov.cyst - knee         1           N2242y2         Ganglion of wist         1           N2243         Ganglion of wist         1           N2245         Ganglion of wist         1           N2246         Ganglion of heee         1           N2247         Ganglion of fort         1           N2248         Ganglion of wist         <			•
N050200         Generalised osteoarthritis NOS         1           N050         Generalised osteoarthritis - OA         1           N050.0         Generalised osteoarthritis - OA         1           N050.0         Generalised arthritis         1           N055A0         Generalised arthritis         1           N05000         Generalised OA-site unspecif.         1           N0500         Generalised OA-site unspecif.         1           N050200         Generalised OA-multiple sites         1           N0502         Generalised OA-multiple sites         1           N0501         Generalised OA-multiple sites         1           N0501         Generalised OA-hand         1           N224z         Ganglion/synov.cyst - knee         1           N224d         Ganglion/synov.cyst - knee         1           N224d         Ganglion of wrotyst - knee         1           N2243         Ganglion unspecified         1           N2245         Ganglion of tendon sheath         1           N2246         Ganglion of tendon sheath         1           N2241         Ganglion of both         1           N2242         Ganglion of foot         1           EMISR4QFU2         Fusion Of			•
N050         Generalised osteoarthritis - OA         1           N050.0         Generalised osteoarthritis - OA         1           N065A         Generalised arthritis         1           N065A00         Generalised arthritis         1           N05000         Generalised OA-site unspecif.         1           N0500         Generalised OA-site unspecif.         1           N050200         Generalised OA-multiple sites         1           N0502         Generalised OA-multiple sites         1           N0501         Generalised OA-hand         1           N224z         Ganglion/synovial cyst NOS         1           N224d         Ganglion/synov.cyst - knee         1           N2244         Ganglion/synov.cyst - knee         1           N2243         Ganglion unspecified         1           N2243         Ganglion of wrist         1           N2245         Ganglion of wrist         1           N2246         Ganglion of fendon sheath         1           N2241         Ganglion of foot         1           EMISR4QFU2         Fusion Of Lumbar Spine         1           EMISR4QFU2         Fusion Of Cervical Spine         1           N2115         Full thickn rotator cuff t			•
N050.0         Generalised osteoarthritis - OA         1           N065A         Generalised arthritis         1           N065A00         Generalised arthritis         1           N05000         Generalised OA-site unspecif.         1           N05000         Generalised OA-site unspecif.         1           N050200         Generalised OA-multiple sites         1           N0502         Generalised OA-multiple sites         1           N0501         Generalised OA-hand         1           N224z         Ganglion/synovial cyst NOS         1           N224         Ganglion/synovial cyst NOS         1           N224         Ganglion/synov.cyst - knee         1           N224-92         Ganglion/synov.cyst - knee         1           N2243         Ganglion inspecified         1           N2245         Ganglion of wrist         1           N2242         Ganglion of knee         1           N2243         Ganglion of knee         1           N2244         Ganglion of forte         1           N2245         Ganglion of but         1           N2246         Ganglion of forte         1           EMISR4QFU2         Fusion Of Lumbar Spine         1			•
N065A         Generalised arthritis         1           N065A00         Generalised arthritis         1           N05000         Generalised OA-site unspecif.         1           N0500         Generalised OA-site unspecif.         1           N050200         Generalised OA-multiple sites         1           N0502         Generalised OA-multiple sites         1           N0501         Generalised OA-hand         1           N224z         Ganglion/synov.cyst NOS         1           N224z         Ganglion/synov.cyst - knee         1           N224 92         Ganglion/synov.cyst - knee         1           N2243         Ganglion unspecified         1           N2245         Ganglion of wrist         1           N2242         Ganglion of tendon sheath         1           N2241         Ganglion of knee         1           N2242         Ganglion of foot         1           EMISR4QFU2         Fusion Of Lumbar Spine         1           EMISR4QFU1         Fusion Of Cervical Spine         1           N2115         Full thickn rotator cuff tear         1           N331N         Fragility # unsp osteoporosis         1           S10B         Fracture/lumbar spine+pelvis			1
N065A00         Generalised arthritis         1           N05000         Generalised OA-site unspecif.         1           N0500         Generalised OA-site unspecif.         1           N050200         Generalised OA-multiple sites         1           N0502         Generalised OA-multiple sites         1           N0501         Generalised OA-hand         1           N224z         Ganglion/synovial cyst NOS         1           N224         Ganglion/synov.cyst - knee         1           N224-92         Ganglion of synov.cyst - knee         1           N2243         Ganglion of synov.cyst - knee         1           N2245         Ganglion of wrist         1           N2242         Ganglion of wrist         1           N2242         Ganglion of tendon sheath         1           N2246         Ganglion of knee         1           N2241         Ganglion of joint         1           N2242         Ganglion of foot         1           EMISRAQFU2         Fusion Of Cervical Spine         1           EMISRAQFU1         Fusion Of Cervical Spine         1           N2115         Full thickn rotator cuff tear         1           N210-2         Frozen shoulder <t< td=""><td></td><td></td><td>1</td></t<>			1
N05000         Generalised OA-site unspecif.         1           N0500         Generalised OA-site unspecif.         1           N050200         Generalised OA-multiple sites         1           N0502         Generalised OA-multiple sites         1           N0501         Generalised OA-hand         1           N224z         Ganglion/synovial cyst NOS         1           N224         Ganglion/synov.cyst - knee         1           N224-92         Ganglion/synov.cyst - knee         1           N2243         Ganglion unspecified         1           N2245         Ganglion of wrist         1           N2242         Ganglion of tendon sheath         1           N2246         Ganglion of tendon sheath         1           N2247         Ganglion of fonce         1           N2248         Ganglion of fendon         1           N2249         Ganglion of fendon         1           N2240         Ganglion of fendon         1           N2241         Ganglion of foot         1           EMISR4QFU2         Fusion Of Cervical Spine         1           N2115         Full thickn rotator cuff tear         1           N210-2         Frozen shoulder         1			-
N0500         Generalised OA-site unspecif.         1           N050200         Generalised OA-multiple sites         1           N0502         Generalised OA-multiple sites         1           N0501         Generalised OA-hand         1           N224z         Ganglion/synovial cyst NOS         1           N2244         Ganglion/synov.cyst - knee         1           N22492         Ganglion/synov.cyst - knee         1           N2243         Ganglion unspecified         1           N2243         Ganglion unspecified         1           N2245         Ganglion of wrist         1           N2242         Ganglion of wrist         1           N2242         Ganglion of tendon sheath         1           N2244         Ganglion of fonee         1           N2241         Ganglion of joint         1           N2242         Ganglion of foot         1           EMISRAQFU2         Fusion Of Lumbar Spine         1           EMISRAQFU1         Fusion Of Cervical Spine         1           N2115         Full thickn rotator cuff tear         1           N210-2         Frozen shoulder         1           N331N         Fragility # unsp osteoporosis         1 <td></td> <td></td> <td></td>			
N050200         Generalised OA-multiple sites         1           N0502         Generalised OA-multiple sites         1           N0501         Generalised OA-hand         1           N224z         Ganglion/synovial cyst NOS         1           N224         Ganglion/synov.cyst - knee         1           N224-92         Ganglion/synov.cyst - knee         1           N2243         Ganglion unspecified         1           N2243         Ganglion of wrist         1           N2245         Ganglion of wrist         1           N2242         Ganglion of tendon sheath         1           N2244         Ganglion of knee         1           N2245         Ganglion of bread sheath         1           N2246         Ganglion of bread sheath         1           N2247         Ganglion of foot         1           EMISR4QFU2         Fusion Of Lumbar Spine         1           EMISR4QFU1         Fusion Of Cervical Spine         1           N2115         Full thickn rotator cuff tear         1           N210-2         Frozen shoulder         1           N331N         Fragility #unsp osteoporosis         1           S10B         Fracture/lumbar spine+pelvis         1			-
N0502         Generalised OA-multiple sites         1           N0501         Generalised OA-hand         1           N224z         Ganglion/synovial cyst NOS         1           N224         Ganglion/synov.cyst - knee         1           N224-92         Ganglion Unspecified         1           N2243         Ganglion unspecified         1           N2245         Ganglion of wrist         1           N2242         Ganglion of tendon sheath         1           N2242         Ganglion of knee         1           N2244         Ganglion of knee         1           N2242         Ganglion of both         1           N2244         Ganglion of foot         1           N2245         Ganglion of foot         1           N2246         Ganglion of foot         1           EMISR4QFU2         Fusion Of Lumbar Spine         1           EMISR4QFU1         Fusion Of Cervical Spine         1           N2115         Full thickn rotator cuff tear         1           N210-2         Frozen shoulder         1           N331N         Fragility fracture         1           N331M         Fragility # unsp osteoporosis         1           S10A			•
N0501         Generalised OA-hand         1           N224z         Ganglion/synovial cyst NOS         1           N224         Ganglion/synov.cyst - knee         1           N224-92         Ganglion ynov.cyst - knee         1           N2243         Ganglion unspecified         1           N2245         Ganglion of wrist         1           N2242         Ganglion of tendon sheath         1           N2246         Ganglion of knee         1           N2241         Ganglion of joint         1           N2242         Ganglion of foot         1           EMISR4QFU2         Fusion Of Lumbar Spine         1           EMISR4QFU2         Fusion Of Cervical Spine         1           N2115         Full thickn rotator cuff tear         1           N210-2         Frozen shoulder         1           N331N         Fragility fracture         1           N331N         Fragility # unsp osteoporosis         1           S10B         Fracture/lumbar spine+pelvis         1           S10A1         Fracture/2nd cervical vertebra         1           S15         Fracture of thoracic vertebra         1           S15         Fracture of neck and trunk NOS         1 </td <td></td> <td>·</td> <td>•</td>		·	•
N224z         Ganglion/synovial cyst NOS         1           N224         Ganglion/synov.cyst - knee         1           N224-92         Ganglion ysynov.cyst - knee         1           N2243         Ganglion unspecified         1           N2245         Ganglion of wrist         1           N2242         Ganglion of tendon sheath         1           N2246         Ganglion of knee         1           N2241         Ganglion of joint         1           N2242         Ganglion of foot         1           RUS241         Ganglion of joint         1           N2242         Ganglion of foot         1           N2243         Ganglion of point         1           N2244         Ganglion of foot         1           N2245         Ganglion of foot         1           EMISR4QFU2         Fusion Of Lumbar Spine         1           EMISR4QFU1         Fusion Of Cervical Spine         1           N2115         Full thickn rotator cuff tear         1           N210-2         Frozen shoulder         1           N331N         Fragility fracture         1           N331M         Fragility # unsp osteoporosis         1           S10A1 <t< td=""><td></td><td></td><td>1</td></t<>			1
N224         Ganglion/synov.cyst - knee         1           N224-92         Ganglion/synov.cyst - knee         1           N2243         Ganglion unspecified         1           N2245         Ganglion of wrist         1           N2242         Ganglion of tendon sheath         1           N2246         Ganglion of knee         1           N2241         Ganglion of joint         1           N2242         Ganglion of foot         1           N2243         Ganglion of tendon sheath         1           N2244         Ganglion of foot         1           N2241         Ganglion of joint         1           N2242         Ganglion of foot         1           EMISR4QFU2         Fusion Of Lumbar Spine         1           EMISR4QFU2         Fusion Of Cervical Spine         1           N2115         Full thickn rotator cuff tear         1           N2115         Frazelility fracture         1           N210-2         Frozen shoulder         1           N331N         Fragility fracture         1           N331M         Fragility # unsp osteoporosis         1           S10B         Fracture/lumbar spine+pelvis         1           S10A1			1
N224-92       Ganglion/synov.cyst - knee       1         N2243       Ganglion unspecified       1         N2245       Ganglion of wrist       1         N2242       Ganglion of tendon sheath       1         N2246       Ganglion of knee       1         N2241       Ganglion of joint       1         N224C       Ganglion of foot       1         EMISR4QFU2       Fusion Of Lumbar Spine       1         EMISR4QFU1       Fusion Of Cervical Spine       1         N2115       Full thickn rotator cuff tear       1         N210-2       Frozen shoulder       1         N331N       Fragility fracture       1         N331M       Fragility # unsp osteoporosis       1         S10B       Fracture/lumbar spine+pelvis       1         S10A1       Fracture/2nd cervical vertebra       1         S10A0       Fracture/1st cervical vertebra       1         S15       Fracture of thoracic vertebra       1         S12       Fracture of neck and trunk       1         S1       Fracture of neck and trunk       1	N224	• ,	1
N2243       Ganglion unspecified       1         N2245       Ganglion of wrist       1         N2242       Ganglion of tendon sheath       1         N2246       Ganglion of knee       1         N2241       Ganglion of joint       1         N224C       Ganglion of foot       1         EMISR4QFU2       Fusion Of Lumbar Spine       1         EMISR4QFU1       Fusion Of Cervical Spine       1         N2115       Full thickn rotator cuff tear       1         N210-2       Frozen shoulder       1         N331N       Fragility fracture       1         N331M       Fragility fracture       1         N331M       Fragility # unsp osteoporosis       1         S10B       Fracture/lumbar spine+pelvis       1         S10A1       Fracture/2nd cervical vertebra       1         S10A0       Fracture/1st cervical vertebra       1         S15       Fracture of thoracic vertebra       1         S12       Fracture of neck and trunk NOS       1         S1       Fracture of neck and trunk       1	N224-92		1
N2245       Ganglion of wrist       1         N2242       Ganglion of tendon sheath       1         N2246       Ganglion of knee       1         N2241       Ganglion of joint       1         N224C       Ganglion of foot       1         EMISR4QFU2       Fusion Of Lumbar Spine       1         EMISR4QFU1       Fusion Of Cervical Spine       1         N2115       Full thickn rotator cuff tear       1         N210-2       Frozen shoulder       1         N331N       Fragility fracture       1         N331M       Fragility # unsp osteoporosis       1         S10B       Fracture/lumbar spine+pelvis       1         S10A1       Fracture/2nd cervical vertebra       1         S10A0       Fracture/1st cervical vertebra       1         S15       Fracture of thoracic vertebra       1         S12       Fracture of neck and trunk NOS       1         S1       Fracture of neck and trunk       1	N2243	Ganglion unspecified	1
N2241 Ganglion of knee 1 N224C Ganglion of foot 1 EMISR4QFU2 Fusion Of Lumbar Spine 1 EMISR4QFU1 Fusion Of Cervical Spine 1 N2115 Full thickn rotator cuff tear 1 N210-2 Frozen shoulder 1 N331N Fragility fracture 1 N331M Fragility # unsp osteoporosis 1 S10B Fracture/lumbar spine+pelvis 1 S10A1 Fracture/2nd cervical vertebra 1 S10A0 Fracture/1st cervical vertebra 1 S15 Fracture of thoracic vertebra 1 S1z Fracture of neck and trunk NOS 1 S1 Fracture of neck and trunk NOS 1	N2245	Ganglion of wrist	1
N2241 Ganglion of knee 1 N224C Ganglion of foot 1 EMISR4QFU2 Fusion Of Lumbar Spine 1 EMISR4QFU1 Fusion Of Cervical Spine 1 N2115 Full thickn rotator cuff tear 1 N210-2 Frozen shoulder 1 N331N Fragility fracture 1 N331M Fragility # unsp osteoporosis 1 S10B Fracture/lumbar spine+pelvis 1 S10A1 Fracture/2nd cervical vertebra 1 S10A0 Fracture/1st cervical vertebra 1 S15 Fracture of thoracic vertebra 1 S1z Fracture of neck and trunk NOS 1 S1 Fracture of neck and trunk NOS 1	N2242	Ganglion of tendon sheath	1
N2241Ganglion of joint1N224CGanglion of foot1EMISR4QFU2Fusion Of Lumbar Spine1EMISR4QFU1Fusion Of Cervical Spine1N2115Full thickn rotator cuff tear1N210-2Frozen shoulder1N331NFragility fracture1N331MFragility # unsp osteoporosis1S10BFracture/lumbar spine+pelvis1S10A1Fracture/2nd cervical vertebra1S10A0Fracture/1st cervical vertebra1S15Fracture of thoracic vertebra1S1zFracture of neck and trunk NOS1S1Fracture of neck and trunk1	N2246	Ganglion of knee	1
N224CGanglion of foot1EMISR4QFU2Fusion Of Lumbar Spine1EMISR4QFU1Fusion Of Cervical Spine1N2115Full thickn rotator cuff tear1N210-2Frozen shoulder1N331NFragility fracture1N331MFragility # unsp osteoporosis1S10BFracture/lumbar spine+pelvis1S10A1Fracture/2nd cervical vertebra1S10A0Fracture/1st cervical vertebra1S15Fracture of thoracic vertebra1S1zFracture of neck and trunk NOS1S1Fracture of neck and trunk1	N2241	<del>-</del>	1
EMISR4QFU1Fusion Of Cervical Spine1N2115Full thickn rotator cuff tear1N210-2Frozen shoulder1N331NFragility fracture1N331MFragility # unsp osteoporosis1S10BFracture/lumbar spine+pelvis1S10A1Fracture/2nd cervical vertebra1S10A0Fracture/1st cervical vertebra1S15Fracture of thoracic vertebra1S1zFracture of neck and trunk NOS1S1Fracture of neck and trunk1	N224C	<del>-</del>	1
N2115Full thickn rotator cuff tear1N210-2Frozen shoulder1N331NFragility fracture1N331MFragility # unsp osteoporosis1S10BFracture/lumbar spine+pelvis1S10A1Fracture/2nd cervical vertebra1S10A0Fracture/1st cervical vertebra1S15Fracture of thoracic vertebra1S1zFracture of neck and trunk NOS1S1Fracture of neck and trunk1	EMISR4QFU2	<del>-</del>	1
N210-2Frozen shoulder1N331NFragility fracture1N331MFragility # unsp osteoporosis1S10BFracture/lumbar spine+pelvis1S10A1Fracture/2nd cervical vertebra1S10A0Fracture/1st cervical vertebra1S15Fracture of thoracic vertebra1S1zFracture of neck and trunk NOS1S1Fracture of neck and trunk1	EMISR4QFU1	Fusion Of Cervical Spine	1
N331NFragility fracture1N331MFragility # unsp osteoporosis1S10BFracture/lumbar spine+pelvis1S10A1Fracture/2nd cervical vertebra1S10A0Fracture/1st cervical vertebra1S15Fracture of thoracic vertebra1S1zFracture of neck and trunk NOS1S1Fracture of neck and trunk1	N2115	Full thickn rotator cuff tear	1
N331MFragility # unsp osteoporosis1S10BFracture/lumbar spine+pelvis1S10A1Fracture/2nd cervical vertebra1S10A0Fracture/1st cervical vertebra1S15Fracture of thoracic vertebra1S1zFracture of neck and trunk NOS1S1Fracture of neck and trunk1	N210-2	Frozen shoulder	1
S10BFracture/lumbar spine+pelvis1S10A1Fracture/2nd cervical vertebra1S10A0Fracture/1st cervical vertebra1S15Fracture of thoracic vertebra1S1zFracture of neck and trunk NOS1S1Fracture of neck and trunk1	N331N	Fragility fracture	1
S10BFracture/lumbar spine+pelvis1S10A1Fracture/2nd cervical vertebra1S10A0Fracture/1st cervical vertebra1S15Fracture of thoracic vertebra1S1zFracture of neck and trunk NOS1S1Fracture of neck and trunk1	N331M	Fragility # unsp osteoporosis	1
S10A0Fracture/1st cervical vertebra1S15Fracture of thoracic vertebra1S1zFracture of neck and trunk NOS1S1Fracture of neck and trunk1	S10B		1
S15 Fracture of thoracic vertebra 1 S1z Fracture of neck and trunk NOS 1 S1 Fracture of neck and trunk 1	S10A1	Fracture/2nd cervical vertebra	1
S1z Fracture of neck and trunk NOS 1 S1 Fracture of neck and trunk 1		Fracture/1st cervical vertebra	1
S1 Fracture of neck and trunk 1		Fracture of thoracic vertebra	1
		Fracture of neck and trunk NOS	1
S10A Fracture of neck 1		Fracture of neck and trunk	1
	S10A	Fracture of neck	1

Read code	Description	Number of studies
S10B0	Fracture of lumbar vertebra	1
N338z	Fracture malunion or nonunion NOS	1
SR1	Fracture involv multi body reg	1
SR10	Fracture involv head with neck	1
S4	Fracture dislocation/subluxat	1
OX8056	Fracture Spine /ox	1
S3z	Fracture NOS	1
OXL8056LV	Fracture Lumbar Vertebra /ox	1
SR16	Fract/thorx wth lw bck+plv+lmb	1
N3317	Fract of bone in neoplast dis	1
N2451	Foot pain	1
N245-3	Foot pain	1
1M11	Foot pain	1
N220B	Flexor tenosynovitis of finger	1
N3660	Flexion deformity of knee	1
N369	Flexion deformity	1
N084A	Flexion contracture-shoulder	1
N084a	Flexion contracture-knee	1
N374E	Flatback syndrome	1
N040T	Flare of rheumatoid arthritis	1
N08yA	Flail joint	1
N09C	Fistula of joint	1
N2450-2	Finger pain	1
N05z4-1	Finger osteoarthritis NOS	1
N2163	Fibular collat.lig.bursitis	1
N3324	Fibrous cortical defect	1
N2405	Fibrositis of neck	1
N00y1	Fibrosclerosis systemic	1
N087	Fibrocartilage lesion of joint	1
MHTBAFH1	Fh: Osteoporosis	1
N041	Felty's syndrome	1
N1y1 N244	Fatigue fracture of vertebra	1
N024	Fasciitis unspecified	1
N14y	Familial chondrocalcinosis	1
12I1	Facet joint syndrome	1
1268	FH: Rheumatoid arthritis FH: Osteoporosis	1
1212	FH: Osteoporosis FH: Osteoarthritis	1 1
12IZ	FH: Musculo-skeletal dis. NOS	1
121	FH: Arthritis	1
N220D	Extensor tenosynovitis of wrist	1
N220F	Extensor tenosynovitis of thumb	1
N220E	Extensor tenosynovitis of finger	1
N084B	Extension contracture-shoulder	1
N084F	Ext rotat contracture-shoulder	1
N21z7	Exostosis	1
16C8	Exacerbation of backache	1
N0506	Erosive osteoarthrosis	1
N32z1	Epiphysitis NOS	1
N33z1	Epiphyseal arrest	1
N00y0	Eosinophilic fasciitis	1
N216	Enthesopathy of knee	1
N21z	Enthesopathy NOS	1
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Read code	Description	Number of studies
N11y1	Enterobacterial spondylitis	1
1M00-1	Elbow pain	1
1M00	Elbow pain	1
N05z2	Elbow osteoarthritis NOS	1
N06z2	Elbow arthritis NOS	1
N090B	Effusion of sternoclav joint	1
N090A	Effusion of shoulder	1
N0909	Effusion of multiple joints	1
N090M	Effusion of knee	1
N090z	Effusion of joint NOS	1
N090	Effusion of joint	1
N090C	Effusion of acromioclav joint	1
N0906	Effusion - knee joint	1
N0906-99	Effusion - knee joint	1
N3840	Dysplastic spondylolisthesis	1
N2361	Dupuyt dis-palm + nod no cont	1
N3305	Drug-induced osteoporosis	1
N0002	Drug-ind systemic lupus eryth	1
N3315	Drug-ind osteopor + path fract	1
N235	Double-jointed (hypermobility)	1
N1123	Dorsal spondylo w/o myelopath	1
N3370	Disuse atrophy of bone	1
N3304	Dissuse osteoporosis	1
N0000	Disseminated lupus erythemat.	1
N09AX	Disorder of patella unspecified	1
N33zG	Disorder of patella drispecified  Disorder of cartilage, unspec	1
N33zF	Disorder of cartilage, unspec Disorder of bone unspecified	1
S46	Dislocation or subluxation of knee	1
S4z	Dislocation of subluxation NOS	1
S41z	Dislocation of shoulder NOS	1
S46z	Dislocation of knee NOS	1
S41		
S463-99	Dislocated shoulder	1
SR20	Dislocated patella	
SR2	Disloc, sprns+strns inv hd+neck	1
N071B	Dislc,sprns+strns/mult bdy reg	1
	Discoid lateral meniscus	1
N123	Disc unsp.displno myelopathy	1
N12B	Disc prolapse with myelopathy	1
N12C	Disc prolapse + radiculopathy	1
N12zz	Disc disorders NOS	1
N129z	Disc disorder+myelopathy NOS	1
N00	Diffuse connective tissue dis.	1
N097z	Difficulty in walking NOS	1
N097	Difficulty in walking	1
N23yA	Diastasis of muscle	1
N33z3	Diaphysitis	1
N0300	Diabetic cheiroarthropathy	1
N0301	Diabetic Charcot arthropathy	1
N003X	Dermatopolymyositis, unspec	1
N0031	Dermatopolymyosit,neoplast dis	1
N003	Dermatomyositis	1
SC0z	Delayed union of fracture	1
N3386	Bolayed differ of flactare	•

Read code	Description	Number of studies
S9030	Degloving injury,shoulder area	1
SA130	Degloving injury knee	1
N3842	Degenerative spondylolisthesis	1
N128	Degenerative disc disease NOS	1
N1404	Degenerativ th spinal stenosis	1
N1408	Degenerativ lu spinal stenosis	1
N1301	Degenerativ Cx spinal stenosis	1
N114	Degeneration of lumbar spine	1
N114-1	Degeneration of lumbar spine	1
N0721	Degen lesion artic cart knee	1
N36y4	Deformity of scapula	1
N36yD	Deformity of patella	1
N36y3	Deformity of clavicle	1
N36y2	Deformity of bone	1
N224D	Cyst of tendon sheath	1
N0722	<ul><li>Cyst of semilunar cartilage</li></ul>	1
N0709	Cyst of medial meniscus	1
N071A	Cyst of lateral meniscus	1
N2244	Cyst of bursa	1
N332z	Cyst of bone NOS	1
N332	Cyst of bone	1
N11A	Cx spondyl + vasc compression	1
N1303	Cx spin stenos due to oth dis	1
N12C0	Cx disc prolapse+radiculopathy	1
N12B0	Cx disc prolapse + myelopathy	1
N3740	Curvature of spine unspecified	1
N37zz	Curvature of spine NOS	1
N37z	Curvature of spine NOS	1
N37	Curvature of spine	1
N02zK	Crystal arthropathy NOS-knee	1
N02zz	Crystal arthropathy NOS	1
N02z	Crystal arthropathy NOS	1
N02z0	Crystal arthr.NOS-site unspec.	1
N02z1	Crystal arthr.NOS-shoulder	1
N02zy	Crystal arthr.NOS-other spec.	1
N02zx	Crystal arthr.NOS-multipl.site	1
N02z9	Cryst arthr NOS-sternoclav jt	1
N02zA	Cryst arthr NOS-acromioclav jt	1
N02z8	Crys arthr NOS-shoulder	1
SF20z	Crushinjuryshlder+uparmNOS	1
SFz	Crushing injury NOS	1
SF 0540	Crushing injury	1
SF40	Crush injury multiple sites NEC	1
SF021	Crush injury larynx	1
SF311	Crush injury knee	1
SF110	Crush injury back	1
SF4z	Crush injury	1
N13y2	Crick in neck	1
N2472	Cramp	1
N051A	Coxarthr from dysplasia, bilat	1
N3216	Coxa plana	1
182B0	Costal margin chest pain	1
N2123	Coracoid impingement	1

S502 ContusionNurl Imbmilt sites SE300 Contusion (Friehead) SE2 Contusion with skin intact NOS SE30 Contusion with skin intact NOS SE30 Contusion shoulder or upper arm SE300 Contusion shoulder or upper arm SE301 Contusion shoulder area SE301 Contusion shoulder area SE302 SE303 Contusion of lower back SE232 Contusion of lower back SE232 Contusion of lower back SE412 Contusion with skin lintact NOS SE300 SE232 Contusion of lower back SE412 Contusion of lower back SE412 Contusion for lower leg NOS SE411 Contusion knee and lower leg NOS Contusion shoulder area SE304 Contusion loavicular area SE304 Contusion clavicular area SE304 Contusion clavicular area SE304 Contusion loavicular area SE304 Contusion back NOS SE Contracture of tendon sheath Contracture of piont NOS Contracture of piont NOS Contracture of piont NOS Contracture of piont NOS Connect tiss sten neural canal PE1 Congenital sternomastoid torticollis N3y07 Con tisdisc sten intervit for N33C Complete tissue diseases Complete tear, knee ligament Congenital sternomastoid torticollis SSB Complete tear shoulder joint NOS SSB SE Complete tear shoulder joint NOS Congenital sternomastoid torticollis Congenital	Read code	Description	Number of studies
SE44 Contusion with Simbmitti sites SE00 Contusion, forehead SEz Contusion with skin intact NOS SE30 Contusion shoulder or upper arm SE300 Contusion shoulder or upper arm SE301 Contusion shoulder or upper arm SE301 Contusion shoulder area SE231 Contusion of flower back SE232 Contusion of flower back SE44 Contusion multiple sites NEC SE411 Contusion knee and lower leg NOS SE411 Contusion knee and lower leg NOS SE411 Contusion face scalp+neck NOS SE411 Contusion face scalp+neck NOS SE304 Contusion face scalp+neck NOS SE304 Contusion back NOS SE Contracture of inuscle NO849 Contracture of multiple joints NO842 Contracture of joint NOS NO84 Contracture of joint NOS NO84 Contracture of joint NOS NOS04 Connect tiss sten neural canal PE1 Congenital sternomastoid torticollis N3y07 Con tis/disc sten intervit for N33C Complex regionl pain syndrom I SSSC Complete tear shoulder joint NOS SS8 Complete tear shoulder		Coracohumeral sprain	1
SE0 SE2 Contusion, forehead SE2 Contusion with skin intact NOS SE300 Contusion shoulder or upper arm SE300 Contusion shoulder area SE301 Contusion scapular area SE311 Contusion of lower back SE322 Contusion of lower back SE442 Contusion multiple sites NEC SE411 Contusion knee and lower leg NOS SE401 Contusion knee scalp+neck NOS SE304 Contusion des calp+neck NOS SE304 Contusion loxivicular area SE232 Contusion clavicular area SE232 Contusion (bruise) with intact skin Coxy0 Contracture of tendon sheath Coxy0 Contracture of tendon sheath Coxy0 Contracture of multiple joints NO842 Contracture of multiple joints NO843 Contracture of joint NOS NO844 Contracture of joint NOS NO844 Contracture of joint NOS Connect tiss sten neural canal PE1 Congenital sternomastoid torticollis N3y07 Con tis/disc sten intervrt for N330C Complete tear, knee ligament S682 Complete tear, knee ligament S682 Complete tear shoulder joint NOS S68 Complete tear shoulder joint NOS N3328 Complete tear shoulder joint NOS N3311 Collapse of thoracic vertebra N3311 Collapse of cervical vertebra N3311 Collapse of thoracic vertebra N		Contusionshider+uer arm NOS	1
SEZ SE30 Contusion with skin intact NOS SE300 Contusion shoulder or upper arm SE301 Contusion shoulder area SE301 Contusion of lower back SE232 Contusion of lower back SE232 SE414 Contusion multiple sites NEC SE412 Contusion while sites NEC SE411 Contusion knee and lower leg NOS SE411 Contusion fave calph-neck NOS SE304 Contusion fave calph-neck NOS SE304 Contusion fave calph-neck NOS SE304 Contusion fave calph-neck NOS SE Contusion back NOS SE Contracture of multiple joints NO842 Contracture of multiple joints NO844 Contracture of joint NOS NO84 Contracture of joint NOS NO97 Contisidisc sten intervit for N330C Complete tear shoulder joint NOS SS8 Complete tear shoulder joi	SE44	Contusionlwr limbmlti sites	1
SE30 Contusion shoulder or upper arm SE300 Contusion scapular area SE301 Contusion scapular area SE231 Contusion of lower back SE322 Contusion of lower back SE44y Contusion multiple sites NEC SE412 Contusion have leg NOS SE411 Contusion have leg NOS SE411 Contusion face scalp+neck NOS SE304 Contusion face scalp+neck NOS SE304 Contusion back NOS SE Contusion (bruise) with intact skin N22y0 Contracture of tendon sheath N23y0 Contracture of tendon sheath N23y0 Contracture of multiple joints N0849 Contracture of joint NOS N0842 Contracture of joint NOS N0844 Contracture of joint NOS N0840 Contracture of joint NOS N0841 Connect tiss sten neural canal PE1 Congenital stermonastoid torticollis N3y07 Con tis/disc sten intervrt for N33C Complete tear, knee ligament SSE2 Complete tear shoulder joint NOS SSE SSE SSE Complete tear shoulder joint NOS SSE SSE SS	SE00	Contusion, forehead	1
SE300 Contusion shoulder area SE301 Contusion scapular area SE231 Contusion of lower back SE232 Contusion of lower back SE4y Contusion multiple sites NEC SE412 Contusion multiple sites NEC SE411 Contusion knee and lower leg NOS SE411 Contusion knee SE02 Contusion clavicular area SE203 Contusion back NOS SE304 Contusion back NOS SE304 Contusion back NOS SE304 Contusion back NOS SE305 Contusion back NOS SE Contusion back NOS SE Contusion back NOS SE Contusion back NOS SE Contracture of muscle N0849 Contracture of muscle N0849 Contracture of multiple joints N0842 Contracture of joint NOS N084 Contracture of joint NOS N084 Connective itsue diseases N3y04 Connective itsue diseases N3y04 Connective itsue diseases N3y07 Con tis/disc sten intervrt for N330C Complex regionl pain syndrom I SSC Complete tear, knee ligament SS82 Complete tear shoulder joint NOS SS8 Complete tear shoulder joint NOS SS8 Complete tear shoulder joint NOS SS8 Complete tear shoulder joint N3326 Complete tear shoulder joint N3327 Contis/disc sten intervrt for N3328 Complete tear shoulder joint NOS SS8 Complete tear shoulder joint N3329 Complete point NOS SS8 Complete tear shoulder joint N3329 Complete point NOS SS8 Complete point N	SEz	Contusion with skin intact NOS	1
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N3328 Complete epiphyseal arrest N3326 Compensatory hypertrophy-bone SK0y Compartmentsyndrome S5A0D Comp tr shrt intr lig non-sp N331D Collapsed vertebra NOS N331 Collapse of thoracic vertebra N3310 Collapse of thoracic vertebra N3311 Collapse of lumbar vertebra N3312 Collapse of lumbar vertebra N3313 Collapse of lumbar vertebra N3314 Collapse of cervical vertebra N3315 Collapse of cervical vertebra N3316 Collapse of cervical vertebra N3317 Collap vert due osteopor NOS N3318 Collap lumb vert due to osteo N3319 Collap lumb vert due to osteo N3311 Collap cerv vert due to osteop N002 Collagen disease NOS N331K Coll thorac vert due osteopor N1472 Coccyx disorder NOS N1472 Coccys disorder NOS N1472 Coccygodynia S5E1 Cmplt tr,thyroid region lgmt S5E30 Cmplt tr,sternoclavicular lgmt S5E2 Cmplt tr,other lgmt NOS			1
N33z6 Compensatory hypertrophy-bone SK0y Compartmentsyndrome S5A0D Comp tr shrt intr lig non-sp N331D Collapsed vertebra NOS N331 Collapse of vertebra NOS N331F Collapse of thoracic vertebra N3310 Collapse of thoracic vertebra N3311 Collapse of lumbar vertebra N3312 Collapse of lumbar vertebra N3314 Collapse of lumbar vertebra N3315 Collapse of cervical vertebra N3316 Collapse of cervical vertebra N3311 Collap vert due osteopor NOS N3311 Collap lumb vert due to osteo N3311 Collap cerv vert due to osteo N3311 Collap cerv vert due to osteo N3311 Collap cerv vert due osteopor N00z Collagen disease NOS N331K Coll thorac vert due osteopor N1472 Coccyx disorder NOS N1472 Coccygodynia S5E1 Cmplt tr,thyroid region lgmt S5E30 Cmplt tr,sternoclavicular lgmt S5Ez Cmplt tr,other lgmt NOS			1
SKOy S5A0D Compartmentsyndrome Comp tr shrt intr lig non-sp Collapsed vertebra NOS Collapse of vertebra NOS Collapse of thoracic vertebra Collapse of thoracic vertebra Collapse of lumbar vertebra Collapse of lumbar vertebra Collapse of lumbar vertebra Collapse of lumbar vertebra Collapse of cervical vertebra Collapse of thoracic verte			1
S5A0D Comp tr shrt intr lig non-sp N331D Collapsed vertebra NOS N331 Collapse of vertebra NOS N331F Collapse of thoracic vertebra N3310 Collapse of thoracic vertebra N3311 Collapse of lumbar vertebra N3312 Collapse of lumbar vertebra N3314 Collapse of lumbar vertebra N3315 Collapse of cervical vertebra N3316 Collapse of cervical vertebra N3311 Collap vert due osteopor NOS N3311 Collap lumb vert due to osteo N3314 Collap cerv vert due to osteop N00z Collagen disease NOS N331K Coll thorac vert due osteopor N1472 Coccyx disorder NOS N1472 Coccygodynia S5E1 Cmplt tr,thyroid region lgmt S5E30 Cmplt tr,sternoclavicular lgmt S5E2 Cmplt tr,other lgmt NOS			1
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N331F Collapse of thoracic vertebra N3310 Collapse of thoracic vertebra N3311 Collapse of lumbar vertebra N331G Collapse of lumbar vertebra N331E Collapse of cervical vertebra N331L Collap vert due osteopor NOS N331J Collap lumb vert due to osteo N331H Collap cerv vert due to osteop N00z Collagen disease NOS N331K Coll thorac vert due osteopor N147z Coccyx disorder NOS N1472 Coccyx disorder NOS N1472 Coccygodynia S5E1 Cmplt tr,thyroid region lgmt S5E30 Cmplt tr,other lgmt NOS		·	1
N3310 Collapse of thoracic vertebra  N3311 Collapse of lumbar vertebra  N3312 Collapse of cervical vertebra  N331L Collapse of cervical vertebra  N331L Collapse of cervical vertebra  N331L Collap vert due osteopor NOS  N331J Collap lumb vert due to osteo  N331H Collap cerv vert due to osteop  N00z Collagen disease NOS  N331K Coll thorac vert due osteopor  N147z Coccyx disorder NOS  N1472 Coccygodynia  S5E1 Cmplt tr,thyroid region lgmt  S5E30 Cmplt tr,other lgmt NOS			1
N3311 Collapse of lumbar vertebra N331E Collapse of cervical vertebra N331L Collap vert due osteopor NOS N331J Collap lumb vert due to osteo N331H Collap cerv vert due to osteop N00z Collagen disease NOS N331K Coll thorac vert due osteopor N147z Coccyx disorder NOS N1472 Coccys disorder NOS N1472 Coccygodynia S5E1 Cmplt tr,thyroid region lgmt S5E30 Cmplt tr,other lgmt NOS			l
N331G N331E Collapse of cervical vertebra Collapse of lumbar vertebra Collapse of cervical vertebra Collapse of lumbar vertebra Collapse of cervical v		·	1
N331E Collapse of cervical vertebra N331L Collap vert due osteopor NOS N331J Collap lumb vert due to osteo N331H Collap cerv vert due to osteop N00z Collagen disease NOS N331K Coll thorac vert due osteopor N147z Coccyx disorder NOS N1472 Coccygodynia S5E1 Cmplt tr,thyroid region lgmt S5E30 Cmplt tr,sternoclavicular lgmt S5Ez Cmplt tr,other lgmt NOS		·	1
N331L Collap vert due osteopor NOS N331J Collap lumb vert due to osteo N331H Collap cerv vert due to osteop N00z Collagen disease NOS N331K Coll thorac vert due osteopor N147z Coccyx disorder NOS N1472 Coccygodynia S5E1 Cmplt tr,thyroid region lgmt S5E30 Cmplt tr,sternoclavicular lgmt S5Ez Cmplt tr,other lgmt NOS		·	1
N331J Collap lumb vert due to osteo  N331H Collap cerv vert due to osteop  N00z Collagen disease NOS  N331K Coll thorac vert due osteopor  N147z Coccyx disorder NOS  N1472 Coccygodynia  S5E1 Cmplt tr,thyroid region lgmt  S5E30 Cmplt tr,sternoclavicular lgmt  S5Ez Cmplt tr,other lgmt NOS		·	1
N331H Collap cerv vert due to osteop N00z Collagen disease NOS N331K Coll thorac vert due osteopor N147z Coccyx disorder NOS N1472 Coccygodynia S5E1 Cmplt tr,thyroid region lgmt S5E30 Cmplt tr,sternoclavicular lgmt S5Ez Cmplt tr,other lgmt NOS		·	1
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N147z Coccyx disorder NOS N1472 Coccygodynia S5E1 Cmplt tr,thyroid region lgmt S5E30 Cmplt tr,sternoclavicular lgmt S5Ez Cmplt tr,other lgmt NOS			1
N1472 Coccygodynia S5E1 Cmplt tr,thyroid region lgmt S5E30 Cmplt tr,sternoclavicular lgmt S5Ez Cmplt tr,other lgmt NOS		·	1
S5E1 Cmplt tr,thyroid region lgmt S5E30 Cmplt tr,sternoclavicular lgmt S5Ez Cmplt tr,other lgmt NOS		· · · · · · · · · · · · · · · · · · ·	1
S5E30 Cmplt tr,sternoclavicular lgmt S5Ez Cmplt tr,other lgmt NOS		** *	1
S5Ez Cmplt tr,other Igmt NOS		, , , , , , , , , , , , , , , , , , , ,	1
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S5CV Complete ather least least		· · · · · · · · · · · · · · · · · · ·	1
	S5Cy	Cmplt tr,other knee lgmt	1
S5C1 Cmplt tr,knee,mdl collat lgmt	S5C1	Cmplt tr,knee,mdl collat lgmt	1

Read code	Description	Number of studies
S5C0	Cmplt tr,knee,lat collat lgmt	1
S5Cz	Cmplt tr,knee Igmt NOS	1
S581	Cmplt tr,coraco-clav lgmt	1
S580	Cmplt tr,acromio-clav lgmt	1
S5A0A	Cmplt tr triang fibrocartilage	1
S5C3	Cmpl tr,knee,ant cruciate Igmt	1
S5y57	Cmpl tear,lumbosacral lgmt	1
S5y56	Cmpl tear,iliolumbar lgmt	1
S5C2	Cmp tr,knee,post cruciate Igmt	1
S2920	Clsd mult fract clav scap hum	1
S1000	Clsd # unsp cerv vertebra	1
S1024	Clsd # thorc vert-trnsvrs prcs	1
S1026	Clsd # thorc vert - tricolumnr	1
S1025	Clsd # thorc vert - post prcs	1
S1020	Clsd # thoracic vert, burst	1
S1021	Clsd # thoracic vert wedge	1
S102z	Clsd # thorac vert NOS	1
S1023	Clsd # thor vert-spinous prcss	1
S1003	Clsd # third cerv vertebra	1
S2102	Clsd # scapula, coracoid	1
S1041	Clsd # lumbar vert wedge	1
S1040	Clsd # lumbar vert burst	1
S1046	Clsd # lumb vert - tricolumnar	1
S1004	Clsd # fourth cerv vertebra	1
S1005	Clsd # fifth cerv vertebra	1
S2001	Clsd # clavicle medial end	1
S2003	Clsd # clavical lateral end	1
S100H	Clsd # cerv vert, wedge	1
S100G	Clsd # cerv vert, burst	1
\$100z	Clsd # cerv spine NOS	1
S100F	Clsd # axis, tricolumnar	1
S100D	Clsd # axis, transvrse process	1
S100B	Clsd # axis, spondylolysis	1
\$100C	Clsd # axis, spinous process	1
\$100E	Clsd # axis, posterior arch	1
S100A	Clsd # axis odontoid process	1
S1009	Clsd # atlas, comminuted	1
S1106	Clsd # C5-C7 unspec cord les	1
S110A	Clsd # C5-C7 post cord lesion	1
S110B	Clsd # C5-C7 incomp cord les	1
S1107	Clsd # C5-C7 complete cord les	1
S1109	Clsd # C5-C7 cent cord lesion	1
S1108	Clsd # C5-C7 ant cord lesion	1
S1100	Clsd # C1-C4 unspec cord les	1
S1104	Clsd # C1-C4 post cord lesion	1
S1105	Clsd # C1-C4 incomp cord les	1
S1101 S1103	Clsd # C1-C4 complete cord les	1
	Clsd # C1-C4 cent cord lesion	1
S1102 S4120	Clsd # C1-C4 ant cord lesion	1
S4696	Cls trmtc sublux head fibule	1
S467	Cls trmtc sublux,head fibula	1
S4690	Cls trmtc sublux pat-fem jt	1
07030	Cls trmtc sublux knee jt,unsp	1

Read code	Description	Number of studies
S4692	Cls trmtc sublux knee jt,post	1
S4694	Cls trmtc sublux knee jt,ltrl	1
S4691	Cls trmtc sublux knee jt,ant	1
S469	Cls trmtc sublux knee jt	1
S4102	Cls trmtc dslctn shldr jtpost	1
S410z	Cls trmtc dislctn shoulder NOS	1
S49E4	Cls trm sublux,st-clav jt,post	1
S49E3	Cls trm sublux,st-clav jt,ant	1
S49E2	Cls trm sublux st-clav jt	1
S4671	Cls trm sublux pat-fem jt,med	1
S4670	Cls trm sublux pat-fem jt,ltrl	1
S49E5	Cls trm sublux laryngl cart	1
S4695	Cls trm sublux knee jt,rotatry	1
S4693	Cls trm sublux knee jt,medial	1
S4121	Cls trm sublux acromio-clav jt	1
S4656	Cls trm dslctn, head fibula	1
S4631	Cls trm dslctn pat-fem jt,med	1
S4630	Cls trm dslctn pat-fem jt,lat	1
S4650	Cls trm dslctn knee, unspec	1
S4654	Cls trm dslctn knee jt,lateral	1
S4652	Cls trm dslctn knee jt, post	1
S4653	Cls trm dslctn knee jt, medial	1
S4651	Cls trm dslctn knee jt, ant	1
S465z	Cls trm dslctn knee NOS	1
S4655	Cls trm dslct knee jt,rotatory	1
S4963	Cls trm dslc,stern-clav jt,ant	1
S4962	Cls trm dslc sterno-clav jt	1
S4965	Cls trm dslc laryngl cartilage	1
S4964	Cls trm dsl,stern-clav jt,post	1
S412	Cls traumtc subluxatn shoulder	1
S410	Cls traumtc disloctn shoulder	1
S4105	Cls traumatic disloctn scapula	1
S49A	Cls sublux thrcic+lumbar spine	1
S49A1	Cls sublux thrcic spine	1
S49Az	Cls sublux thrc+lmbr spine NOS	1
S498x	Cls sublux mlti cerv vertebrae	1
S4980	Cls sublux cervical spine,unsp	1
S498	Cls sublux cervical spine	1
S498z	Cls sublux cerv vertebra NOS	1
S4981	Cls sublux atlanto-occiptl jt	1
S4982	Cls sublux atlanto-axial it	1
S492C	Cls spnl dslc+cauda equina lsn	1
S4924	Cls spnl dslc+ant thrc crd lsn	1
S4929	Cls spnl dslc+ant lmbr crd lsn	1
S490B	Cls spnl dslc+ant cerv crd lsn	1
S492B	Cls spnl dsl+post Imbr crd Isn	1
S4923	Cls spnl dsl+comp thrc crd Isn	1
S4928	Cls spnl dsl+comp lmbr crd lsn	1
S4922	Cls spn dslc+thrc crd lsn,unsp	1
S4926	Cls spn dslc+post thrc crd Isn	1
S490D	Cls spn dslc+post cerv crd lsn	1
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S4925	Cls spn dslc+cent thrc crd Isn	1

Read code	Description	Number of
S1140	·	studies
S1144	Cls spn # + unsp lumb crd lesn	1
S1141	Cls spn # + post lumb crd lesn Cls spn # + comp lumb crd lesn	1
S1143	Cls spn # + cent lumb crd lesn	1
S1145	Cls spn # + cauda equina lesn	1
S1142	Cls spn # + ant lumbr crd lesn	1
SR100	Cls fract invol head with neck	1
S492z	Cls dslc thrcic+lmbr spine NOS	1
S492	Cls dslc throacic+lumbar spine	1
S4921	Cls dslc thoracic vertebra	1
S4920	Cls dslc lumbar spine	1
S4901	Cls dslc atlanto-occipital jnt	1
S4902	Cls dslc atlanto-occipital jnt	1
S4F6	Cls #-sublux,patello-fem jt	1
S4J23	Cls #-sublux st-clav jt, post	1
S4J22	Cls #-sublux st-clav jt, post  Cls #-sublux st-clav jt, ant	1
S4F4	Cls #-dslc,patello-fem jt	1
S4J03	Cls #-dslc st-clav jt,post	1
S4J02	Cls #-dslc st-clav jt,,post	1
S1022	Cls # thorc vert-spondylolysis	1
S1044	Cls # lumbr vert-trnsvrse prcs	1
S1042	Cls # lumbr vert-spondylolysis	1
S1043	Cls # lumbr vert-spinous press	1
S1045	Cls # lumb vert-posterior arch	1
S100L	Cls # cerv vert, trnsvrse prcs	1
S100N	Cls # cerv vert, tricolumnar	1
S100J	Cls # cerv vert, spondylolysis	1
S100K	Cls # cerv vert, spinous press	1
S100M	Cls # cerv vert, post arch	1
S1008	Cls # atlas-isol arch/art prcs	1
S412z	Closed traumatic subluxation shoulder NOS	1
S496z	Closed traumatic disloctn NOS	1
S4100	Closed traumatic dislocation shoulder joint,	
	unspecified	1
S463	Closed traumatic dislocation of patello-femoral joint	1
S112z	Closed thoracic#+cord lesn.NOS	1
S112	Closed thoracic #+cord lesion	1
S49Cz	Closed subluxation spine NOS	1
S49A0	Closed subluxation lumbar spine	1
S4988	Closed subluxation C7/T1	1
S4987	Closed subluxation C6/C7	1
S4986	Closed subluxation C5/C6	1
S4985	Closed subluxation C4/C5	1
S4984	Closed subluxation C3/C4	1
S4983	Closed subluxation C2/C3	1
S49C0	Closed sublux spine, unsp	1
S49C	Closed sublux other vertebra	1
S026	Closed orbital blow-out fracture	1
S114	Closed lumbar # + cord lesion	1
S102	Closed fracture thoracic vertebra	1
S2104	Closed fracture scapula, blade	1
S2105	Closed fracture scapula spine	1
S2106	Closed fracture scapula neck	1

Closed fracture scapula glenoid Closed fracture scapula acromion Closed fracture patella, comminuted (stellate) Closed fracture of the patella Closed fracture larynx Closed fracture clavicle shaft Closed fracture axis	studies 1 1 1 1 1
Closed fracture patella, comminuted (stellate) Closed fracture of the patella Closed fracture larynx Closed fracture clavicle shaft Closed fracture axis	1 1 1 1
Closed fracture of the patella Closed fracture larynx Closed fracture clavicle shaft Closed fracture axis	1 1 1
Closed fracture larynx Closed fracture clavicle shaft Closed fracture axis	1 1
Closed fracture clavicle shaft Closed fracture axis	1
Closed fracture axis	
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Closed fracture atlas	1
Closed dislocation spine unsp.	1
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·	1
Closed dislocation C7/T1	1
Closed dislocation C6/C7	1
Closed dislocation C5/C6	1
Closed dislocation C4/C5	1
Closed dislocation C3/C4	1
Closed dislocation C2/C3	1
Closed disloc.other vertebra	1
Closed disloc.mult.cerv.vert.	1
Closed disloc.cervic.vert.NOS	1
Closed disloc.cerv.spine unsp.	1
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Closed #-sublux shoulder joint	1
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	Closed dislocation spine unsp. Closed dislocation spine NOS Closed dislocation cervical spine Closed dislocation C7/T1 Closed dislocation C6/C7 Closed dislocation C5/C6 Closed dislocation C4/C5 Closed dislocation C3/C4 Closed dislocation C2/C3 Closed disloc.other vertebra Closed disloc.mult.cerv.vert.

Read code	Description	Number of studies
N0631	Climacteric arthrshoulder	1
N0638	Climacteric arthrother spec.	1
N063800	Climacteric arthrother spec.	1
N0639	Climacteric arthrmultip.site	1
N063900	Climacteric arthrmultip.site	1
N063z	Climacteric arthrNOS	1
N063z00	Climacteric arthrNOS	1
N0991	Clicking sternoclavic joint	1
N0990	Clicking shoulder	1
N099C	Clicking knee	1
N099	Clicking joint	1
N0992	Clicking acromioclavicular joint	1
N33A1	Clavicle pain	1
S490A	CI spnI dslc+comp cerv crd lsn	1
S4909	CI spnI dslc+cerv crd lsn,unsp	1
S49A2	Cl spn sublx+thrc crd lsn,unsp	1
S49A6	Cl spn sublx+post thrc crd Isn	1
S49AB	Cl spn sublx+post lmbr crd lsn	1
S49A7	Cl spn sublx+lmbr crd lsn,unsp	1
S49A3	Cl spn sublx+comp thrc crd Isn	1
S49A8	Cl spn sublx+comp lmbr crd lsn	1
S498A	CI spn sublx+comp cerv crd Isn	1
S498C	Cl spn sublx+cntrl crv crd Isn	1
S4989	Cl spn sublx+cerv crd lsn,unsp	1
S49A5	Cl spn sublx+cent thrc crd Isn	1
S49AA	Cl spn sublx+cent lmbr crd lsn	1
S49AC	Cl spn sublx+cauda equina Isn	1
S49A4	CI spn sublx+ant thrc crd Isn	1
S49A9	Cl spn sublx+ant Imbar crd Isn	1
S498D	Cl spn sublux+post crv crd lsn	1
S498B	Cl spn sublux+ant cerv crd lsn	1
S490C	CI spn dslc+cntrl cerv crd Isn	1
S4927	Cl spn dsl+lmbr crd lsn unsp	1
S1124	CI spn #+pst thor crd Isn,T1-6	1
S1123	CI spn #+cnt thor crd Isn,T1-6	1
S1122	CI spn #+ant thor crd Isn,T1-6	1
S1120	CI sp #+unsp thor crd Isn,T1-6	1
S1126	CI sp #+unsp thor cd lsn,T7-12	1
S112A	CI sp #+pst thor crd lsn,T7-12	1
S1129	CI sp #+cnt thor crd Isn,T7-12	1
S1121	CI sp #+cmpl thor crd Isn,T1-6	1
S1127	CI sp #+cmp thor crd Isn,T7-12	1
S1128	CI sp #+ant thor crd Isn,T7-12	1
S1500	Cl multi fractur of thor spine	1
SR160	Cl fract/th wth lw bck+plv+lmb	1
S112B	CI # T7-12incomp cord Isn NOS	1
S1125	CI # T1-6 incmpl cord lesn NOS	1
N301B	Chronic osteomyelitis-th spine	1
N301C	Chronic osteomyelitis-lu spine	1
N301A	Chronic osteomyelitis-Cx spine	1
N301	Chronic osteomyelitis	1
C052*	Chronic lymphocytic thyroiditis (Hashimotos's	1
	disease)	ı

Read code	Description	Number of studies
16C9	Chronic low back pain	1
N090X	Chronic joint effusion	1
N3682	Chronic instability of knee	1
OX7289CB	Chronic Backache /ox	1
N3010	Chron.osteomyelitis-site unsp.	1
N3011	Chron.osteomyelitis-shoulder	1
N3018	Chron.osteomyelitis-other spec	1
N3019	Chron.osteomyelitis-mult.site	1
N301z	Chron.osteomyelitis NOS	1
N301L	Chron multifocal osteomyelitis	1
N301M	Chr osteomyel + draining sinus	1
N074	Chondromalacia patellae	1
N33z2	Chondromalacia NOS	1
N33zB	Chondrolysis	1
N022	Chondrocalcinosis unspecified	1
N022z	Chondrocalcinosis NOS	1
N02	Chondrocalcinosis	1
N0220	Chondrocalc.unspsite unspec.	1
N0221	Chondrocalc.unspshoulder reg	1
N022y	Chondrocalc.unspother spec.	1
N022x	Chondrocalc.unspmultipl.site	1
N020z	Chondrocalc.dicalc.phos.NOS	1
N021	Chondrocalcpyrophosph.cryst.	1
N021z	Chondrocalcpyrophosph.NOS	1
N020	Chondrocalcdicalc.phos.cryst	1
N0210	Chondrocpyrophossite unsp.	1
N0211	Chondrocpyrophosshoulder	1
N021y	Chondrocpyrophosother spec	1
N021x	Chondrocpyrophosmult.sites	1
N0216	Chondrocpyrophosknee	1
N0200	Chondrocdical.phsite unsp.	1
N0201	Chondrocdical.phshoulder	1
N020y	Chondrocdical.phother spec	1
N020x	Chondrocdical.phmult.sites	1
N33zJ	Chondritis	1
182C	Chest wall pain	1
N035	Chest wall pain Charcots arthropathy	1
N132	Cervicocranial syndrome	1
N133	Cervicocranial syndrome  Cervicobrachial syndrome	1
N148A	•	1
N1483	Cervice there is anywherin	1
N131	Cervico-thoracic ankylosis	1
N138	Cervicalgia	1
	Cervical avadrama NEC	1
N13y0 N119	Cervical syndrome NEC	1
N119 N11E	Cervical spondylosis with radiculopathy	1
	Cervical spondylosis	1
N110-1	Cervical spondylosis	1
N110	Cervical spond no myelopathy	1
N111	Cervical spond.+ myelopathy	1
N1489	Cervical spine instability	1
N1482	Cervical spine ankylosis	1
N130	Cervical spinal stenosis	1
N13y3	Cervical root syndrome	1

Read code	Description	Number of studies
N12A1	Cervical postlaminectomy syndr	1
N137	Cervical post.long.lig.ossific	1
SJ306	Cervical nerve root injury - C7	1
SJ305	Cervical nerve root injury - C6	1
SJ304	Cervical nerve root injury - C5	1
SJ303	Cervical nerve root injury - C4	1
SJ30	Cervical nerve root injury	1
N1113	Cervical myelopathy	1
N13	Cervical disorder NOS	1
N12z4	Cervical discitis	1
N120	Cervical disc displno myelop	1
N1291	Cervical disc disord.+myelop.	1
N125	Cervical disc degeneration	1
S5701	Cervical ant.longit.lig.sprain	1
N13z	Cervical and neck disorders NOS	1
N12zH	Cerv disc disord + radiculopth	1
N21z0	Capsulitis NOS	1
N04y0	Caplan's syndrome	1
N3202	Calve's vertebral osteochondr.	1
N2454	Calf pain	1
N2226	Calcium deposit in bursa	1
N2111	Calcifying tendinitis shoulder	1
N12zB	Calcification of thoracic disc	1
N22y1	Calcification of tendon NOS	1
N12zF	Calcification of lumbar disc	1
N23y1	Calcification of ligament	1
N12z7	Calcification of cervical disc	1
N23y9	Calcific tendinitis	1
N2177	Calcaneal spur	1
N2315	Calc/ossif musc ass with burns	1
N0011	CREST syndrome	1
182Z.00	CHEST PAIN NOS	1
18200	CHEST PAIN	1
S1007	C7 closed # - no cord lesion	1
S1006	C6 closed # - no cord lesion	1
1D12.00	C/O: stiffness	1
1D12	C/O: stiffness C/O: stiffness	1
16C7	C/O - upper back ache	1
1A53	C/O - lumbar pain	1
16C5	C/O - low back pain	1
N2118	Bursitis of shoulder	1
N223	Bursitis NOS	1
N2160-99	Bursitis - knee	1
N2160	Bursitis - knee	1
N221	Bunion	1
16BZ	Bruising symptom NOS	1
16B	Bruising symptom  Bruising symptom	1
16B2	Bruises easily	1
SE4z	Bruise NOS	1
SE41	Bruise - knee/lower leg	1
SE41-99	Bruise - knee/lower leg	1
SE23	Bruise - back	1
N11y0	Brucella spondylitis	1
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Read code	Description	Number of studies
N3325	Brown tumour-hyperparathyroid	1
N301G	Brodie's abscess-thorac spine	1
N301H	Brodie's abscess-lumbar spine	1
N301F	Brodie's abscess-cervic spine	1
N302b	Brodie's abscess	1
N0503	Bouchard's nodes with arthropathy	1
N33z	Bone/cartilage disorder NOS	1
N33z0	Bone/cartilage disunspecif.	1
N21z3	Bone spur NOS	1
N33A	Bone pain	1
N33zz	Bone or cartilage disorders NOS	1
N31z	Bone involvement in dis.EC NOS	1
N30z0	Bone infectn.NOS-site unspecif	1
N30z1	Bone infectn.NOS-shoulder	1
N30z9	Bone infectn.NOS-multiple site	1
N30z	Bone infection NOS	1
N30zz	Bone infection NOS	1
N3320	Bone cyst (localised),unspecif	1
N3y0	Biomec lesn,not elsewh clas	1
N2112	Bicipital tenosynovitis	1
N2134	Biceps tendinitis	1
N0120	Behcet's syndrome arthropathy	1
N2222	Beat knee	1
N0870	Bankart lesion	1
N224A	Baker's cyst	1
N224A-1	Baker's cyst	1
16	Baker's cyst	1
16C3	Backache with radiation	1
16CZ		1
16C	Backache symptom NOS Backache symptom	1
16C2	Backache Symptom  Backache	1
N149	Back stiffness	1
S57		1
16	Back sprain excl. lumbosacral	1
S57z	Back sprain NOS	1
16C4	Back sprain NOS	1
16C6	Back pain worse on sneezing Back pain without radiat NOS	1
N145-2	Back pain without radiat NOS	1
N143-2	Back pain unspecified	1
UNMAPPC6	Back pain - lower	1
N14	Back injury	1
N14 N14z	Back disorders - other	1
	Back disorder/symptom NOS	1
OX8479	Back Strain/Sprain /ox	1
OX7289A	Back Pain With Sciatica /ox	1
N2455	Axillary pain	1
N3347	Avascular necrosis-other bone	1
N3345	Avascular necrosis, capitellum	1
N334	Avascular necrosis - bone	1
N334z	Avascular bone necrosis NOS	1
N3340	Avasc.bone necrosis site unsp.	1
N3383	Atrophic non-union of fracture	1
S5703	Atlanto-occipital joint sprain	1
N1487	Atlanto-occipital instability	1

Read code	Description	Number of studies
N1480	Atlanto-occipital ankylosis	Studies 1
S5702	Atlanto-accipital ankylosis Atlanto-axial joint sprain	1
N1488	Atlanto-axial instability	1
N1481	Atlanto-axial ankylosis	1
14OD	At risk of osteoporotic fracture	1
1409	At risk of osteoporosis	1
N080z	Articular cartilage disord.NOS	1
N080	Articular cartidisor.excl.knee	1
N0800	Artic.cart.dissite unspecif.	1
N0801	Artic.cart.disshe unspecif. Artic.cart.disshoulder	1
N0807		
N0808	Artic.cart.disother specif.	1
N080B	Artic.cart.dismultiple sites	1
N0539	Artic cart disord oth j-should	1
OX7131C	Arthrosis of first carpometacarpal joint, unspecified	1
N0312	Arthrosis Spine /ox	1
N0312 N034	Arthropathy-Whipple's disease	1
	Arthropathy+respiratory disord	1
N015	Arthropathy+other viral diseas	1
NO1y	Arthropathy+other inf./parasit	1
N03y	Arthropathy+other condition EC	1
N015z	Arthropathy+oth.viral dis. NOS	1
N014	Arthropathy+oth.bacterial dis.	1
N017z	Arthropathy+helminthiasis NOS	1
N032	Arthropathy+haematological dis	1
N031	Arthropathy+gastrointestin.dis	1
N030	Arthropathy+endocr./metab.dis	1
N033	Arthropathy+dermatological dis	1
N01	Arthropathy with infections	1
N0310	Arthropathy in ulcerative colitis	1
N069	Arthropathy in neoplastic dis	1
N0302	Arthropathy in amyloidosis	1
N0148	Arthropathy in Whipple's disea	1
N0311	Arthropathy in Crohn's disease	1
N0320	Arthropathy due to haemophilia	1
N06z1	Arthropathy NOS-shoulder	1
N06z4	Arthropathy NOS-hand	1
N06z3	Arthropathy NOS-forearm	1
N06z7	Arthropathy NOS, of the ankle and foot	1
N017	Arthropathy + parasite infectn	1
N016z	Arthropathy + mycoses NOS	1
N016	Arthropathy + mycoses	1
N03z	Arthropathy + disorders EC NOS	1
N03	Arthropathy + disorders EC	1
N0y	Arthropathies OS	1
N0313	Arthropath follow intes bypass	1
N036	Arthrop-hypersensitivity reacn	1
N012	Arthrop+Behcet's syndrome	1
N0121	Arthrop+Behcet's synd-shoulder	1
N012y	Arthrop+Behcet's synd-oth spec	1
N012x	Arthrop+Behcet's synd-multiple	1
N012z	Arthrop+Behcet's synd NOS	1
N2330	Arthrogryposis	1
N0	Arthritis/arthrosis	1

Read code	Description	Number of studies
N11	Arthritis of spine	1
N010A	Arthritis in Lyme disease	1
OX6960T	Arthritis Psoriatic /ox	1
N06z-1	Arthritis	1
N094F	Arthralgia of wrist	1
N094N	Arthralgia of tibio-fibular joint	1
N094A	Arthralgia of shoulder	1
N094M	Arthralgia of knee	1
N094D	Arthralgia of elbow	1
N094P	Arthralgia of ankle	1
N094H	Arthralgia of PIP joint of finger	1
N094G	Arthralgia of MCP joint	1
N094T	Arthralgia of 1st MTP joint	1
N0942	Arthralgia - upper arm	1
N094B	Arthralgia - sternoclav joint	1
N0941	Arthralgia - shoulder	1
N0945	Arthralgia - pelvic/thigh	1
N0944	Arthralgia - hand	1
N0943	Arthralgia - forearm	1
N0947	Arthralgia - ankle/foot	1
N094C	Arthralgia - acromioclav joint	1
EGTON1	Arthralgia	1
N0150	Arthr.+oth.viral dis-site unsp	1
N0151	Arthr.+oth.viral dis-shoulder	1
N0140	Arthr.+oth.bact.dis-site unsp.	1
N0141	Arthr.+oth.bact.dis-shoulder	1
N014y	Arthr.+oth.bact.dis-other spec	1
N014x	Arthr.+oth.bact.dis-mult.sites	1
N014z	Arthr.+oth bact. disease NOS	1
N0160	Arthr.+mycoses-site unspecif.	1
N0161	Arthr.+mycoses-shoulder region	1
N016y	Arthr.+mycoses-other specified	1
N016x	Arthr.+mycoses-multiple sites	1
N0170	Arthr.+helminthsite unspec.	1
N0171	Arthr.+helminthshoulder regn	1
N017y	Arthr.+helminthother specif.	1
N017x	Arthr.+helminthmultiple site	1
N015y	Arthr+oth.viral dis-other spec	1
N015x	Arthr+oth.viral dis-mult.sites	1
N03x0	Arthr assoc oth dis-shoulder	1
N03xB	Arthr assoc oth dis-knee	1
N03x1	Arthr ass oth dis-sternoclav j	1
N03x2	Arthr ass oth dis-acromiocly j	1
N01yz	Arth+other infect./parasit.NOS	1
N01y0	Arth+oth.inf/para-site unspec.	1
N01y1	Arth+oth.inf/para-shoulder reg	1
N01yy	Arth+oth.inf/para-other specif	1
N01yx	Arth+oth.inf/para-multipl.site	1
N245-2	Arm pain	1
N32z0	Apophysitis NOS	1
N006	Antiphospholipid syndrome	1
1M12	Anterior knee pain	1
N094W	Anterior knee pain	1
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Read code	Description	Number of studies
S4101	Anterior dislocation of shoulder	1
N12z9	Annular tear of thoracic disc	1
N12zD	Annular tear of lumbar disc	1
N12z5	Annular tear of cervical disc	1
N148	Ankylosis/instab Cx,Th,Lu spin	1
N085B	Ankylosis other joint-shoulder	1
N085P	Ankylosis of the knee joint	1
N085A	Ankylosis of shoulder joint	1
N0859	Ankylosis of multiple joints	1
N085z	Ankylosis of joint NOS	1
N085	Ankylosis of joint	1
N117	Ankylosing verteb.hyperostosis	1
N100*	Ankylosing spondylitis	1
N100	Ankylosing spondylitis	1
N245-1	Ankle pain	1
1M13	Ankle pain	1
N05z7-1	Ankle osteoarthritis NOS	1
N3384	Angular mal-union of fracture	1
N3322	Aneurysmal bone cyst	1
N2320	Amyotrophia NOS	1
N0620	Allergic arthritis-site unsp.	1
N0621	Allergic arthritis-shoulder	1
N0628	Allergic arthritis-other spec.	1
N0629	Allergic arthritis-multip.site	1
N062z	Allergic arthritis-NOS	1
N062	Allergic arthritis	1
N337z	Algoneurodystrophy NOS	1
N3373	Algodystrophy of knee	1
N04y2	Adult-onset Still's disease	1
N32y0	Adult osteochondrosis of spine	1
N005	Adult Still's Disease	1
N370	Adolescent postural kyphosis	1
N3737	Adolescent idiopath scoliosis	1
N210	Adhesive capsulitis - shoulde	1
N2156	Adductor tendinitis	1
N084D	Adduction contracture-shoulder	1
N0431	Acute polyartic.juvenile R.A.	1
N300B	Acute osteomyelitis-thor spine	1
N3000	Acute osteomyelitis-site unsp.	1
N3001	Acute osteomyelitis-shoulder	1
N300G	Acute osteomyelitis-scapula	1
N300R	Acute osteomyelitis-patella	1
N3008	Acute osteomyelitis-other spec	1
N3009	Acute osteomyelitis-mult.site	1
N300C	Acute osteomyelitis-lumb spine	1
N300F	Acute osteomyelitis-clavicle	1
N300A	Acute osteomyelitis-cerv spine	1
N300z	Acute osteomyelitis NOS	1
N300	Acute osteomyelitis	1
S460	Acute meniscal tear medial	1
S461	Acute meniscal tear lateral	1
N090Y	Acute joint effusion	1
N300Z	Acute haematogen osteomyelitis	1
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Read code	Description	Number of studies
N145	Acute back pain - unspecified	1
N145-1	Acute back pain - unspecified	1
N141	Acute back pain - thoracic	1
N141-1	Acute back pain - thoracic	1
N142	Acute back pain - lumbar	1
N142-3	Acute back pain - lumbar	1
N12	Acute back pain - disc	1
N143-1	Acute back pain + sciatica	1
N06zA	Acute arthritis	1
EGTONAC1	Acromio-Clavicular Dislocation	1
N384	Acquired spondylolisthesis	1
N3720	Acquired postural lordosis	1
N3710	Acquired postural kyphosis	1
N372z	Acquired lordosis NOS	1
N372	Acquired lordosis	1
N371z	Acquired kyphosis NOS	1
N371	Acquired kyphosis	1
N366	Acquired knee deformity NOS	1
N37z0	Acquired hunchback	1
N3641	Acquired genu varum	1
N364z	Acquired genu valgum/varum NOS	1
N364	Acquired genu valgum/varum	1
N3640	Acquired genu valgum	1
N385	Acquired deformity spine NOS	1
N382	Acquired deformity of neck	1
N38z	Acquired deformity NOS	1
N38y0	Acquired clavicle deformity	1
1DCC.00	Aching muscles	1
1DCC	Aching muscles	1
N220H	Achilles tenosynovitis	1
N2174	Achilles tendinitis	1
N094-1	Ache in joint	1
S4604	Ac mnscl tr,med,periph,dtchmt	1
S4614	Ac mnscl tr,lat,periph,dtchmt	1
S4605	Ac mnscl tear,med,horiz clvge	1
S4615	Ac mnscl tear,lat,horiz clvge	1
S4602	Ac menscl tear,med,bckt hndle	1
S4612	Ac menscl tear,lat,bckt hndle	1
S4603	Ac meniscal tear, med, radial	1
S4601	Ac meniscal tear, med, post horn	1
S4600	Ac meniscal tear, med, ant horn	1
S4613	Ac meniscal tear,lat,radial	1
S4611	Ac meniscal tear,lat,post horn	1
S4610	Ac meniscal tear,lat,ant horn	1
N22y2	Abscess of tendon	1
N22yE	Abscess of bursa-shoulder	1
N22yJ	Abscess of bursa-knee	1
N22y3	Abscess of bursa	1
SD	Abrasions	1
N084C	Abduction contracture-shoulder	1
1969.00	Abdominal pain	1
EGTON251	? Frozen Right Shoulder	1
N11C1	2 lev lumbsac spond+radiculop	1
	•	

		Number of
Read code	Description	studies
N11C0 HNG0160 HNG0157 HNG0162 HNG0163 S11 S10z S10 S11z S21z S21 S32z S104 S32 S20z S20 S3zz S4F S4A	1 lev lumbsac spond+radiculop (hn) Sports Injury (hn) Spinal Injury (hn) Soft tissue injuries (hn) Rhematic problems #Vertebra + cord lesion #Spine - no cord lesion - NOS #Spine + cord lesion NOS #Scapula NOS #Scapula #Patella NOS #Lumbar spine - no cord lesion #Knee-cap #Clavicle NOS #Clavicle #Bones NOS #-dslc/subluxation knee #-dslc or subluxation shoulder	1 1 1 1 1 1 1 1 1 1 1 1 1 1

## Appendix 17. List of Read codes used in the studies of male sexual dysfunction.

Б	5	Number of
Read code	Description	studies
E227311	Erectile dysfunction	3
K27y100	Impotence of organic origin	2
E227300	Impotence	2
Eu52213	[X]Psychogenic impotence	1
Eu52212	[X]Male erectile disorder	1
E227000	Unspecified psychosexual dysfunction	1
7C25E00	Treatment of erectile dysfunction NEC	1
7A6G000	Revascularisation for impotence	1
8IE8.00	Referral to erectile dysfunction clinic declined	1
8HTj.00	Referral to erectile dysfunction clinic	1
E227z00	Psychosexual dysfunction NOS	1
E227.00	Psychosexual dysfunction	1
E227700	Psychogenic dyspareunia	1
Z9E9.00	Provision of device for impotence	1
E227600	Premature ejaculation	1
7C25F00	Operations on penis for erectile dysfunction NEC	1
7A6G500	Ligation of penile veins for impotence	1
E227.11	Lack of libido	1
E227100	Inhibited sexual desire	1
E227500	Inhibited male orgasm	1
E227z11	Fear of ejaculation	1
K27y700	Erectile dysfunction due to diabetes mellitus	1
66Au.00	Diabetic erectile dysfunction review	1
66Av.00	Diabetic assessment of erectile dysfunction	1
1D1B.00	C/O erectile dysfunction	1
ZG43600	Advice on technique for impotence	1
67IA.00	Advice about impotence	1
	Advice on technique for impotence Advice about impotence	

## Appendix 18. List of Read codes used in the studies of sleep disorder.

Read code	Description	Number of
1B1B.00	Cannot sleep - insomnia	studies 1
1B1B.11	C/O - insomnia	1
1B1B100	Middle insomnia	1
1B1B200	Late insomnia	1
1B1Q.00	Poor sleep pattern	1
E274.00	Non-organic sleep disorders	1
E274.11	Hypersomnia of non-organic origin	1
E274.12	Insomnia due to nonorganic sleep disorder	1
E274000	Unspecified non-organic sleep disorder	1
E274100	Transient insomnia	1
E274111	Insomnia NOS	1
E274200	Persistent insomnia	1
E274300	Transient hypersomnia	1
E274311	Hypersomnia NOS	1
E274400	Persistent hypersomnia	1
E274500	Jet lag syndrome	1
E274600	Shifting sleep-work schedule	1
E274700	Somnambulism - sleep walking	1
E274800	Night terrors	1
E274900	Nightmares	1
E274A00	Sleep drunkenness	1
E274B00	Repeated rapid eye movement sleep interruptions	1
E274C00	Other sleep stage or arousal dysfunction	1
E274D00	Repetitive intrusions of sleep	1
E274D11	Restless sleep	1
E274E00	'Short-sleeper'	1
E274F00	Inversion of sleep rhythm	1
E274y00	Other non-organic sleep disorder	1
E274y11	Dreams	1
E274z00	Non-organic sleep disorder NOS	1
Eu51.00	[X]Nonorganic sleep disorders	1
Eu51000	[X]Nonorganic insomnia	1
Eu51100	[X]Nonorganic hypersomnia	1
Eu51200	[X]Nonorganic disorder of the sleep-wake schedule	1
Fy00.00	Disorders of initiating and maintaining sleep	1
Fy01.00	Disorders of excessive somnolence	1
Fy02.00	Disorders of the sleep-wake schedule	1
R005.00	[D]Sleep disturbances	1
R005.11	[D]Insomnia - symptom	1
R005.12	[D]Sleep rhythm problems	1
R005000	[D]Sleep disturbance, unspecified	1
R005100	[D]Insomnia with sleep apnoea	1
R005200	[D]Insomnia NOS	1
R005300	[D]Hypersomnia with sleep apnoea	1
R005311	[D]Sleep apnoea syndrome	1
R005312	[D]Syndrome sleep apnoea	1
R005400	[D]Hypersomnia NOS	1
R005500	[D]Sleep rhythm inversion	1
R005600	[D]Sleep rhythm irregular	1
R005700	[D]Sleep-wake rhythm non-24-hour cycle	1
R005800	[D]Sleep dysfunction with sleep stage disturbance	1

Read code	Description	Number of studies
R005900 R005z00	[D]Sleep dysfunction with arousal disturbance [D]Sleep dysfunction NOS	studies 1 1

## Appendix 19. List of Read codes used in the studies of fatal and non-fatal self-harm.

Read code	Description	Number of studies
TK1y.00	Suicide and selfinflicted poisoning by other utility gas	8
TK21.00	Suicide and selfinflicted poisoning by other carbon monoxide	8
TK01000	Suicide and self inflicted injury by Amylobarbitone	8
TK03.00	Suicide + selfinflicted poisoning tranquilliser/psychotropic	8
TK0z.00	Suicide + selfinflicted poisoning by solid/liquid subst NOS	8
TK04.00	Suicide + selfinflicted poisoning by other drugs/medicines	8
TK02.00	Suicide + selfinflicted poisoning by oth sedatives/hypnotics	8
TK20.00	Suicide + selfinflicted poisoning by motor veh exhaust gas	8
TK05.00	Suicide + selfinflicted poisoning by drug or medicine NOS	8
TK07.00	Suicide + selfinflicted poisoning by corrosive/caustic subst	8
TK01.00	Suicide + selfinflicted poisoning by barbiturates	8
TK00.00	Suicide + selfinflicted poisoning by analgesic/antipyretic	8
TK06.00	Suicide + selfinflicted poisoning by agricultural chemical	8
U200.00	[X]Intent self poison/exposure to nonopioid analgesic	7
U2011	[X]Deliberate drug overdose / other poisoning	7
TK70.00	Suicide+selfinflicted injury-jump from residential premises	7
TK71.00	Suicide+selfinflicted injury-jump from oth manmade structure	7
TK72.00	Suicide+selfinflicted injury-jump from natural sites	7
TK7z.00	Suicide+selfinflicted injury-jump from high place NOS	7
TK61.00	Suicide and selfinflicted injury by stabbing	7
TK51.00	Suicide and selfinflicted injury by shotgun	7
TKx2.00	Suicide and selfinflicted injury by scald	7
TKxy.00	Suicide and selfinflicted injury by other specified means	7
TK54.00	Suicide and selfinflicted injury by other firearm	7
TK52.00	Suicide and selfinflicted injury by hunting rifle	7
TK30.00	Suicide and selfinflicted injury by hanging	7
TK6z.00	Suicide and selfinflicted injury by cutting and stabbing NOS	7
TK60.00	Suicide and selfinflicted injury by cutting	7
TKx5.00	Suicide and selfinflicted injury by crashing motor vehicle	7
TKx1.00	Suicide and selfinflicted injury by burns or fire	7
TK00	Suicide and selfinflicted injury	7
TK01400	Suicide and self inflicted injury by Phenobarbitone	7
TK01100	Suicide and self inflicted injury by Barbitone	7
TK14	Suicide and self harm	7
TK000	Suicide + selfinflicted poisoning by solid/liquid substances	7
TK200	Suicide + selfinflicted poisoning by other gases and vapours	7
TK11.00	Suicide + selfinflicted poisoning by liquified petrol gas	7
TK2z.00	Suicide + selfinflicted poisoning by gases and vapours NOS	7
TK10.00	Suicide + selfinflicted poisoning by gas via pipeline	7
TK1z.00	Suicide + selfinflicted poisoning by domestic gases NOS	7
TKx0000	Suicide + selfinflicted injury-jumping before moving object	7
TK31.00	Suicide + selfinflicted injury by suffocation by plastic bag	7
TK3y.00	Suicide + selfinflicted inj oth mean hang/strangle/suffocate	7
TK3z.00	Suicide + selfinflicted inj by hang/strangle/suffocate NOS	7
TK13	Poisoning - self-inflicted	7
TK17	Para-suicide	7
TK11	Cause of overdose - deliberate	7
TK15	Attempted suicide	7
U213	[X]Suicide	6
U20C.11	[X]Self poisoning with paragraph	6
U20C.12	[X]Self poisoning with paraquat	6

Read code	Description	Number of studies
U20A.11	[X]Self poisoning from glue solvent	6
U20B.11	[X]Self carbon monoxide poisoning	6
U215	[X]Para-suicide	6
U2000	[X]Intentional self poisoning/exposure to noxious substances	6
U20A.00	[X]Intentional self poison organ solvent,halogen hydrocarb	6
U20y.00	[X]Intent self poison/exposure to unspecif chemical	6
U202.00	[X]Intent self poison/exposure to sedative hypnotic	6
U204.00	[X]Intent self poison/exposure to psychotropic drug	6
U20C.00	[X]Intent self poison/exposure to pesticide	6
U20B.00	[X]Intent self poison/exposure to other gas/vapour	6
U207.00	[X]Intent self poison/exposure to oth autonomic drug	6
U206.00	[X]Intent self poison/exposure to hallucinogen	6
U201.00	[X]Intent self poison/exposure to antiepileptic	6
U20yz00	[X]Intent self poison unspecif chemical unspecif place	6
U202z00	[X]Intent self poison sedative hypnotic unspecif place	6
U204z00 U204100	[X]Intent self poison psychotropic drug unspecif place	6 6
U204100 U20Bz00	[X]Intent self poison psychotropic drug at res institut	6
U208z00	[X]Intent self poison other gas/vapour unspecif place	6
U200200 U207z00	[X]Intent self poison oth/unsp drug/medic unspecif place [X]Intent self poison oth autonomic drug unspecif place	6
U200z00	[X]Intent self poison nonopioid analgesic unspecif place	6
U200100	[X]Intent self poison nonopioid analgesic at res institut	6
U205z00	[X]Intent self poison narcotic drug unspecif place	6
U201z00	[X]Intent self poison antiepileptic unspecif place	6
U206400	[X]Intent self poison anticplication place [X]Intent self pois hallucinogen in street/highway	6
U20y000	[X]Int self poison/exposure to unspecif chemical at home	6
U202000	[X]Int self poison/exposure to sedative hypnotic at home	6
U204000	[X]Int self poison/exposure to psychotropic drug at home	6
U20C000	[X]Int self poison/exposure to pesticide at home	6
U208.00	[X]Int self poison/exposure to other/unspec drug/medicament	6
U20B000	[X]Int self poison/exposure to other gas/vapour at home	6
U207000	[X]Int self poison/exposure to oth autonomic drug at home	6
U200000	[X]Int self poison/exposure to nonopioid analgesic at home	6
U205000	[X]Int self poison/exposure to narcotic drug at home	6
U201000	[X]Int self poison/exposure to antiepileptic at home	6
U20y200	[X]Int self poison unspecif chemical school/pub admin area	6
U202y00	[X]Int self poison sedative hypnotic other spec place	6
U204y00	[X]Int self poison psychotropic drug other spec place	6
U20Cy00	[X]Int self poison pesticide other spec place	6
U20B200	[X]Int self poison other gas/vapour school/pub admin area	6
U20By00	[X]Int self poison other gas/vapour other spec place	6
U208y00	[X]Int self poison oth/unsp drug/medic other spec place	6
U20A400	[X]Int self poison org solvent,halogen hydrocarb,in highway	6
U200y00	[X]Int self poison nonopioid analgesic other spec place	6
U205y00	[X]Int self poison narcotic drug other spec place	6
U214	[X]Attempted suicide	6
TKx7.00	Suicide and selfinflicted injury caustic subst, excl poison	6
TKxz.00 TKx00	Suicide and selfinflicted injury by other means NOS Suicide and selfinflicted injury by other means	6 6
TK700	Suicide and selfinflicted injury by jumping from high place	6
TK700	Suicide and selfinflicted injury by extremes of cold	6
TKx4.00	Suicide and selfinflicted injury by electrocution	6
TK400	Suicide and selfinflicted injury by drowning	6
	called and commissed injury by drowning	O

Read code	Description	Number of studies
TK600	Suicide and selfinflicted injury by cutting and stabbing	6
TKz00	Suicide and selfinflicted injury NOS	6
TK100	Suicide + selfinflicted poisoning by gases in domestic use	6
TKx0.00	Suicide + selfinflicted injury-jump/lie before moving object	6
TK300	Suicide + selfinflicted injury by hang/strangulate/suffocate	6
U2y0.00	[X]IntentionI self harm by oth specif means occurrn at home	5
U2z0.00	[X]Intentional self harm by unspecif means occurrn at home	5
U290.00	[X]Intentional self harm by sharp object occurrence at home	5
U29z.00	[X]Intentional self harm by sharp object occ unspecif place	5
U2A0.00	[X]Intentional self harm by blunt object occurrence at home	5
U270.00	[X]Intention self harm by smoke fire/flames occurrn at home	5
U294.00	[X]Intention self harm by sharp object occ street/highway	5
U29y.00	[X]Intention self harm by sharp object occ oth specif place	5
U205.00	[X]Intent self poison/exposure to narcotic drug	5
U209.00	[X]Intent self poison/exposure to alcohol	5
U209z00	[X]Intent self poison alcohol unspecif place	5
U202400	[X]Intent self pois sedative hypnotic in street/highway	5
U208400 U20A000	[X]Intent self pois oth/unsp drug/medic in street/highway [X]Intent self pois organ solvent,halogen hydrocarb, home	5 5
U200500	[X]Intent self pois organ solvent, halogen rivulocals, nome	5
U250.00	[X]Intent self harm oth/unspecif firearm disch occ at home	5
U2D6.00	[X]Intent self harm crash motor vehic occ indust/constr area	5
U2zy.00	[X]Intent self harm by unspecif means occ oth specif place	5
U2zz.00	[X]Intent self harm by unspecif means occ at unspecif place	5
U2z2.00	[X]Intent self harm by unspec mean occ sch/ins/pub adm area	5
U27z.00	[X]Intent self harm by smoke fire/flames occ unspecif place	5
U274.00	[X]Intent self harm by smoke fire/flame occ street/highway	5
U291.00	[X]Intent self harm by sharp object occ resident instit'n	5
U2yz.00	[X]Intent self harm by oth specif means occ unspecif place	5
U2y1.00	[X]Intent self harm by oth specif means occ resid instit'n	5
U2B0.00	[X]Intent self harm by jumping from high place occ at home	5
U2B4.00	[X]Intent self harm by jump from high place occ street/h'way	5
U211.00	[X]Intent self harm by hangng strangult/suffoct resid instit	5
U21z.00	[X]Intent self harm by hangng strangul/suffoct unspecif plce	5
U21y.00	[X]Intent self harm by hangng strangul/suffoct oth spec pice	5
U210.00	[X]Intent self harm by hanging strangulat/suffocat occ home	5
U221.00	[X]Intent self harm by drowning/submersn occ resid instit'n	5
U22z.00	[X]Intent self harm by drown/submersn occ unspecified place	5
U22y.00	[X]Intent self harm by drown/submersn occ oth specif place	5
U2D0.00	[X]Intent self harm by crash of motor vehicl occurrn at home	5
U2D4.00	[X]Intent self harm by crash motor vehicl occ street/highway	5
U2A3.00	[X]Intent self harm by blunt object occ sports/athlet area	5
U2A1.00	[X]Intent self harm by blunt object occ resident instit'n	5
U242.00 U208000	[X]Int slf hrm rifl s'gun/lrg frarm dis sch/ins/pub adm area	5 5
U209y00	[X]Int self poison/exposure to oth/unsp drug/medicam home [X]Int self poison alcohol other spec place	5
U209y00 U20Az00	[X]Int self pois org solv,halogen hydrocarb, unspec place	5
U241.00	[X]Int self pois org sorv, haloger hydrocarb, unspec place [X]Int self harm rifl s'gun/lrg frarm disch occ resid instit	5
U2C4.00	[X]Int self harm jump/lying befr mov obje occ street/highway	5
U2C1.00	[X]Int self harm jump/lying befr mov obje occ streetingflway	5
U2Cy.00	[X]Int self harm jump/lying bef mov obje occ oth specif pice	5
U2Bz.00	[X]Int self harm by jump from high place occ unspecif place	5
U2By.00	[X]Int self harm by jump from high place occ oth specif place	5
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Read code	Description	Number of
	·	studies
U2B6.00 TK5z.00	[X]Int self harm by jump from high place indust/constr area	5 5
TK52.00	Suicide and selfinflicted injury by firearms/explosives NOS Suicide and selfinflicted injury by firearms and explosives	5
TK500		5
	Suicide and selfinflicted injury by crashing of aircraft Slashed wrists self inflicted	
TK60111		5 5
TK60100	Self inflicted lacerations to wrist	
U202.13	[X]Overdose - temazepam	4
U202.11	[X]Overdose - sleeping tabs	4
U202.15	[X]Overdose - nitrazepam	4
U202.12	[X]Overdose - diazepam	4
U202.16	[X]Overdose - benzodiazepine	4
U202.17	[X]Overdose - barbiturate	4
U204.11	[X]Overdose - antidepressant	4
U202.18	[X]Overdose - amobarbital	4
U204.12	[X]Overdose - amitriptyline	4
U204.13	[X]Overdose - SSRI	4
U2z00	[X]Intentional self harm by unspecified means	4
U2700	[X]Intentional self harm by smoke, fire and flames	4
U2900	[X]Intentional self harm by sharp object	4
U2y00	[X]Intentional self harm by other specified means	4
U2B00	[X]Intentional self harm by jumping from a high place	4
U2600	[X]Intentional self harm by explosive material	4
U2200	[X]Intentional self harm by drowning and submersion	4
U2D00	[X]Intentional self harm by crashing of motor vehicle	4
U2A00	[X]Intentional self harm by blunt object	4
U200400	[X]Intent self pois nonopioid analgesic in street/highway	4
U28z.00	[X]Intent self harm by steam hot vapour/obj occ unspec place	4
U280.00	[X]Intent self harm by steam hot vapour/hot obj occ at home	4
U2400	[X]Intent self harm by rifle shotgun/larger firearm disch	4
U2500	[X]Intent self harm by other/unspecified firearm discharge	4
U2C00	[X]Intent self harm by jumping / lying before moving object	4
U2100	[X]Intent self harm by hanging strangulation / suffocation	4
U212.00	[X]Inten slf harm hang strang/suffc sch oth ins/pub adm area	4
U209000	[X]Int self poison/exposure to alcohol at home	4
U4100	[X]Hanging strangulation + suffocation undetermined intent	4
U4Bz.00	[X]Fall jump/push frm high plce undt intnt occ unspecif plce	4
U720.00	[X]Sequelae of intentional self-harm	3
U211	[X]Self inflicted injury	3
U4400	[X]Rifle shotgun+larger firearm discharge undetermin intent	3
U40y.00	[X]Poisoning/exposure, ? intent, to unspecif chemical	3
U402.00	[X]Poisoning/exposure, ? intent, to sedative hypnotic	3
U404.00	[X]Poisoning/exposure, ? intent, to psychotropic drug	3
U40C.00	[X]Poisoning/exposure, ? intent, to pesticide	3
U40B.00	[X]Poisoning/exposure, ? intent, to other gas/vapour	3
U400.00	[X]Poisoning/exposure, ? intent, to nonopioid analgesic	3
U405.00	[X]Poisoning/exposure, ? intent, to narcotic drug	3
U409.00	[X]Poisoning/exposure, ? intent, to alcohol	3
U4000	[X]Poisoning/expos to noxious substance,undetermined intent	3
U408.00	[X]Poison/exposure, ?intent, to other/unspec drug/medicament	3
U408000	[X]Poison/exposure ?intent, to oth/unsp drug/medicam home	3
U409000	[X]Poison/exposure ?intent, to alcohol at home	3
U40y600	[X]Poison/expos ?intent unspec chemic indust/construct area	3
U200.11	[X]Overdose - paracetamol	3
	F. A. Caracan Branch and Comment	G

Read code	Description	Number of studies
U200.12	[X]Overdose - ibuprofen	3
U200.13	[X]Overdose - aspirin	3
U4500	[X]Other+unspecified firearm discharge undetermined intent	3
U200	[X]Intentional self-harm	3
U2800	[X]Intentional self harm by steam hot vapours / hot objects	3
U216.00	[X]Intent self harm by hang strangl/suffc indust/constr area	3
U220.00	[X]Intent self harm by drowning/submersion occurrn at home	3
U206000	[X]Int self poison/exposure to hallucinogen at home	3
U212	[X]Injury - self-inflicted	3
U410.00	[X]Hanging strangulat+suffocat undet intent occurrn at home	3
U4B00	[X]Falling jumping/pushed from high place undeterm intent	3
U3011	[X]Deliberate drug poisoning	3
ZX1R.00	Throwing self in front of vehicle	3
ZX1Q.00	Throwing self in front of train	3
TK53.00 TK01z00	Suicide and selfinflicted injury by military firearms Suicide and self inflicted injury by barbiturates	3
TK01200	Suicide + selfinflicted poisoning by other gases and vapours	3
TKx0z00	Suicide + selfinflicted inj-jump/lie before moving obj NOS	3
ZX1N.00	Stabbing self	3
ZX1M.00 ZX1M.00	Shooting self	3
ZX1W.00 ZX1K.12	Setting self alight	3
ZX1K.12 ZX1K.11	Setting fire to self	3
ZX1H200	Self-suffocation	3
ZX1H100	Self-strangulation	3
ZX1K.00	Self-incineration	3
ZX1J.00	Self-electrocution	3
ZX1H.00	Self-asphyxiation	3
SL15	Overdose of drug	3
SL14	Overdose of biological substance	3
TKy00	Late effects of selfinflicted injury	3
ZX1Q.11	Jumping under train	3
ZX1B.00	Jumping from height	3
ZX1B300	Jumping from cliff	3
ZX1B100	Jumping from building	3
ZX1B200	Jumping from bridge	3
TK12	Injury - self-inflicted	3
ZX18.00	Hanging self	3
SLHz.00	Drug and medicament poisoning NOS	3
ZX15.00	Drowning self	3
U7200	[X]Sequel intentn self-harm assault+event of undeterm intent	2
ZX1LD00	[X]Self mutilation	2
U40y000	[X]Poison/exposure ?intent, to unspecif chemical at home	2
U40C000	[X]Poison/exposure ?intent, to pesticide at home	2
U40A.00	[X]Pois/exposure,?intent,to organ solvent,halogen hydrocarb	2
U40y400	[X]Pois/expos ?intent unspecif chemical in street/highway	2
U40yz00	[X]Pois/expos ?intent to unspecif chemical unspecif place	2
U402z00	[X]Pois/expos ?intent to sedative hypnotic unspecif place	2
U408z00	[X]Pois/expos ?intent to oth/unsp drug/medic unspecif place	2
U409z00	[X]Pois/expos ?intent to alcohol unspecif place	2
U40B400	[X]Pois/expos ?intent other gas/vapour in street/highway	2
U409400	[X]Pois/expos ?intent alcohol in street/highway	2
U406y00	[X]Pois/exp ?intent to hallucinogen other spec place	2 2
U404300	[X]Pois/exp ?intent psychotropic drug in sport/athletic area	2

Read code	Description	Number of
U40A300	[X]Pois/exp ?intent org solvent,halogen hydrocarb,sport area	studies 2
U409200	[X]Pois/exp ?intent old solvent, halogen hydrocarb, sport area	2
U205.11	[X]Overdose - heroin	2
U2Az.00	[X]Intentional self harm by blunt object occ unspecif place	2
U206z00	[X]Intent self poison hallucinogen unspecif place	2
U209400	[X]Intent self pois alcohol in street/highway	2
U292.00	[X]Intent self harm sharp obj occ sch oth ins/pub adm area	2
U2yy.00	[X]Intent self harm oth specif means occ oth specif place	2
U2y6.00	[X]Intent self harm oth specif means occ indust/constr area	2
U2z1.00	[X]Intent self harm by unspecif means occurrn resid instit'n	2
U27y.00	[X]Intent self harm by smoke fire/flame occ oth specif plce	2
U295.00	[X]Intent self harm by sharp object occ trade/service area	2
U296.00	[X]Intent self harm by sharp object occ indust/constr area	2
U2B1.00	[X]Intent self harm by jump from high place occ resid instit	2
U213.00	[X]Intent self harm by hang strangl/suffc sport/athlet area	2
U2Dz.00	[X]Intent self harm by crash motor vehic occ unspecif place	2
U2A2.00	[X]Intent self harm blunt obj occ sch oth ins/pub adm area	2
U20Ay00	[X]Int self pois org solv,halogen hydrocarb,oth spec place	2
U200600	[X]Int self pois nonopioid analgesic indust/construct area	2
U282.00	[X]Int self harm by steam hot vapor/obj sch/ins/pub adm area	2
U4C00	[X]Falling lying running befor/into moving obj undet intent	2
U4B6.00	[X]Fall jump/push frm high plce undt intn indust/constr area	2
U4700	[X]Exposure to smoke, fire and flames, undetermined intent	2
U470.00	[X]Exposure to smoke fire+flame undeterm intent occ at home	2
U4200	[X]Drowning and submersion, undetermined intent	2
U4D7.00	[X]Crashng of motor vehicle undetermined intent occ on farm	2
U4D0.00	[X]Crashng of motor vehicle undetermined intent occ at home	2
U4D00	[X]Crashing of motor vehicle, undetermined intent	2
U4D3.00	[X]Crash of motor vehicle undeterm intent sport/athlet area	2
U4A5.00	[X]Contct wth blunt obj undet intent occ trade/service area	2
U4A3.00	[X]Contct wth blunt obj undet intent occ sport/athletic area	2
U4A0.00	[X]Contact wth blunt object undetermined intent occ at home	2
U4800	[X]Contact with steam hot vapours+objects undetermn intent	2
U4900	[X]Contact with sharp object, undetermined intent	2
U49z.00	[X]Contact with sharp obj undeterm intent occ unspecif place	2
U4A00	[X]Contact with blunt object, undetermined intent	2
U4Az.00	[X]Contact with blunt obj undeterm intent occ unspecif place	2
ZX1S.00	Throwing self onto floor Thoughts of deliberate self barm	2 2
1BDA.00	Thoughts of deliberate self harm	2
1BD3.00	Suicidal plans Suicidal ideation	2
1BD1.00 1B19.11	Suicidal deation Suicidal - symptom	2
1B19.11	Suicidal Suicidal	2
ZX19200	Slapping self	2
ZX11.00	Self-scalding	2
ZX1L300	Self-mutilation of penis	2
ZX1L100	Self-mutilation of hands	2
ZX1L200	Self-mutilation of genitalia	2
ZX1L600	Self-mutilation of ears	2
ZX1L.00	Self-mutilation	2
ZX1G.00	Scratches self	2
ZX19100	Punching self	2
TN11	Poisoning undetermined - accidentally or purposely inflicted	2
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Read code	Description	Number of studies
ZX1E.00	Pinching self	2
ZX1C.00	Nipping self	2
14K1.00	Intentional overdose of prescription only medication	2
TN000	Injury ?accidental, poisoning by solid/liquid substances	2
TN0z.00	Injury ?accidental, poisoning by solid or liquid subst NOS	2
TN2y.00	Injury ?accidental, poisoning by other spec gas or vapour	2
TN04.00	Injury ?accidental, poisoning by other spec drug/medicament	2
TN02.00	Injury ?accidental, poisoning by other sedative/hypnotic	2
TN200	Injury ?accidental, poisoning by other gases	2
TN21.00	Injury ?accidental, poisoning by other carbon monoxide	2
TN20.00	Injury ?accidental, poisoning by motor vehicle exhaust gas	2
TN11.00	Injury ?accidental, poisoning by liquid petrol gas	2
TN100	Injury ?accidental, poisoning by gases in domestic use	2
TN1z.00	Injury ?accidental, poisoning by gas in domestic use NOS	2
TN10.00	Injury ?accidental, poisoning by gas distributed by pipeline	2
TN05.00	Injury ?accidental, poisoning by drug or medicament NOS	2
TN06.00	Injury ?accidental, poisoning by corrosive/caustic substance	2
TN08.00	Injury ?accidental, poisoning by arsenic or its compounds	2
TN00.00	Injury ?accidental, poisoning by analgesic or anti-pyretic	2
TN07.00	Injury ?accidental, poisoning by agricultural chemicals	2
TN300	Injury ?accidental, hanging, strangulation and suffocation	2
TN30.00	Injury ?accidental, hanging	2
TN01300	Injury ?accidental poisoning by Pentobarbitone	2
ZRLfC12	HoNOS item 2 - non-accidental self injury	2 2
ZX19.00	Hitting self	2
ZX13.00	Cutting self	2
ZX13.11	Cuts self	2
ZX12.00	Burning self	2
ZX11.00	Biting self	2
ZX11.11	Bites self	2
SL90.00 8G6Z.00	Antidepressant poisoning	2 2
	Anti-suicide psychotherapy NOS	2
8G600 SL90z00	Anti-suicide psychotherapy	
U4z00	Anti-depressant poisoning NOS [X]Unspecified event, undetermined intent	2
U4zz.00	[X]Unspecified event, undetermined intent	1
U4z3.00	[X]Unspecif event undeterm intent occurr unspecif place [X]Unspecif event undeterm intent occurr sport/athlet area	1
U4zy.00	[X]Unspecif event undeterm intent occurr sportatilier area [X]Unspecif event undeterm intent occurr oth specif place	1
U4z6.00	[X]Unspecif event undeterm intent occurrn indust/constr area	1
SyuG.00	[X]Toxic effects of substances chiefly nonmedicinal source	1
SyuG700	[X]Toxic effects of other specified gases, fumes & vapours	1
SyuGH00	[X]Toxic effect of paints and dyes, NEC	1
SyuGJ00	[X]Toxic effect of other specified substances	1
SyuG900	[X]Toxic effect of other pesticides	1
SyuG800	[X]Toxic effect of other insecticides	1
SyuGC00	[X]Toxic effect of other ingested (parts of) plant(s)	1
SyuG000	[X]Toxic effect of other alcohols	1
U2E00	[X]Self mutilation	1
U406.00	[X]Poisoning/exposure, ? intent, to hallucinogen	1
SyuFM00	[X]Poisoning by other psychotropic drugs, NEC	1
SyuFB00	[X]Poisoning by other opioids	1
SyuFW00	[X]Poisoning by other laxatives, incl intestin atonia drugs	1
SyuFT00	[X]Poisoning by other antihypertensive drugs, NEC	1

Read code	Description	Number of
SyuFD00	[X]Poisoning by other and unspecified narcotics	studies 1
SyuFA00	[X]Poisoning by other analgesics, not elsewhere classified	1
SyuF900	[X]Poisoning by oth nonsteroidal anti-inflamm drugs [NSAID]	1
SyuFc00	[X]Poisoning by oth & unspecif drugs & biologic substances	1
SyuF.00	[X]Poisoning by drugs and biological substances	1
U40Bz00	[X]Pois/expos ?intent to other gas/vapour unspecif place	1
U409100	[X]Pois/expos ?intent to alcohol at res institut	1
U408400	[X]Pois/expos ?intent oth/unsp drug/medic in street/highway	1
U40yy00	[X]Pois/exp ?intent to unspecif chemical other spec place	1
U40By00	[X]Pois/exp ?intent to other gas/vapour other spec place	1
U202.14	[X]Overdose - flurazepam	1
U4y00	[X]Other specified events, undetermined intent	1
U4y0.00	[X]Other specified event undetermind intent occurrn at home	1
U4y3.00	[X]Oth specif event undetermin intent occ sport/athlet area	1
Eu15000	[X]Mnt/beh dis due oth stim inc caffein: acute intoxication	1
Eu18000	[X]Mental & behav dis due vol solvents: acute intoxication	1
Eu17000	[X]Mental & behav dis due to use tobacco: acute intoxication	1
Eu11000	[X]Mental & behav dis due to use opioids: acute intoxication	1
Eu14000	[X]Mental & behav dis due to use cocaine: acute intoxication	1
Eu10000	[X]Mental & behav dis due to use alcohol: acute intoxication	1
Eu13000	[X]Mental & behav dis due seds/hypntcs: acute intoxication	1
Eu16000	[X]Mental & behav dis due hallucinogens: acute intoxication	1
Eu12000	[X]Mental & behav dis due cannabinoids: acute intoxication	1
Eu1A000	[X]Ment behav dis due use crack cocaine: acute intoxication	1
U3911	[X]Intentionally shot with shotgun	1
U3811	[X]Intentionally shot with handgun	1
U41z.00	[X]Hangng strangult+suffoct undet intent occ unspecif place	1
U4B0.00	[X]Fallng jumpng/push frm high place undet intent occ home	1
U8100	[X]Evid of alcohol involv determind by level of intoxication	1
U4D1.00	[X]Crashng of motor vehicle undeterm intent resident instit	1
U466.00	[X]Contct wth explosiv materl undet intnt indust/constr area	1
U4A6.00	[X]Contct with blunt obj undet intent occ industr/constr area	1
U4600	[X]Contact with explosive material, undetermined intent	1
U4Ay.00	[X]Contact with explosive material, undetermined intent	1
U1AC.11	[X]Accidental poisoning with weedkiller	1
U1A2.13	[X]Accidental poisoning with temazepam	1
U1A2.11	[X]Accidental poisoning with sleeping tablets	1
U1AC.12	[X]Accidental poisoning with paraquat	1
U1A0.11	[X]Accidental poisoning with paracetamol	1
U1A2.15	[X]Accidental poisoning with nitrazepam	1
U1A0.12	[X]Accidental poisoning with ibuprofen	1
U1A5.11	[X]Accidental poisoning with heroin	1
U1A2.12	[X]Accidental poisoning with diazepam	1
U1A2.16	[X]Accidental poisoning with diazepanie	1
U1A2.17	[X]Accidental poisoning with barbiturate	1
U1A0.13	[X]Accidental poisoning with aspirin	1
U1A4.11	[X]Accidental poisoning with antidepressant	1
U1A4.11	[X]Accidental poisoning with antitoepressant	1
U1A4.12 U1A4.13	[X]Accidental poisoning with SSRI	1
U1A4.13 U1AA.11	[X]Accidental poisoning with SSRI	1
U1AD.00	[X]Accidental poisoning from gide solvent [X]Accidental poisoning by and exposure to amfetamine	
U1AD.00	[X]Accidental poisoning by and exposure to ametamine [X]Accidental poisoning by + exposure to noxious substances	1
U1A12	· · · · · · · · · · · · · · · · · ·	1
0 IA IZ	[X]Accidental drug overdose / other poisoning	I

Read code	Description	Number of studies
U1A11	[X]Accidental drug / other poisoning	1
U1AB.11	[X]Accidental carbon monoxide poisoning	1
U1Ay.00	[X]Accident poisoning/exposure to unspecif chemical	1
U1A2.00	[X]Accident poisoning/exposure to sedative hypnotic	1
U1A4.00	[X]Accident poisoning/exposure to psychotropic drug	1
U1AC.00	[X]Accident poisoning/exposure to pesticide	1
U1AB.00	[X]Accident poisoning/exposure to other gas/vapour	1
U1A7.00	[X]Accident poisoning/exposure to oth autonomic drug	1
U1A0.00	[X]Accident poisoning/exposure to nonopioid analgesic	1
U1A5.00	[X]Accident poisoning/exposure to narcotic drug	1
U1A6.00	[X]Accident poisoning/exposure to hallucinogen	1
U1A3.00	[X]Accident poisoning/exposure to antiparkinson drug	1
U1A1.00	[X]Accident poisoning/exposure to antiepileptic	1
U1A9.00	[X]Accident poisoning/exposure to alcohol	1
U1AD000	[X]Accident poisoning by and exposure to amphetamine - home	1
U1Ay700	[X]Accident poison/exposure to unspecif chemical on farm	1
U1Ay000	[X]Accident poison/exposure to unspecif chemical at home	1
U1A2000	[X]Accident poison/exposure to sedative hypnotic at home	1
U1A4000	[X]Accident poison/exposure to psychotropic drug at home	1
U1AC700	[X]Accident poison/exposure to pesticide on farm	1
U1AC000	[X]Accident poison/exposure to pesticide at home	1
U1A8.00	[X]Accident poison/exposure to other/unspec drug/medicament	1
U1AB700	[X]Accident poison/exposure to other gas/vapour on farm	1
U1AB000	[X]Accident poison/exposure to other gas/vapour at home	1
U1A8000	[X]Accident poison/exposure to oth/unsp drug/medicam home	1
U1A7000	[X]Accident poison/exposure to oth autonomic drug at home	1
U1A0000	[X]Accident poison/exposure to nonopioid analgesic at home	1
U1A5000	[X]Accident poison/exposure to narcotic drug at home	1
U1A1000	[X]Accident poison/exposure to antiepileptic at home	1
U1A9000	[X]Accident poison/exposure to alcohol at home	1
U1AA.00	[X]Accid poison/exposure to organ solvent, halogen hydrocarb	1
U1Ay500	[X]Accid poison/expos unspecif chemical trade/service area	1
U1Ayz00	[X]Accid poison/expos to unspecif chemical unspecif place	1
U1Ay100	[X]Accid poison/expos to unspecif chemical at res institut	1
U1A2z00	[X]Accid poison/expos to sedative hypnotic unspecif place	1
U1A4100	[X]Accid poison/expos to psychotropic drug at res institut	1
U1ABz00	[X]Accid poison/expos to other gas/vapour unspecif place	1
U1A8100	[X]Accid poison/expos to oth/unsp drug/medicam res institut	1
U1A8z00	[X]Accid poison/expos to oth/unsp drug/medic unspecif place	1
U1A7z00	[X]Accid poison/expos to oth autonomic drug unspecif place	1
U1A0z00	[X]Accid poison/expos to nonopioid analgesic unspecif place	1
U1A5z00	[X]Accid poison/expos to narcotic drug unspecif place	1
U1A9z00	[X]Accid poison/expos to alcohol unspecif place	1
U1AA000	[X]Accid poison/expos organ solvent,halogen hydrocarb, home	1
U1A3500	[X]Accid poison/expos antiparkinson drug trade/service area	1
U1A9500	[X]Accid poison/expos alcohol trade/service area	1
U1A9400	[X]Accid poison/expos alcohol in street/highway	1
U1Ay200	[X]Acc poison/expos unspecif chemical school/pub admin area	1
U1A4200	[X]Acc poison/expos psychotropic drug school/pub admin area	1
U1AA100	[X]Acc poison/expos org solvent,halogen hydrocarb,res instit	1
U1A9200	[X]Acc poison/expos alcohol school/pub admin area	1
U1ADz00	[X]Acc poison by and exposure to amphetamine - unspec places	1
Sy00	[X] Injury and poisoning classification terms	1

Read code	Description	Number of studies
U60F412	[X] Adverse reaction to acetylcysteine	1
ZV15600	[V]Personal history of poisoning	1
ZV4C400	[V]Occupational exposure to toxic agents in agriculture	1
ZV71A00	[V]Obs for suspected toxic effect from ingested substance	1
SLC7100	Zinc salt poisoning	1
SM01100	Wood alcohol causing toxic effect	1
SLEz.00	Water, mineral or uric acid metabolism poisoning NOS	1
SLE00	Water, mineral and urate metabolism poisoning	1
SL42300	Warfarin sodium poisoning	1
SL42400	Warfarin poisoning	1
SL35z00	Vitamin poisoning NOS	1
SL35.00	Vitamin poisoning NEC	1
SL35100	Vitamin D poisoning	1
SL35000	Vitamin A poisoning	1
SL44300	Urokinase poisoning	1
SLE7.00	Uric acid drug poisoning	1
SLE7.11	Urate metabolism drug poisoning	1
SM9z.00	Unspecified substance causing toxic effect NOS	1
SL50000	Unspecified opium poisoning	1
SL30400	Tripelennamine poisoning	1
SL60100	Trimethadione poisoning	1
SL92200	Trifluperidol poisoning	1
SM23100	Trichloroethylene causing toxic effect	1
SL90300	Trazodone poisoning	1
SL95z00	Tranquilliser poisoning NOS	1
SL911	Tranquilliser poisoning	1
TE57.00	Toxic reactions caused by other plants	1
F036200	Toxic encephalitis due to thallium	1
F036100	Toxic encephalitis due to mercury	1
F036000	Toxic encephalitis due to lead	1
SMC00	Toxic effect of tobacco and nicotine	1
SM57.00	Toxic effect of tin and its compounds	1
SM9A.00	Toxic effect of rodenticides	1
SMX00	Toxic effect of paints and dyes, NEC	1
SM9X.00	Toxic effect of nitroglycerin & oth nitric acids & ester	1
SM79.00	Toxic effect of hydrogen sulfide	1
SM15.00	Toxic effect of homologues of benzene	1
SM98.00	Toxic effect of herbicides and fungicides	1
SMB00	Toxic effect of formaldehyde	1
SM78.00	Toxic effect of fluorine gas and hydrogen fluoride	1
SM23200	Toxic effect of chloroform	1
SM7A.00	Toxic effect of carbon dioxide	1
SLG7.00	Topical dental drug poisoning	1
SL85.00	Topical and infiltration anaesthetic agent poisoning	1
SL16200	Tiabendazole poisoning	1
SL27.00	Thyroid hormone and thyroid derivatives poisoning	1
SL27z00	Thyroid hormone and thyroid derivative poisoning NOS	1
SL27300	Thyroglobulin poisoning	1
SL91400	Thioridazine poisoning	1
SLE1100	Theophylline poisoning	1
SL04000	Tetracycline poisoning	1
SL04z00	Tetracycline group poisoning NOS	1
SL04.00	Tetracycline group poisoning	1

SM23000   Tetracchioroethylene causing toxic effect	Read code	Description	Number of
SL85300         Tetracaine poisoning         1           SL21300         Testosterone poisoning         1           SLF5200         Terpin hydrate poisoning NOS         1           SL82.00         Sympathomimetic poisoning         1           SM31200         Sympathomimetic poisoning         1           SM73.00         Sulphuric acid causing toxic effect         1           SM73.00         Sulphure poisoning         1           SL14000         Sulphonamide poisoning         1           SL10000         Sulphonamide poisoning         1           SL10000         Suldadiazine poisoning         1           SL10000         Sulcidalizare poisoning         1           SL10000         Sulcidadiazine poisoning         1           SL0000         Sulfacation by strangulation         1           SLA7100         Sulcide intent score subscale - attempt circumstances         1           SNA7100         Sulcide intent score subscale - attempt circumstances         1           SL7710         Sulfacation by strangulation         1           SL06300         Streptowing poisoning         1           SL4200         Streptowing poisoning         1           SL06300         Streptowing poisoning         1 <td>SM23000</td> <td>Tetrachloroethylene causing toxic effect</td> <td>studies 1</td>	SM23000	Tetrachloroethylene causing toxic effect	studies 1
SL21300         Testosterone poisoning         1           SL75200         Terpin hydrate poisoning         1           SL32.00         Systemic agent poisoning NOS         1           SM31200         Suphruric acid causing toxic effect         1           SM31200         Sulphur dioxide causing toxic effect         1           SL1x400         Sulphone poisoning         1           SL1000         Sulphone poisoning         1           SL1000         Sulfadiazine poisoning         1           SL1000         Sulfadiazine poisoning         1           SL1000         Sulfadiazine poisoning         1           SL1000         Sulcide intent score subscale - attempt circumstances         1           SN47100         Sulcide intent score subscale - attempt circumstances         1           SN47100         Sulfocation by strangulation         1           SL6300         Streptomycin poisoning         1           SL44200         Streptomycin poisoning         1           SL97.11         Stimulant poisoning         1           SM22.0         Solvents causing toxic effect NOS         1           SL07000         Sodium mormhuate poisoning         1           SM96.10         Soap and detergent causing toxic effect			·
SLF5200         Terpin hydrate poisoning         1           SL3z.00         Systemic agent poisoning NOS         1           SLB2.00         Sympathomimetic poisoning         1           SM31200         Sulphuric acid causing toxic effect         1           SM73.00         Sulphur dioxide causing toxic effect         1           SL1x400         Sulphone poisoning         1           SL1000         Sulphone poisoning         1           SL10000         Sulfadiazine poisoning         1           SL10000         Sulfadiazine poisoning         1           SL10000         Sulfadiazine poisoning         1           SL73.00         Suicide intent score subscale - attempt circumstances         1           SN47100         Sulfocation by strangulation         1           SL06300         Streptokinase poisoning         1           SL44200         Streptokinase poisoning         1           SL97.11         Stimulant poisoning         1           SM22.00         Solvents causing toxic effect NOS         1           SL077000         Sodium mydroxide causing toxic effect         1           SM96101         Sodium dyridoxide causing toxic effect         1           SM96.12         Soap - toxic effect <td< td=""><td></td><td>, e</td><td>·</td></td<>		, e	·
SL32.00         Systemic agent poisoning NOS         1           SLB2.00         Sympathomimetic poisonining         1           SM373.00         Sulphur dioxide causing toxic effect         1           SM73.00         Sulphur dioxide causing toxic effect         1           SL174.00         Sulphonamide poisoning         1           SL10.00         Sulphonamide poisoning         1           SL10200         Sulfadiazine poisoning         1           SL10000         Sulfide poisoning         1           IBD4.00         Sulcide intent score subscale - attempt circumstances         1           ZR3.00         Sulfide intent score subscale - attempt circumstances         1           SN47100         Sulfocation by strangulation         1           SL06300         Streptomycin poisoning         1           SL44200         Streptokinase poisoning         1           SL270.11         Stimulant poisoning         1           SM22.00         Sodium mormhuate poisoning         1           SM32200         Sodium pointhuate poisoning         1           SM90100         Sodium cyanide causing toxic effect         1           SM96.12         Soap and detergent causing toxic effect         1           SM96.12         Soa		· •	
SLB2.00         Sympathomimetic poisoning         1           SM31200         Sulphuric acid causing toxic effect         1           SM73.00         Sulphuric dioxide causing toxic effect         1           SL1x400         Sulphone poisoning         1           SL10200         Sulfamethoxazole poisoning         1           SL10000         Sulfadiazine poisoning         1           BD4.00         Sulcida intent score subscale - attempt circumstances         1           ZR3.00         Suicide intent score subscale - attempt circumstances         1           SN47100         Sulfocation by strangulation         1           SL05300         Streptowin poisoning         1           SL44200         Streptokinase poisoning         1           SL97.11         Stimulant poisoning         1           SM22.00         Solvents causing toxic effect NOS         1           SL07700         Sodium mydroxide causing toxic effect         1           SM93200         Sodium mydroxide causing toxic effect         1           SM96.00         Soap and detergent causing toxic effect         1           SM96.10         Soap - toxic effect         1           SLF2.00         Sweletal muscle relaxant poisoning         1           SLF2.11<			·
SM31200         Sulphuric acid causing toxic effect         1           SM73.00         Sulphur dioxide causing toxic effect         1           SL1x400         Sulphonamide poisoning         1           SL10200         Sulfamethoxazole poisoning         1           SL10200         Sulfadiazine poisoning         1           SL10000         Sulfadiazine poisoning         1           SL04000         Sulcide risk         1           ZRn3.00         Sulcide intent score subscale - attempt circumstances         1           SN47100         Sulfocation by strangulation         1           SL06300         Streptomycin poisoning         1           SL44200         Streptomycin poisoning         1           SL4710         Streptokinase poisoning         1           SL47200         Streptokinase poisoning         1           SL4711         Stimulant poisoning         1           SL2700         Sodium morrhuate poisoning         1           SL27000         Sodium morrhuate poisoning         1           SM32200         Sodium hydroxide causing toxic effect         1           SM90100         Soap and detergent causing toxic effect         1           SM96.12         Soap - toxic effect         1 </td <td></td> <td></td> <td>·</td>			·
SM73.00         Sulphore dioxide causing toxic effect         1           SL1x400         Sulphone poisoning         1           SL10.00         Sulphone poisoning         1           SL10200         Sulfamethoxazole poisoning         1           SL10000         Sulfadiazine poisoning         1           BL0000         Sulfoide insk         1           SN47100         Sulfocation by strangulation         1           SL46300         Streptorycin poisoning         1           SL4711         Stimulant poisoning         1           SL97.11         Stimulant poisoning         1           SL97.11         Stimulant poisoning         1           SL97.11         Stimulant poisoning         1           SL97.11         Stimulant poisoning         1           SM32200         Solvents causing toxic effect NOS         1           SL077000         Sodium profruate poisoning         1           SM32200         Sodium profruate poisoning         1           SM96.00         Soda and detergent causing toxic effect         1           SM96.12         Soap - toxic effect         1           SM96.12         Soap - toxic effect         1           SL72.10         Seletation muscle r		· ·	
SL1x400         Sulphone poisoning         1           SL10.00         Sulphonamide poisoning         1           SL10200         Sulfadiazine poisoning         1           SL10200         Sulfadiazine poisoning         1           SL10200         Suicide risk         1           ZRn3.00         Suicide intent score subscale - attempt circumstances         1           SR47100         Suffocation by strangulation         1           SL06300         Streptomycin poisoning         1           SL44200         Streptokinase poisoning         1           SL97.11         Stimulant poisoning         1           SLC7000         Solvents causing toxic effect NOS         1           SLC7000         Sodium morrhuate poisoning         1           SM32200         Sodium cyanide causing toxic effect         1           SM90100         Sodium cyanide causing toxic effect         1           SM96.12         Soap and detergent causing toxic effect         1           SM96.12         Soap and detergent causing toxic effect         1           SLF-1.00         Seletill muscle relaxant poisoning         1           SLF-2.01         Seletill muscle relaxant poisoning         1           SL7-2.0         Self-injurious behavio		·	
SL10.00         Sulphonamide poisoning         1           SL10200         Sulfamethoxazoule poisoning         1           SL10000         Sulfadiazine poisoning         1           1BD4.00         Suicide risk         1           ZRn3.00         Suicide intent score subscale - attempt circumstances         1           SN47100         Suffocation by strangulation         1           SL6300         Streptomycin poisoning         1           SL4200         Streptokinase poisoning         1           SL27.11         Stimulant poisoning         1           SL272.00         Solvents causing toxic effect NOS         1           SLC7000         Sodium morrhuate poisoning         1           SLC7200         Sodium hydroxide causing toxic effect         1           SM99100         Sodium cyanide causing toxic effect         1           SM96.12         Soap - toxic effect         1           SM96.12         Soap - toxic effect         1           SL72.10         Swelstal muscle relaxant poisoning         1           SL72.10         Skeletal muscle relaxant poisoning         1           SL72.10         Self-harm         1           SL72.10         Sediverance         1		·	
SL10200         Sulfamethoxazole poisoning         1           SL10000         Sulfadiazine poisoning         1           IBD4.00         Suicide intent score subscale - attempt circumstances         1           SN47100         Suffocation by strangulation         1           SN47100         Suffocation by strangulation         1           SL06300         Streptomycin poisoning         1           SL44200         Streptokinase poisoning         1           SM22.01         Solvents causing toxic effect NOS         1           SLC7000         Sodium morrhuate poisoning         1           SM32200         Sodium hydroxide causing toxic effect         1           SM90100         Sodium cyanide causing toxic effect         1           SM96.01         Soap and detergent causing toxic effect         1           SM96.02         Soap and detergent causing toxic effect         1           SLF1.00         Smooth muscle relaxant poisoning         1           SLF2.01         Skeletal muscle relaxant poisoning         1           SLF2.02         Skeletal muscle relaxant poisoning         1           SLF2.00         Self-harm         1           SL7.12         Seledative poisoning         1           SL7.20         Se		· · · · · · · · · · · · · · · · · · ·	
SL10000         Sulfadiazine poisoning         1           1BD4.00         Suicide insk         1           2Rn3.00         Suicide intent score subscale - attempt circumstances         1           SN47100         Suffocation by strangulation         1           SL06300         Streptomycin poisoning         1           SL44200         Streptokinase poisoning         1           SL2711         Stimulant poisoning         1           SL2700         Sodium morrhuate poisoning         1           SL27000         Sodium morrhuate poisoning         1           SM9200         Sodium hydroxide causing toxic effect         1           SM99100         Sodium cyanide causing toxic effect         1           SM96.01         Soap - toxic effect         1           SM96.12         Soap - toxic effect         1           SLF2.10         Smooth muscle relaxant poisoning         1           SLF2.10         Skeletal muscle relaxant poisoning         1           SLF2.10         Self-harm         1			
1BD4.00         Suicide risk         1           ZR3.0         Suicide intent score subscale - attempt circumstances         1           SN47100         Suffocation by strangulation         1           SL06300         Streptomycin poisoning         1           SL44200         Streptokinase poisoning         1           SL97.11         Stimulant poisoning         1           SM2z.00         Solvents causing toxic effect NOS         1           SLC7000         Sodium morrhuate poisoning         1           SM32200         Sodium morrhuate poisoning         1           SM90100         Sodium cyanide causing toxic effect         1           SM96.00         Soap and detergent causing toxic effect         1           SM96.01         Soap and detergent causing toxic effect         1           SLF2.00         Smooth muscle relaxant poisoning         1           SLF2.01         Sleeping drug poisoning         1           SLF2.02         Skeletal muscle relaxant poisoning         1           SLF2.03         Skeletal muscle relaxant poisoning         1           SLF2.00         Skeletal muscle relaxant poisoning         1           SLF2.00         Sedative muscle relaxant poisoning         1           SLF.00         <			·
ZRn3.00         Suicide intent score subscale - attempt circumstances         1           SN47100         Suffocation by strangulation         1           SL06300         Streptokinase poisoning         1           SL44200         Streptokinase poisoning         1           SL97.11         Stimulant poisoning         1           SM2z.00         Solvents causing toxic effect NOS         1           SLC7000         Sodium morrhuate poisoning         1           SM32200         Sodium hydroxide causing toxic effect         1           SM90100         Sodium cyanide causing toxic effect         1           SM96.12         Soap - toxic effect         1           SM96.12         Soap - toxic effect         1           SM96.12         Soap - toxic effect         1           SLF1.00         Smooth muscle relaxant poisoning         1           SL72.11         Sleeping drug poisoning         1           SL72.00         Skeletal muscle relaxant poisoning         1           SL72.00         Self-Injurious behaviour         1           SL72.01         Sedative poisoning         1           SL72.02         Sedative poisoning         1           SL72.03         Sedative and hypnotic drug poisoning NOS <td< td=""><td></td><td></td><td></td></td<>			
SN47100         Suffocation by strangulation         1           SL06300         Streptomycin poisoning         1           SL44200         Streptokinase poisoning         1           SL97.11         Stimulant poisoning         1           SM22.00         Solvents causing toxic effect NOS         1           SLC7000         Sodium morrhuate poisoning         1           SM32200         Sodium hydroxide causing toxic effect         1           SM99100         Sodium cyanide causing toxic effect         1           SM96.00         Soap and detergent causing toxic effect         1           SM96.10         Soap and detergent causing toxic effect         1           SLF1.00         Smooth muscle relaxant poisoning         1           SLF2.00         Skeletal muscle relaxant poisoning         1           SLF2.00         Seletian muscle relaxant poisoning         1           SLF2.00         Self-harm         1           SL7.12         Sedative and self-damage         1           SL7.12         Sedative poisoning         1           SL7.20         Sedative and hypnotic drug poisoning NOS         1           SL7.10         Sedative and hypnotic drug poisoning         1           SL5100         Salicylate poison			·
SL06300         Streptomycin poisoning         1           SL44200         Streptokinase poisoning         1           SL97.11         Stimulant poisoning         1           SM2z.00         Solvents causing toxic effect NOS         1           SLC7000         Sodium morrhuate poisoning         1           SM32200         Sodium hydroxide causing toxic effect         1           SM90100         Sodium cyanide causing toxic effect         1           SM96.00         Soap and detergent causing toxic effect         1           SM96.12         Soap - toxic effect         1           SLF1.00         Smooth muscle relaxant poisoning         1           SLF2.11         Sleeping drug poisoning         1           SLF2.00         Skeletal muscle relaxant poisoning         1           SL72.10         Self-Injurious behaviour         1           ZX01         Self-Infurious behaviour         1           SL7.12         Sedative poisoning         1           SL7.20         Sedative and hypnotic drug poisoning NOS         1           SL7.00         Sedative and hypnotic drug poisoning         1           SL5100         Salicylate poisoning NOS         1           SL5100         Salicylate poisoning NOS		·	
SL44200         Streptokinase poisoning         1           SL97.11         Stimulant poisoning         1           SM2z.00         Solvents causing toxic effect NOS         1           SLC7000         Sodium morrhuate poisoning         1           SM32200         Sodium mydroxide causing toxic effect         1           SM90100         Sodium cyanide causing toxic effect         1           SM96.01         Soap and detergent causing toxic effect         1           SM96.12         Soap - toxic effect         1           SLF2.10         Smooth muscle relaxant poisoning         1           SL7z.11         Sleeping drug poisoning         1           SL7z.11         Sleeping drug poisoning         1           ZX100         Self-injurious behaviour         1           ZX10         Self-damage         1           SL7z.01         Self-damage         1           SL702         Sedative poisoning         1           SL7.03         Sedative and hypnotic drug poisoning NOS         1           SL7.04         Sedative and hypnotic drug poisoning NOS         1           SL51.00         Salicylate poisoning NOS         1           SL51.00         Salicylate poisoning NOS         1 <t< td=""><td></td><td></td><td></td></t<>			
SL97.11         Stimulant poisoning         1           SM2z.00         Solvents causing toxic effect NOS         1           SLC7000         Sodium morrhuate poisoning         1           SM32200         Sodium hydroxide causing toxic effect         1           SM90100         Sodium cyanide causing toxic effect         1           SM96.00         Soap and detergent causing toxic effect         1           SM96.12         Soap - toxic effect         1           SLF1.00         Smooth muscle relaxant poisoning         1           SLF2.01         Skeletal muscle relaxant poisoning         1           SLF2.00         Skeletal muscle relaxant poisoning         1           ZX100         Self-injurious behaviour         1           ZX110         Self-damage         1           SL72.12         Sedative poisoning         1           SL72.00         Sedative and hypnotic drug poisoning NOS         1           SL72.00         Sedative and hypnotic drug poisoning         1           SL75.100         Salicylate poisoning         1           SL51200         Salicylate poisoning NOS         1           SL51200         Salicylate poisoning NOS         1           SL51.00         Salicylate poisoning NOS		· · · · · · · · · · · · · · · · · · ·	
SM2z.00         Solvents causing toxic effect NOS         1           SLC7000         Sodium morrhuate poisoning         1           SM32200         Sodium hydroxide causing toxic effect         1           SM90100         Sodium cyanide causing toxic effect         1           SM96.00         Soap and detergent causing toxic effect         1           SM96.12         Soap - toxic effect         1           SLF1.00         Smooth muscle relaxant poisoning         1           SLF2.11         Sleeping drug poisoning         1           SLF2.00         Skeletal muscle relaxant poisoning         1           SLF2.00         Skeletal muscle relaxant poisoning         1           ZX100         Self-injurious behaviour         1           ZX01         Self-harm         1           ZX02         Sedative poisoning         1           SL712         Sedative poisoning         1           SL700         Sedative poisoning         1           SL7.00         Sedative and hypnotic drug poisoning NOS         1           SL7.00         Sedative and hypnotic drug poisoning NOS         1           SL7.10         Salicylate poisoning         1           SL5100         Salicylate poisoning NOS         1 </td <td></td> <td></td> <td></td>			
SLC7000         Sodium morrhuate poisoning         1           SM32200         Sodium hydroxide causing toxic effect         1           SM90100         Sodium cyanide causing toxic effect         1           SM96.00         Soap and detergent causing toxic effect         1           SM96.12         Soap - toxic effect         1           SLF1.00         Smooth muscle relaxant poisoning         1           SL7z.11         Sleeping drug poisoning         1           SLF2.00         Skeletal muscle relaxant poisoning         1           ZX1.00         Self-injurious behaviour         1           ZX11         Self-damage         1           SL7.12         Sedative poisoning         1           SL7.12         Sedative poisoning         1           SL7.00         Sedative and hypnotic drug poisoning NOS         1           SL7.00         Sedative and hypnotic drug poisoning         1           SL5100         Salicylic acid salt poisoning         1           SL51100         Salicylic acid salt poisoning         1           SL51200         Salicylate poisoning NOS         1           SL57100         Salicylate poisoning         1           SL57100         Salicylate poisoning         1 <td></td> <td></td> <td></td>			
SM32200         Sodium hydroxide causing toxic effect         1           SM90100         Sodium cyanide causing toxic effect         1           SM96.00         Soap and detergent causing toxic effect         1           SM96.12         Soap - toxic effect         1           SLF1.00         Smooth muscle relaxant poisoning         1           SLF2.01         Skeletal muscle relaxant poisoning         1           SLF2.00         Skeletal muscle relaxant poisoning         1           ZX100         Self-injurious behaviour         1           ZX00         Self-harm         1           ZX11         Self-damage         1           SL712         Sedative poisoning         1           SL7.20         Sedative and hypnotic drug poisoning NOS         1           SL7.00         Sedative and hypnotic drug poisoning NOS         1           SL7.00         Sedative and hypnotic drug poisoning NOS         1           SL7.00         Secobarbital poisoning NOS         1           SL51.00         Salicylate poisoning NOS         1           SL51.00         Salicylate poisoning NOS         1           SLF.710         Salbutamol poisoning         1           SLF.12         Respiratory system drug poisoning			
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SLC0200 Propranolol poisoning 1			1
	SLC0200	Propranolol poisoning	1

Read code	Description	Number of
	·	studies
SM70100	Propane causing toxic effect	1
SL91300 SL14300	Promazine poisoning	1
SL14300 SL22300	Proguanil poisoning	1
	Progestogen poisoning	1
SL91200	Prochlorperazine poisoning	1
SLC0100	Procainamide poisoning	1
SL6x000	Primidone poisoning	1
8G61.00	Potential suicide care	1
SM32100	Potassium hydroxide causing toxic effect	1
SM90000	Potassium cyanide causing toxic effect	1
SL25.00	Posterior pituitary hormone poisoning	1
SL94600	Poisoning by temazepam	1
SLD3100	Poisoning by saline and osmotic laxatives	1
SL300	Poisoning by oth % years a antinovalentian % neuralentian	1
SLX00	Poisoning by oth & unspec antipsychotics & neuroleptics	1
SL29.00	Poisoning by mineralocorticoids and their antagonists	1
SLD0200	Poisoning by histamine H2-receptor antagonists	1
SL20300	Poisoning by glucocorticoids and synthetic analogues	1
SL16	Poisoning by drug and biological substances	1
SL6x100	Poisoning by carbamazepine	1
SLC9.00	Poisoning by calcium-channel blockers	1
SLC6400	Poisoning by angiotensin-converting-enzyme inhibitors	1
SL00	Poisoning Planta toxic officet	1
SM82.12	Plants - toxic effect	1
1BDB.00	Plans for deliberate self harm without intent	1
SL16100	Piperazine poisoning	1
SLB0200	Pilocarpine poisoning	1
SM7y000	Phosgene causing toxic effect	1
SM93500	Phosdrin causing toxic effect	1
SL61000 SL53100	Phenytoin poisoning	
SL53100 SLB3000	Phenovyhonzamina poisoning	1
SL91z00	Phenoxybenzamine poisoning	1
SL91.00	Phenothiazine poisoning NOS Phenothiazine poisoning	1
SL91.00 SLD1200	Phenolphthalein poisoning	1
SM30000	Phenol causing toxic effect	1
SL70400	Phenobarbital poisoning	1
SL42200	Phenindione poisoning	1
SL52200	Phenacetin poisoning	1
SL32200 SLH4.00	Pharmaceutical excipient poisoning	1
SM1z.00	Petroleum product causing toxic effect NOS	1
SM100	Petroleum product causing toxic effect	1
SM14.00	Petroleum ether causing toxic effect	1
SM10.00	Petrol unspecified causing toxic effect	1
SL86.00	Peripheral nerve and plexus-blocking anaesthetic poisoning	1
SL70300	Pentobarbitone poisoning	1
SL34000	Penicillinase poisoning	1
SL00z00	Penicillin poisoning NOS	1
SL00200 SL00.00	Penicillin poisoning Penicillin poisoning	1
SL00.00 SL00300	Penicillin G poisoning  Penicillin G poisoning	1
E022.00	Pathological drug intoxication	1
E022.00 E014.00	Pathological alcohol intoxication	1
SM93300	Parathion causing toxic effect	1
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SLB0.00 Parasympathomimetic poisoning 1 SL60000 Paramethadione poisoning 1 SL60000 Paramethadione poisoning 1 SL60000 Paramethadione poisoning 1 SL52100 Paracetamol poisoning 1 SL52100 Para-aminosalicylic acid poisoning 1 SL52100 Para-aminosalicylic acid poisoning 1 SLC6200 Papaverine poisoning 1 SLC6200 Papaverine poisoning 1 SLD4000 Papaverine poisoning 1 SLD4000 Paparin poisoning 1 SLD4000 Oxymetholone poisoning 1 SL21200 Oxymetholone poisoning 1 SL22200 Ovarian hormone poisoning NOS 1 SL22200 Ovarian hormone and synthetic substitute poisoning 1 SL55.00 Other tranquilliser poisoning 1 SL55.00 Other tranquilliser poisoning 1 SL59.00 Other substance causing toxic effect 1 SL09.00 Other substance causing toxic effect NOS 1 SM2,00 Other solvents causing toxic effect NOS 1 SM2,00 Other solvents causing toxic effect NOS 1 SM2,00 Other solvents causing toxic effect SLC6.00 Other skin and mucous membrane drug poisoning 1 SL77,00 Other skin and mucous membrane drug poisoning 1 SL79,00 Other skin and mucous membrane drug poisoning 1 SL79,00 Other skin and mucous membrane drug poisoning 1 SL79,00 Other skin and mucous membrane drug poisoning 1 SL79,00 Other skin and mucous membrane drug poisoning 1 SL79,00 Other skin and mucous membrane drug poisoning 1 SL79,00 Other skin and mucous membrane drug poisoning 1 SL89,00 Other skin and mucous membrane drug poisoning 1 SL89,00 Other skin and mucous membrane drug poisoning 1 SL89,00 Other respiratory system drug poisoning 1 SL99,00 Other respiratory system drug poisoning 1 SL99,00 Other respiratory system drug poisoning 1 SL99,00 Other sexitory and stance sausing toxic effect NEC 1 SM89,00 Other metals causing toxic effect NEC 1 SM9,00 Other metals caus	Read code	Description	Number of
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SL1y.uu Other anti-intective poisoning 1		·	
	SL19.00	Other anti-infective poisoning	1

Read code	Description	Number of
SLH00	Other and unspecified drug and medicament poisoning	studies 1
SL5yz00	Other analgesic or antipyretic poisoning NOS	1
SL5y.00	Other analgesic and antipyretic poisoning	1
SM0y.00	Other alcohol causing toxic effect	1
SM93z00	Organophosphate and carbamate causing toxic effect NOS	1
SM93.00	Organophosphate and carbamate causing toxic effect	1
SLF1100	Orciprenaline poisoning	1
SL22000	Oral contraceptive poisoning	1
SL50.12	Opiate poisoning	1
SL50z00	Opiate or narcotic poisoning NOS	1
SLA1z00	Opiate antagonist poisoning NOS	1
SLA1.00	Opiate antagonist poisoning	1
SL50.00	Opiate and narcotic poisoning	1
SL03100	Oleandomycin poisoning	1
SL22100	Oestrogen poisoning	1
SL01200	Nystatin poisoning	1
SM8z.00	Noxious substance eaten as food causing toxic effect NOS	1
SM800	Noxious substance eaten as food causing toxic effect	1
SLB2100	Noradrenalin poisoning	1
SM00	Nonmedicinal agent causing toxic effects	1
SL5xz00	Non-narcotic analgesic poisoning NOS	1
SMz00	Non-medicinal agent causing toxic effect NOS	1
SL82100	Nitrous oxide poisoning	1
SM72.00	Nitrogen oxides causing toxic effect	1
SM72000	Nitrogen dioxide causing toxic effect	1
SL1y100	Nitrofuran derivative poisoning	1
SM31100	Nitric acid causing toxic effect	1
SL94500	Nitrazepam poisoning	1
SLC4100	Nitrate poisoning	1
SM5y300	Nickel compounds causing toxic effect	1
SL50.11	Narcotic poisoning	1
SL54300	Naproxen poisoning	1
SL21100	Nandrolone poisoning	1
SM81.00	Mushrooms causing toxic effect	1
SLF11	Muscle drug poisoning	1
SL50500	Morphine poisoning	1
1BD2.00	Morbid thoughts	1
SL90200	Monoamine oxidase inhibitor poisoning	1
1BD6.00	Moderate suicide risk	1
SL76.00	Mixed sedative poisoning NEC	1
SL07400	Mitomycin poisoning	1
SL04200	Minocycline poisoning	1
SM01.00	Methyl alcohol causing toxic effect	1
SL80100	Methocarbamol poisoning	1
SL74.00	Methaqualone compound poisoning	1
SM01000	Methanol causing toxic effect	1
SL50200	Methadone poisoning	1
SM5z.00	Metals causing toxic effect NOS	1
SL12300	Mercury compound poisoning	1
SM50.00	Mercury causing toxic effect	1
SL31600	Mercaptopurine poisoning	1
SL95100	Meprobamate poisoning	1
SL50400	Meperidine (pethidine) poisoning	1

		Number of
Read code	Description	studies
SL54400	Mefenamic acid poisoning	1
SL13	Medicinal poisoning	1
SL94400	Medazepam poisoning	1
SL96200	Marihuana poisoning	1
SM93200	Malathion causing toxic effect	1
SLD0100	Magnesium trisilicate poisoning	1
SLD3000	Magnesium sulphate poisoning	1
T180.00	MVTA - accid poisoning - exhaust gas of moving motor vehicle	1
SL90211	MAOI - monoamine oxidase inhibitor poisoning	1
SL96100	Lysergide (LSD) poisoning	1
1BD7.00	Low suicide risk	1
SL94300 SLG2.12	Local detergent poisoning	1 1
SLG2.12 SLG2.11	Local detergent poisoning  Local astringent poisoning	1
SLG2.11 SLG2.00	Local astringent and detergent poisoning	1
SLG2.00 SLG0.00	Local anti-infective and anti-inflammatory poisoning	1
SL8z.00	Local anaesthetic poisoning NOS	1
SLA0000	Lobeline poisoning	1
44W8100	Lithium level high - toxic	1
SM70.00	Liquefied petrol gas causing toxic effect	1
SL85100	Lidocaine poisoning	1
SL27100	Levothyroxine sodium poisoning	1
SL6y200	Levodopa (L-dopa) poisoning	1
SL12200	Lead compound poisoning	1
SM4z.00	Lead compound causing toxic effect NOS	1
SM400	Lead and lead compounds causing toxic effect	1
SM41000	Lead acetate causing toxic effect	1
TH02.00	Late effects of accidental poisoning	1
SC00	Late effects injury/poisoning/toxic effects/external causes	1
SC41.00	Late effect of poison due to nonmedical substance	1
SC40.00	Late effect of poison drug/medicament/biological substance	1
SC41.11	Late effect of poison	1
SCz00	Late effect injury/poison/toxin effect/external cause NOS	1
SL83000 SM12.00	Ketamine poisoning Kerasana sausing toxic effect	1
SIM12.00 SLG4.12	Kerosene causing toxic effect Keratoplastic poisoning Isoniazid poisoning	1 1
SL04.12 SL1x200	Isoniazid poisoning	1
SLD1.00	Irritant cathartic poisoning	1
SM5y200	Iron compounds causing toxic effect	1
SL40z00	Iron and iron compound poisoning NOS	1
SL40.00	Iron and iron compound poisoning	1
SL28000	lodide poisoning	1
SP35000	Intoxication by serum	1
E250.14	Intoxication - alcohol	1
1BDC.00	Intent of deliberate self harm with detailed plans	1
SL23.00	Insulins and antidiabetic poisoning	1
SL23400	Insulin poisoning	1
TN00	Injury undetermined whether accidentally/purposely inflicted	1
TNz00	Injury undetermined accidental or purposely inflicted NOS	1
TM21.00	Injury due to legal intervention by poisoning by gas	1
Sz00	Injury and poisoning NOS	1
S00	Injury and poisoning	1
TN3y.00	Injury ?accidental, other means of hang/strangle/suffocate	1

		Number of
Read code	Description	studies
TN900	Injury ?accidental, late effects	1
TN3z.00	Injury ?accidental, hanging/strangulation/suffocation NOS	1
TN70.00	Injury ?accidental, fall from residential premises	1
TN71.00	Injury ?accidental, fall from other man-made structure	1
TN72.00	Injury ?accidental, fall from natural site	1
TN7z.00	Injury ?accidental, fall from high place NOS	1
TN700	Injury ?accidental, fall from high place	1
TN400	Injury ?accidental, drowning	1
TN61.00	Injury ?accidental, by stabbing instrument	1
TN51.00	Injury ?accidental, by shotgun	1
TN82.00	Injury ?accidental, by scald	1
TN8y.00	Injury ?accidental, by other specified means	1
TN800	Injury ?accidental, by other means	1
TN54.00	Injury ?accidental, by other firearm	1
TN8z.00	Injury ?accidental, by means NOS	1
TN80100	Injury ?accidental, by lying before moving object	1
TN80.00	Injury ?accidental, by jumping or lying before moving object	1
TN80000	Injury ?accidental, by jumping before moving object	1
TN52.00 TN50.00	Injury ?accidental, by hunting rifle	1
TN50.00 TN500	Injury ?accidental, by handgun Injury ?accidental, by firearms and explosives	1 1
TN500 TN5z.00		1
TN83.00	Injury ?accidental, by firearm or explosive NOS Injury ?accidental, by extremes of cold	1
TN55.00	Injury ?accidental, by extremes or cold Injury ?accidental, by explosive	1
TN84.00	Injury ?accidental, by electrocution	1
TN6z.00	Injury ?accidental, by cutting or stabbing instrument NOS	1
TN60.00	Injury ?accidental, by cutting instrument	1
TN600	Injury ?accidental, by cutting instrument Injury ?accidental, by cutting and stabbing instruments	1
TN85.00	Injury ?accidental, by crashing of motor vehicle	1
TN86.00	Injury ?accidental, by crashing of aircraft	1
TN87.00	Injury ?accidental, by caustic substances, except poisoning	1
TN81.00	Injury ?accidental, by burns or fire	1
SL54100	Indometacin poisoning	1
SL31.12	Immunosuppressive poisoning	1
SL90100	Imipramine poisoning	1
SL54200	Ibuprofen poisoning	1
SL711	Hypnotic poisoning	1
SLC6z00	Hypertensive agent poisoning NOS	1
SLB1200	Hyoscine poisoning	1
SL95000	Hydroxyzine poisoning	1
SL13.11	Hydroxyquinoline poisoning	1
SM31000	Hydrochloric acid causing toxic effect	1
SL61.00	Hydantoin derivative poisoning	1
SL47100	Human fibrinogen poisoning	1
SL2z.00	Hormone or synthetic substitute poisoning NOS	1
SL200	Hormone and synthetic substitute poisoning	1
1BD5.00	High suicide risk	1
SL50100	Heroin poisoning	1
SL42100	Heparin poisoning	1
SL12z00	Heavy metal anti-infective poisoning NOS	1
SL12.00	Heavy metal anti-infective poisoning	1
SL3y000	Heavy metal agonist poisoning	1
1BD00	Harmful thoughts	1

Read code	Description	Number of studies
SL81.00	Halothane poisoning	1
SL92000	Haloperidol poisoning	1
SL96z00	Hallucinogen poisoning NOS	1
SL96.00	Hallucinogen poisoning	1
SLG4.00	Hair treatment poisoning	1
14K0.00	H/O: repeated overdose	1
14K00	H/O: poisoning	1
SL24211	Growth hormone poisoning	1
SL01100	Griseofulvin poisoning	1
SL24100	Gonadotrophin poisoning	1
SL54000	Gold salt poisoning	1
SLDz.00	Gastrointestinal agent poisoning NOS	1
SLD00	Gastrointestinal agent poisoning	1
SM7z.00	Gases, fumes or vapours causing toxic effect NOS	1
SLC3z00	Ganglion-blocker poisoning NOS	1
SLC3.00	Ganglion-blocker poisoning	1
SM03z00	Fusel oil causing toxic effect NOS	1
SLE4100	Furosemide poisoning	1
SM74.00	Freon causing toxic effect	1
SL41000	Folic acid poisoning	1
SL94200	Flurazepam poisoning	1
SL91100	Fluphenazine poisoning	1
SL31500	Fluorouracil poisoning	1
SL1y000	Flucytosine poisoning	1
SL40100	Ferrous sulphate poisoning	1
SL40000	Ferric salt poisoning	1
SLG00	Eye, otorhinolaryngological, skin and dental drug poisoning	1
SLG5z00	Eye drug poisoning NOS	1
SLG5.00	Eye drug poisoning NEC	1
SLG12	Eye drug poisoning	1
SLF5.00	Expectorant poisoning	1
SM00z00	Ethyl alcohol causing toxic effect NOS	1
SM00.00	Ethyl alcohol causing toxic effect	1
SL6y100	Ethopropazine poisoning	1
SL82000	Ether poisoning	1
SM00000	Ethanol causing toxic effect	1
SL1x000	Ethambutol poisoning	1
SLE4000	Ethacrynic acid poisoning	1
SL03000	Erythromycin poisoning	1
SL03.00	Erythromycin and macrolide poisoning	1
SLF0000	Ergot alkaloid poisoning	1
E230200	Episodic acute alcoholic intoxication in alcoholism	1
SL34.00	Enzyme poisoning NEC	1
SLG3.00	Emollients, demulcents and protectant poisoning	1
SLD2.00	Emollient cathartic poisoning	1
SLD6.00	Emetic drug poisoning	1
SLE5.00 SL97200	Electrolyte agent poisoning Ecstasy poisoning	1
SL97200 SLG6.00	Ear, nose and throat drug poisoning NEC	1
SLG0.00 SLz00	Drug, medicament or biological substance poisoning NOS	1
SL200 SL12	Drug poisoning	1
SL12 SL04100	Doxycycline poisoning	1
SL04100 SLE11	Diuretic poisoning	1
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Read code	Description	Number of studies
SLC4000	Dipyridamole poisoning	1
SL30100	Diphenhydramine poisoning	1
SLD2000	Dioctyl sulphosuccinate poisoning	1
SM02000	Dimethyl carbinol causing toxic effect	1
SL50700	Dihydrocodeine poisoning	1
SLC1000	Digoxin poisoning	1
SLD4.00	Digestant poisoning	1
SL94100	Diazepam poisoning	1
SLHy100	Diagnostic agent NEC, poisoning	1
SL50600	Dextropropoxyphene poisoning	1
SLF4000	Dextromethorphan poisoning	1
SM96.11	Detergent toxic effect	1
SM00100	Denatured alcohol causing toxic effect	1
ZX113	Deliberate self-harm	1
SL07300	Daunorubicin poisoning	1
SL07100	Dactinomycin poisoning	1
SM92200	DDT causing toxic effect	1
SL31400	Cytarabine poisoning	1
SL31300	Cyclophosphamide poisoning	1
SLC5000	Cyclandelate poisoning	1
SM90z00	Cyanides causing toxic effect NOS	1
SM90.00	Cyanides and hydrocyanic acid causing toxic effect	1
ZX13100	Cutting own wrists	1
SL42000	Coumarin poisoning	1
SL20000	Cortisone derivative poisoning	1
SL24000	Corticotropin poisoning	1
SM300	Corrosives/acids/caustic alkalis causing toxic effect	1
SM3z.00	Corrosive/acid/caustic alkali causing toxic effect NOS	1
SM30z00	Corrosive aromatics causing toxic effect NOS	1
SLC4.00	Coronary vasodilator poisoning	1
SM5y100	Copper salts causing toxic effect	1
E230100	Continuous acute alcoholic intoxication in alcoholism	1
SL22200	Combined oestrogen and progesterone poisoning	1
SLE7100	Colchicine poisoning	1
SL50300	Codeine (methylmorphine) poisoning	1
SL85000	Cocaine poisoning	1
SLC6000	Clonidine poisoning	1
SM56.00	Chromium causing toxic effect	1
SLB0z00	Cholinergic poisoning NOS	1
SLB0.11	Cholinergic poisoning	1
SL91000	Chlorpromazine poisoning	1
SL30000	Chlorphenamine poisoning	1
SL14000	Chloroquine poisoning	1
SM75100	Chloroacetophenone causing toxic effect	1
SM76.00	Chlorine gas causing toxic effect	1
SM92.00	Chlorinated hydrocarbon causing toxic effect	1
SL94000	Chlordiazepoxide poisoning	1
SL02000	Chloramphenicol poisoning	1
SL31200	Chlorambucil poisoning	1
SL71.00	Chloral hydrate poisoning	1
SL13000	Chiniofon poisoning	1
SLH2.11	Chelating agent poisoning	1
SLAz.00	Central nervous system stimulant poisoning NOS	1

SLA.,00 Central nervous system stimulant poisoning SLB.020 Central nervous system muscle-tone depressant poisoning NOS SLB.00 Central nervous system muscle-tone depressant poisoning SLB.00 Central nervous system muscle-tone depressant poisoning SLB.000 Central nervous system muscle-tone depressant poisoning SLB.000 Central appetite depressant poisoning SLB.000 Central appetite depressant poisoning SLB.000 Central appetite depressant poisoning SLB.000 Cetalexin poisoning SM32200 Caustic alkalis causing toxic effect NOS SM32.00 Caustic alkalis causing toxic effect SM32.00 Caustes alkalis causing toxic effect SM32.00 Caustes of injury and poisoning NOS SM32.00 Caustes of injury and poisoning NOS SM32.00 Caustes of injury and poisoning NOS SLC.00 Cardiovascular drup poisoning SLC.200 Cardiovascular drup poisoning SLC.200 Cardiovascular agent poisoning NOS SLC.200 Cardiovascular agent poisoning SLC.200 Cardiovascular poisoning SLC.200 Cardiovascular poisoning SLC.200 Cardiovascular poisoning SLC.200 Subabaro poisoning SLC.200 Service and other plants causing toxic effect SM2.200 Services and other plants	Read code	Description	Number of
SL80.00   Central nervous system muscle-tone depressant poisoning   1		·	4
SL8.00   Central nervous system muscle-tone depressant poisoning   1			_
SLB. 00   Central nervous system depressants and anaesthetic poisoning   1			_
SLH0000			_
SL05000   Cefalexin poisoning		· · · · · · · · · · · · · · · · · · ·	_
SM32200         Caustic alkalis causing toxic effect         1           SM32.00         Caustic alkalis causing toxic effect         1           T00         Causes of injury and poisoning NOS         1           T00         Causes of injury and poisoning         1           B11         Cause of overdose - accidental         1           SLC.0.0         Cardiovascular agent poisoning NOS         1           SLC.0.0         Cardiovascular agent poisoning NOS         1           SLC.0.0         Cardiac rivhtm drup poisoning         1           SLC.0.0         Cardiac glycoside poisoning         1           SLC.0.0         Cardiac glycoside poisoning         1           SLC.0.0         Cardiac glycoside poisoning         1           SM2.0         Carbon tetrachloride causing toxic effect         1           SM6.00         Carbon tetrachloride causing toxic effect         1           SM83000         Carbon tetrachloride causing toxic effect         1           SL88000         Carbanyl causing toxic effect         1           SL99000         Carbanyl causing toxic effect         1           SL97100         Caffeine poisoning         1           SL97200         Butabarbitone poisoning         1           SL		,, , , , , , , , , , , , , , , , , , , ,	
SM32.00         Causte alkalis causing toxic effect           Tz00         Causes of injury and poisoning NOS         1           T01         Causes of injury and poisoning         1           SLC.00         Cardiovascular drug poisoning         1           SLC.00         Cardiovascular agent poisoning NOS         1           SLC.00         Cardiac rhythm drug poisoning         1           SLC.10.0         Cardiac glycoside poisoning         1           SM21.00         Cardon tetrachloride causing toxic effect         1           SM8.00         Carbon monoxide causing toxic effect         1           SM93000         Carbamate poisoning         1           SL80000         Carbamate poisoning         1           SL96000         Caramiphen poisoning         1           SL97010         Caffeine poisoning         1           SL97000         Butane causing toxic effect         1           SL70200         Butabarbitone poisoning         1           SL-23100         Bicomycin poisoning         1			
Tz00         Causes of injury and poisoning NOS         1           T00         Causes of injury and poisoning         1           Rs11         Cause of overdose - accidental         1           SLC.00         Cardiovascular drug poisoning NOS         1           SLC2.00         Cardiovascular agent poisoning NOS         1           SLC0.00         Cardiox et whthm drug poisoning         1           SLC1.00         Cardiac glycoside poisoning         1           SLC1.00         Cardiox et whthm drug poisoning         1           SM21.00         Carbon tetrachloride causing toxic effect         1           SM6.00         Carbon tetrachloride causing toxic effect         1           SM93000         Carbon tetrachloride causing toxic effect         1           SL80000         Carbanyl causing toxic effect         1           SLB1400         Caramabis poisoning         1           SL97100         Caffeine poisoning         1           SL97100         Caffeine poisoning         1           SL70200         Butabarbitone poisoning         1           SL70200         Busulfan poisoning         1           SL11         Biological substance poisoning         1           SL-23100         Berglium cau			
T00         Causes of injury and poisoning         1           T811         Cause of overdose - accidental         1           SLC. 00         Cardiovascular drug poisoning         1           SLC.0.00         Cardiac rhythm drug poisoning         1           SLC.0.00         Cardiac rhythm drug poisoning         1           SLC.1.00         Cardiac rhythm drug poisoning         1           SM21.00         Carbon tetrachloride causing toxic effect         1           SM8.00         Carbon monoxide causing toxic effect         1           SM93000         Carbon tetrachloride causing toxic effect         1           SLB1400         Carbamate poisoning         1           SLB1400         Caramate poisoning         1           SLB9000         Caramate poisoning         1           SL97100         Caffeine poisoning         1           SM55.00         Cadmium causing toxic effect         1           SM70000         Butane causing toxic effect         1           SL31100         Busulfan poisoning         1           SL-31100         Busulfan poisoning         1           SL-3100         Bleomycin poisoning         1           SL-23100         Bleomycin poisoning         1 <t< td=""><td></td><td><u> </u></td><td></td></t<>		<u> </u>	
T811         Cause of overdose - accidental         1           SLC2.00         Cardiovascular drug poisoning NOS         1           SLC2.00         Cardiovascular agent poisoning NOS         1           SLC0.00         Cardiac rhythm drug poisoning         1           SLC1.00         Cardiac glycoside poisoning         1           SM21.00         Cardon tetrachloride causing toxic effect         1           SM6.00         Carbon monoxide causing toxic effect         1           SL80000         Carbaryl causing toxic effect         1           SL80000         Carbaryle causing toxic effect         1           SL81400         Caramiphen poisoning         1           SL97000         Caffeine poisoning         1           SL97100         Caffeine poisoning         1           SL70200         Butabarbitione poisoning         1           SL70200         Butabarbitione poisoning         1           SL11         Biological substance poisoning         1           SL12         Biological substance poisoni		· · · · ·	
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SLC1.00         Cardiac glycoside poisoning         1           SM21.00         Carbon tetrachloride causing toxic effect         1           SM6.00         Carbon monoxide causing toxic effect         1           SM93000         Carbaryl causing toxic effect         1           SL80000         Carbaryl causing toxic effect         1           SLB1400         Caramiphen poisoning         1           SL96000         Cannabis poisoning         1           SL97100         Caffeine poisoning         1           SM75000         Cadmium causing toxic effect         1           SM70000         Butane causing toxic effect         1           SL70200         Butabarbitone poisoning         1           SL31100         Busulfan poisoning         1           SL07200         Bleomycin poisoning         1           SL11         Biological substance poisoning         1           SL.23100         Biguanide poisoning         1           SLC0400         Beta blocker poisoning         1           SM53.00         Beryllium causing toxic effect         1           SM82.01         Berries and other plants causing toxic effect         1           SLE3000         Benzodiazepine poisoning         1		· · · · · · · · · · · · · · · · · · ·	
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SL23100         Biguanide poisoning         1           SLC0400         Beta blocker poisoning         1           SM53.00         Beryllium causing toxic effect         1           SM82.00         Berries and other plants causing toxic effect         1           SM82.11         Berries - toxic effect         1           SLE3000         Benzothiazide poisoning         1           SLE3000         Benzodiazepine poisoning NOS         1           SL94.00         Benzodiazepine poisoning NOS         1           SL94.00         Benzene causing toxic effect         1           SL70200         Barbiturate poisoning NOS         1           SL70.00         Barbiturate poisoning         1           SL70.00         Barbiturate poisoning         1           SL31000         Azathioprine poisoning         1           SLB.00         Autonomic nervous system drug poisoning         1           SLB.00         Autonomic nervous system drug poisoning         1           SLB.00         At risk of DSH - deliberate self harm         1           TL22.00         Assault by poisoning by drugs or medicines         1           TL22.00         Assault by poisoning NOS         1           TL22.00         Assault by poisoning			
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SL52z00 Aromatic analgesic poisoning NOS 1	SL11.00	Arsenical anti-infective poisoning	1
e , e	SM51.00	Arsenic causing toxic effect	1
SL52.00 Aromatic analgesic poisoning NEC 1	SL52z00	Aromatic analgesic poisoning NOS	1
	SL52.00	Aromatic analgesic poisoning NEC	1

Dood oodo	Description	Number of
Read code	Description	studies
SLF4z00	Antitussive poisoning NOS	1
SL28.00	Antithyroid agent poisoning	1
SL54z00	Antirheumatic poisoning NOS	1
SL54.00	Antirheumatic poisoning	1
SL5y200	Antipyretic poisoning, NEC	1
SL512	Antipyretic poisoning	1
SL6y.00	Antiparkinsonism drug poisoning	1
SL6yz00	Antiparkinsonian drug poisoning NOS	1
SL31z00	Antineoplastic or immunosuppressive poisoning NOS	1
SL07.00	Antineoplastic antibiotic poisoning	1
SL31.00	Antineoplastic and immunosuppressive poisoning	1
SL14z00	Antimalarial drug poisoning NOS	1
SL14.00	Antimalarial drug poisoning	1 1
SLC2.00	Antilipaemic and antiarteriosclerotic poisoning	-
SL30.13	Antihistamine poisoning	1
SL01.00	Antifungal antibiotic poisoning	1
SL30.12	Antiemetic poisoning Antidiarrhoeal poisoning NOS	1 1
SLD5z00 SLD5.00		-
SL6xz00	Antidiarrhoeal poisoning	1
SL6x200 SL611	Anticonvulsant poisoning NOS	1
SL6z.00	Anticonvulsant poisoning  Anticonvulsant or antiparkinsonian drug poisoning NOS	1
SL62.00 SL600	Anticonvulsant of antiparkinsonian drug poisoning NOS  Anticonvulsant and antiParkinsonian drug poisoning	1
SL000 SL42z00	Anticonvulsant and anti-rankinsonian drug poisoning  Anticoagulant poisoning NOS	1
SL42200 SL42.00	Anticoagulant poisoning NOS  Anticoagulant poisoning	1
SL42.00 SL45z00	Anticoagulant agonist poisoning NOS	1
SL45.00	Anticoagulant agonist poisoning NOS  Anticoagulant agonist poisoning	1
SLB0100	Anticoagulant agonist poisoning  Anticholinesterase poisoning	1
SL0z.00	Antibiotic poisoning NOS	1
SL000	Antibiotic poisoning	1
SLF7z00	Antiasthmatic poisoning NOS	1
SL30.00	Antiallergic and antiemetic drug poisoning	1
SL1z.00	Anti-infective poisoning NOS	1
SLD0.00	Anti-gastric acid drug poisoning	1
SLF6.00	Anti-common cold drug poisoning	1
SL16.00	Anthelmintic drug poisoning	1
SL24.00	Anterior pituitary hormone poisoning	1
SLD0z00	Antacid drug poisoning NOS	1
SLD0.11	Antacid drug poisoning	1
SL21.12	Androgen poisoning	1
SL21z00	Androgen or anabolic poisoning NOS	1
SL21.00	Androgen and anabolic poisoning	1
SL5z.00	Analgesic, antipyretic or antirheumatic poisoning NOS	1
SL500	Analgesic, antipyretic and antirheumatic drug poisoning	1
SL5y100	Analgesic poisoning, NEC	1
SL511	Analgesic poisoning	1
SLA0.00	Analeptic poisoning	1
SL811	Anaesthetic poisoning	1
SL21.11	Anabolic steroid poisoning	1
SM03000	Amyl alcohol causing toxic effect	1
SL00000	Ampicillin poisoning	1
SL01000	Amphotericin B poisoning	1
SL70000	Amobarbital poisoning	1

Read code	Description	Number of studies
SL90000	Amitriptyline poisoning	1
SLF7000	Aminophylline poisoning	1
SL97000	Amfetamine poisoning	1
SL6y000	Amantadine poisoning	1
SLD0000	Aluminium hydroxide poisoning	1
SLE7000	Allopurinol poisoning	1
SLH3.00	Alcohol deterrent poisoning	1
E230.11	Alcohol dependence with acute alcoholic intoxication	1
SM0z.00 SM000	Alcohol causing toxic effect NOS	1
SL400	Alcohol causing toxic effect Agents affecting blood constituents, causing poisoning	1
TJF5100	Adverse reaction to ipecacuanha	1
TJF5000	Adverse reaction to specacularitia  Adverse reaction to acetylcysteine	1
SLC8000	Adrenochrome poisoning	1
SLB2.11	Adrenergic poisoning	1
SL20z00	Adrenal cortico-steroid poisoning NOS	1
SL20200 SL20.00	Adrenal cortico-steroid poisoning	1
761H300	Administration of activated charcoal	1
E230000	Acute alcoholic intoxication, unspecified, in alcoholism	1
E230z00	Acute alcoholic intoxication in alcoholism NOS	1
E230.00	Acute alcoholic intoxication in alcoholism	1
SM31z00	Acids causing toxic effect NOS	1
SM31.00	Acids causing toxic effect	1
SL32.00	Acidifying agent poisoning	1
SLB0000	Acetylcholine poisoning	1
SM2y000	Acetone causing toxic effect	1
SL23000	Acetohexamide poisoning	1
SLE2000	Acetazolamide poisoning	1
T80yz00	Accidental poisoning-oth analgesic,antipyretic,antirheum NOS	1
T830z00	Accidental poisoning- phenothiazine-based tranquillisers NOS	1
T832z00	Accidental poisoning- benzodiazepine-based tranquilliser NOS	1
T953100	Accidental poisoning from seeds	1
T954.00	Accidental poisoning from other plants	1
T955y00	Accidental poisoning from other fungi	1
T955.00	Accidental poisoning from mushrooms and other fungi	1
T955z00	Accidental poisoning from mushrooms and fungi NOS	1
T955000	Accidental poisoning from mushrooms	1
T9500	Accidental poisoning from foodstuffs and poisonous plants	1
T953z00	Accidental poisoning from berries or seeds NOS	1
T953.00	Accidental poisoning from berries and seeds	1
T953000	Accidental poisoning from berries	1
T937400	Accidental poisoning by zinc phosphide	1
T916300	Accidental poisoning by white washes	1
T885.00	Accidental poisoning by water, mineral, uric acid metab drugs	1
T937300	Accidental poisoning by warfarin	1
T981z00	Accidental poisoning by utility gas NOS	1
T88z.00	Accidental poisoning by unspecified drugs	1
T83z.00	Accidental poisoning by tranquillisers NOS	1
T8300	Accidental poisoning by tranquillisers	1
T930500	Accidental poisoning by toxaphene	1
T964700	Accidental poisoning by thallium compounds	1
T937200	Accidental poisoning by thallium	1
T993.00	Accidental poisoning by tear gas	1

Read code	Description	Number of
T910.00	Accidental poisoning by synthetic detergents and shampoos	studies 1
T941200	Accidental poisoning by sulphuric acid	1
T991.00	Accidental poisoning by sulphur dioxide	1
T937100	Accidental poisoning by squill and derivatives	1
T92z.00	Accidental poisoning by solvent NOS	1
T96z.00	Accidental poisoning by solid and liquid substances NOS	1
T942000	Accidental poisoning by sodium hydroxide	1
T911.00	Accidental poisoning by soap products	1
T887z00	Accidental poisoning by skin, eye, ENT and dental drug NOS	1
T887000	Accidental poisoning by skin drugs	1
T82z.00	Accidental poisoning by sedatives and hypnotics NOS	1
T903300	Accidental poisoning by secondary propyl alcohol	1
T913000	Accidental poisoning by scouring agents	1
T803z00	Accidental poisoning by salicylates NOS	1
T803.00	Accidental poisoning by salicylates	1
T937z00	Accidental poisoning by rodenticides NOS	1
T937.00	Accidental poisoning by rodenticides	1
T815.00	Accidental poisoning by quinalbarbitone	1
T805.00	Accidental poisoning by pyrazole derivatives	1
T84z.00	Accidental poisoning by psychotropic agents NOS	1
T841400	Accidental poisoning by psilocin	1
T932200	Accidental poisoning by propoxur	1
T980200	Accidental poisoning by propane	1
T830300	Accidental poisoning by promazine	1
T830200	Accidental poisoning by prochlorperazine	1
T881.00	Accidental poisoning by primarily systemic agents	1
T912.00	Accidental poisoning by polishes	1
T965z00	Accidental poisoning by plant foods and fertilisers NOS	1
T965.00	Accidental poisoning by plant foods and fertilisers	1
T965000	Accidental poisoning by plant food	1
T973.00	Accidental poisoning by piped natural gas	1
T938200	Accidental poisoning by phosphine	1
T805100	Accidental poisoning by phenylbutazone	1
T830.00	Accidental poisoning by phenothiazine-based tranquillisers	1
T940011	Accidental poisoning by phenol	1
T814.00	Accidental poisoning by phenobarbitone	1
T804200	Accidental poisoning by phenacetin	1
T920.00	Accidental poisoning by petroleum solvents	1
T923.00	Accidental poisoning by petroleum solids	1
T920200	Accidental poisoning by petroleum naphtha	1
T921.12	Accidental poisoning by petroleum fuels	1
T920z00	Accidental poisoning by petrol solvents NOS	1
T923z00	Accidental poisoning by petrol solids NOS	1
T9200	Accidental poisoning by petrol products	1
T921.00	Accidental poisoning by petrol fuels and cleaners	1
T921z00	Accidental poisoning by petrol fuel or cleaner NOS	1
T921200	Accidental poisoning by petrol	1
T802100	Accidental poisoning by pethidine	1
T813.00	Accidental poisoning by pentobarbitone	1
T80y000	Accidental poisoning by pentazocine	1
T935500	Accidental poisoning by paraquat	1
T923000	Accidental poisoning by paraffin wax	1
T804100	Accidental poisoning by paracetamol	1

		Number of
Read code	Description	studies
T916z00	Accidental poisoning by paint or varnish NOS	1
T887300	Accidental poisoning by otorhinolaryngological drugs	1
T9800	Accidental poisoning by other utility gas + carbon monoxide	1
T981.00	Accidental poisoning by other utility gas	1
T83yz00	Accidental poisoning by other tranquillisers NOS	1
T83y.00	Accidental poisoning by other tranquillisers	1
T924z00	Accidental poisoning by other solvents NOS	1
T924.00	Accidental poisoning by other solvents	1
T96y.00	Accidental poisoning by other solid and liquid substances OS	1
T9600	Accidental poisoning by other solid and liquid substances	1
T82y.00	Accidental poisoning by other sedatives and hypnotics OS	1
T8200	Accidental poisoning by other sedatives and hypnotics	1
T8400	Accidental poisoning by other psychotropic agents	1
T916.00	Accidental poisoning by other paints and varnishes	
T802z00	Accidental poisoning by other opiates NOS	1
T802.00 T807.00	Accidental poisoning by other opiates  Accidental poisoning by other non-narcotic analgesics	1
T900	Accidental poisoning by other non-drug substances	1
T964.00	Accidental poisoning by other metals + compounds and fumes	1
T934.00	Accidental poisoning by other insecticides	1
T99y.00	Accidental poisoning by other insecticities  Accidental poisoning by other gases and vapours OS	1
T99yz00	Accidental poisoning by other gases and vapours NOS	1
T9900	Accidental poisoning by other gases and vapours	1
T95y.00	Accidental poisoning by other foods	1
T901.00	Accidental poisoning by other ethyl alcohol and its products	1
T8500	Accidental poisoning by other drugs acting on nervous system	1
T88y.00	Accidental poisoning by other drugs OS	1
T88yz00	Accidental poisoning by other drugs NOS	1
T8800	Accidental poisoning by other drugs	1
T94y.00	Accidental poisoning by other corrosives and caustics	1
T913z00	Accidental poisoning by other cleaning agents NOS	1
T913.00	Accidental poisoning by other cleaning agents	1
T90y.00	Accidental poisoning by other alcohols	1
T966y00	Accidental poisoning by other adhesives	1
T851.00	Accidental poisoning by oth central nervous syst depressants	1
T80y.00	Accidental poisoning by oth analgesics, antipyretic, antirheum	1
T931z00	Accidental poisoning by organophosphorus insecticides NOS	1
T931.00	Accidental poisoning by organophosphorus insecticides	1
T930.00	Accidental poisoning by organochlorine insecticides	1
T936000	Accidental poisoning by organic mercurials	1
T802300	Accidental poisoning by opium	1
T843100	Accidental poisoning by opiate antagonists	1
T887200	Accidental poisoning by ophthalmological drugs	1
T855100	Accidental poisoning by noradrenalin	1
T807z00	Accidental poisoning by non-narcotic analgesics NOS	1
T916200	Accidental poisoning by non-lead paints	1
T990.00	Accidental poisoning by nitrogen oxides	1
T941100	Accidental poisoning by nitric acid	1
T832500	Accidental poisoning by nitrazepam	1
T964600	Accidental poisoning by nickel compounds	1
T806200	Accidental poisoning by naproxen	1
T886.00	Accidental poisoning by muscle + respiratory system drugs	1
T887100	Accidental poisoning by mucous membrane drugs	1

T982.00 Accidental poisoning by motor vehicle exhaust gas T802200 Accidental poisoning by morphine	studies 1 1
	1
T840200 Accidental poisoning by monoamine oxidase inhibitors	
T933.00 Accidental poisoning by mixtures of insecticides	1
T935400 Accidental poisoning by mixtures herbicides+plant food etc	1
T825.00 Accidental poisoning by mixed sedatives NEC	1
T901100 Accidental poisoning by methylated spirit	1
T938100 Accidental poisoning by methyl bromide	1
T902.00 Accidental poisoning by methyl alcohol	1
T823.00 Accidental poisoning by methaqualone compounds	1
T902000 Accidental poisoning by methanol	1
T801.00 Accidental poisoning by methadone	1
T964z00 Accidental poisoning by metals + compounds and fumes NOS	1
T961000 Accidental poisoning by mercury, unspecified	1
T961z00 Accidental poisoning by mercury, NOS	1
T961200 Accidental poisoning by mercury fumes	1
T961.00 Accidental poisoning by mercury and its compounds and fumes	1
T832400 Accidental poisoning by medazepam	1
T964500 Accidental poisoning by manganese and its compounds	1
T931300 Accidental poisoning by malathion	1
T841100 Accidental poisoning by lysergide, LSD	1
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T832300 Accidental poisoning by lorazepam	1
T852.00 Accidental poisoning by local anaesthetic	1
T852100 Accidental poisoning by lignocaine	1
T960000 Accidental poisoning by lead, unspecified	1
T960z00 Accidental poisoning by lead, NOS	1
T915.00 Accidental poisoning by lead paints	1
T960.00 Accidental poisoning by lead and its compounds and fumes	1
T916000 Accidental poisoning by lacquers	1
T806400 Accidental poisoning by ketoprofen	1
T921300 Accidental poisoning by kerosene	1
T903z00 Accidental poisoning by isopropyl alcohol NOS	1
T903100 Accidental poisoning by isopropanol	1
T964400 Accidental poisoning by iron compounds	1
T934z00 Accidental poisoning by insecticides NOS	1
T806100 Accidental poisoning by indomethacin	1
T840100 Accidental poisoning by imipramine	1
T806300 Accidental poisoning by ibuprofen	1
T854200 Accidental poisoning by hyoscine	1
T941000 Accidental poisoning by hydrochloric acid	1
T850100 Accidental poisoning by hydantoin derivatives	1
T91z.00 Accidental poisoning by household agents NOS	1
T9100 Accidental poisoning by household agents	1
T880.00 Accidental poisoning by hormones and synthetic substitutes	1
T800.00 Accidental poisoning by heroin	1
T935z00 Accidental poisoning by herbicides NOS	1
T935.00 Accidental poisoning by herbicides	1
T981300 Accidental poisoning by heating gas NOS	1
T831000 Accidental poisoning by haloperidol	1
T851200 Accidental poisoning by halogenated hydrocarbon derivatives	1
T841.00 Accidental poisoning by hallucinogens	1
T841z00 Accidental poisoning by hallucinogen NOS	1

Read code	Description	Number of
T806000	Accidental poisoning by gold salts	studies 1
T966z00	Accidental poisoning by glues and adhesives NOS	1
T966.00	Accidental poisoning by glues and adhesives	1
T966000	Accidental poisoning by glues	1
T884.00	Accidental poisoning by gastrointestinal system drugs	1
T470.00	Accidental poisoning by gases or fumes on ship	1
T99z.00	Accidental poisoning by gases and vapours NOS	1
T921100	Accidental poisoning by gas oils	1
T9700	Accidental poisoning by gas distributed by pipeline	1
T936z00	Accidental poisoning by fungicides NOS	1
T936.00	Accidental poisoning by fungicides	1
T938.00	Accidental poisoning by fumigants	1
T95z.00	Accidental poisoning by foodstuffs and poisonous plants NOS	1
T965100	Accidental poisoning by fertilisers	1
T982000	Accidental poisoning by exhaust gas-stationary farm tractor	1
T982z00	Accidental poisoning by exhaust gas from motor vehicle NOS	1
T982100	Accidental poisoning by exhaust gas from gas engine	1
T901z00	Accidental poisoning by ethyl alcohol NOS	1
T901300	Accidental poisoning by ethanol, NOS	1
T800	Accidental poisoning by drugs, medicines and biologicals	1
T882.00	Accidental poisoning by drugs affecting blood constituents	1
T85z.00	Accidental poisoning by drugs acting on nervous system NOS	1
T8z00	Accidental poisoning by drugs NOS	1
T914.00	Accidental poisoning by disinfectants	1
T935300	Accidental poisoning by diquat	1
T930300	Accidental poisoning by dieldrin	1
T832100	Accidental poisoning by diazepam	1
T800.11	Accidental poisoning by diamorphine	1
T887400	Accidental poisoning by dental drugs	1
T901000	Accidental poisoning by denatured alcohol	1
T938000	Accidental poisoning by cyanides	1
T967.00	Accidental poisoning by cosmetics	1
T94z.00	Accidental poisoning by corrosives and caustics NOS	1
T9400	Accidental poisoning by corrosives and caustics NEC	1
T940.00	Accidental poisoning by corrosive aromatics	1
T964300	Accidental poisoning by copper salts	1
T981400	Accidental poisoning by cooking gas NOS	1
T802000	Accidental poisoning by codeine	1
T852000	Accidental poisoning by cocaine	1
T971.00	Accidental poisoning by coal gas NOS	1
T853.00	Accidental poisoning by cholinergics	1
T830000	Accidental poisoning by chlorpromazine	1
T99y000	Accidental poisoning by chlorine	1
T832000	Accidental poisoning by chlordiazepoxide	1
T930100	Accidental poisoning by chlordane	1
T935200	Accidental poisoning by chlorates	1
T820.00	Accidental poisoning by chloral hydrate	1
T88y000	Accidental poisoning by central appetite depressants	1
T942z00	Accidental poisoning by caustic alkalis NOS	1
T942.00	Accidental poisoning by caustic alkalis	1
T883.00	Accidental poisoning by cardiovascular system drugs	1
T983.00	Accidental poisoning by carbon monoxide-other domestic fuel	1
T970.00	Accidental poisoning by carbon monoxide from piped gas	1

T98y.00 Accidental poisoning by carbon monoxide from other sources 198y.20 Accidental poisoning by carbon monoxide from oth source NOS 198z.00 Accidental poisoning by carbon monoxide NOS 1983z00 Accidental poisoning by carbon monoxide NOS 1983z00 Accidental poisoning by carbon monoxide - domestic fuel NOS 11993z00 Accidental poisoning by carbon monoxide - domestic fuel NOS 11993z00 Accidental poisoning by carbon monoxide - domestic fuel NOS 11993z00 Accidental poisoning by carbon monoxide - domestic fuel NOS 1893z00 Accidental poisoning by carbonal carbon device - domestic fuel NOS 1894z00 Accidental poisoning by carbonal car	Dood and	Description	Number of
1982/00         Accidental poisoning by carbon monoxide from oth source NOS         1           1982/00         Accidental poisoning by carbon monoxide NOS         1           1993/20         Accidental poisoning by carbon monoxide - domestic fuel NOS         1           1940/00         Accidental poisoning by carbonic acid         1           1932/10         Accidental poisoning by carbaryl         1           1932/10         Accidental poisoning by carbaryl         1           1932/10         Accidental poisoning by carbaryl         1           1842/10         Accidental poisoning by carbaryl         1           1984/20         Accidental poisoning by carbaryl         1           1984/20         Accidental poisoning by butane         1           1983/20         Accidental poisoning by bromiber compounds         1           1822/200         Accidental poisoning by bromiber compounds         1           1832/20         Accidental poisoning by beryllum and its compounds         1           1842/20         Accidental poisoning by beryllum and its compounds         1 <td></td> <td>·</td> <td></td>		·	
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1983/200         Accidental poisoning by carboin card         1           1940000         Accidental poisoning by carbolic acid         1           1932.00         Accidental poisoning by carbaryl         1           1932.00         Accidental poisoning by carbaryl         1           184100         Accidental poisoning by carnabis derivatives         1           184210         Accidental poisoning by carfeine         1           184210         Accidental poisoning by butane         1           1980100         Accidental poisoning by butane         1           1980100         Accidental poisoning by butane         1           182200         Accidental poisoning by bromine compounds         1           1822000         Accidental poisoning by bromine compounds         1           1832.00         Accidental poisoning by berzene         1           1832.00         Accidental poisoning by benzene hexachlorine         1           1832.00         Accidental poisoning by benzene hexachlorine         1           1812.00         Accidental poisoning by barbiturates NOS         1           1812.00         Accidental poisoning by barbiturates         1           1811.00         Accidental poisoning by barbiturates         1           1811.00         Accident	•	· · · · · · · · · · · · · · · · · · ·	
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	Т930200	Accidental poisoning by DDT	1

		<b>N</b> 1 1 6
Read code	Description	Number of studies
Read code T983300 T983100 T983000 T98y100 T98y200 T98y000 T93z.00 T77z.00 T77z.00 T85y.00 T470500 SL24011	Accidental poisoning by CO- kerosene in domestic stove/fire Accidental poisoning by CO- coke in domestic stove/fireplace Accidental poisoning by CO- coal in domestic stove/fireplace Accidental poisoning by CO - kiln vapour Accidental poisoning by CO - fuels in industrial use Accidental poisoning by CO - blast furnace gas Accidental poisoning agricultural chemical preparations NOS Accidental poisoning NOS Accidental poisoning vother drugs acting on nervous system OS Accid. poisoning by other drugs acting on nervous system OS Accid poison gas/fume on ship - swimmer injured ACTH - adrenocorticotropic hormone poisoning	Number of studies  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Appendix 20. ICD codes used in the studies of anxiety.

Study	Databases	ICD version	List of codes
Bouras, 2016	CPRD + HES	ICD-10	F40-F48

\_S = Host CPRD - Clinical Practice Research Datalink; HES - Hospital Episode Statistics; ICD - International Classification of Diseases.

Appendix 21. ICD codes used in the studies of depression.

Study	Databases	ICD version	List of codes
Bouras, 2016	CPRD + HES	ICD-10	F32, F33
Jenkins-Jones, 2018	CPRD + HES	ICD-10	F32, F33, F41.2, F92.0

CPRD - Clinical Practice Research Datalink; HES - Hospital Episode Statistics; ICD - International Classification of Diseases.



Appendix 22. ICD codes used in the studies of dementia.

Study	Databases	ICD version	List of codes
Brown, 2016	CPRD + HES	ICD-10	E512, F00, F01, F02, F03, F10.6, F10.7, G30, G31.0
Emdin, 2016	CPRD + HES	ICD-10	F01

CPRD – Clinical Practice Research Datalink; HES – Hospital Episode Statistics; ICD - International Classification of Diseases.



Appendix 23. ICD codes used in the studies of fatal self-harm.

Study	ICD version	List of codes
Carr, 2017	ICD-10	V01-Y98
Coupland, 2015	ICD-10	not provided
Doyle, 2016	ICD-10	X60-X84, Y10-34 (excluding Y33.9), Y87.0 and Y87.2
Lalmohamed, 2012	ICD-10	V01-Y99
Meier, 2004	ICD-10	not provided
Schuerch, 2016	ICD-10	X60-X84, Y10-Y34
Thomas, 2013	ICD-10	X60-X84, Y10-34 (excluding Y33.9)
Webb, 2012	ICD-10	X60-X84, Y10-34 (excluding Y33.9)
Windfuhr, 2016	ICD-10	X60-X84, Y10-34 (excluding Y33.9), Y87.0 and Y87.2

ICD - International Classification of Diseases



## PRISMA 2009 Checklist

Section/topic	#	Checklist item	Reported on page #			
7 TITLE						
Title	1	Identify the report as a systematic review, meta-analysis, or both.	1			
ABSTRACT						
Structured summary	2	Provide a structured summary including, as applicable: background; objectives; data sources; study eligibility criteria, participants, and interventions; study appraisal and synthesis methods; results; limitations; conclusions and implications of key findings; systematic review registration number.	2			
INTRODUCTION						
Rationale	3	Describe the rationale for the review in the context of what is already known.	5			
Objectives	4	Provide an explicit statement of questions being addressed with reference to participants, interventions, comparisons, outcomes, and study design (PICOS).	5			
METHODS	•					
Protocol and registration	5	Indicate if a review protocol exists, if and where it can be accessed (e.g., Web address), and, if available, provide registration information including registration number.	None exists			
Eligibility criteria	6	Specify study characteristics (e.g., PICOS, length of follow-up) and report characteristics (e.g., years considered, language, publication status) used as criteria for eligibility, giving rationale.	6-7			
Information sources	7	Describe all information sources (e.g., databases with dates of coverage, contact with study authors to identify additional studies) in the search and date last searched.	6			
Search	8	Present full electronic search strategy for at least one database, including any limits used, such that it could be repeated.	Appendix 1			
Study selection	9	State the process for selecting studies (i.e., screening, eligibility, included in systematic review, and, if applicable, included in the meta-analysis).	7			
Data collection process	10	Describe method of data extraction from reports (e.g., piloted forms, independently, in duplicate) and any processes for obtaining and confirming data from investigators.	7			
Data items	11	List and define all variables for which data were sought (e.g., PICOS, funding sources) and any assumptions and simplifications made.	7			
Risk of bias in individual studies	12	Describe methods used for assessing risk of bias of individual studies (including specification of whether this was done at the study or outcome level), and how this information is to be used in any data synthesis.	Not applicable			
Summary measures	13	State the principal summary measures (e.g., risk ratio, difference in means).	Not applicable			
Data items Risk of bias in individual studies	11 12	for obtaining and confirming data from investigators.  List and define all variables for which data were sought (e.g., PICOS, funding sources) and any assumptions and simplifications made.  Describe methods used for assessing risk of bias of individual studies (including specification of whether this was done at the study or outcome level), and how this information is to be used in any data synthesis.	7 Not applica			



**FUNDING** 

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### PRISMA 2009 Checklist

$\frac{1}{2}$					
Synthesis of results	14	Describe the methods of handling data and combining results of studies, if done, including measures of consistency (e.g., $I^2$ ) for each meta-analysis.	7-8		
Page 1 of 2					
Section/topic	#	Checklist item	Reported on page #		
Risk of bias across studies	15	Specify any assessment of risk of bias that may affect the cumulative evidence (e.g., publication bias, selective reporting within studies).	Not applicable		
Additional analyses	16	Describe methods of additional analyses (e.g., sensitivity or subgroup analyses, meta-regression), if done, indicating which were pre-specified.	Not applicable		
RESULTS					
Study selection	17	Give numbers of studies screened, assessed for eligibility, and included in the review, with reasons for exclusions at each stage, ideally with a flow diagram.	Fig 1		
Study characteristics	18	For each study, present characteristics for which data were extracted (e.g., study size, PICOS, follow-up period) and provide the citations.	App. 3-10		
Risk of bias within studies	19	Present data on risk of bias of each study and, if available, any outcome level assessment (see item 12).	Not applicable		
Results of individual studies	20	For all outcomes considered (benefits or harms), present, for each study: (a) simple summary data for each intervention group (b) effect estimates and confidence intervals, ideally with a forest plot.	App. 11- 22		
Synthesis of results	21	Present results of each meta-analysis done, including confidence intervals and measures of consistency.	Not applicable		
Risk of bias across studies	22	Present results of any assessment of risk of bias across studies (see Item 15).	Not applicable		
Additional analysis	23	Give results of additional analyses, if done (e.g., sensitivity or subgroup analyses, meta-regression [see Item 16]).	Not applicable		
DISCUSSION					
Summary of evidence	24	Summarize the main findings including the strength of evidence for each main outcome; consider their relevance to key groups (e.g., healthcare providers, users, and policy makers).	14		
Limitations	25	Discuss limitations at study and outcome level (e.g., risk of bias), and at review-level (e.g., incomplete retrieval of identified research, reporting bias).	14-15		
Conclusions	26	Provide a general interpretation of the results in the context of other evidence, and implications for future research.	16-19		

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#### PRISMA 2009 Checklist

3 _				
4 5	Funding	27	Describe sources of funding for the systematic review and other support (e.g., supply of data); role of funders for the systematic review.	3
6 =				
8	From: Moher D, Liberati A, Tetzlaff doi:10.1371/journal.pmed1000097	J, Altm	nan DG, The PRISMA Group (2009). Preferred Reporting Items for Systematic Reviews and Meta-Analyses: The PRISMA Statement. PLoS Med	6(7): e1000097.
9			For more information, visit: <a href="https://www.prisma-statement.org">www.prisma-statement.org</a> .	
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## **BMJ Open**

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SCHOLARONE™ Manuscripts Identification of mental health and quality of life outcomes in primary care databases in the United Kingdom: a systematic review

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#### **Abstract**

Objectives: To summarise the definitions and combinations of codes used to identify outcomes of anxiety, depression, fatigue, cognitive dysfunction (including mild cognitive dysfunction and dementia), sexual dysfunction, pain, sleep disorders, and fatal and non-fatal self-harm in studies using electronic health records from primary care databases in the United Kingdom (UK).

Design: Systematic review.

Data sources: Medline, Embase, and lists of publications of the main primary care databases in the UK.

Eligibility criteria: Included data from a primary care database and studied outcome(s) of interest.

Data extraction and synthesis: We abstracted information on the outcomes definition and codelists. When necessary, authors were contacted to request codelists.

Results: 120 studies were eligible. Codelists were available for 17/42 studies of depression; 21/41 studies of fatal and non-fatal self-harm; 17/27 studies of dementia/cognitive dysfunction; 5/12 studies of anxiety; 4/8 studies of pain; 3/6 studies of fatigue and sexual dysfunction; 1/2 studies of sleep disorders. Depression was most often defined using codes for diagnoses (37/42 studies) and/or antidepressants prescriptions (21/42 studies); 6 studies reported including symptoms in their definition. Anxiety was defined with codes for diagnoses (12/12 studies); 4 studies also reported including symptoms. Fatal/non-fatal self-harm was ascertained in primary care data linked to the Office for National Statistics mortality database in 9 studies. Most studies of cognitive dysfunction included Alzheimer's disease, and vascular and frontotemporal dementias. Fatigue definitions varied little, including chronic fatigue syndrome, neurasthenia, and post viral fatigue syndrome. All studies of sexual dysfunction focused on male conditions, principally erectile dysfunction. Sleep disorders included insomnia and hypersomnia. There was substantial variability in the codelists; validation was carried out for 21/120 studies.

Conclusions: There is a need for standardized definitions and validated list of codes to assess mental health and quality of life outcomes in primary care databases in the UK.

#### Strengths and limitations of this study

- Comprehensive systematic review of the literature aiming at describing the definitions and combination of codes used to identify outcomes of mental health and quality of life in electronic health records databases in the UK;
- Potential for error in the selection of the eligible studies minimised by duplication of the screening;
- The authors of the original studies were contacted to obtain the list of Read codes used when these were not publicly available;
- We only considered definitions of study outcomes, and did not consider studies
  where mental health or quality of life variables were covariates or exposure variables,
  limiting the generalisability of our results to these other contexts.

#### **Funding**

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#### Data availability

All data relevant to the study are included in the article or uploaded as supplementary information.

#### **Contributorship Statement**

HC, RW and KB designed the study. HC and HS screened the list of references and abstracted information from the original studies. HC wrote the first draft of the manuscript. All authors revised the paper for important intellectual content.

#### **Acknowledgements**

We would like to thank the authors of the original studies who kindly provided the list of codes used in their studies. We would also like to thank Daniel Dedman (CPRD/LSHTM) for helpful comments on the search expressions.

The copyright of the morbidity definitions/categorisations lists (©2014) obtained from the authors for the studies by Roddy et al, 2013, Abdul Sultan et al, 2017, and Mansfield et al, 2018, are owned by Keele University, the development of which was supported by the

Primary Care Research Consortium. The authors would like to acknowledge Keele University's Prognosis and Consultation Epidemiology Research Group who have given us permission to utilise the morbidity definitions/categorisations lists (©2014); for access/details relating to the morbidity definitions/categorisation lists (©2014) please go to www.keele.ac.uk/mrr.

#### **Conflict of interest**

Dr Bhaskaran reports grants from Wellcome Trust, the Royal Society, Medical Research Council, and British Heart Foundation, outside the submitted work. Dr Williams reports that CPRD has financial relationships with its clients, including the London School of Hygiene and Tropical Medicine, in relation to providing access to research data and services outside the submitted work. The other authors in this report have no conflict of interest to disclose.



#### Introduction

Primary care databases of electronic health records (EHR) in the United Kingdom (UK) such as The Clinical Practice Research Datalink (CPRD), QResearch or The Health Improvement Network (THIN) have been widely used to study mental health outcomes such as depression [1, 2], and other key aspects of quality of life, such as fatigue and pain [3, 4], even though the identification of patients with these conditions is not straightforward.

Strategies to identify patients with a given condition in the EHRs typically include generating lists of relevant codes, then searching the patients' record for these codes to identify symptoms, diagnoses, referrals, appointments for disease management and monitoring, and/or prescriptions of interest [5]. The process of developing a list of codes of interest, and deciding how to apply them, may be subjective. For example, a study on the selection of codes for stroke, a relatively well-defined clinical outcome, showed that researchers with clinical and epidemiological experience may have differing interpretations of the relevance of each code [6]. A systematic review on the identification of patients with cancer in UK primary care databases described several combinations of Read codes used across studies [7]. Estimates of validity of diagnoses in these databases have been generally high across disease types [8, 9], but the heterogeneity in the codelists raises issues of misclassification, and hampers the comparability of studies using the same data to assess the same outcome [10]. The pattern of use of the codes by the general practitioners (GPs) also needs consideration. For example, in recording depression, it has been shown that GPs have switched from diagnostic to symptom codes in recent years [11]; this may have a large impact on outcome definitions based around diagnostic codes. In addition, outcome definitions using prescription data may lead to misclassification where drugs have multiple indications: for example, sertraline, paroxetine, or escitalopram, amongst the most commonly used antidepressants, are also first-line treatments for generalised anxiety disorder [12]; and amitriptyline, a tricyclic antidepressant, is also a first-line treatment for neuropathic pain [13].

Given the broad interest in mental health and quality of life outcomes, and the strong potential for primary care data to contribute to studying these outcomes, our aim was to systematically review and summarise the strategies used to define such outcomes in previous studies, and the extent to which case definitions have been validated.

#### **Methods**

This review followed the a priori defined methods specified in the systematic review protocol (appendix 1).

#### Outcomes of interest

The outcomes of interest for this review were: anxiety, depression, fatigue, cognitive dysfunction, pain, sexual dysfunction, sleep disorder and fatal and non-fatal self-harm. We considered that a study provided data for cognitive dysfunction when dementia, mild cognitive impairment or single domains of cognitive function were studied (i.e. attention, executive function, memory, language, motor, and social). Composite outcomes of two or more of these outcomes (e.g. psychological impairment defined by anxiety or depression) were also eligible.

### Information sources and search strategy

We searched MEDLINE and Embase via Ovid®, from inception up to 28 June 2018, to identify studies that involved EHRs from primary care databases and studied one of the outcomes of interest (see above). The search expressions are provided in appendix 1, and combined terms to identify primary care databases, terms to identify mental health and quality of life outcomes, and terms indicating UK-based research. The CPRD, THIN and QResearch list of publications, available in their websites, were manually revised to identify additional studies. The lists of bibliographic references of the studies considered eligible for the review were also screened by hand to identify additional studies.

### Studies eligibility

We considered eligible the studies that used data from a primary care database that routinely gathers EHR data from primary care practices in the UK, and in which the outcome of interest was one of those of interest for this study (see list above). This included purely descriptive studies on the incidence/prevalence of the outcome and analytical studies where the condition of interest was one of the main outcomes of the study. Studies of primary care data linked to other sources of data, such as the Hospital Episode Statistics (HES) or the Office for National Statistics (ONS) mortality data, were also considered eligible.

Abstracts from conferences were excluded, as it was unlikely that the methods section would provide sufficiently detailed information on the definition of the outcomes. Studies of pain

caused by infectious agents (e.g. herpes zoster) were excluded; similarly, studies of sleep apnoea and narcolepsy were excluded due to their unlikely psychological origin [14, 15]. Studies reporting only on patterns of treatment of the conditions of interest were excluded, unless pharmacological treatment was clearly used as a proxy for the definition of the condition. Studies where the outcome of interest was comorbidity were also excluded. Where there were multiple studies from the same group of authors, we considered these separately, since the definition of the same outcomes could have been updated over time.

The eligibility of the studies was determined by two authors (HC and HS) reviewing all records retrieved from the publications databases. First, the title of each study was read to determine the eligibility for the review; when the information provided in the title was insufficient for a clear exclusion of the study, the study was considered for further assessment. Secondly, the full text of each study not previously excluded was read, in order to determine the eligibility. Disagreements over study eligibility between the two reviewers were resolved by discussion, including with a third researcher (KB or RW) where needed.

# Data acquisition and extraction

We abstracted data on study characteristics (title, study design), the primary care database used, any database(s) linked to the primary care data, outcome(s) reported, definition of the outcome(s) (i.e. Read codes, drug prescriptions, International Classification of Diseases (ICD) codes, etc.) and any codelist available. When there were two or more definitions of the outcome (e.g. used in sensitivity analyses), we abstracted all information but considered only the main outcome for data analysis in this review. We also abstracted data on whether the codelist had been validated, and any description related to the handling of past or prevalent (at baseline in cohort studies) episodes of these outcomes. We considered that the study had attempted to validate the list of codes when the results were compared to data from another source, or when outcomes were confirmed by enquiring the patients' GP or by reviewing the patients' medical record. The data extraction process was repeated by a second author (HS) for 10% of the papers included for each outcome, to check for reliability in the extraction process.

When a study did not provide the codelist for the definition of the outcome in the original publication or in a publicly available repository, we contacted the corresponding author of the study by email seeking this information (appendix 2). In the case of emails that could not be delivered to the corresponding author, we searched the contact of another study author, usually the first or the last author, and addressed the email to her/him; if this failed to be

delivered, no further attempt of contact was made. For all delivered emails, if no response was received within two weeks, a follow up email was sent.

### Data analysis

We produced descriptive tables showing the number and proportion of studies eligible for each outcome, by primary care database and codelist availability. We described, for each outcome, the types of codes used in the definition of the outcomes (e.g. diagnosis codes, symptom codes, prescription codes). The lists of codes were also reviewed to assess the clinical characteristics of the disorders included (e.g. whether mixed anxiety and depression was included in the definition of anxiety or depression); this was done by manually reviewing the list of codes to identify codes related to different clinical characteristics of the specific outcome. To describe the Read codes most commonly used to identify these outcomes in the data, we produced a list of Read codes sorted by number of studies that used the code. The results of the validation studies described in the original papers were reported descriptively.

#### Patient and Public Involvement

No patients or public were involved in the design and conduct of this study.

#### Results

Of 5,946 records initially identified in the bibliographic references search, 2,979 were discarded as being duplicated, which left 2,967 records to be assessed for eligibility (Figure 1). The title assessment resulted in the exclusion of 2,485 records, and 482 studies were considered for full text assessment. Of these, 368 studies were excluded, mostly because they were abstracts from conferences or did not evaluate relevant outcomes. Six papers were identified from the screening of the references. A total of 120 studies were eligible for the systematic review; list of codes were obtained for nearly half of the studies. The definitions and combinations of codes used to identify mental health and QoL outcomes from UK primary care databases were heterogeneous for all outcomes; there was particular variability in the inclusion/exclusion of codes for symptoms of the mental disorders. Prescriptions were not frequently used as proxy for mental disorders. Validation efforts were rarely employed. Detailed results for each outcome are provided below.

### Anxiety

12 studies had anxiety as an outcome (Table 1 and appendix 3 table 1); of these, two studied panic only [2, 16]. The list of codes used to identify outcomes of anxiety was available for 5 of the 12 studies (41.7%); in one study, the cases of anxiety were identified in CPRD data linked to HES. All 12 studies included codes for diagnosis of anxiety, and 4 (33.3%) included also codes for anxiety symptoms. Prescriptions were considered in the definition of the outcome in 1 study only (8.3%).

Of the 5 studies for which codelists were available, 5 included codes for generalized anxiety disorder (100%), 4 for phobia (80.0%), 4 for panic disorder/attacks (80.0%), 3 for mixed anxiety and depression (60.0%), and 2 for stress-related disorders (40.0%) (Table 2). Codes for post-traumatic stress disorder and obsession-compulsion were less often included (1 study each, 20.0%).

Only one study reported including drugs prescriptions in the definition of the outcome [17]; this considered diazepam and lorapezam only (Table 3).

Two studies [2, 18] assessed the validity of the codelists (Table 4). The proportion of cases confirmed was reported in one study: 73.5% for cases treated with anxiolytics, antidepressants and hypnotics, and 89.6% in those not pharmacologically treated [18].

Appendix 4 table 1 provides the list of Read codes used to identify patients with anxiety in the eligible studies; appendix 4 table 2 provides the list of ICD-10 codes.

### Depression

42 studies identified outcomes of depression (Table 1 and appendix 3 table 2). The list of codes used to identify outcomes of depression was available for 17 of the 42 studies (40.5%); 2 studies identified cases of depression in primary care data linked to HES data, using ICD-10 codes. Six studies defined depression by proxy of antidepressants intake only; the remaining 36 studies described to have included codes for diagnoses of depression and 6 (14.3%) studies also considered symptoms of depression in the definition of the outcome. 15 studies (35.7%) reported having excluded patients with history of depression.

Of the 17 studies for which the codelists were available, 10 included codes for mixed anxiety and depression (58.8%), 4 for bipolar disorder (23.5%) and 3 for depression in dementia (17.6%) (Table 2).

Antidepressant prescriptions, in isolation or combination with diagnostic/symptoms Read codes, were considered in the identification of patients with depression in 21 studies (50.0%); in 6 studies, depression was solely defined by the prescription of antidepressants (Table 3). The list of antidepressant categories was seldom provided; of the studies that reported this information, selective serotonin re-uptake inhibitors were the group most often considered (6 studies), followed by monoamine-oxidase inhibitors and tricyclic and related antidepressants drugs (3 studies each).

Five studies (11.9%) assessed the performance of the list of codes to identify patients with depression (Table 4). The proportion of cases confirmed was reported by two studies only: 83.3% [19] and 89.6% [20].

The list of Read codes used to identify patients with depression is provided in appendix 4 table 3; appendix 4 table 4 provides the list of ICD-10 codes.

### Composite outcome of anxiety and depression

Two studies provided data for composite outcomes of anxiety and depression (Table 1 and appendix 3 table 3). The codelist was available for the two studies. The studies reported including codes for symptoms as well as diagnosis of anxiety and depression, and included prescriptions of antidepressants and antianxiety drugs in the definition of the outcome.

John et al. [21] compared the performance of 12 different algorithms to identify patients with anxiety and depression in the Secure Anonymised Information Linkage Databank (SAIL); the positive predictive value of the Read codes for anxiety and depression diagnoses, symptoms and treatments, against the five-item Mental Health Inventory (gold-standard), varied

between 61% and 76% [21] (Table 4). The list of Read codes used to identify patients with composite outcomes of anxiety and depression is provided in appendix 4 table 5.

### Cognitive dysfunction (including dementia and mild cognitive dysfunction)

27 studies reported outcomes of dementia or cognitive function (Table 1 and appendix 3 table 4). The codelists were available for 17 studies (63.0%); in two studies dementia was ascertained in primary care data linked to other sources of data. All studies included codes for diagnosis of dementia or cognitive impairment, and 6 studies (22.2%) reported to have included also codes for symptoms of dementia. 21 studies (77.8%) referred to have excluded patients with prior diagnoses of dementia from longitudinal analyses.

Of the 17 studies for which the codelists were available, 13 reported codes for Alzheimer's disease (81.3%), 13 for vascular dementia (81.3%), 12 for frontotemporal dementia (75.0%), and 11 for Lewy bodies disease (68.8%) (Table 2). Three studies reported data for cognitive impairment without dementia (17.6%).

Four studies (14.8%) used prescriptions in the identification of patients with dementia; all four included anticholinesterases and dopaminergic agents (Table 3).

Five studies [22-26] involved validation of the list of codes; the proportion of cases confirmed varied between 74% and 100% (Table 4).

The list of Read codes used in the studies is provided in appendix 4 table 6; the list of ICD-10 codes is provided in appendix 4 table 7.

### Fatigue

Six studies had fatigue as the outcome (Table 1 and appendix 3 table 5). All studies considered codes for diagnoses of fatigue, and 5 studies also described including codes for symptoms of fatigue. The list of codes use to identify patients with fatigue was provided in 3 studies (50.0%).

The three studies for which the codelist was available included codes for chronic fatigue syndrome, neurasthenia and post-viral fatigue syndrome (Table 2). Fibromyalgia was included in two studies (66.7%). None of the studies assessed the validity of the list of the codes. The list of Read codes used in the studies of fatigue is available in appendix 4 table 8.

#### Pain

8 studies had pain as the outcome (Table 1 and appendix 3 table 6). The list of codes was available for 4 of the 8 studies. Of these 4 studies, three looked at pain by body site (i.e. chest, abdominal, musculoskeletal pain), one study studied widespread body pain (Table 2). Two studies included drugs in the identification of patients with pain; all considered anti-epileptics (in the absence of codes for an epilepsy diagnosis), anaesthetics, antidepressants and analgesics (Table 3).

Three studies validated the list of selection of the codes (Table 4). The proportion of cases confirmed varied between 56% and 86.4%. One study compared pain recorded in the EHR with pain reported in a survey; in 97% of the self-reported cases of pain, there was an entry in the EHR [27].

Appendix 4 table 9 provides the list of codes used in the original studies.

# Sexual dysfunction

Six studies had sexual dysfunction as an outcome, all of which focused on male sexual dysfunction (Table 1, appendix 3 table 7). Three studies provided codelists (50.0%). Of these, all included codes for erectile dysfunction and one study included codes for other male sexual dysfunctions (Table 2). Three studies included considered the prescription of drugs sufficient to ascertain the outcome; two studies considered phosphodiesterase type-5 inhibitors (Table 3). No study validated the list of codes used. The list of Read codes used in the original studies are available in appendix 4 table 10.

## Sleep disorders

Two studies were eligible for sleep disorders (Table 1, appendix 3 table 8); the two studies included diagnoses of insomnia, and one included hypersomnia as well (50%) (Table 2). The list of codes was available for one study. No validation was reported. Appendix 4 table 11 provides the list of Read codes used in the original study.

#### Fatal and non-fatal self-harm

41 studies had outcomes related to fatal and non-fatal self-harm (Table 1 and appendix 3 table 9). The list of codes used to defined the outcomes was available for 21 studies (51.2%); 9 studies reported using ICD-10 codes.

Of the 21 studies for which the codelist was available, 17 studies (80.9%) included completed suicide, while 4 studies focused on attempted suicide only (19.1%). Of the 17 studies including completed suicide as an outcome, 8 reported only completed suicides, 6 considered completed and attempted suicides and 4 included complete and attempted suicide, as well as self-harm (Table 2). All studies where outcomes were identified using primary care data linked to ONS mortality data (gold-standard) considered deaths recorded as of undetermined intent in the definition of suicide.

Nine studies involved some method of validation of the list of cases identified via code search (Table 4). Four studies referred to have revised the clinical record of the patient to determine the final outcome and two studies asked the GPs to confirm the events. The proportion of cases confirmed varied between 21.2% and 97%. Hall et al [28] assessed the validity of cause of death recording in the THIN primary care database through search of the free text and death certificate review; the underlying cause of death registered in the death certificate was listed as the cause of death in the EHR in 70% of the cases. Thomas et al [29] compared the ascertainment of cases of suicide and self-harm using Read codes in CPRD, with those ascertained when data from HES and ONS mortality data were available. 26.1% of the cases of suicide identified in the ONS mortality data were registered in the CPRD primary care database. HES was considered the gold-standard for self-harm; 68.4% of the cases of self-harm in HES were identified as such in CPRD.

Appendix 4 table 12 provides the list of Read codes used to identify outcomes of fatal and non-fatal self-harm in primary care data; appendix 4 table 13 includes the lists of ICD-10 codes using in studies of linked data.

#### **Discussion**

#### Results overview

This review summarised the definitions and combinations of codes used to identify outcomes of anxiety, depression, dementia and cognitive impairment, fatigue, pain, male sexual dysfunction, sleep disorder and self-injurious behaviour in primary care databases of patients in the UK. The list of codes used in the original studies was obtained for approximately half of the papers; the lack of detailed information on the definition of the outcomes in most studies raises important questions as to whether studies can be replicated by others. In the studies where the codelist was available, for all outcomes, there was substantial heterogeneity in the type of codes included (e.g. diagnoses and symptoms) and drugs selected to identify outcomes; for the remaining studies, the details provided in the original publications suggest a similar pattern. We also noted considerable variability in the clinical definition of some outcomes (e.g. inclusion/exclusion of bipolar disorders in studies of depression). Validation of codes used to identify these outcomes was rarely carried out; where done, positive predictive values of case definitions were variable but mostly above 80%. To overcome these issues in the current context of limited number of studies with validation efforts, it is imperative that researchers develop, validate and make publicly available code lists for these outcomes.

#### Strengths and limitations

This review is based on an extensive search of the studies involving EHRs in the UK. Errors in study selection and data extraction were minimized by the independent assessment of the studies by two investigators. We contacted the authors of all original studies where the list of codes had not been provided in the original publication to seek this information; this largely improved the number of studies for which lists of codes were available, and contributed to a more detailed characterisation of the combination of codes used to defined mental health outcomes in primary care databases of EHR in the UK.

However, this review has limitations. Some relevant studies may have been missed due to imperfect search terms, as there is no MESH term for the primary care databases, and studies could be potentially missed if the keywords did not appear in the title and abstract, or due to inaccurate indexing in the publications database. We attempted to minimise the risk of missing potential eligible studies by using broad search terms incorporating both indexing terms and keywords, two databases with different indexing systems, and an additional manual check of the eligible studies and list of bibliographic references from the main EHR

databases. We only considered studies where mental health or quality of life variables were the outcomes of interest, limiting generalisability to other contexts. For example, we excluded studies where these variables were covariates because we expected that detailed information about covariate definitions would rarely be available. We also excluded studies where the mental health or quality of life variable was used to define the patient population (e.g. a study of risk of stroke in depressed patients), on the basis that decisions about how to define cases may have had quite different motivations in this context, compared with studies where the condition was the outcome of the study, making case definitions difficult to meaningfully compare. We included studies that explicitly referred to using prescription data as a proxy for the definition of the condition (e.g. treated depression assessed by proxy of antidepressant intake), but we acknowledge that it was not always clear to decide whether treatment of the condition was being used to define the condition. This could have resulted in a few studies erroneously excluded, even though this should have been minimised by the duplication of the search and study selection process by two researchers working independently, with discussion of all discordant results. It is unclear if the list of codes that could not be obtained differ in any systematic way to the ones obtained. Some authors expressed concerns over intellectual property when sharing the list of codes, and this may have been a bigger concern among those who put a lot of time and thought into their codelists; on the other hand, authors who have concerns about the quality of their codelist may have been less willing to share them. Lastly, we summarised the types of codes used to define the outcome based on what was stated in original studies' methods sections (because code lists were not available for all studies), but this may have been inaccurate: for example, some studies that reported in their methods only including diagnosis codes then provided code lists that appeared to also contain symptom codes.

# Availability of the list of codes

The list of codes was provided in the original publications for just over a quarter of the studies. Contacting the authors resulted in codelists being made available for approximately half of the studies. For the remaining studies, the authors either could not be contacted (e.g. moved institutions, retired) or could not locate the relevant codelist (including for some studies where the paper had stated that the codelist would be available on request). Provision of codelists within the publication or in a web repository would eliminate the difficulties of authors having to be contacted and archived codelists retrieved. Most journals currently accept codelists in supplementary appendices. Codelists were hardly ever obtained for older studies, especially those published before 2000, when email addresses were not

routinely included in the details of the corresponding authors. We searched for alternative contacts in these cases, but not always successfully.

### Variability in the definition of cases and codelists

### Anxiety and depression

Anxiety was often defined with diagnostic and symptoms codes, and in a few studies by the prescription of anxiolytics and hypnotics. Even though the sensitivity of symptoms codes for anxiety is expected to be high, the positive predictive value is unknown. Anxiolytics may also result in misclassification of the outcomes, as they are currently discouraged as first line of treatment for anxiety [12] and are often prescribed for management of other conditions such as insomnia. No study considered antidepressants in the definition of anxiety even though these are currently used to manage anxiety [12]; this may have resulted in cases of anxiety treated with antidepressants, and where no Read code was available, being missed.

The inclusion/exclusion of codes for symptoms may have a larger impact in the definition of depression, as it has been shown that GPs switched from diagnostic to symptoms codes after the introduction of performance indicators in the GP contract Quality and Outcomes Framework in 2006 [11] and under claims that depression was being over diagnosed [30, 31]. Codelists solely relying on Read codes for diagnosis of depression are therefore likely to have low sensitivity, but the impact of including/excluding a specific code will be variable, depending on how often that code is used by GPs at the point of providing care. In a few studies, depression was defined by proxy of antidepressant prescribing, alone or in combination with Read codes for symptoms/diagnosis. Considering antidepressant prescribing in the definition of depression has several issues. Certain types of antidepressants are currently used as first line of treatment for other conditions, such as pain and anxiety, and the studies relying solely on this information will be affected by misclassification of the outcome; some studies took this into account by excluding low dose tricyclic antidepressants, usually prescribed for pain, from their list of codes used to define depression [32-34]. Amongst the studies that did include antidepressants in their definition. there was heterogeneity in the group of antidepressants included, with some studies selecting only a few specific drugs commonly used for the treatment of depression. Studies defining depression by proxy of antidepressant prescribing only are likely also to be affected by changes in the behaviour of antidepressant prescribing. In 2004, the National Institute for Clinical Excellence (NICE) issued guidelines discouraging antidepressants for mild depression [35], and in 2006 a performance indicator in the UK GP Quality and Outcomes Framework pay for performance was introduced for depression severity assessed with validated symptoms questionnaires [36]. Following this measure, the proportion of new cases of pharmacologically treated depression decreased (from 73% in 2003 to 61% in 2012 [37]), but the proportion of recurrent episodes pharmacologically treated increased from 74.3% to 77.8% [37]. Treatment duration times with antidepressants also increased over time [38]; this may affect the number of new episodes of depression identified in the studies. In several studies, the authors chose to report separate results for antidepressant prescribing, without using this information to ascertain the outcome of depression [39, 40]; this may partially be due to the difficulties of ascertaining the indications for which antidepressants were prescribed. John et al, 2016 explored the indications of antidepressants; more than half of the new antidepressant prescriptions were for depression, with increasing but low incidence of prescriptions for pain and anxiety, but the authors could not identify the indication for antidepressants in 17% of the new prescriptions [41].

Regardless of the type of codes included, authors will need to often choose the inclusion/exclusion of codes relating to the clinical profile of the patients. This may have a particular impact for conditions that are highly co-morbid. For example, the code for 'mixed anxiety and depression' was sometimes used in the definition of anxiety and in the definition of depression; anxiety and depression are highly co-morbid and the inclusion/exclusion of these patients may have an impact on the results. In addition, for depression, the inclusion of codes related to depression in the context of bipolar disease, dementia and schizophrenia may raise issues as to whether it represents a primary depressive episode.

Part of the heterogeneity in the list of codes used to identify these outcomes may be explained by the complexity of these conditions and by the purpose for which these data are collected. Electronic health care data are primarily collected to provide patients with treatment, and distinctions between diagnosis and symptoms may have less weight at the point of care than when researchers aim to define these conditions using data routinely collected.

### Fatal and non-fatal self-harm

Routinely collected primary care data was shown to have low sensitivity to detect cases of suicide [29]. Thus, record linkage to ONS mortality data is of interest; this has the advantage of including causes of death other than suicide. Ascertainment of the cause of death is not always straightforward when the death is non-natural, and several studies have included cases of accidents and open verdicts in their case definition. Open verdicts have been shown to include many similarities with suicides, and several are later registered as suicides; these are recommended to be included in studies of suicide [42]. Studies varied on whether cases

of self-harm without suicidal ideation were included (e.g. Rubino et al reviewed free text to exclude those who did not seem to have attempted suicide [43]). For self-harm, linkage to HES data will allow for more cases to be identified [29], even though authors must consider the balance between reduction of sample size and ascertainment of the outcome, as linkage is only available for a subset of patients.

#### Pain

The aetiology and location of pain in the studies involved in this review varied due to our broad inclusion criteria. When pharmacological treatment was included in the definition of pain, this was most often done with prescriptions of antidepressants and anti-epileptics. Antidepressants such as first generation tricyclic antidepressants have been used for over 30 years to manage neuropathic pain (e.g. amitriptyline, doxepin, clomipramine and dosulepin) [44]. Antiepileptic drugs reduce neuronal excitability and alleviate pain through several mechanisms [44].

#### Other outcomes

We considered cognitive dysfunction as a composite outcome including studies from mild to severe impairments such as those in dementia; between 10% to 20% of the patients with mild cognitive impairment are expected to convert to dementia [45, 46]. Fewer studies had fatigue, sexual dysfunction and sleep disorders as the outcome, and no study was eligible for female sexual dysfunction. The definition of these outcomes varied little across the studies but the small numbers preclude firm conclusions. It has been reported that chronic fatigue increased prior to 2001 [3], but decreased between 2001 and 2013 [47], possibly due to the introduction of diagnostic criteria from NICE [48]; in the same period, increases were noted in the diagnoses of fibromyalgia [47]. This may reflect the complexity of diagnosing fatigue, which is done by exclusion of other causes only [48].

#### Validation

Outcomes identified in EHRs may lack of validity: a person meeting the operational definition for the outcome based on specific codes may not have the diagnosis or vice-versa. Only a small number of studies assessed validity in their studies, and this was almost always about assessing positive predictive value of the case definition, with sensitivity and specificity rarely explored. Of these, some studies only stated that validation had been carried out, but did not report the results, which makes the performance of the case definition unclear. However, the studies that reported results tended to show a high proportion of cases confirmed by their primary care physician or by further investigations (i.e. a high positive predictive value). This

is in accordance with the results of two systematic reviews that assessed the validity of the diagnostic coding within the CPRD primary care database [8, 9]. Studies in which identified cases were validated by the GP did not usually specify how this validation was done – i.e. whether the GPs confirmed cases by consulting the EHR, referring to additional information, relying on memory, or using other methods. If GPs simply checked the same EHR used to identify the case in the first place, resulting estimates of positive predictive value would be expected to be high, but may be misleadingly optimistic.

### **Implications**

Mental health and quality of life-related outcomes are difficult to identify in EHR databases and thus extra care needs to be used when defining these outcomes. The use of a particular code varies between GP practices; for example, a study on the inter-practice use of Read codes for diabetes showed that the most generic code was used in 14% to 98% of the patients with diabetes in the practice [49]. GPs can derive Read codes for their practice; this may raise issues with new codes being added over time [50], and codelists that need to be updated. It is important that authors clearly document the process of selection of the codes, so that these are available with clear rationale if needed [5]. Repositories of lists of codes allow researchers to access codelists easily. However, these repositories also need funding to be maintained, which limits their stability and consequently their use. Some studies of depression and dementia referred to using the Read codes recommended by the Quality and Outcomes Framework [36]; these are likely to be highly specific. It is also important to better understand the patterns of recording of some of these conditions, as changes in the patterns of use of the codes may have impact in the list of codes chosen. The inclusion of codes for symptoms and prescriptions must consider what is known about the use of codes by GPs at the point of patient providing care, as data recording in this setting is primarily intended to support clinical care. Future works are need to understand how GPs conceptualise mental health problems, as these are expected to have less stringent definitions than psychiatrists, and this could provide insights into more meaningful case definitions.

Validation of the outcomes appears to be essential to understand the validity of case definitions. A balance between sensitivity and specificity may be considered depending on the aim of the study [5]; for depression, for example, the inclusion of terms such as 'Low mood' may increase sensitivity, at the expense of decreased specificity, as some individuals who would not fit more stringent criteria for a diagnosis will be incorrectly classified as depressed [5]. A particular challenge with validation of primary care-based mental health outcomes is quantifying false negatives, which requires linkage to a high quality external

source of information, to identify cases that may have been "missed" in primary care records. The Mental Health Dataset (MHDS), which includes individual patient records of adults seeking mental health services in secondary care and has recently been made available for linkage with CPRD primary care databases, represents an opportunity to assess the proportion of false negatives identified with the code lists, at least for more severe outcomes. Until then, sensitivity analysis using different lists of codes should be done, so that results can be compared and the impact of using different code lists evaluated. The consequences of underascertaining mental health outcomes are likely to depend on study design; in a cohort design this will not generally result in biased relative risks, whereas in a case-control context, a bias towards the null is likely. Studies might consider to use internal validation strategies, by assessing the proportion of patients referred for treatment or prescribed a relevant pharmacological agent.

Primary care databases of electronic health records have made important contributions to medicine worldwide, particularly in the fields of infectious, respiratory and cardiovascular diseases. The burden of mental disorders in high-income countries has increased substantially in the last decades [51], and more research is needed to be better understand these conditions. Primary care databases of EHRs have potential to make huge contributions to this area but, for this to happen, we need coordinated efforts across funding and research organisations to improve data quality. For example, if scientific journals make a requirement of having publically available lists of codes, this would likely encourage researchers to spend more time defining the outcomes and potentially seek funding for validation studies, which in turn could increase the awareness of funding institutions for the importance of assessing data quality in projects using these data. In the meantime, transparency in the list of codes used to define these outcomes and reporting of sensitivity analysis with different lists of codes are key.

Despite the difficulties of assessing each separate outcome, we must take into account that mental health disorder symptoms often overlap, and is difficult to disentangle what is attributable to each condition. Lastly, these conditions have a long period of exposure to medication after symptoms have disappeared, besides a high probability of relapse and recurrence [52], which may raise issues on whether the condition is incident or prevalent.

#### **Conclusions**

Detailed information about codes used to identify outcomes of anxiety, depression, fatigue, cognitive dysfunction, sexual dysfunction, pain, sleep disorders, and fatal and non-fatal self-harm in studies using electronic health records from primary care databases in the United Kingdom (UK) was unavailable for around half of studies of these outcomes. Where available, there was substantial heterogeneity in the list of codes used to ascertain cases. Most studies did not validate case definitions, though when this was done, positive predictive values were generally high. This review focused on common mental health disorders and quality of life outcomes, but our conclusions are likely to be generalizable to other mental health outcomes. Caution is needed when interpreting and comparing results between studies, as heterogeneity in case definitions may be large. Future studies should fully report outcomes definitions, use sensitivity analysis to mitigate uncertainties about the impact of the case definition on studies' reported outcomes, and seek to validate the list of codes used to identify these outcomes.

#### **Authors' contributions**

HC, RW and KB designed the study. HC and HS screened the bibliographic references and performed data extraction. HC wrote the first draft of the article. All authors revised the article for important intellectual content and agreed with the final version.



## Figure legend

Figure 1 - Systematic review flowchart.



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Table 1. Characteristics of the studies included in the systematic review.

	Anxiety		Anxiety		De	pression	depi (con	ety and ression nposite come)	cc	mentia/ gnitive pairment	ı	Fatigue		ı	Pain	dy	Sexual sfunction (male)	Sle	ерс	disorders		nd non- lf-harm
	N	%	N	%	N	%	N	%	N	%	N	ı	%	N	%	N	1	%	N	%		
Total number of studies	12	100.0	42	100.0	2	100.0	27	100.0	6	100.0	8	3	100.0	6	100.0	2	2	100.0	41	100.0		
Main primary care database																						
CPRD	7	58.3	24	57.1	0	0.0	21	77.8	5	83.3	5	5	62.5	4	66.7	1	1	50.0	31	75.6		
PCCIU	0	0.0	1	2.4	0	0.0	0	0.0	0	0.0	C	)	0.0	0	0.0	(	)	0.0	0	0.0		
THIN	5	41.7	10	23.8	1	50.0	5	18.5	1	16.7	C	)	0.0	2	33.3	(	)	0.0	6	14.6		
Other	0	0.0	7	16.7	1	50.0	1	3.7	0	0.0	3	3	37.5	0	0.0	1	1	50.0	4	9.8		
Outcome ascertained using linked data (HES or ONS)																						
Yes	1	8.3	2	4.8	0	0.0	2	7.4	0	0.0	C	)	0.0	0	0.0	(	)	0.0	9	22.0		
No	11	91.7	40	95.2	2	100.0	25	92.6	6	100.0	8	3	100.0	6	100.0	2	2	100.0	32	78.0		
Code list availability																						
Total number of studies with code lists available	5	41.7	17	40.5	2	100.0	17	63.0	3	50.0	4	1	50.0	3	50.0	1	1	50.0	21	51.2		
Stated in publication	2	16.7	7	16.7	1	50.0	10	37.0	1	16.7	2	2	25.0	2	33.3	1	1	50.0	17	41.5		
Cited another paper or web repository	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	I	12.5	0	0.0	(	)	0.0	0	0.0		
Obtained from authors	3	25.0	10	23.8	1	50.0	7	25.9	2	33.3	1		12.5	1	16.7	(	)	0.0	4	9.8		
Total number of studies with code lists not available Cited another paper or web	7	58.3	25	59.5	0	0.0	10	37.0	3	50.0	4	1	50.0	3	50.0	1	1	50.0	20	48.8		
repository but couldn't obtain	1	8.3	1	2.4	0	0.0	1	3.7	1	16.7	C	)	0.0	0	0.0	(	)	0.0	3	7.3		
Stated available on request but didn't provide	2	16.7	4	9.5	0	0.0	3	11.1	2	33.3	C	)	0.0	1	16.7	1	1	50.0	0	0.0		
Not mentioned in the paper and didn't provide	4	33.3	19	45.2	0	0.0	6	22.2	0	0.0	4	1	50.0	2	33.3	(	)	0.0	17	41.5		
Type of codes available ‡																						
Read/medical codes	5	100.0	14	82.4	2	100.0	17	100.0	3	100.0	4	1	100.0	3	100.0	1	1	100.0	8	42.1		
OXMIS codes	0	0.0	3	17.6	0	0.0	0	0.0	0	0.0	2	2	50.0	0	0.0	(	)	0.0	8	42.1		
ICD codes	1	20.0	2	4.8	0	0.0	2	11.7	0	0.0	C	)	0.0	0	0.0	(	)	0.0	9	47.4		

		A	nxiety		Dep	oression	ı	dep (co	ciety and pression mposite tcome)		CO	mentia/ ognitive oairment		Fa	itigue			Pain		dy	Sexual /sfunction (male)	n	Sleep	disorder	s		nd non- lf-harm
		N	%		N	%		N	%		N	%	N	l	%		N	%		N	%		N	%		N	%
-	Definition of the outcome † Study described that codes for diagnosis were included																										
)	Yes [in isolation*]	12	100.0	[5]	37	88.1	[14]	2	100.0	[0]	27	100.0 [19	9] 6	6	100.0	[1]	-	-		5	83.3	[2]	2	100.0	[2]	-	-
	No	0	0.0		5	11.9		0	0.0		0	0.0	O	)	0.0		-	-		1	16.7		0	0.0		-	_
<u>.</u>	Unclear	0	0.0		0	0.0		0	0.0		0	0.0	O	)	0.0		-	_		0	0.0		0	0.0		_	-
,	Study described that codes for symptoms were included																										
)	Yes [in isolation*]	4	33.3	[0]	6	14.3	[0]	2	100.0	[0]	6	22.2 [0	)] 5	5	83.3	[0]	8	100.0	[6]	0	0.0	[0]	0	0.0	[0]	-	-
,	No	6	50.0		33	78.6		0	0.0		20	74.1	1		16.7		0	0.0		4	66.7		2	100.0		-	-
}	Unclear	2	16.7		3	7.1		0	0.0		1	3.7	O	)	0.0		0	0.0		2	33.3		0	0.0		-	-
) )	Study described that prescriptions were included																										
	Yes [in isolation*]	1	8.3	[0]	21	50.0	[6]	2	100.0	[0]	4	14.8 [0	0] 0	)	0.0	[0]	2	25.0	[0]	3	50.0	[1]	0	0.0	[0]	-	-
	No	11	91.7		21	50.0		0	0.0		23	85.2	6	6	100.0		6	75.0		3	50.0		2	100.0		-	-
	Unclear	0	0.0		0	0.0		0	0.0		0	0.0	0	)	0.0		0	0.0		0	0.0		0	0.0		-	-
} ;	Handling of outcomes occurring prior to study period																										
,	Excluded	5	41.7		15	35.7		0	0.0		21	77.8	3	3	50.0		3	37.5		1	16.7		1	50.0		7	17.1
}	Adjusted/matched for	2	16.7		8	19.0		0	0.0		1	3.7	1		16.7		0	0.0		3	50.0		0	0.0		10	24.4
)	Stratified results	1	8.3		3	7.1		2	100.0		0	0.0	1		16.7		0	0.0		3	50.0		0	0.0		4	9.8
)	Not stated	3	25.0		11	26.2		0	0.0		1	3.7	0	)	0.0		3	37.5		0	0.0		1	50.0		15	36.6
)	Not applicable **	2	16.7		8	19.0		0	0.0		4	14.8	2	<u> </u>	33.3		2	25.0		0	0.0		0	0.0		9	22.0
}	Validation of list of codes																										
1	Yes	2	16.7		5	11.9		1	50.0		5	18.5	O	)	0.0		3	37.5		0	0.0		0	0.0		9	22.0
	None stated	10	83.3		37	88.1		1	50.0		22	81.5	6	6	100.0		5	62.5		6	100.0		2	100.0		32	78.0
, , 	Study aiming at validating the outcome	0	0.0		0	0.0		1	50.0		0	0.0	0	)	0.0		0	0.0		0	0.0		0	0.0		3	7.3

- † Defined based on the description of the outcome provided in the original studies. Studies were considered to have included symptoms in the definition of the outcomes when this information was explicitly stated by the authors. Pain was considered a symptomatic outcome, regardless of how it was described in the original publications.
- \* The number of studies where the definition of the outcome included only this category of codes is provided in squared brackets.
- ‡ Refers only to studies providing codelists. A study may include more than one type of codes.
- \*\* Depends on study design and outcome. For example, it includes studies describing the epidemiology of first ever diagnoses or focusing on completed suicide only.

CPRD – The Clinical Practice Research Datalink; HES – Hospital Episodes Statistics; ICD – International Classification of Diseases; ONS – Office for National Statistics; OXMIS – Oxford Medical Information System; PCCIU – Primary Care Clinical Informatics Unit Research Data Set; THIN – The Health Improvement Network.

**Table 2.** Clinical characteristics of the outcomes of interest in the studies for which the list of codes was available.

Study included codes for:	N	(% of total with code lists available)
Anxiety	5	100.0
Generalized anxiety disorder	5	100.0
Panic disorder/attacks	4	80.0
Phobia	4	80.0
Mixed anxiety and depression	3	60.0
Stress-related disorders	2	40.0
Obsession-compulsion	1	20.0
Post-traumatic stress disorder	1	20.0
Depression	17	100.0
Unipolar depression	17	100.0
Depression with psychotic symptoms	14	82.4
Mixed anxiety and depression	10	58.8
Bipolar disorder	4	23.5
Depression in dementia	3	17.6
Dementia / cognitive impairment	17	100.0
Alzheimer's disease	13	81.3
Vascular dementia	13	81.3
Frontotemporal dementia	12	75.0
Lewy Bodies disease	11	68.8
Mild cognitive impairment only	3	17.6
Fatigue	3	100.0
Chronic fatigue syndrome/ myalgic encephalitis	3	100.0
Neurasthenia	3	100.0
Post viral fatigue syndrome	3	100.0
Fibromyalgia	2	66.7
Pain	4	100.0
Chest pain	1	25.0
Chronic widespread pain	1	25.0
Musculoskeletal pain	1	25.0
Unspecified abdominal pain	1	25.0
Sexual dysfunction (male)	3	100.0
Erectile dysfunction	3	100.0
Other male sexual dysfunctions	1	33.3
Sleep disorder	1	100.0
Insomnia	1	100.0
Hypersomnia	1	100.0
Fatal and non-fatal self-harm	21	100.0
Completed suicide	17	80.9
Completed suicide only	8	38.1
Completed and attempted suicide only	6	28.6
Completed and attempted suicide, and self-harm	4	19.1
Included deaths of undetermined intent	7	33.3
Attempted suicide / self-harm	4	19.1

**Table 3.** Pharmacological categories used in the studies that used drug prescriptions to identify patients with the outcome of interest.

Outcome	Number of studies	%
Anxiety	12	100.0
Studies of anxiety that used drugs prescriptions only	0	0.0
Studies of anxiety that used drugs prescriptions	1	8.3
Diazepam and lorazepam	1	8.3
Depression	42	100.0
Studies of depression that used drugs prescriptions only	6	14.3
Studies of depression that used drugs prescriptions	21	50.0
Antidepressants, categories not further specified	15	35.7
Antidepressants, categories further specified	6	14.3
Tricyclic and related antidepressant drugs	3	7.1
Monoamine-oxidase inhibitors	3	7.1
Selective serotonin re-uptake inhibitors	6	14.3
Other antidepressant drugs	3	7.1
Dementia	27	100.0
Studies of dementia that used drugs prescriptions only	0	0.0
Studies of dementia that used drugs prescriptions	4	14.8
Anticholinesterases	4	14.8
Dopaminergic drugs	4	14.8
Pain	8	100.0
Studies of pain that used drugs prescriptions only	2	25.0
Studies of pain that used drugs prescriptions	2	25.0
Analgesics, not otherwise specified	2	25.0
Antidepressants	2	25.0
Anti-epileptics	2	25.0
Anaesthetics	2	25.0
Sexual dysfunction (male)	6	100.0
Studies of sexual dysfunction that used drugs prescriptions only		16.7
Studies of sexual dysfunction that used drugs prescriptions	3	50.0
Phosphodiesterase type-5 inhibitors	2	33.3
Prostaglandin analogues and prostamides	1	16.7

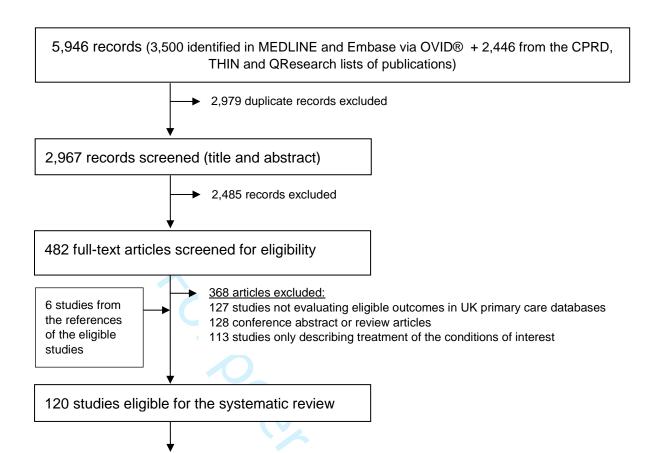
**Table 4.** Methods and results of the validation of the outcomes reported in the original studies.

Outcome and	Validation method	# case validations	% of cases confirmed					
study authors		completed/ # case validations attempted						
Anxiety								
Martin-Merino	GP Questionnaire	135/140	Among pharmacologically treated: 73.5%;					
2010			Among not pharmacologically treated: 89.6%					
Meier 2004	Record review	nr/nr	nr					
Depression								
Becker, 2011	Sensitivity analysis with different definitions	nr/nr	nr					
Hagberg, 2016	Record review	nr/nr	nr					
Martin-Merino, 2010	GP questionnaire	135/140	89.6%					
Meier, 2004	Record review	nr/nr	nr					
Yang, 2003	Record review	30/nr	83.3%					
Anxiety and dep	ression (composite outcome)	<u> </u>						
John, 2016	Compared 12 EHR algorithms to results of the Mental Health Inventory (MHI-5), a subscale of SF-36	2,799*	Between 61% and 76%, depending on the algorithm.					
Dementia/ cogni								
Imfeld, 2015 &	GP questionnaire	nr/120	Alzheimer's disease: 79%;					
Imfeld, 2013		NI/ 120	Vascular dementia: 74%.					
Dunn, 2005	GP asked to confirm diagnosis	50/200	100%					
Dunn, 2005	GP questionnaire	95/~100	83%					
Strom, 2015	GP questionnaire	86/100	88.4%					
Strom, 2015 Strom, 2015	GP questionnaire Review of free text	86/100 1047/1048	1.5% patients excluded as not having the diagnosis; 42.4% confirmed as having definite memory loss, 36.8% possible memory loss, 3.2% undetermined, and 16.0% unknown.					
	·		1.5% patients excluded as not having the diagnosis; 42.4% confirmed as having definite memory loss, 36.8% possible memory loss, 3.2% undetermined, and					
Strom, 2015	·		1.5% patients excluded as not having the diagnosis; 42.4% confirmed as having definite memory loss, 36.8% possible memory loss, 3.2% undetermined, and					
Strom, 2015	Review of free text	1047/1048	1.5% patients excluded as not having the diagnosis; 42.4% confirmed as having definite memory loss, 36.8% possible memory loss, 3.2% undetermined, and 16.0% unknown.					

Outcome and	Validation method	# case	% of cases confirmed
study authors		validations completed/ # case validations attempted	
Self-harm			
Thomas, 2012	Comparison of cases of suicide and self-harm identified in CPRD with Read codes, with the cases identified in CPRD data linked to HES data, and published self-harm incidence data.	74236*	68.4%
Suicide (attempt	ted and completed)		
Hagberg, 2016	Record review	nr/nr	nr
Haste, 1998	GP asked to confirm suicides	77% of uncertain deaths/nr	82%
Jick, 1995	Record review	nr/nr	nr
Meier, 2004	Record review	nr/nr	nr
Schuerch, 2016	Outcomes identified in CPRD were compared to those identified in CPRD linked to HES and ONS data.	nr/nr	Compared to CPRD data, the frequency of the outcomes in linked data was approximately 3 times higher.
Yang, 2003	Record review	30/nr	83.3%
Suicide (comple	ted)		
Arana, 2010	GP questionnaire and record review	nr/132	97%
Arana, 2010	GP questionnaire and record review	nr/86	87%
Hall, 2009	GP questionnaire and record review	33/33	21.2%
Thomas, 2012	Comparison of cases of suicide and self-harm identified in CPRD with Read codes, with the cases identified in CPRD data linked to ONS mortality data, and national suicide rates.	1767*	59.7% for men; 46.0% for women.

CPRD – Clinical Practice Research Datalink; EHR – electronic health records; GP – general practitioner; HES – Hospital Episode Statistics; nr – not reported; MHI-5 - Mental Health Inventory 5 items; ONS – Office for National Statistics; SF-36 – 36-item Short Form Health Survey.

<sup>\*</sup> Validation attempted and completed for all patients identified in electronic health records database.



Number of studies
12
42
2
27
6
8
6
2
41

Identification of mental disorders and quality of life outcomes in primary care databases in the United Kingdom: systematic review protocol

#### Introduction

The number of studies conducted using electronic health records data largely increased in the last couple of decades. While these data sources are readily available and allow for studies to be conducted quicker that what it would be otherwise be possible with prospective designs, this also raises questions about variables definitions using data that are collected with a primary purpose that is not research.

### **Objective**

To systematically review and summarise the strategies used to define such outcomes in previous studies, and the extent to which case definitions were validated.

#### **Methods**

### Information sources

The following databases will be searched to identify potentially eligible studies:

- MEDLINE, via Ovid
- Embase, via Ovid
- CPRD, THIN and QResearch publications databases
- Reference lists of the eligible articles

#### Search strategy

- Electronic databases: search expressions provided at the end of this document.
- CPRD list of publications: hand screening.
- Backwards citation tracking: hand screening.

### Outcomes of interest

- Anxiety
- Depression
- Fatigue
- Dementia
- Mild cognitive impairment
- Pain
- Female sexual dysfunction
- Sleep disorders
- Self-harm
- Suicide
- Composite outcomes of one or more of the above.

### Inclusion criteria

- Studies in which patients were selected from primary health care databases in the UK
- Studies where the outcome was one of the outcomes of interest for this review

### **Exclusion criteria**

- Conference abstracts, study protocols, or review articles
- Studies providing data only on the treatment of an eligible mental health outcome

### Selection process

The references will be screened in three consecutive phases by two researchers. In the first phase, the title and the abstract of each study will be read to determine their eligibility for the study by applied the pre-defined exclusion criteria. If the information provided in the title and abstract does not allow the unequivocal exclusion of the study, the full text will be considered. In the second phase, the full-text of each study considered eligible in the first phase will be obtained and read, in order to determine the eligibility considering all the information in the paper. If the list of codes is provided, the paper will be included in the review. Studies not providing the list of codes will be assessed in a third phase, where the corresponding author of the papers will be contacted by email and invited to provide the list of the search terms involved.

#### Data extraction

The following data will be abstracted from the original reports, if available:

- Study design
- Adverse mental health outcome studied
- Database applied
- Use of linked data, and if yes, to which databases
- Type of codes used to define the condition (Read, ICD, OXMIS, etc.)
- Handling of previous disease episodes
- Availability of list of codes
- Medications used to define the conditions
- List of codes used to define the specific mental health outcome in the database
- Type of codes includes (symptoms, diagnoses, referrals, etc.)
- Validation of the list of codes used
- Results from the validation

## Study records

All records will be imported into EndNote X7. Duplicates will be manually removed.

A backup of the search expression applied and the records obtained from each database, as well as the date of last update and run, will be kept safe.

A record of excluded/included studies, with the respective motives, will be kept in Microsoft Office Excel.

# Data synthesis

Descriptive tables will be produced for each mental health outcome. The list of codes will be revised for sources of heterogeneity, and the results will be reported in text.

4

## **Search expressions**

## MEDLINE search expression, applied via OVID, 28 June 2018

- 1. CPRD.mp.
- 2. Clinical Practice Research.mp.
- 3. GPRD.mp.
- 4. General Practice Research Database.mp.
- 5. The Health Improvement Network.mp.
- 6. QRESEARCH.mp.
- 7. DIN-LINK.mp.
- 8. VAMP.mp.
- 9. Value Added Information Medical.mp.
- 10. (THIN adj1 (database or dataset or data)).mp.
- 11. (Read adj1 (term\* or code# or codification)).mp.
- 12. (diagnostic adj1 (term\* or code#)).mp.
- 13. Disease Analyzer.mp.
- 14. Primary care clinical informatics unit.mp.
- 15. PCCIU.mp.
- 16. (optimum patient care adj4 data\*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
- 17. OPCRD.mp.
- 18. health information network.mp.
- 19. health improvement network.mp.
- 20. Q research.mp.
- 21. (ResearchOne or (Research One adj2 data\*)).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
- 22. Doctors Independent Network.mp.
- 23. SAIL.mp.
- 24. (SAIL adj4 data\*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] 25. mediplus.mp.
- 26. ((general practice or primary care or primary health care) adj4 data\*).mp.
- 27. longitudinal patient database.mp.
- 28. ((EHR or eletronic health record\*) adj4 data\*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
- 29. health care database\*.mp.
- 30. exp "mental disorders"/
- 31. exp "behavior and behavior mechanisms"/
- 32. exp "behavioral disciplines and activities"/
- 33. exp Psychological Phenomena/
- 34. exp fatigue/
- 35. exp pain/
- 36. exp "Sleep Wake Disorders"/
- 37. exp central nervous system depressants/

1

- 38. exp muscle relaxants, central/
- 39. exp psychotropic drugs/
- 40. exp sleep aids, pharmaceutical/
- 41. (anxiety or anxious\* or panic or anxiolytic\* or (stress not oxidat\*) or depressi\* or dysthymia or antidepress\* or sexual or erectile or suicid\* or self-harm or hopeless\* or sleep or insomnia or hypnotic\* or cognit\* or chemo-fog or chemo-brain or pain or fatigue or (mental adj1 (disorder or disorders)) or antipsychotic).mp.
- 42. 30 or 31 or 32 or 33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 or 41
- 43. exp United Kingdom/
- 44. (UK or Britain or British or England or English or Scotland or Scottish or Wales or Welsh Ireland).mp.
- 45. 43 or 44
- 46. or/1-29
- 47. 42 and 45 and 46

# EMBASE search expression, applied via OVID, 28 June 2018

- 1. CPRD.mp.
- 2. Clinical Practice Research.mp.
- 3. GPRD.mp.
- 4. General Practice Research Database.mp.
- 5. The Health Improvement Network.mp.
- 6. QRESEARCH.mp.
- 7. DIN-LINK.mp.
- 8. VAMP.mp.
- 9. Value Added Information Medical.mp.
- 10. (THIN adj1 (database or dataset or data)).mp.
- 11. (Read adj1 (term\* or code# or codification)).mp.
- 12. (diagnostic adj1 (term\* or code#)).mp.
- 13. Disease Analyzer.mp.
- 14. Primary care clinical informatics unit.mp.
- 15. PCCIU.mp.
- 16. (optimum patient care adj4 data\*).mp.
- 17. OPCRD.mp.
- 18. health information network.mp.
- 19. health improvement network.mp.
- 20. Q research.mp.
- 21. (ResearchOne or (Research One adj2 data\*)).mp.
- 22. Doctors Independent Network.mp.
- 23. SAIL.mp.
- 24. (SAIL adj4 data\*).mp.
- 25. mediplus.mp.
- 26. ((general practice or primary care or primary health care) adj4 data\*).mp.
- 27. longitudinal patient database.mp.
- 28. ((EHR or eletronic health record\*) adj4 data\*).mp.
- 29. health care database\*.mp.
- 30. or/1-29
- 31. UK.mp.
- 32. United Kingdom.mp.
- 33. England.mp.
- 34. Wales.mp.
- 35. Scotland.mp.
- 36. Northern Ireland.mp.

- 37. 31 or 32 or 33 or 34 or 35 or 36
- 38. exp central depressant agent/
- 39. exp central muscle relaxant/
- 40. exp psychotropic agent/
- 41. antidepress\*.mp.
- 42. antipsychotic.mp.
- 43. anxiolytic.mp.
- 44. exp mental capacity/ or exp mental compliance/ or exp mental concentration/ or exp mental deficiency/ or exp mental deterioration/ or exp mental development/ or exp mental development assessment/ or exp mental disease/ or exp mental disease assessment/ or exp mental dissociation/ or mental function/ or exp mental health/ or exp mental health care/ or exp mental health center/ or exp mental health organization/ or exp mental health research/ or exp mental health service/ or exp mental hospital/ or exp mental stress/
- 45. depressi\*.mp.
- 46. dysthymia.mp.
- 47. catatonia.mp.
- 48. self-injur\*.mp.
- 49. self injury.mp.
- 50. self mutilation.mp.
- 51. suicid\*.mp.
- 52. self-harm.mp.
- 53. anxious\*.mp.
- 54. anxiety.mp.
- 55. panic.mp.
- 56. catastrophi\*.mp.
- 57. phobia.mp.
- 58. phobic.mp.
- 59. neurotic.mp.
- 60. compulsive.mp.
- 61. bipolar.mp.
- 62. neurotic.mp.
- 63. personality.mp.
- 64. psychotic.mp.
- 65. psychosis.mp.
- 66. paranoid.mp.
- 67. delusional.mp.
- 68. sexual.mp.
- 69. insomnia.mp.
- 70. exp insomnia/
- 71. exp sleep/ or exp sleep disorder/
- 72. exp somatoform disorder/
- 73. exp substance abuse/ or exp "substance use"/
- 74. exp stress/
- 75. or/38-74
- 76. 30 and 37 and 75

## Changes from the protocol with justification

The protocol specified that only female sexual dysfunction was of interest because this review is part of a PhD on women with a history of breast cancer. During the process of conducting the review, however, we decided to drop the gender restriction, as the review would be of more general use as a standalone publication.



Appendix 2. Template email sent to corresponding authors of the studies for which a list of codes wasn't provided in the publication.

Dear [corresponding author],

I'm currently doing a PhD about mental health and quality of life in breast cancer survivors. As part of my PhD, I'm conducting a systematic review of the studies that assessed mental health outcomes using electronic health records. The aim of the review is to summarise how studies have identified these outcomes in primary care databases in the UK; the review will be part of my PhD thesis and we are also planning to publish it in a peer-reviewed journal in due course.

I'm writing to you because a study in which you are the corresponding author was identified as eligible (please see title below), and I would kindly ask if you could be of assistance with the issues described below.

[title]

[description of the list of codes needed]

I look forward to hearing from you and thank you in advance for your help.

Best wishes,

Helena

Table 1. Main characteristics of the eligible studies: anxiety.

5 6 7 8	Author, year of publication	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
10 <sup>-</sup> 11 12 13 14 15	Bouras, 2016 [1]	Linked and primary care database analysis of the incidence and impact of psychiatric morbidity following gastrointestinal cancer surgery in England	Cohort study	CPRD, HES	1997-2012	"Diagnosis code [for anxiety] in CPRD or HES, or a prescription code [for Diazepam or Lorazepam] between 36 months before and 12 months after surgery."	Yes	None stated	Data available for >3 years before the index date // Follow up duration: 1 year after index date	Study quantified the psychiatric morbidity before and after the index date.	-
	Fardet, 2012 [2]	Suicidal behavior and severe neuropsychiatric disorders following glucocorticoid therapy in primary care	Cohort study	THIN	1990-2008	Read and Multilex list of codes for diagnoses of panic disorder or panic attack excluding c odes for anxiety	No	None stated	≥6 months of registration with the primary care practice	Hazards ratios adjusted for past history of neuropsychiatric disorders (yes/no)	Outcome was eligible if there was no record of the outcome in the previous 6 months
22 23 24 25 26 27 28	Granerod, 2016 [3]	Increased rates of sequelae post- encephalitis in individuals attending primary care practices in the United Kingdom: a population-based retrospective cohort study	Cohort study	CPRD	1998-2012	"Anxiety disorders (including both symptom codes and diagnoses such as generalised anxiety disorder, panic disorder, post-traumatic stress disorder and obsessive compulsive disorder)"	Yes	None stated	None stated // At least one contact with the GP practice in the two years after the index date	Analysis restricted to those at risk of a new-onset outcome, defined as no code in the year prior to the index date.	-
29 30 31 32 33 34 35 36 37 38	Hesdorffer, 2012 [4]	Epilepsy, suicidality, and psychiatric disorders: a bidirectional association	Matched cohort study	CPRD	1990-2008	Anxiety, not further specified	No	None stated	At least 3 years of data before the index date, 1 year after the index date, and at least 1 code for a medical or drug code in the 6 months before the index // Follow up 3 years after index date	Excluded subjects with a record of the outcome before the study date.	-

2											
3 4 5 6 7	Author, year of publication	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8 9 10 11	Khan, 2010 [5]	Consulting and prescribing behaviour for anxiety and depression in long-term survivors of cancer in the UK	Cohort study	CPRD	2003-2006	Consultations for anxiety and prescriptions of benzodiazepines and Buspirone	No	None stated	None stated	History of anxiety prior to the analysis period included in the models	Outcomes occurred within a 3-year period chosen for the study
12 13 14 15 16 17	Kurd, 2005 [6]	The risk of depression, anxiety, and suicidality in patients with psoriasis: A population- based cohort study	Cohort study	CPRD	1987-2002	"clinician diagnosis of anxiety and related disorders in which anxiety symptoms are common"	No (refers using the same codes of previous studies)	None stated	None stated	Patients with history of anxiety in the 6 months before the index date were excluded in a sensitivity analysis.	
18 19 20 21 22 23 24 25 26 27 28 29	Lurie, 2015 [7]	Antibiotic exposure and the risk for depression, anxiety, or psychosis: A nested case-control study	Nested case control study	THIN	1995-2013	Anxiety, including codes for diagnosis of generalised anxiety disorder and phobic anxiety	Yes	None stated	Only records from patients that had been registered with the GP for more than 183 days // Outcomes were considered incident if occurring at more than 183 days after the index date.	Patients who had pharmacological treatment for a specific psychiatric diagnosis more than 90 days before the diagnosis was first recorded were excluded.	Patients with mixed anxiety and depression were excluded from the analysis
30 31 32 33 34 35 36 37 38	Martin- Merino, 2010 [8]	Prevalence, incidence, morbidity and treatment patterns in a cohort of patients diagnosed with anxiety in UK primary care	Cohort study	THIN	2002-2004	"Identification codes included all Read codes describing anxiety. These included codes ranging from mild anxiousness symptoms to other disorders such as phobia, panic attack and generalized and mixed anxiety disorders"	Yes	Yes Record review/ questionna ires	Enrolled for at least 2 years with the practice and have received one prescription in the previous year; patients aged ≥70 years had to have at least 2 visits registered in the follow up period of >1 year.	Patients with previous anxiety diagnoses were excluded, as well as those who had 5 or more prescriptions of anxiolytics before the diagnosis.	-

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34	
35	
36	
38	
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41 42	
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3 4 5 6 7	Author, year of publication	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8 9 10 11 12 13 14 15 16	Meier, 2004 [9]	The risk of severe depression, psychosis or panic attacks with prophylactic antimalarials	Cohort study	CPRD	1990-1999	First time diagnosis of panic attack, regardless of referral or treatment, identified by OXMIS- and/or- ICD-8-codes	No	Yes  'reviewed a list of all cases to determine inclusion/ exclusion'	≥1 year of data available before index date and "some GPRD activity (diagnoses or prescriptions) recorded after the index date" // Patients were censored 18 months after exposure date	"The base population for person-time analyses consisted of all subjects free of () panic attacks at the start of follow up."	-
18 19 20 21 22 23 24 25	Schneider, 2013 [10]	Antimalarial chemoprophylaxis and the risk of neuropsychiatric disorders	Nested case control study	CPRD	2001-2009	Incident diagnosis of anxiety, not further specified	No	None stated	At least 1 year of date before the index date // some activity (diagnoses or prescriptions) recorded after the index date	Excluded patients with the outcome of interest observed before the index date	
26 27 28 29 30 31	Sheehan, 2015 [11]	Mental illness, challenging behaviour, and psychotropic drug prescribing in people with intellectual disability: UK population based cohort study	Cohort study	THIN	1999-2013	Anxiety, including codes for symptoms and diagnoses	Yes	None stated	Entry in the cohort at least one year after registration with the practice	None stated	Excludes cases of mixed anxiety and depression

3 4 5 6 7 _	Author, year of publication	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8	Walters, 2012 [12]	Recent trends in the incidence of anxiety	Cohort study	THIN	1998-2008	Anxiety, including symptoms, diagnosis, mixed anxiety and	No	None stated	≥1 year of data since registration	Excluded patients with an	Participants could have had
9		diagnoses and				depression, panic attacks and panic		o.a.o.a	with the practice	entry for anxiety	more than one
10		symptoms in primary				disorder			and 'consistent	recorded in the	episode during
11		care				Results were also provided			recording of at least one medical record	previous year.	the follow up, provided that
12						separately for:			(e.g. a diagnostic		they were
13						<ul> <li>anxiety disorders (eg. chronic anxiety, generalised anxiety</li> </ul>			entry), one additional health		separated for more than 12
14						disorder, anxiety state);			data record (e.g.		months.
15 16						- anxiety symptoms (e.g.			blood test result)		
17						'anxiousness'); - mixed anxiety and depression;			and >1 prescriptions on average for the		
18						- panic attacks and panic disorder.			practice per patient		
19									per year and		
20									consistent reporting of mortality.'		
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CPRD – Clinical Practice Research Datalink; HES – Hospital Episodes Statistics; ICD-10 – International Classification of Diseases, edition 10; ND – not defined; OXMIS – Oxford Medical Information System; PCCIU – Primary Care Clinical Informatics Unit Research; THIN – The Health Improvement Network.

Table 2. Main characteristics of the eligible studies: depression.

<sup>5</sup> Author, 6year of 7publication <sup>8</sup> Title 9	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
1 <b>9</b> ecker, 1 <sup>2</sup> 011 [13] 12 13 14	Risk of incident depression in patients with Parkinson disease in the UK	Nested case- control study	CPRD	1994-2005	'To be included in the analysis as a valid depression case, a patient had to have a code recorded for an affective disorder (depression, manic disorders, bipolar disorders, or unspecified affective disorders) during follow-up.'	Yes	Yes  Pharmacol ogical treatment with antidepres sive drugs	At least 3 years of computer EHR prior to the index date // None stated.	Cases who had depression diagnosed prior to the index date were excluded;	-
1 <b>§</b> ooth, 2015 1[74] 18 19 20	Impact of bariatric surgery on clinical depression. Interrupted time series study with matched controls	Controlled interrupted timeseries study	CPRD	2000-2012	Clinical depression was identified through medical diagnoses for depression recorded in clinical or referral records as well as through prescriptions for anti-depressant drugs.	Yes	None stated	At least one year of registration with the practice prior to the index date	Not applicable	-
28 29 2016 [15] 22 23 24 25 26 27 28 29 30	The risk of new onset depression in association with influenza - A population-based observational study	Nested case- control study	CPRD	2000-2013	Minimum of three prescriptions for one or more antidepressant drugs recorded after the incident major depression diagnosis (i.e. the index date), identified by READ-codes based on ICD-10 codes (F32), if they started the antidepressant therapy within 90 days of the depression diagnosis	Yes	None stated	A minimum of three years of history before the index date.	Excluded patients with more than two prescriptions for antidepressants at any time prior to the index date. Adjusted for history of affective disorders in the models.	Provides data for depression severity: general depression; mild depression; moderate depression; severe depression; other.

<sup>3</sup> Author, 4year of <sub>5</sub> publication <sup>6</sup> Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8Bouras, 9 <sup>2016</sup> [1] 10 11 12 13 14 15 16	Linked Hospital and Primary Care Database Analysis of the Incidence and Impact of Psychiatric Morbidity Following Gastrointestinal Cancer Surgery in England	Cohort study	CPRD HES	1997-2012	"Codes for the diagnoses of () depression were measured in CPRD () In HES, ICD-10 codes recorded in the first position of a hospital episode (signifying the main condition treated) for the diagnoses of depression. () Prescription data () including antidepressants (Fluoxetine, Paroxetine, Sertraline, Citalopram, Escitalopram, Mitrazapine, and Venlafaxine), () anxiolytics (Diazepam and Lorazepam)."	Yes	None stated	Data available for >3 years before the study index date  // Follow up duration: 1 year post diagnosis	Not applicable	
18 laxton, 18 0000 [16] 19 20 21 22 23 24 25 26 27 28	Selective serotonin reuptake inhibitor treatment in the UK: Risk of relapse or recurrence of depression	Cohort study	MediPlus	1993-1995	Re-initiation of any antidepressant after a gap of at least 6 months with no antidepressant prescription; suicide attempt, referral to psychotherapy or psychiatrist, admission to a mental health facility, emergency room use related to mental disorders, or electroconvulsive therapy and reinitiation of antidepressant one of the above.  Depression first defined as treatment with a SSRI and a Read code within 1 month of the prescription.	Yes	None stated	Only patients with contact with the services during the previous 2 years of the index date; // Follow up duration of 18 months post index date	Not applicable (all patients had been treated with SSRI)	Patients dementia, schizophrenia, psychosis and manic depression were excluded.
3 <b>0</b> lifford, 3 <sup>4</sup> 002 [17] 32 33 34 35	Drug or symptom- induced depression in men treated with apha1- blockers for benign prostatic hyperplasia? A nested-case control study	Nested case- control study	CPRD	1992-1999	Proxy of antidepressant prescription (first prescription of antidepressant)	No	None stated	Registered in CPRD for at least 12 months // ND	None stated	-

<sup>3</sup> Author, 4year of <sub>5</sub> publication <sup>6</sup> Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8Dave, 2010 9 <sup>[18]</sup> 10 11 12 13 14 15 16 17	Incidence of Maternal and Paternal Depression in Primary Care	Cohort study	THIN	1993-2007	"Read code entry for unipolar depression and/or a prescription for an antidepressant at the appropriate therapeutic dose for treatment of depression on a given consultation date () we eliminated those who had an entry for anxiety or panic disorder but had no entry for depression in their entire computerized medical record."  New episode was considered when no diagnosis or prescription had been registered in the past year.	No Available on request	None stated	None stated	Results stratified by history of previous mental disorder	Mixed anxiety and depression was included.
18 fardet, 2012 12] 20 21 22 23 24 25 26 27 28 29 30 31	Suicidal behavior and severe neuropsychiatric disorders following glucocorticoid therapy in primary care	Cohort study	THIN	1990-2008	'Read code for unipolar depression, for symptoms of depression, or for a prescription for an antidepressant. Diagnoses were considered first; prescriptions of antidepressants were used in defining the outcome only when there was no recorded diagnosis of a neuropsychiatric illness and no other recorded indication for the prescription. To exclude patients who may have received prescriptions for antidepressants for anxiety rather than for depression, we eliminated those who had an entry for anxiety or panic disorder but had no entry for depression in their entire computerized medical record.'	No	None stated	≥6 months of registration with the primary care practice.	Hazards ratios adjusted for past history of neuropsychiatric disorders (yes/no)	Outcome was eligible if there was no record of the outcome in the previous 6 months

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3Author, 4year of 5publication <sup>6</sup> Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8Gunnell, 9 <sup>2009</sup> [19] 10 11 12 13 14 15 16 17	Varenicline and suicidal behaviour: a cohort study based on data from the General Practice Research Database	Cohort study	CPRD	2006-2008	Depression defined as the start of antidepressant therapy	No	None stated	At least 1 years of CPRD record before index date // ND	People who had been prescribed an antidepressant within the previous 6 months before index date were excluded. Previous psychiatric consultations considered in the models.	-
18 ranerod, 12016 [3] 20 21 22 23 24 25	Increased rates of sequelae post- encephalitis in individuals attending primary care practices in the United Kingdom: a population-based retrospective cohort study	Matched cohort study	CPRD	1998-2012	Depression, consisting of codes for depression diagnosis and symptoms if evidence of pharmacological treatment was present.	Yes	None stated	None stated // At least one contact with the GP practice in the two years after the index date.	Analysis restricted to those at risk of a new-onset outcome, defined as no code in the year prior to the index date.	-
26agberg, 27017 [20] 28 29 30 31 32 33 34 35 36	Risk of Incident Antidepressant-Treated Depression Associated with Use of 5alpha- Reductase Inhibitors Compared with Use of alpha-Blockers in Men with Benign Prostatic Hyperplasia: A Population-Based Study Using the Clinical Practice Research Datalink	Nested case- control study	CPRD	1992-2013	A Read code for a depression diagnosis and a prescription for an antidepressant within 90 days of the depression diagnosis.	No	None stated	At least 1 year of recorded history in the database before cohort entry;	Excluded men with a diagnosis of depression or suicidal behaviors (ideation or attempts), or men who received prescriptions for antidepressant medications prior to cohort entry.	-

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<sup>3</sup> Author, 4year of 5publication <sup>6</sup> Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8Hagberg, 9 <sup>2016</sup> [21] 10 11 12 13 14 15 16	Incidence rates of suicidal behaviors and treated depression in patients with and without psoriatic arthritis using the Clinical Practice Research Datalink	Nested case control study	CPRD	1998-2012	'A patient was required to have at least one prescription for an antidepressant drug in addition to a diagnosis code for depression within 60 days of each other to qualify as a case of treated depression.'	No	Yes, record review	At least one year of registration with the practice prior to the index date	Any patient who had a diagnosis of depression or a prescription for an antidepressant drug recorded before the cohort entry date was excluded from the Treated Depression subcohort.	-
1 Harris, 2011 19 20 20 21 22 23 24 25 26 27	Depression indicators in a national sample of older community and care home patients: applying the Quality and Outcomes Framework	Cohort study	THIN	ND-2008	(i) depression case finding with assessment tool validated for primary care; (ii) assessment of depression severity in patients with a new depression episode.  'Quality and Outcomes Framework Read Codes were used in both cases, but no account was taken of exceptions recorded by GPs, as these may bias comparisons between community and care home samples.'	Yes	None stated	Patients registered for at least 90 days with a new diagnosis of depression in period 91-450 days from end of follow up and no depression severity assessment >365 days before end of follow up.	Not applicable	Only practices contributing with data up to at least March 2008 were included.
28 esdorffer, 22012 [4] 30 31 32 33 34 35 36 37 38	Epilepsy, suicidality, and psychiatric disorders: a bidirectional association	Matched cohort study	CPRD	1990-2008	Incident major depression, not further specified	No	None stated	At least 3 years of data before the index date, 1 year after the index date, and at least 1 code for a medical or drug code in the 6 months before the index // Follow up 3 years after index date	Excluded subjects with a record of the outcome before the study date.	

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3Author, 4year of 5publication 6Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8Jacob, 2017 9 <sup>[23]</sup> 10 11 12 13 14 15	Depression Risk in Patients with Rheumatoid Arthritis in the United Kingdom	Cohort study	Disease Analyser database	2000-2014	Diagnoses of depression, according to the ICD-10 codes	No	None stated	None stated // Incidence in the first 5 years of the index date	None stated	-
1 <i>J</i> enkins- 1 <i>§</i> ones, 2018 1 <i>[</i> 2 <sup>4</sup> ] 20 21 22 23 24 25 26 27 28 <del>29</del>	Poor compliance and increased mortality, depression and healthcare costs in patients with congenital adrenal hyperplasia	Matched cohort study	CPRD, ONS, HES inpatient and outpatient	?	Depression defined by Read Codes in CPRD, by ICD-10 code in HES inpatient data, or by the prescription of antidepressants.  Depression was identified not only from ongoing records but also from patients' clinical histories dating from before the start of data follow-up.  A sensitivity analysis considered only those depression outcomes identified by both diagnostic (Read or ICD-10) code and at least one antidepressant prescription.	Yes	None stated	None stated	Not applicable: the outcome was lifetime prevalence of depression rather than incident occurrence.	-
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2  3Author, 4year of 5publication  6Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8John, 2016 9 <sup>[25]</sup> 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	Recent trends in primary-care antidepressant prescribing to children and young people: an ecohort study	Cohort study	SAIL	2003-2013	Incident episode: a Read code for a diagnosis or symptom of depression, or antidepressant, with no record of the given subtype (antidepressant prescription or depression diagnosis or depression symptom) in the previous 12 months; Participants could have more than one episode recorded across the study period as long a period of at least 12 months existed between entries within that subtype.  Prevalent episode: any record of the given subtype (antidepressant prescription or depression diagnosis or depression symptom) in a target year  Annual recurrent episode: defined as the first record in a given year of a given subtype where a record of that subtype exists previously in that individuals GP record.	Yes	None stated	Registered with the GP practice for at least 1 year	Not applicable	Explored the indication of the antidepressants

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8Kendrick, 2015 [26] 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Changes in rates of recorded depression in English primary care 2003-2013: time trend analyses of effects of the economic recession, and the GP contract quality outcomes framework	Cohort study	CPRD	2003-2013	"had clinical or referral events recorded which included a Read code for non-psychotic depressive symptoms or diagnoses, or for assessment using depression symptom questionnaires."  Prevalence of depression: Read code present in the year or quarter; Incidence of depression: limited to patients who had no code for depression recorded in the previous 12 months.  Incidence of first-ever depression: no previous code for depression diagnosis, symptoms or antidepressant treatment recorded within 10 year study period, and no previous record of depression or antidepressant treatment recorded.	Yes	None stated	None stated	Not applicable	"We excluded patients with psychotic diagnoses including bipolar disorder, psychotic depression, and schizoaffective psychosis, and patients prescribed antidepressants for other indications besides depression."
24 25 han, 2010 26 26 27 28 29	Consulting and prescribing behaviour for anxiety and depression in long-term survivors of cancer in the UK	Matched cohort study	CPRD	2003-2006	Consultations for depression and prescriptions of as tricyclics, SSRIs and MAOIs	No (Available on request)	None stated	None stated // Follow up duration: 3 years	History of anxiety prior to the analysis period was included in the models	-
3160tz, 2017 3127] 32 33 34	Cardiovascular and neuropsychiatric risks of varenicline and bupropion in smokers with chronic obstructive pulmonary disease	Matched cohort study	QResearch	2001-2012	Depression, not further specified	No	None stated	Registered for >12 months before data extraction // Follow up duration 6 months	History of neuropsychiatric events before the index date were considered as confounders	
35cotz, 2015 35cotz, 2015 35cotz, 2015 37 38 39	Cardiovascular and neuropsychiatric risks of varenicline: a retrospective cohort study	Matched cohort study	QResearch	2007-2012	Depression, not further specified	No	None stated	Registered for >12 months before data extraction // Follow up duration 6 months	History of neuropsychiatric events before the index date were considered as confounders	-

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3Author, 4year of 5publication	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
9 <sup>[6]</sup> 10 11 12 13	The risk of depression, anxiety, and suicidality in patients with psoriasis: A population- based cohort study	Matched cohort study	CPRD	1987-2002	Depression included all clinician diagnoses of depressive symptomology including bipolar disorder, defined by diagnostic Read or OXMIS codes	No (refers using the same codes of previous studies)	None stated	None stated	Patients with history of anxiety in the 6 months before the index date were excluded in a sensitivity analysis.	-
1 Lurie, 2015 16 17 18 19 20 21 22 23	Antibiotic exposure and the risk for depression, anxiety, or psychosis: A nested case-control study	Nested case control study	THIN	1995-2013	At least one Read code of depression; not further specified.	Yes	None stated	Only records from patients that had been registered with the GP for more than 183 days // Outcomes were considered incidence if occurring at more than 183 days after the index date.	Patients who had pharmacological treatment for a specific psychiatric diagnosis more than 90 days before the diagnosis was first recorded were excluded.	Patients with mixed anxiety and depression were excluded from the analysis
25 Martin- 26 ferino, 27010 [29] 28 29 30 31 32 33	Study of a cohort of patients newly diagnosed with depression in general practice: Prevalence, incidence, comorbidity, and treatment patterns	Cohort study, descriptive and analytical	THIN	2002-2004	Patients with incident depression during the follow up but excluding those who had 5 or more prescriptions of an antidepressant before the depression diagnosis.	No	Yes GP questionna ires	Registered for >2 years with their GP practice prior to the index date; Excluded patients aged >69 years who had fewer than 2 visits during the follow-up.	All subjects who had a record of depression before the index date were excluded.	Prevalence of depression calculated as the sum of all patients who had the outcome during the study, plus those who had the outcome in the two years before the study start date.

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8Meier, 2004 9 <sup>[9]</sup> 10 11 12 13 14 15 16	The Risk of Severe Depression, Psychosis or Panic Attacks with Prophylactic Antimalarials	Cohort study	CPRD	1990-1999	Depression referred to specialist or hospital, or if received treatment with antidepressants at or after the diagnosis date identified by OXMIS-and/or- ICD-8-codes	No	Yes 'reviewed a list of all cases to determine inclusion/ exclusion'	≥1 year of data available before index date and "some GPRD activity (diagnoses or prescriptions) recorded after the index date" // Patients were censored 18 months after exposure date	"The base population for person-time analyses consisted of all subjects free of depression at the start of follow up."	-
18illson, 19000 [30] 19 20 21 22 23	Are triptans with enhanced lipophilicity used for the acute treatment of migraine associated with an increased consulting rate for depressive illness?	Cohort study, analytical	CPRD, data for the West Midlands	1993-1997	'consulting at least once for depression'	Yes	No	None stated	None Stated	-
2Milojevic, 2017 231] 26 27	Mental health impacts of flooding: a controlled interrupted time series analysis of prescribing data in England	Cohort study	General practice prescribing data	2010-2015	Antidepressants prescription	No (but list of antidepress ants provided in appendix)	Not applicable	None stated	Not applicable	-
2 <del>0</del> Noore, 2009 3 <b>(3</b> 2) 31 32 33 34 35 36 37	Explaining the rise in antidepressant prescribing: a descriptive study using the general practice research database	Cohort study	CPRD	1993-2005	Depression: "first ever antidepressant prescription for depression diagnosed up to 180 days before or 90 days after the prescribing event, or received a first ever diagnosis of depression without an associated prescription for antidepressants."	No	None stated	Registered with practices contributing with up to standard quality data for the entire study period	Patients only included if it was the first ever events during the follow up period.	Provides data for treatment patterns: chronic treatment; intermittent treatment; short-term treatment; delayed treatment; no treatment.

<sup>3</sup> Author, 4year of <sub>5</sub> publication <sup>6</sup> Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8Morgan, 9 <sup>2014</sup> [33] 10 11 12 13 14	General practice- recorded depression and antidepressant use in young people with newly diagnosed Type 1 diabetes: a cohort study using the Clinical Practice Research Datalink	Matched cohort study	CPRD	1988-2010	Depression identified from diagnosis codes (Oxford Medical Information System and Read), along with at least one antidepressant prescription (monoamine oxidase inhibitors, selective serotonin reuptake inhibitors, tricyclic antidepressants or other antidepressants).	No	None stated	None stated	Participants with depression diagnoses or prescriptions prior to diabetes diagnosis (or prior to the start date for control subjects) were excluded.	
16etersen, 127006 [34] 18 19 20 21	Risk and predictors of fatigue after infectious mononucleosis in a large primary-care cohort	Nested case control cohort study	CPRD	1989-2000	Depression, not further specified	No (available from the authors)	None stated	At least one year of data before diagnosis // At least one year of complete follow up after diagnosis	Included patients who did not have fatigue in the year before onset	-
22 Aait, 2009 2[35] 24 25 26 27 28 29 30 31 32	Recent trends in the incidence of recorded depression in primary care	Cohort study	THIN	1996-2006	"Diagnoses of depressive disorder") and recorded depressive symptoms (e.g. 'low mood'). new episode of diagnosed depression was defined as an entry in the records where there was no previous diagnosis of depression coded in the previous year. A new episode of depressive symptoms was also defined as an entry where there had been no previous recorded depressive symptom code in the previous year."	No	None stated	At least one year of follow up data // ND	None stated	Provides results separately for diagnoses and symptoms of depression.
3 <sup>2</sup> 4hah, 2016 3 <sup>[36]</sup> 36	The mental health and mortality impact of death of a partner with dementia	Nested case control study	THIN	2005-2008	Depression, not further specified	Yes	None stated	At least one year of data with the practice	None stated	-
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<sup>3</sup> Author, 4year of <sub>5</sub> publication <sup>6</sup> Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8Schneider, 2013 [10] 9 10 11 12 13	Antimalarial chemoprophylaxis and the risk of neuropsychiatric disorders	Nested case control study	CPRD	2001-2009	Incident diagnosis of depression, not further specified	Yes	None stated	At least 1 year of date before the index date // some activity (diagnoses or prescriptions) recorded after the index date	Excluded patients with the outcome of interest observed before the index date	Excluded patients with history of cancer, alcoholism, and rheumatoid arthritis.
15chneider, 12010 [37] 17 18 19 20	COPD and the risk of depression	Cohort study	CPRD	1995-2005	Diagnosis of depression, not further specified  In sensitivity analysis, only cases with an incident diagnosis of depression who receive pharmacological treatment within 6 months of diagnosis were included	Yes	None stated	Excluded patients with less than 3 years of active recording history prior to the date of the COPD diagnosis	Patients with previous history of depression, suicide, suicidal ideation, etc., prior to the index date were excluded	Excluded patients with history of cancer, HIV, drug abuse, or alcoholism prior to the index date
22 <sub>sheehan</sub> , 22 <sub>015</sub> [11] 24 25 26 27	Mental illness, challenging behaviour, and psychotropic drug prescribing in people with intellectual disability: UK population based cohort study	Cohort study, analytical	THIN	1999-2013	Read codes for depression (including mixed depression-anxiety) that the authors' used in previous studies.	Yes	None stated	Entry in the cohort at least one year after registration with the practice	None stated	Excludes cases of mixed anxiety and depression
28meeth, 22008 [38] 30 31 32 33 34	Effect of statins on a wide range of health outcomes: A cohort study validated by comparison with randomized trials	Cohort study	THIN	1995-2006	Depression defined as the start of antidepressant pharmacotherapy	No	None stated	None stated	People with a previous history of the outcome prior to the index date were excluded from the analysis of that outcome.	First year of follow up was excluded.

<sup>3</sup> Author, 4year of 5publication <sup>6</sup> Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8Smith, 2014 9 <sup>[39]</sup> 10 11 12 13 14	Depression and multimorbidity: a cross-sectional study of 1,751,841 patients in primary care	Cross-sectional	PCCIU	ND-2007	"Read code for depression recorded within last year and/or 4 or more antidepressant prescriptions (excluding low-dose tricyclic antidepressants) within the last year. Low-dose tricyclic antidepressants were excluded because they are commonly prescribed for chronic pain syndromes rather than depression."	No	None stated	Patients alive and permanently registered with a general practice at the date of the study	None stated	-
15 <sub>homas,</sub> 1 <sub>2</sub> 013 [40] 17 18 19 20 21 22 23	Smoking cessation treatment and risk of depression, suicide, and self harm in the Clinical Practice Research Datalink: prospective cohort study	Nested case- control study	CPRD HES ONS	2006-2011	"Incident episodes of depression as measured by the date that antidepressant treatment was initiated (treated depression)"  //  For comparison with previous study, depression was also defined with Read codes only in CPRD	Yes	None stated	At least one year of registration with the practice prior to the index date // ND	Previous psychiatric illness, and use of psychotropic medication considered as potential confounders.	-
2½yrer, 1999 2 <sup>[41]</sup> 26 27 28	A study of cardiovascular disease, depression and antidepressants on a computerised general practice database	Cohort study	UK MediPlus	1995-1996	'new diagnosis of depression and treatment, classified by the first antidepressant prescribed.'	No	None stated	At least 12 months of data before the index date // Follow up duration 12 months	Patients with depression in the 12 months period before the cardiac event were excluded.	-
2♥allerand, 3 <b>2</b> 018 [42] 31 32 33	Risk of depression among patients with acne in the U.K.: a population-based cohort study	Cohort study, analytical	THIN	1986-2012	Read code for major depressive disorder	Yes	None stated	None stated // Follow up for > 2 years after index date	Patients with MDD Read code prior to the start of follow up were excluded	-

3Author, 4year of 5publication <sup>6</sup> Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8Walters, 9 <sup>2011</sup> [43] 10 11 12 13 14	The relationship between asthma and depression in primary care patients: A historical cohort and nested case control study	Cohort study and nested case control study	CPRD	1995-2006	GP recorded diagnosis of depression, as defined by Read/OXMIS codes) during the study period	No (codes available from the authors)	None stated	All patients had at least 24 months of 'up to standard' data prior to the index date of the case.	All cases with a recorded medical diagnosis of depression or depressive symptoms before the index date were excluded from the cohort.	-
16/ <sub>ang, 2003</sub> 1[74] 18 19 20 21 22 23 24 25	Lipid-lowering drugs and the risk of depression and suicidal behavior	Matched cohort study	CPRD	1991 onwards	Treated depression (with antidepressants) referred to a consultant or patient hospitalized for depression; excluded patients who also had diagnosis of anxiety or with specific causes for depression (e.g. post-partum depression)	No	List of patients referred to hospital or consultant were manually reviewed; referral letters reviewed.	≥1 year of data available before index date	Patients with history of depression prior to study start were excluded	-

CPRD – Clinical Practice Research Datalink; EHR – electronic health records; HES – Hospital Episodes Statistics; ICD-10 – International Classification of Diseases, edition 10; ND – not defined; PCCIU – Primary Care Clinical Informatics Unit Research; SAIL – SAIL Databank - The Secure Anonymised Information Linkage Databank; THIN – The Health Improvement Network; ONS – Office for National Statistics.

Table 3. Main characteristics of the eligible studies: composite outcomes, anxiety and depression.

6 7	Author, year of publication Title	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
11	John, 2016 [45]	Case-finding for common mental disorders of anxiety and	Validation study using patient reported	SAIL	2000-2009	Outcome: Common mental disorders, defined as anxiety and depression.	Yes	Yes Patient	At least 6 months after registration with the practice	Not applicable (no exposure under study).	
12 13		depression in primary care: an external	outcomes			Read codes for: i) anxiety diagnosis,		reported outcomes		Incidence	
14		validation of routinely				e.g. generalised anxiety disorder; ii)		outcomes		outcome were	
15		collected data				anxiety symptoms e.g. anxiousness;				those where no	
16						iii) mixed anxiety and depression; iv) panic attacks and panic disorders; v)				previous entry had been	
17						depression diagnoses; vi)				recorded around	
18						depression symptoms.				1 year of the	
19						Treatment defined as having at least				date of the survey answer.	
20						one prescription for an				Survey answer.	
21						antidepressant, anxiolytic or				Other outcomes	
22						hypnotic within the year around the date of the survey answer.				were considered historical.	
23						date of the curvey anewer.				motorioa.	
24						Excluded codes for other psychosis,					
25						phobias, obsessive compulsive disorders, post traumatic stress					
26						disorder, behavioural disorders,					
27						hyperkinetic disorders, conduct					
28						disorders, disorders of social functioning, and adjustment					
29						disorders.					
30						Defined 12 algorithms with surrent					
31						Defined 12 algorithms with current and historical symptoms, diagnosis					
32						and treatment.					
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3 Author, 4 year of 5 publica 6 Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8 Turner, 9 [46] 10 11	2016 Ongoing impairments following transient ischaemic attack: retrospective cohort study	Nested case control study	THIN	2009-2013	Outcome: Psychological impairment, defined as anxiety, depression and post-traumatic stress disorder.  First consultation after the index date with a Read code for symptoms	Yes	None stated	Practice with at least one year of up to standard data, and patients registered for at least one year with	Not stated.	-
13 14 15 16					or diagnosis of anxiety, depression or post-traumatic stress, plus a first prescription of an antianxiety or antidepressant drug			the practice. // Patient alive and registered with the practice 1 month after index		

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SAIL – SAIL Databank - The Secure Anonymised Information Linkage Databank; THIN – The Health Improvement Network.

Table 4. Main characteristics of the eligible studies: dementia.

5 6 7 8	Author, year of publication	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
	Brown, 2016 [47]	Comparison of dementia recorded in routinely collected hospital admission data in England with dementia recorded in primary care	Validation study	CPRD HES	1990-2012	Read codes for dementia and/or a code for a drug specifically prescribed for dementia (i.e. donepezil, galantamine, memantine and rivastigmine).	Yes	Yes GP questionna ire	At least 12 months before and 12 months after the first HES record of dementia	Not applicable	-
15 16 17 18 19 20 21	Davies, 2014 [48]	Associations of anti- hypertensive treatments with Alzheimer's disease, vascular dementia, and other dementias	Nested case- control study	CPRD	1997-2008	Alzheimer's disease, vascular dementia, or unspecified/other dementias  Created four categories: probable Alzheimer's disease, possible Alzheimer's disease, vascular dementia, combine unspecified or other dementia.	Yes	No	None stated	Not applicable	-
23 24 25 26 27	Donegan, 2017 [49]	Trends in diagnosis and treatment for people with dementia in the UK from 2005 to 2015: a longitudinal retrospective cohort study	Cohort study	CPRD	2005-2015	Dementia defined using Read codes listed for the condition in the Quality and Outcomes Framework	No	No	Patients were eligible for analysis if registered with the practice for the entire quarter of the year being analysed;	Not applicable (descriptive study of the incident cases of dementia)	-
	Dregan, 2015 [50]	Are Inflammation and Related Therapy Associated with All- Cause Dementia in a Primary Care Population?	Matched cohort study	CPRD	2002-2013	"Medical diagnostic codes were used to identify new diagnoses of dementia including Alzheimer's disease, vascular dementia, Lewy body dementia, frontotemporal dementia, dementia in other conditions, and unspecified dementia."	No	No	None stated	Considered incident cases only	-

3 4 5 6 7	Author, year of publication	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8 9 10 11 12 13	Dregan, 2015 [51]	Patterns of anti- inflammatory drug use and risk of dementia: a matched case-control study	Matched case control study	CPRD	1992-2014	"Medical diagnostic codes were used to identify new diagnoses of dementia and include non-specific dementia (Eu02z), Alzheimer disease (F110), vascular dementia (Eu01), Lewy body dementia (Eu025), senile dementia (E00) and dementia in other conditions (Eu02)."	Yes	No	None stated	Considered incident diagnosis	-
15 16 17 18	Dunn, 2005 [52]	Does lithium therapy protect against the onset of dementia?	Nested case control study	CPRD	1992-2002	'Cases with definite diagnosis of Alzheimer disease, vascular dementia (with which there is a diagnostic overlap), and those with uncertain cause of dementia'	No	Yes GP Questionn aire	"At least 4 years o research standard data preceding the date of the diagnosis"	Considered incident cases only	-
21 22 23 24 25 26 27 28	Dunn, 2005 [53]	Association between dementia and infectious disease: evidence from a case-control study	Nested case control study	CPRD	1992-2002	"We identified cases as all those patients with an incident dementia, as diagnosed by their GP, a GP colleague, or a hospital specialist () We included cases with a recorded diagnosis of Alzheimer disease, vascular dementia (with which there is diagnostic overlap), and those with uncertain cause of dementia. Other specified causes of dementia were excluded (eg, dementia in Parkinson's disease)."	No	Yes GP questionna ires	"At least 4 years of research standard data preceding the date of first diagnosis (median time from onset of symptoms to diagnosis has been estimated at 4 years)."	Considered incident cases only	Cases further classified as probable or possible cases of dementia.
29 30 31 32 33 34 _	Emdin, 2016 [54]	Blood Pressure and Risk of Vascular Dementia: Evidence From a Primary Care Registry and a Cohort Study of Transient Ischemic Attack and Stroke	Cohort study	CPRD HES ONS	1990-2003	First record of vascular dementia, in one of the databases. For the primary analysis, cases of Alzheimer's disease and vascular dementia (i.e. mixed dementia) were included.	Yes	No	Registered with the GP practice for at least one year // First 4 years of follow up excluded from analysis	First 4 years of follow up excluded from analysis	-

3 4 5 6	Author, year of publication	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up	Handling of outcomes occurring prior to exposure	Notes
7 <u> </u> 8 9 10 11 12 13	Goh, 2014 [55]	Angiotensin receptor blockers and risk of dementia: cohort study in UK Clinical Practice Research Datalink	Cohort study	CPRD	1995-2010	New diagnosis of dementia, defined by Read codes, excluding specific causes of dementia (e.g. dementia in neoplastic disease).	Yes	No	requirements  At least 6 months of registration with the GP practice // Outcome occurring in the first year after the index date were not considered	Excluded all individuals with a record of dementia or cognitive impairment prior to the date of entry in the study	-
15 16 17 18 19 20 21	Granerod, 2016 [3]	Increased rates of sequelae post- encephalitis in individuals attending primary care practices in the United Kingdom: a population-based retrospective cohort study	Nested case control study	CPRD	1998-2012	"cognitive problems (including memory loss, aphasia, difficulty processing information, difficulty reasoning, difficulty concentrating and learning disability)"	Not provided in the original study but obtained from the authors	None stated	None stated // At least one contact with the GP practice in the two years after the index date.	Analysis restricted to those at risk of a new-onset outcome, defined as no code in the year prior to the index date.	Dementia diagnosis were considered separately
21 22 23 24 25	Hippisley- Cox, 2010 [56]	Unintended effects of statins in men and women in England and Wales: population based cohort study using the QResearch database	Cohort study	QResearch	2002-2008	Dementia, defined with Read codes, not further specified.	No; states that code list is available on request	No	At least one year of registration with the practice // ND	Incident cases included in the study	-

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3 4 5 5 7	Author, year of publication Title	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
3 9 110 111 12 13 14 15 16 17 18 19 20 21 22 23 24	Imfeld, 2012 [57]	Metformin, other antidiabetic drugs, and risk of Alzheimer's disease: a population- based case-control study	Nested case control study	CPRD	1998-2008	"either a diagnosis of AD followed by at least one prescription for an AD drug or vice versa; a diagnosis of dementia followed by at least two prescriptions for an AD drug; at least two recordings of an AD drug; at least two recordings of an AD diagnosis; an AD diagnosis after a specific dementia test (e.g., Mini-Mental State Examination (MMSE), Clock Drawing Test (CDT), or Abbreviated Mental Test (7-min screen)), a referral to a specialist (e.g., neurologist, geriatrician, or psychogeriatrician), an assessment based on a neuroimaging technique (e.g., magnetic resonance imaging (MRI), computed tomography (CT), or single-photon emission CT (SPECT)); or an AD diagnosis preceded or followed by any recorded dementia symptoms (e.g., memory impairment, aphasia, apraxia, or agnosia)."	No	Yes GP questionna ire	Patients with >3 years of active history in the database were excluded.	First time diagnosis of Alzheimer's disease included	
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31 32											

3 4 5 6 7	Author, year of publication Title	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32	Imfeld, 2013 [58]	Epidemiology, co- morbidities, and medication use of patients with Alzheimer's disease or vascular dementia in the UK	Descriptive cohort study	CPRD	1998-2008	"A patient was required to have either: 1) a diagnosis of AD followed by at least one prescription for an AD drug or vice versa; 2) a diagnosis of unspecific dementia followed by at least two prescriptions for an AD drug; 3) at least two recordings of an AD diagnosis; 4) an AD diagnosis after a specific dementia test (e.g., Mini Mental State Examination, Clock Drawing Test, or Abbreviated Mental Test [7-Minute Screen]), a referral to a specialist (e.g., neurologist, geriatrician or psycho-geriatrician), or an assessment based on neuroimaging technique (e.g., magnetic resonance imaging, computed tomography, or single photon emission computed tomography); or 5) an AD diagnosis preceded or followed by any recorded dementia symptoms (e.g., memory impairment, aphasia, apraxia, or agnosia). In addition, AD patients with a recording of any other specific dementia diagnosis (e.g., VaD, Pick's disease, or dementia with Lewy bodies) after the index date were not eligible, as well as those AD patients with a recording of stroke within two years prior to the index date."	No	Yes GP questionna ires	None stated	Considered incident cases during the study period only	"cases were not eligible if they had had a stroke before the index date (because this is more indicative of a diagnosis of vascular dementia (VaD)16) or a recording of any other specific dementia diagnosis (e.g., VaD, Pick's disease, or Lewy body dementia) after the index date."

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3 4 5 6 7	Author, year of publication Title	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	Imfeld, 2015 [59]	Benzodiazepine Use and Risk of Developing Alzheimer's Disease or Vascular Dementia: A Case-Control Analysis	Case control	CPRD	1998-2013	"first time diagnosis of AD, VaD, or any unspecified dementia (based on Read codes) (), or who received a first-time prescription for an acetylcholinesterase inhibitor (i.e. donepezil, rivastigmine, galantamine, or tacrine) or the N-methyl-D-aspartate (NMDA) receptor antagonist memantine () To increase the probability of including only well-defined AD or VaD cases, a validated algorithm was applied () this algorithm was based on recordings of specific dementia tests [e.g. Mini-Mental State Examination (MMSE), Clock Drawing Test (CDT), or Abbreviated Mental Test (7-Minute Screen)], referrals to specialists (e.g. neurologists, geriatricians or psycho-geriatricians), brain imaging [computed tomography (CT), magnetic resonance imaging (MRI), or single photon emission computed tomography (SPECT)], or dementia symptoms (memory impairment, aphasia, apraxia, or agnosia) supportive of a diagnosis of a specific dementia subtype (i.e. AD or VaD)."	No	Yes GP questionna ire	At least three years of active history in the database before diagnosis // ND	Considered incident cases during the study period only	
31 32 33 34 35 36 37 38 -	Jick, 2000 [60]	Statins and the risk of dementia	Nested case control study	CPRD	1992-1998	First time diagnosis of dementia or Alzheimer's disease	No	No but refers to previous study where the validity of the same list of codes was assessed	None stated	Incidence cases considered only	-

3 4 5 6 7	Author, year of publication Title	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8 9 10 11 12	Judge, 2017 [61]	Protective effect of anti- rheumatic drugs on dementia in rheumatoid arthritis patients		CPRD	1995-2011	Dementia, including Alzheimer's dementia, vascular dementia, and mixed dementia.	Yes	No	At least one year of up to standard registration data before the index date // ND	Considered incident cases only	-
	Khan, 2011 [62]	Long-term health outcomes in a British cohort of breast, colorectal and prostate cancer survivors	Cohort study	CPRD	2003-2006	Dementia, defined with Read codes, not further specified	No; states that codes are available upon request	No	None stated	Only incident cases were considered	-
18 19 20 21 22 23 24	Khosrow- Khavar, 2017 [63]	Androgen deprivation therapy and the risk of dementia in patients with prostate cancer	Cohort study	CPRD	1988-2016	All incident cases of dementia, including Alzheimer's disease	Yes	None stated (refers to validation in previous studies)	Patients with less than 1 year of history in CPRD were excluded // All patients had to have at least 1 year of follow up data	Excluded patients with previous diagnosis of any dementia	-
25 26 27 28 29	Lu, 2016 [64]	Gout and the risk of Alzheimer's disease: a population-based, BMI- matched cohort study	Cohort study	THIN	1995-2013	Alzheimer's disease	Yes	Not in the original study; refers to a previous validation study	None stated	First diagnoses only	-
	Mehta, 2017 [65]	Association of Hypoglycaemia With Subsequent Dementia in Older Patients With Type 2 Diabetes Mellitus	Cohort study	CPRD	2002-2012	Dementia defined by Read codes; used the same list of codes as another previous study.	No	None stated	None stated	Excluded patients with dementia diagnosed in the year prior to the index date	-

3 4 5 6 7	Author, year of publication Title	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8 9 10 11 12	Mehta, 2016 [66]	Development and validation of the RxDx- Dementia risk index to predict dementia in patients with type 2 diabetes and hypertension	Cohort study	CPRD	2003-2012	Dementia, defined with a previously validated algorithm (refers to previous publication)	No	None stated	None stated	Considered incident cases only	Sensitivity analysis include the definition of dementia as clinical diagnosis or drug prescription
14 15 16 17 18	Perera, 2018 [67]	Dementia prevalence and incidence in a federation of European Electronic Health Record databases: The European Medical Informatics Framework resource	Cohort study	THIN	2004-2012	'Codes that clearly indicated a dementia diagnosis, rather than those that were suggestive'	Yes	No	None stated	Not applicable (calculated incidence estimates)	-
21 22 23 24	Qizilbash, 2015 [68]	BMI and risk of dementia in two million people over two decades: a retrospective cohort study	Cohort study	CPRD	1992-2007	"Patients were classified as having dementia if, any of the following terms were recorded during follow-up: dementia, Alzheimer, Lewy body disease, Pick's disease. Dementia recorded on a death certificate was also used."	No	None stated	None stated	Excluded patients with dementia diagnosed in the year prior to the index date	•
25 26 27 28 -	Seshadri, 2001 [69]	Postmenopausal estrogen replacement therapy and the risk of Alzheimer disease	Cohort study	CPRD	1992-1998	First-time diagnosis of Alzheimer's disease, senile dementia or presenile dementia	No	Yes Case review	None stated	Only first time diagnosis were included	-

3 4 5 6 7	Author, year of publication Title	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8 9 10 11 12 13 14 15 16 17	Strom, 2015 [70]	Statin therapy and risk of acute memory impairment	Nested case- control study	THIN	1987-2013	"The outcome for this study was the onset of acute, reversible memory impairment. Using Read codes Clinical Terms, version 2 (), we sought codes with descriptions specifically pertaining to memory loss including amnesia, amnesia symptom, memory loss symptom, temporary loss of memory, short-term memory loss, transient global amnesia, drug-induced amnestic syndrome, non-alcoholic amnestic syndrome, amnesia (retrograde), memory lapses, minor memory lapses, and mild memory disturbance."	Yes	Yes GP questionna ire for a random sample	At least one 365 of registration with the GP practice	Patients with codes for acute memory loss before the index date were excluded.	Excluded patients diagnosed with dementia
20 21 22 23 24 25 26 27	Turner, 2016 [46]	Ongoing impairments following transient ischaemic attack: retrospective cohort study	Matched-cohort study	THIN	2009-2013	Read codes for diagnoses (such as 28E0.00: mild cognitive impairment) and symptoms (such as 1B1A.12: memory loss symptom) related to overall cognitive impairment and impaired individual cognitive domains. 'Cognitive impairment included memory, attention, spatial awareness, perception, apraxia and executive functioning impairments but not a diagnosis of dementia.'	Not provided in the original study but obtained from the authors	None stated	Patients alive and registered with the practice 1 month after the index date	Excluded patients with fatigue recorded on the index date	Dementia diagnosis were not included
28 29 30 31 32 33 34 35	Walters, 2016 [71]	Predicting dementia risk in primary care: development and validation of the Dementia risk score using routinely collected data		THIN	2000-2011	Newly recorded dementia diagnoses, including Alzheimer's disease, vascular dementia, and unspecified or mixed dementia.  Excluding dementia associated with Parkinson's disease, Lewy body dementia, Huntingdon, Picks, HIV and drug induced and alcohol-related dementia.	No but available upon request from the authors	No	Excluded patients with less than one year of follow up data // follow up restricted to a maximum of 5 years	Excluded patients with dementia, cognitive impairment or memory symptoms at baseline	-

CPRD – Clinical Practice Research Datalink; GP – general practitioner; HES – Hospital Episodes Statistics; THIN – The Health Improvement Network; ONS – Office for National Statistics.

Table 5. Main characteristics of the eligible studies: fatigue.

כ	Author,	Study title	Type of study	Database(s)	Study	Outcome description	List of	Validation	EHR-related	Handling of	Notes
7	year of publication		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		period (years)		codes available	of list of codes	eligibility criteria for the study	outcomes occurring prior to exposure	
)	Title								Follow up requirements		
0  1  2  3  4  5	Donegan, 2013 [72]	Bivalent human papillomavirus vaccine and the risk of fatigue syndromes in girls in the UK	Ecological and self-controlled case series	CPRD	2000-2011 and 2008-2011	Chronic fatigue syndrome including chronic fatigue syndrome/myalgic asthenia, post-viral fatigue syndrome, fibromyalgia, and neurasthenia.	(Obtained from the authors)	None stated	None stated // At least one year of follow up available	None stated	Sensitivity analysis considered 'incident fatigue' at the earliest recording of symptoms, referrals or diagnoses.
17 18 19 20 21	Collin, 2017 [73]	Trends in the incidence of chronic fatigue syndrome and fibromyalgia in the UK, 2001-2013: a Clinical Practice Research Datalink Study	Descriptive cohort study	CPRD	2001-2013	Diagnoses of chronic fatigue syndrome, fibromyalgia, post-viral fatigue syndrome, or asthenia/ debility diagnosis or referral to a specialist service	Yes	None stated	At least 12 months of up to standard data	Only new first ever diagnosis were considered	Symptoms of fatigue were considered separately.
23 24 25 26 27 28 29 30 31 32	Gallagher, 2004 [74]	Incidence of fatigue symptoms and diagnoses presenting in UK primary care from 1990 to 2001.	Descriptive cohort study	CPRD	1990-2001	Read codes for diagnosis of chronic fatigue syndrome; post-viral fatigue syndrome; asthenia/debility. Read codes for symptoms were classified separately.	No (Stated that was available from the authors but could not be obtained)	None stated	Data prior to 1990 not shown due to lower numbers than expected and being the first years of data collection of the database.	Fatigue diagnosis was incident if there was no record of diagnoses in the previous year, with or without previous symptoms; symptoms were incident if there was no symptoms or diagnoses in the previous year.	-
35 36 37 38	Hamilton, 2009 [75]	Risk markers for both chronic fatigue and irritable bowel syndromes: A prospective case-control study in primary care	Nested case control study	CPRD	1988-2001	List of diagnostic codes for post-viral fatigue syndrome; chronic fatigue syndrome.	No (refers to another publication)	None stated	Only patients with complete records for 3 years prior to the index date were included	Not applicable	-

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3 4 5 6 7 8 9	Petersen, 2006 [34]	Risk and predictors of fatigue after infectious mononucleosis in a large primary-care cohort	Nested case control cohort study	CPRD	1989-2000	Read codes for diagnoses of post- viral debility, post-viral fatigue syndromes, post-influenza debility and syndrome post-viral; symptoms of tiredness, malaise, lethargy, debility, and fatigue.	No (Stated that was available from the authors but could not be obtained)	None stated	At least one year of data before diagnosis // At least one year of complete follow up after diagnosis	Included patients who did not have fatigue in the year before onset	-
10 11 12 13 14 15 16 17 18	Turner, 2016 [46]	Ongoing impairments following transient ischaemic attack: retrospective cohort study	Nested case- cohort study	THIN	2009-2013	First consultation after the index date with a Read code for symptoms or diagnosis of fatigue	No Obtained from the authors	None stated	Practice with at least one year of up to standard data, and patients registered for at least one year with the practice.  // Patient alive and registered with the practice 1 month after index	Excluded patients with fatigue recorded on the index date.	-
19	CPI	RD – Clinical Practice R	esearch Datalink;	THIN – The F	lealth Improve	ement Network.					
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Table 6. Main characteristics of the eligible studies: pain.

Author, year of publication  Notes  Provided to period (years)  Notes  Provided (years)  Notes  Notes  Notes  Notes  Notes  Provided (years)  Notes  Notes	4										
11 2007 [76] comorbidity and health control study  12 resource utilization in the UK  13  14 Campbell, In sickness and in Descriptive CiPCA 2005-2006 Widespread body pain:  15 diagnosis only  GP questionna ire  16 None stated None stated -	6 year of 7 publication 8	Study title	Type of study	Database(s)	period	Outcome description	codes	of list of	eligibility criteria for the study // Follow up	outcomes occurring prior	Notes
14 Campbell, In sickness and in Descriptive CiPCA 2005-2006 Widespread body pain: Yes None None stated -	11 <sup>2007 [76]</sup> 12	comorbidity and health resource utilization in		CPRD	1994-2001	Migraine diagnosis	No	GP questionna	None stated		-
health: A cross-sectional analysis of concordance the five most common consultation body regions (back, knee, neck, in 13,507 couples  shoulder, foot), as well as codes for osteoarthritis consultations. A further category of 'any musculoskeletal' consultations were formed inclusive of the above body regions and conditions, as well as consultations for unspecified pain (e.g. arthralgia), widespread pain conditions and other single body regions where the proportion of consultations were too few to perform meaningful separate analysis (e.g. head, arm, elbow, wrist, hand, hip, pelvis, thigh and buttock)."	14 Campbell, 15 2015 [77] 16 17 18 19 20 21 22 23 24 25 26 27	health: A cross-sectional analysis of concordance for musculoskeletal pain	Descriptive	CiPCA	2005-2006	"All relevant codes were formed into the five most common consultation body regions (back, knee, neck, shoulder, foot), as well as codes for osteoarthritis consultations. A further category of 'any musculoskeletal' consultations were formed inclusive of the above body regions and conditions, as well as consultations for unspecified pain (e.g. arthralgia), widespread pain conditions and other single body regions where the proportion of consultations were too few to perform meaningful separate analysis (e.g. head, arm, elbow, wrist, hand, hip, pelvis, thigh and	Yes	None	None stated	None stated	
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3 4 5 6 7	Author, year of publication	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
9 10 11 12 13 14 15 16 17 18 20 21 22 24 25 26	1 2 2 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Epidemiology and treatment of neurophatic pain: the UK primary care perspective	Descriptive	CPRD	1992-2002	"A post-herpetic neuralgia record was a specific term for post-herpetic neuralgia or an acute herpes zoster term plus either neuropathy, or neuropathic pain, 3-6 months after the first acute herpes zoster entry. A trigeminal neuralgia record had a specific term for this diagnosis.  Phantom limb pain was defined as a specific term or a term for amputation plus either a neuropathy or neuropathic pain record 3–24 months after the first amputation code. Patients were included in the painful diabetic neuropathy cohort if their record contained a specific term; a term for diabetic neuropathy with a prescription for a treatment for pain current at the date of diagnosis; a record of diabetes and neuropathic pain or record of diabetes and both neuralgia and a treatment for pain current on the date of the neuralgia code."	No	None stated	At least year of up to standard data	None stated	
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4 <b>yea</b> 5 <b>pu</b> l 6 7	thor, ar of blication	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
	l, 2013	An observational	Cohort study,	CPRD	2005-2010	"Five neuropathic pain cohorts (post-	No	Yes	At least of 1 year		None stated
9 [79]	1	descriptive study of the epidemiology and	descriptive			herpetic neuralgia, painful diabetic neuropathy, phantom limb pain,		GP	of data of good quality for		
10		treatment of neuropathic				neuropathic back pain and		guestionna	research		
11		pain in a UK general				neuropathic postoperative pain)		ires			
		population				were identified from () a single					
12						specific Read code, or a					
13						combination of Read and therapy					
14						codes as specified in a case definition. Postherpetic neuralgia					
15						was defined as a specific code for					
16						post-herpetic neuralgia, or a code for					
17						acute zoster plus either a code for					
18						neuropathy, or neuropathic pain,					
19						between three and six months after					
						the first acute zoster entry. Phantom					
20						limb pain (PLP) was defined as a specific code, or a code for					
21						amputation plus either a code for					
22						neuropathy or neuropathic pain					
23						between three and twenty-four					
24						months after the first amputation					
25						code. The painful diabetic					
26						neuropathy cohort included patients with a specific code for painful					
27						diabetic neuropathy; those with a					
						code for diabetes and a general					
28						code for neuropathic pain and a third					
29						group with a code for diabetic					
30						neuropathy (or diabetes and					
31						neuralgia) with a prescription for a					
32						neuropathic pain treatment which was initiated within 28 days of the					
33						date of the neuropathy/ neuralgia					
3 <u>4</u>						code."					
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Author, year of publication	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8 Mansfield, 9 2017 [80] 10 11 12 13 14 15 16 17 18 19 20 21 22 23 Ruigomez,	Identifying patients with chronic widespread pain in primary care  Chest pain in general	Cross sectional  Case control	CPRD	2005-2009	(A) Recurrent region pain, define as: "In a period of 5 consecutive years, a patient fulfils all of 1-4:  1. At least 1 consultation for a musculoskeletal complaint in the axial skeleton (neck and back);  2. At least 1 consultation for an upper- or lower-limb complaint;  3. At least 1 consultation for a regional musculoskeletal complaint in each of 3 separate years;  4. At least 4 consultations for regional musculoskeletal complaints during the 5-year period."  (B) "Non specific generalized pain conditions, including fibromyalgia, fibrositis, rheumatism, myalgia, arthralgia, and polyalgia"  Chest pain:	Yes	Yes	Patients not registered with the practice for the full 5-year period were excluded	Not applicable (cross sectional analysis)	-
24 2006 [81] 25 26 27 28 29	practice: incidence, comorbidity and mortality	study			Codes for chest pain that did specify the type or location of the symptom.		stated	the GP for at least 2 years // At least one entry in the records in the last 3 years before the study	patients with history of pain the past 2 years	
30 Wallander, 31 <sup>2007</sup> [82] 32 33 34 35	Unspecified abdominal pain in primary care: The role of gastrointestinal morbidity	Matched cohort study	CPRD	Before 1996	Abdominal pain: Diagnosis of abdominal pain	Yes	None stated	At least one entry to the data in the three years prior to the study start.	Patients were excluded if they had a record of abdominal pain of any abdominal site or type in the 2 years before the study started.	-

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7									requirements		
	ondervan, 1999 [83]	Prevalence and incidence of chronic pelvic pain in primary care: evidence from a national general practice database	Cohort study	Mediplus UK primary care database	1991-1995	Chronic pelvic pain: pain in the lower abdominal region persisting for at least six months.  "Episode of chronic pelvic pain: pelvic pain on two or more contacts, with at least six months (≥ 183 days) between the first and the last contact but with no period of more than one year (> 365 days) without a pelvic pain contact. An episode of chronic pelvic pain was defined as starting six months after the first contact and finishing at the contact preceding a pain-free, one-year interval (if any)."  "Excluded pain due to malignancy; chronic inflammatory and other defined bowel diseases such as Crohn's, coeliac disease, ulcerative colitis; acute conditions verified by having surgery such as appendicectomy, cholecystectomy; or pregnancy. Women with pelvic pain occurring only during menstruation (dysmenorrhoea) or sexual intercourse (dyspareunia)	No	None stated	None stated	Not applicable. Monthly incidence estimated as the number of new episodes in a given month as a proportion of	
29		'DOA TI O II I'		A 1: 0555	01: : : 5	were also excluded."					
20	C	IPCA - The Consultations	s in Primary Care	Archive; CPRL	– Clinical P	ractice Research Datalink;. NSAIDS	5 - Nonsteroida	ai anti-infiami	matory drug.		

3	Table 7. Main cha	racteristics	of the eligi	ible studi	es: sexual dysfunction.					
<sup>4</sup> Author, 5year of 6publication <sup>7</sup> Title	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
9Blumentals, 1 <del>0</del> 003 [84] 11 12	Antihypertensive treatment and erectile dysfunction in a cohort of type II diabetes patients	Nested case- control study	CPRD	1987-2001	Erectile dysfunction, ascertained from the diagnosis codes, not further specified	No	None stated	None stated	None stated	•
13 14agberg, 12016 [85] 15 16 17 18 19 20 21 22 23 24 25	Risk of erectile dysfunction associated with use of 5-alpha reductase inhibitors for benign prostatic hyperplasia or alopecia: population based studies using the Clinical Practice Research Datalink	Nested case control study	CPRD	1992-2011	Erectile dysfunction: "diagnosis of erectile dysfunction or impotence, prescription for a phosphodiesterase type 5 inhibitor (eg, sildenafil, tadalafil, or vardenafil) where the strength and quantity prescribed was indicated for treatment of erectile dysfunction, or record of procedures for treatment of erectile dysfunction (eg, penile prosthesis, penile injection, or other operations for treatment of erectile dysfunction)."  Non-erectile dysfunction: including ejaculatory disorder, psychosexual dysfunction, or low libido	No	None stated	At least 3 years of history before the cohort entry date;	Incident cases considered after the index date.	
26 han, 2011 26 2] 28 29 30 31 32	Long-term health outcomes in a British cohort of breast, colorectal and prostate cancer survivors: a database study	Cohort study	CPRD	2003-2006	Erectile dysfunction: "new prescriptions for sildenafil (Viagra, Pfizer, NY, United States), apomorphone hydrochloride, vardenafil (Levitra, Bayer Healthcare Pharmaceuticals, New Haven, USA), alprostadil (an injectable treatment) and tadalafil (Cialis, Lilly, USA)"	No	None stated	None stated	Excluded patients with erectile dysfunction recorded before the index date	-
3Morant, 32008 [86] 35 36	Increased sexual dysfunction in men with storage and voiding lower urinary tract symptoms	Cross-sectional analysis	THIN	2000-2007	Male sexual dysfunction	Yes	None stated	None stated	None stated	-
3§chlesinger, 2018 [87] 38 39	Gout and the Risk of Incident Erectile Dysfunction: A Body Mass Index-matched Population-based Study	Cohort study	THIN	1995-2012	Erectile dysfunction noted by the presence of the Read code E227311	Yes	None stated	At least one year of registration with the practice before the index date	Excluded prevalent cases at baseline	-

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<sup>3</sup> Author, 4year of <sub>5</sub> publication <sup>6</sup> Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure	Notes
8Sultan, 2017 9 <sup>[88]</sup> 10 11 12 13	Gout and subsequent erectile dysfunction: a population-based cohort study from England	Cohort study	CPRD, HES	1998-2004	Erectile dysfunction, ascertained from the medical codes, not further specified	Yes	None stated	At least 1 year of follow up data	Only incident cases after the index date were considered; cases in the first 6 months of registration were considered	-
14	CDRD Clinical Practice	Pagarah Datali	ak: UEC Uaa	nital Enicoda	es Statistics; THIN – The Health Imp	arayamant Nat	huork		prevalent.	
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Table 8. Main characteristics of the eligible studies: sleep disorder.

<sup>5</sup> Author, 6year of 7publication <sup>8</sup> Title	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up	Handling of outcomes occurring prior to exposure	Notes
1 <b>8</b> oddy, 2013 1[β9] 12	The association of gout with sleep disorders: A cross-sectional study in primary care	Matched cohort study	CiPCA and PiPCA	2001-2008	Read codes for sleep disorders, excluding codes for sleep apnoea which were classified separately	Yes	None stated	requirements  None stated	None stated	-
1Wallander, 12007 [90] 15 16 17 18 19	Morbidity associated with sleep disorders in primary care: A longitudinal cohort study	Cohort study	CPRD	1996	Read codes for sleep disorder including insomnia, hypersomnia, and sleep disturbance	Yes	None stated	Registered with a general practitioner for at least 2 years and having at least 1 entry in CPRD in the previous 3 years.	Patients with a consultation for sleep disorders during the 2 years before the start of the study were excluded.	-

CPRD – Clinical Practice Research Datalink; CiPCA - The Consultations in Primary Care Archive; PiPCA - The Prescriptions in Primary Care Archive.

3	Table 9. Main cha	racteristics	of the eligi	ible studi	es: fatal and non-fatal se	lf-harm.				
<sup>4</sup> Author, <sup>5</sup> year of <sub>6</sub> publication <sup>7</sup> Title 8	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure (applicable to self-harm only)	Notes
9Andersohn, 1 <del>8</del> 010 [91] 11 12 13 14 15	Use of antiepileptic drugs in epilepsy and the risk of self-harm or suicidal behaviour	Nested case- control study	CPRD	1990-2005	"Potential cases were identified using predefined medical codes of self-harm (i.e., without a clear suicidal intention [intentional self-harm]) or suicidal behaviour (i.e., with a clear suicidal intention [attempted suicide]). Patients who died were also considered as potential cases if suicidal thoughts were recorded within 4 weeks before death."	Yes	Yes, record review	At least one year of data with the GP practice	Models adjusted for history of self-harm at baseline	In an additional analysis, the patients with codes for self-harm without explicitly mention to suicidal behaviour were excluded.
17, rana, 2010 18,2] 19 20 21 22 23 24 25 26 27 28 29 30 31	Suicide-related events in patients treated with antiepileptic drugs	Cohort study	THIN	1988-2008	"Cases of suicide-related events were based on codes for suicide, attempted suicide, and intentional self-inflicted injuries plus suicide. A completed suicide was defined as a code for suicidality followed by a code for death in the following month and a final date of any administrative activity in the database or disenrollment within 6 months after the suicidality code. If the disenrollment date occurred more than 6 months after a suicidality code, we reviewed the patient's profile. Patients with a last medical or other health related code that was recorded within 1 month after the suicide date were also considered to have completed suicide."	No	GP questionna ire, record and death certificate review	Patients were eligible if they were enrolled with a clinical practice for at least 6 months during the study period	Patients with personal or family history of suicide attempt were excluded	
36arr, 2016 [93] 34 35 36 37 38 39	The epidemiology of self-harm in a UK-wide primary care patient cohort, 2001-2013	Descriptive cohort study	CPRD	2001-2013	"Read codes incorporating all cases across the spectrum from milder forms of non-suicidal behaviour through to near-fatal suicide attempts () We excluded codes that referred only to thoughts of self-harm or suicidal ideation and alcohol-related codes, unless intent to actively harm oneself was specified.	Yes	None stated	None stated	None stated	None stated

3Author, 4year of 5publication	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up	Handling of outcomes occurring prior to exposure (applicable to	Notes
7 8 <sup>Carr, 2017</sup> 9 <sup>[94]</sup> 10	Premature Death Among Primary Care Patients With a History of Self-Harm	Cohort study	CPRD ONS	2001-2013	Suicide, ascertained with ICD-10 codes in the ONS mortality data; including open verdicts.	Yes	Not applicable	At least one year of registration with the practice prior to the index date:	Not applicable.	
1 <sup>Q</sup> oupland, 1 <sup>2</sup> 011 [95] 12 13 14 15	Antidepressant use and risk of adverse outcomes in older people: Population based cohort study	Cohort study	QResearch, ONS	1996-2007	Read codes for attempted suicide or self-harm, not further specified	No	None stated	At least one year of registration with the practice prior to the index date;	None stated	Suicide was also an outcome, but data for this outcome was not analysed due to small numbers.
16 <sub>oupland</sub> , 1 <i>2</i> 015 [96] 18 19 20 21	Antidepressant use and risk of suicide and attempted suicide or self-harm in people aged 20 to 64: cohort study using a primary care database	Cohort study	QResearch, ONS	2000-2011	"code for suicide or an open verdict in their linked death certificate, or patients who had a Read code for attempted suicide or self-harm who died within 30 days.	No (refers to codes used in other studies	None stated	At least one year of registration with the practice prior to the index date; // Most analysis restricted to the first 5 years of follow up.	Excluded patients with a previous attempted suicide or self-harm event recorded at baseline	-
2βardet, 2012 2[4] 25 26 27	Suicidal behavior and severe neuropsychiatric disorders following glucocorticoid therapy in primary care	Cohort study	THIN	1990-2008	Cases of suicide or suicide attempt	No	Yes  Review of death certificates	≥6 months of registration with the primary care practice	Hazards ratios adjusted for past history of neuropsychiatric disorders (yes/no)	Outcome was eligible if there was no record of the outcome in the previous 6 months
28 onovan, 1996 [97] 29 30 31 32	The use of the General Practice Research Database (GPRD) to examine potential links between antidepressant medication and the incidence of suicide	Cohort study	CPRD	1988-1993	Suicide, not further specified	No	None stated	None stated	Prior suicidal history considered as a risk factor for suicide	-
3 <b>6</b> oyle, 2016 3[\$8] 35 36 37 <del>38</del>	Suicide risk in primary care patients diagnosed with a personality disorder: a nested case control study	Nested case control study	CPRD, ONS	2002-2011	Suicides and open verdicts ascertained via linkage to ONS mortality data	Yes (ICD-10 codes)	Not applicable (Data linked to the gold- standard)	At least one year of up to standard CPRD data	Not applicable	-

<sup>3</sup> Author, 4year of <sub>5</sub> publication <sup>6</sup> Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure (applicable to self-harm only)	Notes
8Gao, 2013 9 <sup>[99]</sup> 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	Association between body mass index and suicide, and suicide attempt among British adults: The health improvement network database	Cohort study	THIN	2000-2007	Suicide: "defined in two ways (): 1) patients with a Read code of suicide attempt confirmed by death within 3 months or 2) patients who did not have a Read code of suicide attempt, but whose cause of death might be suicide. To identify patients using the second approach, we first searched for all deaths () the cause of death was reviewed. In addition, free text records were searched for potential suicide as cause of death, including suicide, deliberate drug overdose or self-harm, self-inflicted injuries, poisoning, asphyxiation, trauma, and acute or multiple organ failure. Death certificates for these patients were requested for the final verdict of the cause of death.  Suicide attempt: "identified using the Read codes for suicide and then by confirming that the patient was still alive for at least 3 months from the time of the event."	No	None stated	None stated	None stated	
28gunnell, 22009 [19] 30 31 32 33 34	Varenicline and suicidal behaviour: a cohort study based on data from the General Practice Research Database	Cohort study	CPRD	2006-2008	OXMIS and Read terms for fatal and non-fatal self-harm.	No	Yes Record review	At least 1 years of CPRD records before index date;	Considered the potential confounding effect of previous self-harm or suicidal thoughts in analysis.	

<sup>3</sup> Author, 4year of <sub>5</sub> publication <sup>6</sup> Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure (applicable to self-harm only)	Notes
8Hall, 2009 9 <sup>[100]</sup> 10 11 12 13 14	Validation of death and suicide recording on the THIN UK primary care database	Validation study	THIN	2002-2004	"Coded and free text records were searched to identify any entry for suicide or a medical cause of death which might indicate suicide, including trauma, poisoning, overdose, asphyxiation, acute or multiple organ failure or a suggestion that death was intentional. An electronic record of suicide was accepted."	Yes	Yes (Validation study, record review)	None stated	Not applicable (validation study)	-
16agberg, 12016 [21] 18 19 20 21 22 23	Incidence rates of suicidal behaviors and treated depression in patients with and without psoriatic arthritis using the Clinical Practice Research Datalink	Cohort study	CPRD	1998-2012	Suicidal behaviours, defined as: "diagnosis of suicidal ideation, suicide attempt, and/or suicide recorded after the cohort entry date. () If a patient had a code for suicide, but had not died, the event was classified as a suicide attempt. Suicidal ideation, attempts, and suicide were considered separately; thus a patient may have been included in more than one analysis.	No	Yes, record review	At least one year of registration with the practice prior to the index date	Patients with suicidal behaviors were included "because patients could recover from suicidal behaviors with treatment or consultation."	
25 Agyes, 2016 2601] 27 28 29 30 31 32 33 34	Self-harm, Unintentional Injury, and Suicide in Bipolar Disorder During Maintenance Mood Stabilizer Treatment: A UK Population-Based Electronic Health Records Study	Cohort study	THIN	1995-2013	"emergency department or primary care attendance for self-harm during the period of drug exposure and the 3 months afterward. This outcome included Read codes for intentional poisoning, intentional self injurious behavior, and self-harm acts of uncertain intent. () Secondary outcomes were unintentional injury (eg, falls or motor vehicle crashes) seen in primary or secondary care and a record of the patient's suicide during this period"	No	Refers to previous validation of the list of codes	None stated	Not applicable (the outcome was diagnoses during the exposure period)	-

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3Author, 4year of 5publication 6Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure (applicable to self-harm only)	Notes
8Hesdorffer, 9 <sup>2012</sup> [4] 10 11 12 13 14 15 16 17	Epilepsy, suicidality, and psychiatric disorders: a bidirectional association	Cohort study	CPRD	1990-2008	Read codes for suicidality including codes for attempted suicide and completed suicide.	No	None stated	At least 3 years of data before the index date, and at least 1 code for a medical or drug code in the 6 months before the index // At least 1 day of data after index date; follow up duration: 3 years after index date	Excluded subjects with a record of the outcome before the study date.	-
1Aesdorffer, 22016 [102] 21 22 23 24 25 26 27 28 29 30	Occurrence and Recurrence of Attempted Suicide Among People With Epilepsy	Cohort study	CPRD	1988-2013	Diagnoses of attempted suicide identified with Read codes, not further specified.  Suicide attempts divided into incident or recurrent.	No C	None stated	At least 6 month of complete records before the index date and ≥1 medical or drug codes for a condition other than epilepsy in the 6 months before the index date.  // At least 1 day of data post index date	None stated	-

<sup>3</sup> Author, 4year of 5publication <sup>6</sup> Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure (applicable to self-harm only)	Notes
8Haste, 1998 9 <sup>[103]</sup> 10 11 12 13 14 15 16 17	Potential for suicide prevention in primary care? An analysis of factors associated with suicide.	Matched cohort study	CPRD	1991-1993	Suicide: "were identified from the database in two ways: 1. Patients with a record of suicide in the notes; and 2. Patients who did not have a record of suicide, but whose record of cause of death on the database suggested that suicide might be possible. These causes included death from carbon monoxide poisoning (excluding accidental poisoning), hanging, suicidal or accidental overdose, and reference to self-inflicted injury. () Cases where the verdict was open were included."	No	Yes  GP confirmatio n, review of death certificates	None stated	Not applicable (cases of completed suicide only)	-
19 <sub>ck, 1995</sub> 2004] 21 22 23 24 25 26 27	Antidepressants and suicide	Cohort study	CPRD	1988-1993	"Cases of suicide were identified from the computer record from among all the study subjects who died. When the cause of death was recorded as suicide or was considered to be uncertain, we obtained further information from the general practitioner and the death certificate to determine the final diagnosis and means of committing suicide."	No	Yes, GP questionna ire	At least 6 month of registration with the practice prior to the index date	Not applicable (cases of completed suicide only)	
28ick, 1998 28i05] 29 30 31 32 33 34 35 36	A study of the relation of exposure to quinolones and suicidal behaviour	Nested case control study	CPRD	1991-1995	Three case groups: 1) committed suicide; 2) had a diagnosis of attempted suicide; 3) had a diagnosis of suicidal ideation.  "If the subject had more than one case diagnosis during the study period, only the first such diagnosis was considered."	Yes	None stated	>18 months of information on drugs prescribed and diagnoses recorded prior to the index.	None stated	-

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<sup>3</sup> Author, 4year of <sub>5</sub> publication <sup>6</sup> Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure (applicable to self-harm only)	Notes
8/lick, 2000 g <sup>[106]</sup> 10 11 12 13	Isotretinoin use and risk of depression, psychotic symptoms, suicide, and attempted suicide	Cohort study	CPRD	?	Suicide and inpatient or outpatient code for attempted suicide	Yes	None stated	Between 5 years and 6 months of clinical records before the index date // At least 1 year of records post index date	Controlled for history of attempted suicide	
15 <sub>ick, 2004</sub> 1607] 17 18 19 20 21	Antidepressants and risk of suicidal behaviours	Cohort study	CPRD	1993-1999	Nonfatal suicidal behaviour: "Cases were those who (1) had a first-time recorded diagnosis of nonfatal suicidal ideation () or attempted suicide"  Suicide: patients who committed suicide, not further specified.	Yes	None stated	At least 2 years of registration with the practice prior to the index date	None stated	-
23 <sub>ick, 2009</sub> 2[308]	Rate of suicide in patients taking montelukast	Cohort study	CPRD	1998-2007	'computer recorded diagnosis of suicide'	No	None stated	None stated	None stated	
24 2 Kurd, 2010 [6] 26 27 28 29 30 31	The risk of depression, anxiety, and suicidality in patients with psoriasis: A population-based cohort study	Matched cohort study	CPRD	1987-2002	'Suicidality was defined as diagnosis of suicidal ideation, suicide attempt, or suicide', defined by diagnostic Read or OXMIS codes.	No  Refers to diagnostic codes used in other publications.	None stated	None stated	In sensitivity analysis, the patients with a diagnosis of the outcome measured prior to or within six months of the index date were excluded.	
328] 328] 34 35 36	Cardiovascular and neuropsychiatric risks of varenicline: a retrospective cohort study	Cohort study	QResearch	2007-2012	Fatal and non-fatal self-harm, not further specified	None stated	None stated	Registered for >12 months before data extraction // Follow up duration 6 months	History of neuropsychiatric events considered as confounders	

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<sup>3</sup> Author, 4year of 5 <sup>publication</sup> <sup>6</sup> Title	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure (applicable to self-harm only)	Notes
8 <sup>Kotz</sup> , 2017 9 <sup>[27]</sup> 10 11	Cardiovascular and neuropsychiatric risks of varenicline and bupropion in smokers with chronic obstructive pulmonary disease	Cohort study	QResearch	2001-2012	Fatal and non-fatal self-harm, not further specified	None stated	None stated	None stated // Follow up duration 6 months	History of neuropsychiatric events considered as confounders	-
12 <sub>almohame</sub> 13, 2012 1[409] 15 16	Causes of death in patients with multiple sclerosis and matched referent subjects: A population-based cohort study	Cohort study	CPRD HES ONS mortality	2001-2008	Death by accident or suicide ascertained in the ONS mortality database	Yes (ICD-10 codes)	Not applicable (ONS mortality database, ICD-10 codes)	≥1 year of data available before index date	None stated	-
1 Martinez, 15005 [110] 19 20 21 22 23	Antidepressant treatment and the risk of fatal and non-fatal self harm in first episode of depression: nested case-control study	Nested case control study	CPRD	1995-2001	Non-fatal self-harm (drug overdose, deliberate self-laceration, poisoning, and non-fatal suicide attempts using other methods)  Suicide, identified by OXMIS and Read codes	No Obtained from the authors	Yes,  Review of the death certificates and free text entries	≥1 year of data available before index date	Model adjusted for history of non-fatal self- harm	"People with an episode of non-fatal self harm were not censored in analyses with suicide as the end point."
2Meier, 2004 25 26 27 28 29 30 31 32 33	The Risk of Severe Depression, Psychosis or Panic Attacks with Prophylactic Antimalarials	Cohort study	CPRD	1990-1999	Suicide defined by OXMIS and/or ICD-8 codes	No	Yes 'reviewed a list of all cases to determine inclusion/ exclusion'	≥1 year of data available before index date and "some GPRD activity (diagnoses or prescriptions) recorded after the index date" // Patients were censored 18 months after exposure date	Not applicable (suicide as an outcome only)	-
34 3Mines, 2005 7111] 36 37 38	Prevalence of risk factors for suicide in patients prescribed venlafaxine, fluoxetine, and citalopram	Cohort study	CPRD	1995-2002	Suicidal behaviour in the year prior to index date	Yes	None stated	≥1 year of data available	None stated	-

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5publication  6Title 7				period (years)		codes available	of list of codes	eligibility criteria for the study // Follow up requirements	outcomes occurring prior to exposure (applicable to self-harm only)	
80sborn, 9 <sup>2008</sup> [112] 10	Suicide and severe mental illnesses. Cohort study within the UK general practice research database	Matched cohort study	CPRD	1987-2002	Suicide, not further specified	No	None stated	None stated	None stated	
11 Bubino, 12007 [113] 13 14 15 16 17 18 19 20	Risk of suicide during treatment with venlafaxine, citalopram, fluoxetine, and dothiepin: retrospective cohort study	Cohort study	CPRD	1995-2005	Completed suicide: coding for death associated with mention of suicide in free text or by code for suicide in the medical record and a statement of death in the administrative record (30 days either way);  First attempted suicide (non-fatal event).	Yes	Yes Free text search	At least one year of registration with the practice prior to the index date	Suicide attempts considered as a confounder in the models	"excluded records that at the review of free text notes did not seem to represent attempted suicide - for example, unintentional overdose or self harm without suicidal intent"
21 25chneider, 22010 [37] 23 24 25 26 27 28	COPD and the risk of depression	Cohort study	CPRD	1995-2005	'incident suicide or suicidal ideation', not further specified	No Obtained from the authors	None stated	Patients with less than 3 years of active recording history prior to the date of the COPD diagnosis were excluded;	Patients with previous history of depression, suicide, suicidal ideation, etc., prior to the index date were excluded	-

<sup>3</sup> Author, 4year of 5publication <sup>6</sup> Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure (applicable to self-harm only)	Notes
8Schuerch, 9 <sup>2016</sup> [114] 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	Impact of varying outcomes and definitions of suicidality on the associations of antiepileptic drugs and suicidality: comparisons from UK Clinical Practice Research Datalink (CPRD) and Danish national registries (DNR)	Validation study	CPRD HES ONS	1996-2009	Suicidal ideation/intent:  "Recorded medical terms from the clinical and referral module, plus reasons for transfer out of the general practices to identify patients with one of these outcomes"  Suicide attempt:  "Recorded medical terms from the clinical and referral module, plus reasons for transfer out of the GP-practice to identify patients with one of these outcomes from CPRD."  Completed suicide:  "Term of suicidal attempt or ideation occurring simultaneously with a recording of death (+/- 4 weeks), death recorded as reason for leaving the practice (registering out), and a final date of any administrative activity in the database of disenrollment within six months after suicidality code."	Yes	Yes (validation study)	At least 6 months of data before the index date //	Patients with history of suicide attempts, self-harm or suicidal ideation/intent in the 6 months before index were excluded	
27homas, 28013 [40] 29 30 31	Smoking cessation treatment and risk of depression, suicide, and self harm in the Clinical Practice Research Datalink: prospective cohort study	Nested case- control study	CPRD, HES and ONS mortality data	2006-2011	Incidence fatal and non-fatal self- harm (as measured by death from suicide in the ONS mortality database) and hospital admission for self-harm (as recorded in the HES database). Includes open verdicts.	Yes for ONS database; no for Read codes.	None stated	At least one year of registration with the practice prior to the index date	Previous self- harm considered as a potential confounder in analysis	

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ublication for the study occurring prior (years) available codes to exposure itle Follow up (applicable to requirements self-harm only) CPRD. HES. Validation of suicide and 1998-2010 "Cases of suicide and self-harm (the Yes Registered with a Not applicable homas. Validation study Yes 2013 [115] self-harm records in the ONS 'events') were identified by practice (descriptive Clinical Practice extracting all records with Read (Validation study on the mortality contributing with codes for suicide, attempted suicide Research Datalink data, and study) up to standard incidence of self-Multicentre and self-harm (...). Given that data, and having harm) study of selfsuicide-related Read codes may acceptable harm refer to both fatal and nonfatal records for suicide attempts, completed suicides research. within the CPRD were identified using the conventional CPRD approach of linking patient deaths to Read codes for suicide that were recorded within 95 days of the CPRD derived death dates" Cohort study yrrell, 2016 Changes in poisonings THIN 1992-2012 "poisonings [categorised] as No None None stated First poisoning Multiple events among adolescents in intentional, unintentional, unknown within the occurring in the 1161 stated the UK between 1992 intent or alcohol related. Where same individual observation and 2012: a population Read codes explicitly described the within a month period intent using the words 'deliberate' or based cohort study were counted as 'intentional' (intentional); 'accidental' one event only 23 (unintentional); and 'unknown' or 'unspecified' (unknown) then they 24 were classified as such. The words 25 'suicide', 'self-inflicted', 'self-26 poisoning' or 'overdose' were also 27 used to categorise a poisoning as intentional, unless otherwise 28 specified." 2% ebb. 2012 Risk of self-harm in **CPRD** Nested case 2001-2008 Suicidal ideation, defined by Read No At least two years None stated None coding descriptions that included the of up to standard 3[017] physically ill patients in control study stated UK primary care terms 'suicide and self-inflicted,' CPRD data 31 'suicide and self-harm,' 'para-32 suicide' or 'attempted suicide.' 33 Cases that died following the code were excluded. 34 35 Webb. 2012 CPRD and Suicide risk in primary Nested case 2001-2008 Suicides as mentioned in the death Yes Not At least two years Not applicable 3[618] applicable care patients with major control study ONS certificate, and open verdicts. of up to standard (study of suicide physical diseases: A (ONS CPRD data 37 mortality only) case-control study mortality data 38 data) 39 40

**Outcome description** 

List of

codes

Validation

of list of

**EHR-related** 

eligibility criteria

Handling of

outcomes

Notes

3Author, 4year of 5publication 6Title 7	Study title	Type of study	Database(s)	Study period (years)	Outcome description	List of codes available	Validation of list of codes	EHR-related eligibility criteria for the study // Follow up requirements	Handling of outcomes occurring prior to exposure (applicable to self-harm only)	Notes
8Wijlaars, 2013 [119] 9 10 11 12 13	Suicide-related events in young people following prescription of SSRIs and other antidepressants: A self- controlled case series analysis	Nested case control study	THIN	1995-2009	Suicide attempts, suicidal ideation and completed suicide.  Completed suicides: "Read codes that were confirmed by a date of death within 2 weeks of the suicide event date. We searched a cause of death, if available."  Excluded cases classified as open verdicts.	Refers to a previous list, that was updated for the study	Yes Record review	At least 6 months of up to standard CPRD data	Accounted for in analysis	-
15 Windfuhr, 12016 [120] 17 18 19 20	Suicide risk linked with clinical consultation frequency, psychiatric diagnoses and psychotropic medication prescribing in a national study of primary-care patients	Nested case- control study	CPRD and ONS mortality data	2002-2011	International Classification of Disease version 10 (ICD-10) codes X60-84, Y10-34 (excluding Y33.9), Y87.0, Y87.2 Includes open verdicts	Yes	Not applicable (ONS mortality data)	≥1 year of data available after up to standard data	None stated	-
22 <sub>Pang</sub> , 2003 2[34] 24 25 26 27 28	Lipid-lowering drugs and the risk of depression and suicidal behaviour	Matched cohort study	CPRD	1991 onwards	Suicidal behaviour, ideation suicidal, suicidal plan, suicidal thoughts, attempted suicide, threat suicide, suicidal drug overdose, drug overdose, para suicide and suicide.	Yes	No (refers to previous studies assessing suitability of the records)	Patients with history of suicidal behaviour prior to study start were excluded	None stated	-

CPRD - Clinical Practice Research Datalink; THIN - The Health Improvement Network; PCCIU - Primary Care Clinical Informatics Unit; SSRI - selective serotonin re-uptake inhibitors; GP – General practice; MAOIs - monoamine oxidase inhibitors; CiPCA - Consultations in primary care archive; PiPCA - Prescriptions in primary care archive.

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Table 1. List of Read codes used in the studies of anxiety.

Read code	Description	Number of studies
Eu41.00	[X]Other anxiety disorders	5
Eu41100	[X]Generalized anxiety disorder	5
Eu41z11	[X]Anxiety NOS	5
Eu41000	[X]Panic disorder [episodic paroxysmal anxiety]	4
Eu05400	[X]Organic anxiety disorder	4
Eu41112	[X]Anxiety reaction	4
Eu41111	[X]Anxiety neurosis	4
Eu41z00	[X]Anxiety disorder, unspecified	4
E202.12	Phobic anxiety	4
E200200	Generalised anxiety disorder	4
E200.00	Anxiety states	4
E200000	Anxiety state unspecified	4
E200z00	Anxiety state NOS	4
Eu40.00	[X]Phobic anxiety disorders	3
Eu40z00	[X]Phobic anxiety disorder, unspecified	3
Eu41012	[X]Panic state	3
Eu41011	[X]Panic attack	3
Eu41y00	[X]Other specified anxiety disorders	3
Eu41300	[X]Other mixed anxiety disorders	3
Eu41211	[X]Mild anxiety depression	3
Eu41113	[X]Anxiety state	3
E200500	Recurrent anxiety	3
E200100	Panic disorder	3
E200111	Panic attack	3
E200400	Chronic anxiety	3
1B1V.00	C/O - panic attack	3
1B13.11	Anxiousness - symptom	3
1B13.00	Anxiousness Anxioty with depression	3
E200300	Anxiety with depression	3
Eu93200	[X]Social anxiety disorder of childhood	2
Eu34114	[X]Persistant anxiety depression	2 2
Eu40012	[X]Panic disorder with agoraphobia	
Eu40y00 Eu41200	[X]Other phobic anxiety disorders	2 2
Eu41200 Eu93y12	[X]Mixed anxiety and depressive disorder [X]Childhood overanxious disorder	2
Eu93y12 Eu41y11	[X]Anxiety hysteria	2
E2D0.00	Disturbance of anxiety and fearfulness childhood/adolescent	2
E2D0.00 E2D0z00	Disturbance on anxiety and fearfulness childhood/adolescent NOS	2
E202100	Agoraphobia with panic attacks	2
E292400	Adjustment reaction with anxious mood	2
E280.00	Acute panic state due to acute stress reaction	2
Z4I7.00	Acknowledging anxiety	2
Eu40100	[X]Social phobias	1
Eu40112	[X]Social phobias	1
Eu93000	[X]Separation anxiety disorder of childhood	1
Eu42100	[X]Predominantly compulsive acts [obsessional rituals]	1
Eu93100	[X]Phobic anxiety disorder of childhood	1
Eu42.12	[X]Obsessive-compulsive neurosis	1
Eu42.00	[X]Obsessive - compulsive disorder	1
Eu45215	[X]Nosophobia	1
Eu46z11	[X]Neurosis NOS	1
-4.0211	[	•

Read code	Description	Number of studies
Eu40300	[X]Needle phobia	1
Eu45213	[X]Hypochondriacal neurosis	1
Eu45212	[X]Dysmorphophobia nondelusional	1
Eu51511	[X]Dream anxiety disorder	1
Eu40213	[X]Claustrophobia	1
Eu60600	[X]Anxious [avoidant] personality disorder	1
Eu42.11	[X]Anankastic neurosis	1
Eu40011	[X]Agoraphobia without history of panic disorder	1
Eu40000	[X]Agoraphobia	1
R2y2.00	[D]Nervousness	1
R2y2.12	[D]Nervous tension	1
R2y2.11	[D]Nerves	1
1BK00	Worried	1
1B12.12	Tension - nervous	1
E202300	Social phobia, fear of eating in public	1
E112000	Single major depressive episode, unspecified	1
E292000	Separation anxiety disorder	1
Z4I7211	Reducing anxiety	1
Z4I7100	Recognising anxiety	1
E29y100	Other post-traumatic stress disorder	1
E203z00	Obsessive-compulsive disorder NOS	1
E203100	Obsessional neurosis	1
225J.00	O/E - panic attack	1
2258.00	O/E - anxious	1
1465.00	H/O: depression	1
1466.00	H/O: anxiety state	1
1B100	General nervous symptoms	1
E275711	Compulsive water drinking	1
E203000	Compulsive neurosis	1
1P300	Compulsive behaviour	1
E202800	Claustrophobia	1
E2D0000	Childhood and adolescent overanxiousness disturbance	1
1B13.12	Anxious	1
8G94.00	Anxiety management training	1
Z4L1.00	Anxiety counselling	1
E203.11	Anxiety counselling Anancastic neurosis Alleviating anxiety	1
Z4I7200	Alleviating anxiety	1
E202200	Agoraphobia without mention of panic attacks	1
1B12.00	'Nerves' - nervousness	1
1B12.11	'Nerves'	1

Table 2. List of Read codes used in the studies of depression.

		Nlf
Read code	Description	Number of studies
E112.00	Single major depressive episode	14
E112000	Single major depressive episode, unspecified	14
E112100	Single major depressive episode, mild	14
E112200	Single major depressive episode, moderate	14
E112300	Single major depressive episode, severe, without psychosis	14
E112z00	Single major depressive episode NOS	14
E135.00	Agitated depression	14
E112.11	Agitated depression	13
E112.12	Endogenous depression first episode	13
E112.13	Endogenous depression first episode	13
E112.14	Endogenous depression	13
E112500	Single major depressive episode, partial or unspec remission	13
E2B00	Depressive disorder NEC	13
E2B1.00	Chronic depression	13
Eu32.00	[X]Depressive episode	13
E113.00	Recurrent major depressive episode	12
E11y200	Atypical depressive disorder	12
E11z200	Masked depression Nasked	12
Eu32.11	[X]Single episode of depressive reaction	12
Eu32.12	[X]Single episode of psychogenic depression	12
Eu32.13	[X]Single episode of reactive depression	12
Eu32000	[X]Mild depressive episode	12
Eu32100	[X]Moderate depressive episode	12
Eu32200	[X]Severe depressive episode without psychotic symptoms	12
Eu32400	[X]Mild depression	12
Eu32y00	[X]Other depressive episodes	12
Eu32z00	[X]Depressive episode, unspecified	12
Eu33.00	[X]Recurrent depressive disorder	12
E112400	Single major depressive episode, severe, with psychosis	11
E113.11	Endogenous depression - recurrent	11
E130.11	Psychotic reactive depression	11
Eu32212	[X]Single episode major depression w'out psychotic symptoms	11
Eu32y11	[X]Atypical depression	11
Eu32z11	[X]Depression NOS	11
Eu32z12	[X]Depressive disorder NOS	11
1B17.00	Depressed	10
E112600	Single major depressive episode, in full remission	10
E113000	Recurrent major depressive episodes, unspecified	10
E113100	Recurrent major depressive episodes, mild	10
E113200	Recurrent major depressive episodes, moderate	10
E113300	Recurrent major depressive episodes, severe, no psychosis	10
E113500	Recurrent major depressive episodes,partial/unspec remission	10
E113700	Recurrent depression	10
E113z00	Recurrent major depressive episode NOS	10
E130.00	Reactive depressive psychosis	10
E200300	Anxiety with depression	10
E291.00	Prolonged depressive reaction	10
Eu32211	[X]Single episode agitated depressn w'out psychotic symptoms	10
Eu32213	[X]Single episode vital depression w'out psychotic symptoms	10
Eu32311	[X]Single episode of major depression and psychotic symptoms	10

Read code	Description	Number of studies
Eu32313	[X]Single episode of psychotic depression	10
Eu32y12	[X]Single episode of masked depression NOS	10
Eu32z13	[X]Prolonged single episode of reactive depression	10
Eu33.11	[X]Recurrent episodes of depressive reaction	10
Eu33.12	[X]Recurrent episodes of psychogenic depression	10
Eu33.13	[X]Recurrent episodes of reactive depression	10
Eu33000	[X]Recurrent depressive disorder, current episode mild	10
Eu33100	[X]Recurrent depressive disorder, current episode moderate	10
Eu33211	[X]Endogenous depression without psychotic symptoms	10
Eu33y00	[X]Other recurrent depressive disorders	10
Eu33z00	[X]Recurrent depressive disorder, unspecified	10
Eu34114	[X]Persistant anxiety depression	10
1B1U.00	Symptoms of depression	9
1B1U.11	Depressive symptoms	9
E113600	Recurrent major depressive episodes, in full remission	9
Eu32300	[X]Severe depressive episode with psychotic symptoms	9
Eu32312	[X]Single episode of psychogenic depressive psychosis	9
Eu32314	[X]Single episode of reactive depressive psychosis	9
Eu32500	[X]Major depression, mild	9
Eu32600	[X]Major depression, moderately severe	9
Eu32700	[X]Major depression, severe without psychotic symptoms	9
Eu32z14	[X] Reactive depression NOS	9
Eu33214	[X]Vital depression, recurrent without psychotic symptoms	9
Eu33311	[X]Endogenous depression with psychotic symptoms	9
Eu33z11	[X]Monopolar depression NOS	9
Eu34113	[X]Neurotic depression	9
Eu41200	[X]Mixed anxiety and depressive disorder	9
Eu41211	[X]Mild anxiety depression	9
1B17.11	C/O - feeling depressed	8
E113400	Recurrent major depressive episodes, severe, with psychosis	8
E204.00	Neurotic depression reactive type	8
Eu33200	[X]Recurr depress disorder cur epi severe without psyc sympt	8
Eu33212	[X]Major depression, recurrent without psychotic symptoms	8
Eu33400	[X]Recurrent depressive disorder, currently in remission	8
Eu34111	[X]Depressive neurosis	8
Eu3y111	[X]Recurrent brief depressive episodes	8
1BT00	Depressed mood	7
2257.00	O/E - depressed	7
E1112	Depressive psychoses	7
Eu32800	[X]Major depression, severe with psychotic symptoms	7
Eu33.14	[X]Seasonal depressive disorder	7
Eu33313	[X]Recurr severe episodes/major depression+psychotic symptom	7
Eu33314	[X]Recurr severe episodes/psychogenic depressive psychosis	7
Eu33315	[X]Recurrent severe episodes of psychotic depression	7
Eu33316	[X]Recurrent severe episodes/reactive depressive psychosis	7
9H90.00	Depression annual review	6
9H91.00	Depression medication review	6
9H92.00	Depression interim review	6
9HA0.00	On depression register	6
E290.00	Brief depressive reaction	6
Eu33300	[X]Recurrent depress disorder cur epi severe with psyc symp	6
Eu34100	[X]Dysthymia	6 5
E118.00	Seasonal affective disorder	5

Read code	Description	Number of
		studies
E204.11	Postnatal depression	5
E290z00	Brief depressive reaction NOS	5
Eu53011 Eu53012	[X]Postnatal depression NOS	5 5
	[X]Postpartum depression NOS	
1465.00	H/O: depression	4
1BQ00	Loss of capacity for enjoyment	4
8HHq.00	Referral for guided self-help for depression	4
E02y300	Drug-induced depressive state	4
Eu33.15	[X]SAD - Seasonal affective disorder	4
R007z13	[D]Postoperative depression	4
1BP0.00	Loss of interest in previously enjoyable activity	3
1BT11	Low mood	3
1BU00	Loss of hope for the future	
212S.00	Depression resolved	3
8CAa.00	Patient given advice about management of depression	3
90v0.00	Depression monitoring first letter	3
90v1.00	Depression monitoring second letter	3
90v2.00	Depression monitoring third letter	3
90v3.00 90v4.00	Depression monitoring verbal invite	3
90v4.00 9k400	Depression monitoring telephone invite	3
	Depression - enhanced services administration	3
E001300	Presenile dementia with depression	
E002100	Senile dementia with depression	3
E2B0.00	Postviral depression	3
Eu20400 Eu34112	[X]Post-schizophrenic depression	3
Eu34112 Eu92000	[X]Depressive personality disorder	3
1JJ00	[X]Depressive conduct disorder	2
8BK0.00	Suspected depression	2
9HA1.00	Depression management programme Removed from depression register	2
90v00	Depression monitoring administration	2
9k40.00	Depression - enhanced service completed	2
9kQ00	On full dose long term treatment depression - enh serv admin	2
E115.00	Bipolar affective disorder, currently depressed	2
E119.00	Other and unspecified manic-depressive psychoses	2
E211200	Depressive personality disorder	2
Eu25100	[X]Schizoaffective disorder, depressive type	2
Eu25111	[X]Schizoaffective psychosis, depressive type	2
Eu25112	[X]Schizophreniform psychosis, depressive type	2
Eu32B00	[X]Antenatal depression	2
Eu33213	[X]Manic-depress psychosis,depressd,no psychotic symptoms	2
Eu34y00	[X]Other persistent mood affective disorders	2
Eu34z00	[X]Persistent mood affective disorder, unspecified	2
Eu3y100	[X]Other recurrent mood affective disorders	2
Eu3z.00	[X]Unspecified mood affective disorder	2
1645.00	Excessive fluid intake	1
1B1J.00	Emotional problem	1
1B1J.11	Emotional upset	1
1BO00	Mood swings	1
1BP00	Loss of interest	1
1BT12	Sad mood	1
1S400	Mood observations	1
1S40.00	Dysphoric mood	1
	A-L - X	·

Read code	Description	Number of
	·	studies
388J.00 388K.00	Hospital anxiety and depression scale	1
388P.00	Geriatric depression scale  HAD scale: depression score	1
388g.00	Beck depression inventory second edition score	1
62T1.00	Puerperal depression	1
6896.00	Depression screening using questions	1
8082.00	Emotional and psychosocial support and advice	1
9ON3.00	Stress monitoring default	1
9ON4.00	Stress monitoring 1st letter	1
9ON5.00	Stress monitoring 2nd letter	1
9ON6.00	Stress monitoring 3rd letter	1
9ON7.00	Stress monitoring verbal inv.	1
9ON8.00	Stress monitoring phone invite	1
9ON9.00	Stress monitoring deleted	1
9ONA.00	Stress monitoring check done	1
9ONZ.00	Stress monitoring admin.NOS	1
E002.00	Senile dementia with depressive or paranoid features	1
E002z00	Senile dementia with depressive or paranoid features NOS	1
E004300	Arteriosclerotic dementia with depression	1
E115.11	Manic-depressive - now depressed	1
E115000	Bipolar affective disorder, currently depressed, unspecified	1
E115100	Bipolar affective disorder, currently depressed, mild	1
E115200	Bipolar affective disorder, currently depressed, moderate	1
E115300	Bipolar affect disord, now depressed, severe, no psychosis	1
E115400	Bipolar affect disord, now depressed, severe with psychosis	1
E115500	Bipolar affect disord, now depressed, part/unspec remission	1
E115600 E115z00	Bipolar affective disorder, now depressed, in full remission	1
E113200	Bipolar affective disorder, currently depressed, NOS Unspecified manic-depressive psychoses	1
E11z100	Rebound mood swings	1
E222	Rebound mood swings	1
E283.00	Other acute stress reactions	1
E283z00	Other acute stress reaction NOS	1
E284.00	Stress reaction causing mixed disturbance of emotion/conduct	1
E28z.00	Acute stress reaction NOS	1
E292.00	Adjustment reaction, predominant disturbance other emotions	1
E292400	Adjustment reaction with anxious mood	1
E292y00	Adjustment reaction with mixed disturbance of emotion	1
E292z00	Adjustment reaction with disturbance of other emotion NOS	1
E294.00	Adjustment reaction with disturbance emotion and conduct	1
E2C4.00	Mixed disturbance of conduct and emotion	1
E2C4z00	Mixed disturbance of conduct and emotion NOS	1
E35		1
E4J5		1
Eu02z16	[X] Senile dementia, depressed or paranoid type	1
Eu300	[X]Mood - affective disorders	1
Eu31.11	[X]Manic-depressive illness	1
Eu31300	[X]Bipolar affect disorder cur epi mild or moderate depressn	1
Eu31400	[X]Bipol aff disord, curr epis sev depress, no psychot symp	1
Eu31500 Eu31600	[X]Bipolar affect dis cur epi severe depres with psyc symp	1
Eu31600 Eu31y00	[X]Bipolar affective disorder, current episode mixed [X]Other bipolar affective disorders	1 1
Eu31y00 Eu31y11	[X]Bipolar II disorder	1
Lusiyii	[Λ]υΙροίαι τι αιδοίασι	I

Read code	Description	Number of studies
Eu31z00	[X]Bipolar affective disorder, unspecified	1
Eu33312	[X]Manic-depress psychosis,depressed type+psychotic symptoms	1
Eu34.00	[X]Persistent mood affective disorders	1
Eu3y.00	[X]Other mood affective disorders	1
Eu3y000	[X]Other single mood affective disorders	1
Eu3y011	[X]Mixed affective episode	1
Eu3yy00	[X]Other specified mood affective disorders	1
Eu400	[X]Neurotic, stress - related and somoform disorders	1
Eu43.00	[X]Reaction to severe stress, and adjustment disorders	1
Eu43000	[X]Acute stress reaction	1
Eu43012	[X]Acute reaction to stress	1
Eu43y00	[X]Other reactions to severe stress	1
Eu43z00	[X]Reaction to severe stress, unspecified	1
Eu92.11	[X]Emotional behavioural problems	1
R007z14	[D]Work stress	1
ZR2A.00	Beck depression inventory	1
ZR2A.11	BDI - Beck depression inventory	1
ZR2B.00	Beck hopelessness scale	1
ZR2G.00	Behaviour and mood disturbance scale	1
ZR2h.00	Brief depression rating scale	1
ZR700	Depression anxiety scale	1
ZR800	Depression self rating scale	1
ZR811	DSRS - Depression self rating scale	1
ZRBY.00	Edinburgh postnatal depression scale	1
ZRBY.11	EPDS - Edinburgh postnatal depression scale	1
ZRL6.00	Geriatric depression scale	1
ZRL6.11	GDS - Geriatric depression scale	1
ZRL6.12	Geriatric depression score	1
ZRLU.00	Hamilton rating scale for depression	1
ZRLU.11	HAMD - Hamilton rating scale for depression	1
ZRLU.12	HRSD - Hamilton rating scale for depression	1
ZRLfH00 ZRLfI00	Health of the Nation Outcome Scale item 7 - depressed mood Health of the Nation Outcome Scale item 7 - depressed mood	1
ZRLII00 ZRLn.00		1
ZRLII.00 ZRLr.00	Hopelessness scale Hospital anxiety and depression scale	1
ZRLr.11	HAD - Hospital anxiety and depression scale	1
ZRLr.12	HADS - Hospital anxiety and depression scale	1
ZRVM.00	Leeds scale for the self-assessment of anxiety & depression	1
ZRaH.00	Mood affective checklist	1
ZRaH.11	MACL - Mood affective checklist	1
ZRbS.00	Positive and negative affect schedule	1
ZRby.00	Profile of mood states	1
ZRby.11	POMS - Profile of mood states	1
ZRrl.00	Wakefield self-assessment depression inventory	1
ZRrY.00	WHO depression scale	1
ZRrc.00	Zung self-rating depression scale	1
ZRrc.11	SDS - Zung self-rating depression scale	1
ZV11100	[V]Personal history of affective disorder	1
ZV11111	[V]Personal history of manic-depressive psychosis	1
ZV11112	[V]Personal history of manic-depressive psychosis	1
	1 1	•

Table 3. List of Read codes used in the studies of composite outcomes of anxiety and depression.

Read code	Description	Number of
Eu32200	[X]Severe depressive episode without psychotic symptoms	studies 2
Eu33z00	[X]Recurrent depressive disorder, unspecified	2
Eu33400	[X]Recurrent depressive disorder, currently in remission	2
Eu33100	[X]Recurrent depressive disorder, current episode moderate	2
Eu33000	[X]Recurrent depressive disorder, current episode midderate	2
Eu33.00	[X]Recurrent depressive disorder	2
Eu33200	[X]Recurr depress disorder cur epi severe without psyc sympt	2
Eu41000	[X]Panic disorder [episodic paroxysmal anxiety]	2
Eu41y00	[X]Other specified anxiety disorders	2
Eu33y00	[X]Other recurrent depressive disorders	2
Eu32y00	[X]Other depressive episodes	2
Eu41.00	[X]Other anxiety disorders	2
Eu32100	[X]Moderate depressive episode	2
Eu41200	[X]Mixed anxiety and depressive disorder	2
Eu32000	[X]Mild depressive episode	2
Eu32400	[X]Mild depression	2
Eu41100	[X]Generalized anxiety disorder	2
Eu34100	[X]Dysthymia	2
Eu32z00	[X]Depressive episode, unspecified	2
Eu32.00	[X]Depressive episode	2
Eu41z00	[X]Anxiety disorder, unspecified	2
1B1U.00	Symptoms of depression	2
E112000	Single major depressive episode, unspecified	2
E112300	Single major depressive episode, severe, without psychosis	2
E112500	Single major depressive episode, partial or unspec remission	2
E112200	Single major depressive episode, moderate	2
E112100	Single major depressive episode, mild	2
E112600	Single major depressive episode, in full remission	2
E112z00	Single major depressive episode NOS	2
E112.00	Single major depressive episode	2
E118.00	Seasonal affective disorder	2
E113500	Recurrent major depressive episodes, partial/unspec remission	2
E113000	Recurrent major depressive episodes, unspecified	2
E113300	Recurrent major depressive episodes, severe, no psychosis	2
E113200	Recurrent major depressive episodes, moderate	2
E113100	Recurrent major depressive episodes, mild	2
E113600	Recurrent major depressive episodes, in full remission	2
E113z00	Recurrent major depressive episode NOS	2
E113.00	Recurrent major depressive episode	2
E113700	Recurrent depression	2
E200500	Recurrent anxiety	2
E291.00	Prolonged depressive reaction	2
E2B0.00	Postviral depression	2
E200100	Panic disorder	2
2257.00	O/E - depressed	2
E204.00	Neurotic depression reactive type	2
E200200	Generalised anxiety disorder	2
E2B00	Depressive disorder NEC	2
1BT00	Depressed mood	2
1B17.00	Depressed	2

Read code	Description	Number of studies
E2B1.00	Chronic depression	2
E200400	Chronic anxiety	2
E200300	Anxiety with depression	2
E200.00	Anxiety states	2
E200000	Anxiety state unspecified	2
E200z00	Anxiety state NOS	2
E135.00	Agitated depression	2
Eu33214	[X]Vital depression, recurrent without psychotic symptoms	1
Eu3z.00	[X]Unspecified mood affective disorder	1
Eu40100	[X]Social phobias	1
Eu40112	[X]Social neurosis	1
Eu32213	[X]Single episode vital depression w'out psychotic symptoms	1
Eu32314	[X]Single episode of reactive depressive psychosis	1
Eu32.13	[X]Single episode of reactive depression	1
Eu32313	[X]Single episode of psychotic depression	1
Eu32312	[X]Single episode of psychogenic depressive psychosis	1
Eu32.12	[X]Single episode of psychogenic depression	1
Eu32y12	[X]Single episode of masked depression NOS	1
Eu32311	[X]Single episode of major depression and psychotic symptoms	1
Eu32.11	[X]Single episode of major depression and psycholic symptoms  [X]Single episode of depressive reaction	1
Eu32212	[X]Single episode of depressive reaction  [X]Single episode major depression w'out psychotic symptoms	1
Eu32211	[X]Single episode major depression wout psychotic symptoms	1
Eu32300		1
Eu32300 Eu33.14	[X]Severe depressive episode with psychotic symptoms	1
	[X]Seasonal depressive disorder	
Eu33.15	[X]SAD - Seasonal affective disorder	1
Eu06y11	[X]Right hemispheric organic affective disorder	1
Eu33316	[X]Recurrent severe episodes/reactive depressive psychosis	1
Eu33315	[X]Recurrent severe episodes of psychotic depression	1
Eu33.13	[X]Recurrent episodes of reactive depression	1
Eu33.12	[X]Recurrent episodes of psychogenic depression	1
Eu33.11	[X]Recurrent episodes of depressive reaction	1
Eu33300	[X]Recurrent depress disorder cur epi severe with psyc symp	1
Eu3y111	[X]Recurrent brief depressive episodes	1
Eu33314	[X]Recurr severe episodes/psychogenic depressive psychosis	1
Eu33313	[X]Recurr severe episodes/major depression+psychotic symptom	1
Eu43z00	[X]Reaction to severe stress, unspecified	1
Eu43.00	[X]Reaction to severe stress, and adjustment disorders	1
Eu32z13	[X]Prolonged single episode of reactive depression	1
Eu42100	[X]Predominantly compulsive acts [obsessional rituals]	1
Eu20400	[X]Post-schizophrenic depression	1
Eu43100	[X]Post - traumatic stress disorder	1
Eu40.00	[X]Phobic anxiety disorders	1
Eu34.00	[X]Persistent mood affective disorders	1
Eu34z00	[X]Persistent mood affective disorder, unspecified	1
Eu34114	[X]Persistant anxiety depression	1
Eu41012	[X]Panic state	1
Eu40012	[X]Panic disorder with agoraphobia	1
Eu41011	[X]Panic attack	1
Eu3yy00	[X]Other specified mood affective disorders	1
Eu3y000	[X]Other single mood affective disorders	1
Eu3y100	[X]Other recurrent mood affective disorders	1
Eu43y00	[X]Other reactions to severe stress	1
Eu34y00	[X]Other persistent mood affective disorders	1

Read code	Description	Number of studies
Eu42y00	[X]Other obsessive-compulsive disorders	1
Eu3y.00	[X]Other mood affective disorders	1
Eu41300	[X]Other mixed anxiety disorders	1
Eu31y00	[X]Other bipolar affective disorders	1
Eu05300	[X]Organic mood [affective] disorders	1
Eu05400	[X]Organic anxiety disorder	1
Eu60513	[X]Obsessive-compulsive personality disorder	1
Eu42.12	[X]Obsessive-compulsive neurosis	1
Eu42z00	[X]Obsessive-compulsive disorder, unspecified	1
Eu42.00	[X]Obsessive - compulsive disorder	1
Eu400	[X]Neurotic, stress - related and somoform disorders	1
Eu34113	[X]Neurotic depression	1
Eu300	[X]Mood - affective disorders	1
Eu33z11	[X]Monopolar depression NOS	1
Eu3y011	[X]Mixed affective episode	1
Eu41211	[X]Mild anxiety depression	1
Eu31.13	[X]Manic-depressive reaction	1
Eu31.12	[X]Manic-depressive psychosis	1
Eu31.11	[X]Manic-depressive illness	1
Eu33312	[X]Manic-depress psychosis,depressed type+psychotic symptoms	1
Eu33213	[X]Manic-depress psychosis,depressd,no psychotic symptoms	1
Eu32700	[X]Major depression, severe without psychotic symptoms	1
Eu32800	[X]Major depression, severe with psychotic symptoms	1
Eu33212	[X]Major depression, recurrent without psychotic symptoms	1
Eu32600	[X]Major depression, moderately severe	1
Eu32500	[X]Major depression, mild	1
Eu33211	[X]Endogenous depression without psychotic symptoms	1
Eu33311	[X]Endogenous depression with psychotic symptoms	1
Eu51511	[X]Dream anxiety disorder	1
Eu34112	[X]Depressive personality disorder	1
Eu34111	[X]Depressive neurosis	1
Eu32z12	[X]Depressive disorder NOS	1
Eu92000	[X]Depressive conduct disorder	1
Eu32z11	[X]Depression NOS	1
Eu60511	[X]Compulsive personality disorder	1
Eu63011	[X]Compulsive personality disorder [X]Compulsive gambling [X]Combat fatigue [X]Ripolar affective disorder upspecified	1
Eu43013	[X]Combat fatigue	1
Eu31z00	[X]Bipolar affective disorder, unspecified	1
Eu31700	[X]Bipolar affective disorder, currently in remission	1
Eu31600	[X]Bipolar affective disorder, current episode mixed	1
Eu31900	[X]Bipolar affective disorder type II	1
Eu31800	[X]Bipolar affective disorder type I	1
Eu31.00	[X]Bipolar affective disorder	1
Eu31300	[X]Bipolar affect disorder cur epi mild or moderate depressn	1
Eu31500	[X]Bipolar affect dis cur epi severe depres with psyc symp	1
Eu31y11	[X]Bipolar II disorder	1
Eu31911	[X]Bipolar II disorder	1
Eu31400	[X]Bipol aff disord, curr epis sev depress, no psychot symp	1
Eu32y11	[X]Atypical depression	1
Eu41113	[X]Anxiety state	1
Eu41112	[X]Anxiety reaction	1
Eu41111	[X]Anxiety neurosis	1
Eu41y11	[X]Anxiety hysteria	1

Read code	Description	Number of studies
Eu41z11	[X]Anxiety NOS	1
Eu42.11	[X]Anankastic neurosis	1
Eu40011	[X]Agoraphobia without history of panic disorder	1
Eu40000	[X]Agoraphobia	1
Eu3z.11	[X]Affective psychosis NOS	1
Eu34011	[X]Affective personality disorder	1
Eu43000	[X]Acute stress reaction	1
Eu43012	[X]Acute reaction to stress	1
Eu32z14	[X] Reactive depression NOS	1
ZV11112	[V]Personal history of manic-depressive psychosis	1
ZV11111	[V]Personal history of manic-depressive psychosis	1
ZV11100	[V]Personal history of affective disorder	1
R2y2.00	[D]Nervousness	1
1BK00	Worried	1
E11y000	Unspecified manic-depressive psychoses	1
E117400	Unspecified bipolar affective disorder, severe with psychosis	1
E117000	Unspecified bipolar affective disorder, unspecified	1
E117300	Unspecified bipolar affective disorder, severe, no psychosis	1
E117200	Unspecified bipolar affective disorder, moderate	1
E117100	Unspecified bipolar affective disorder, mild	1
E117600	Unspecified bipolar affective disorder, in full remission	1
E117z00	Unspecified bipolar affective disorder, NOS	1
E117.00	Unspecified bipolar affective disorder	1
E117500	Unspecified bipolar affect disord, partial/unspec remission	1
E11z000	Unspecified affective psychoses NOS	1
E211000	Unspecified affective personality disorder	1
1JJ00	Suspected depression	1
E284.00	Stress reaction causing mixed disturbance of emotion/conduct	1
67J00	Stress counselling	1
E202.11	Social phobic disorders	1
E112400	Single major depressive episode, severe, with psychosis	1
E002z00	Senile dementia with depressive or paranoid features NOS	1
E002.00	Senile dementia with depressive or paranoid features	1
E002100	Senile dementia with depression	1
1BT12	Sad mood	1
8HHq.00	Referral for guided self-help for depression	1
8HHp.00	Referral for guided self-help for anxiety	1
Z4I7211	Reducing anxiety	1
E113400	Recurrent major depressive episodes, severe, with psychosis	1
Z4I7100	Recognising anxiety	1
E11z100	Rebound mood swings	1
E130.00	Reactive depressive psychosis	1
E130.11	Psychotic reactive depression	1
E001300	Presenile dementia with depression	1
	·	
E2A2.11 E202.00	Post-traumatic brain syndrome Phobic disorders	1
E202.00 E202.12	Phobic anxiety	1
E202.12 E202000		
8CAa.00	Phobia unspecified  Patient given advice about management of depression	1
E200111	Patient given advice about management of depression  Panic attack	1
		1
E29y100	Other post-traumatic stress disorder	1
E11y300	Other mixed manic-depressive psychoses	1
E11yz00	Other and unspecified manic-depressive psychoses NOS	1

Read code	Description	Number of
E11y.00	Other and unspecified manic-depressive psychoses	studies 1
E11z.00	Other and unspecified affective psychoses	1
E11zz00	Other affective psychosis NOS	1
E283.00	Other acute stress reactions	1
E283z00	Other acute stress reaction NOS	1
E03y200	Organic affective syndrome	1
9kQ00	On full dose long term treatment depression - enh serv admin	1
9HA0.00	On depression register	1
E203.00	Obsessive-compulsive disorders	1
E203z00	Obsessive-compulsive disorder NOS	1
E214100	Obsessional personality	1
E203100	Obsessional neurosis	1
225J.00	O/E - panic attack	1
2259.00	O/E - pervous	1
2258.00 225K.00	O/E - fearful mood	1
2253.00	O/E - distressed	1
2258.00	O/E - anxious	
		1
E116000	Mixed bipolar affective disorder, unspecified	1
E116300	Mixed bipolar affective disorder, severe, without psychosis	1
E116400	Mixed bipolar affective disorder, severe, with psychosis	1
E116500	Mixed bipolar affective disorder, partial/unspec remission	1
E116200	Mixed bipolar affective disorder, moderate	1
E116100	Mixed bipolar affective disorder, mild	1
E116600	Mixed bipolar affective disorder, in full remission	1
E116z00	Mixed bipolar affective disorder, NOS	1
E116.00	Mixed bipolar affective disorder	1
E11z200	Masked depression	1
E115.11	Manic-depressive - now depressed	1
13Y3.00	Manic-depression association member	1
1BT11	Low mood	1
1BU00	Loss of hope for the future	1
1BQ00	Loss of capacity for enjoyment	1
146D.00	H/O: manic depressive disorder	1
1465.00	H/O: depression	1
1466.00	H/O: anxiety state	1
1B1H.00	Frightened	1
Z522600	Flooding - obsessional compulsive disorder	1
1B1T.00	Feeling stressed	1
16ZB100	Feeling low or worried	1
E202D00	Fear of death	1
1B1H.11	Fear	1
9hC00	Exception reporting: depression quality indicators	1
9hC0.00	Excepted from depression quality indicators: Patient unsuita	1
9hC1.00	Excepted from depression quality indicators: Informed dissen	1
E112.13	Endogenous depression first episode	1
E112.12	Endogenous depression first episode	1
E113.11	Endogenous depression - recurrent	1
E112.14	Endogenous depression	1
9N54.00	Encounter for fear	1
1B1U.11	Depressive symptoms	1
E1112	Depressive psychoses	1
E211200	Depressive personality disorder	1
9Ov3.00	Depression monitoring verbal invite	1

Read code	Description	Number of studies
90v2.00	Depression monitoring third letter	1
90v4.00	Depression monitoring telephone invite	1
90v1.00	Depression monitoring second letter	1
90v0.00	Depression monitoring first letter	1
90v00	Depression monitoring administration	1
9H91.00	Depression medication review	1
8BK0.00	Depression management programme	1
9H92.00	Depression interim review	1
9H90.00	Depression annual review	1
9k400	Depression - enhanced services administration	1
9k40.00	Depression - enhanced service completed	1
E214.00	Compulsive personality disorders	1
E214z00	Compulsive personality disorder NOS	1
E203000	Compulsive neurosis	1
1P300	Compulsive behaviour	1
E2811	Combat fatigue	1
1B1V.00	C/O - panic attack	1
1B17.11	C/O - feeling depressed	1
E290z00	Brief depressive reaction NOS	1
E290.00	Brief depressive reaction	1
E1111	Bipolar psychoses	1
E115600	Bipolar affective disorder, now depressed, in full remission	1
E115000	Bipolar affective disorder, currently depressed, unspecified	1
E115200	Bipolar affective disorder, currently depressed, moderate	1
E115100	Bipolar affective disorder, currently depressed, mild	1
E115z00	Bipolar affective disorder, currently depressed, NOS	1
E115.00	Bipolar affective disorder, currently depressed	1
E115300	Bipolar affect disord, now depressed, severe, no psychosis	1
E115400	Bipolar affect disord, now depressed, severe with psychosis	1
E115500	Bipolar affect disord, now depressed, part/unspec remission	1
E11y200	Atypical depressive disorder	1
E004300	Arteriosclerotic dementia with depression	1
1B1H.12	Apprehension	1
1B13.00	Anxiousness	1
8G94.00	Anxiety management training	1
Z4L1.00	Anxiety management training Anxiety counselling Anxiety about breathlessness Antidepressant drug treatment started	1
173f.00	Anxiety about breathlessness	1
6659000	7 indepressant drug treatment states	1
E214000	Anankastic personality	1
E203.11	Anancastic neurosis	1
Z4I7200	Alleviating anxiety	1
E202200	Agoraphobia without mention of panic attacks	1
E202100	Agoraphobia with panic attacks	1
E112.11	Agitated depression	1
E1100	Affective psychoses	1
E211.00	Affective personality disorder	1
E292400	Adjustment reaction with anxious mood	1
E282.00	Acute stupor state due to acute stress reaction	1
E28z.00	Acute stress reaction NOS	1
E2800	Acute reaction to stress	1
E283100	Acute posttrauma stress state	1
E280.00	Acute panic state due to acute stress reaction	1
E281.00	Acute fugue state due to acute stress reaction	1

Read code	Description	Number of studies
Z4I7.00	Acknowledging anxiety	1
1B12.00	'Nerves' - nervousness	1
9kQ11		1



Table 4. List of Read codes used in the studies of cognitive impairment.

D I I.	D	Number of
Read code	Description	studies
Eu01.00	[X]Vascular dementia	13
Eu01200	[X]Subcortical vascular dementia	13
Eu00112	[X]Senile dementia,Alzheimer's type	13
Eu00011	[X]Presenile dementia, Alzheimer's type	13
Eu01100	[X]Multi-infarct dementia	13
Eu00.00	[X]Dementia in Alzheimer's disease	13
Eu01.11	[X]Arteriosclerotic dementia	13
Eu00z11	[X]Alzheimer's dementia unspec	13
E000.00	Uncomplicated senile dementia	13
E004.11	Multi infarct dementia	13
E004.00	Arteriosclerotic dementia	13
F110000	Alzheimer's disease with early onset	13
F110.00	Alzheimer's disease	13
Eu01z00	[X]Vascular dementia, unspecified	12
Eu01000	[X]Vascular dementia of acute onset	12
Eu00012	[X]Primary degen dementia, Alzheimer's type, presenile onset	12
Eu00113	[X]Primary degen dementia of Alzheimer's type, senile onset	12
Eu01111	[X]Predominantly cortical dementia	12
Eu00z00	[X]Dementia in Alzheimer's disease, unspecified	12
Eu00100	[X]Dementia in Alzheimer's disease with late onset	12
Eu00000	[X]Dementia in Alzheimer's disease with early onset	12
Eu00200	[X]Dementia in Alzheimer's dis, atypical or mixed type	12
Eu00013	[X]Alzheimer's disease type 2	12
Eu00111	[X]Alzheimer's disease type 1	12
E004000	Uncomplicated arteriosclerotic dementia	12
E004200	Arteriosclerotic dementia with paranoia	12
E004300	Arterioscleratic dementia with depression	12
E004100 E004z00	Arteriosclerotic dementia with delirium  Arteriosclerotic dementia NOS	12 12
F110100	Alzheimer's disease with late onset	12
		11
Eu01y00 Eu01300	[X]Other vascular dementia [X]Mixed cortical and subcortical vascular dementia	11
Eu01300 Eu02.00	[X]Dementia in other diseases classified elsewhere	11
Eu02.00 Eu02300	[X]Dementia in Parkinson's disease	11
Eu02300 Eu02z00	[X] Unspecified dementia	11
Eu02z14	[X] Senile dementia NOS	11
E0012	Senile/presenile dementia	11
E002000	Senile dementia with paranoia	11
E002100	Senile dementia with depression	11
E001.00	Presenile dementia	11
E041.00	Dementia in conditions EC	11
Fyu3000	[X]Other Alzheimer's disease	10
Eu02500	[X]Lewy body dementia	10
Eu02300 Eu02y00	[X]Dementia in other specified diseases classif elsewhere	10
Eu04100	[X]Delirium superimposed on dementia	10
Eu02z16	[X] Senile dementia, depressed or paranoid type	10
Eu02z10 Eu02z13	[X] Primary degenerative dementia NOS	10
Eu02z13	[X] Presenile dementia NOS	10
E001000	Uncomplicated presentile dementia	10
E002z00	Senile dementia with depressive or paranoid features NOS	10
E002.00	Senile dementia with depressive or paranoid features  Senile dementia with depressive or paranoid features	10
2002.00	SSS GOMONIA WAY GOPTOSOIVE OF PARAMOIA TOALAICS	10

Read code	Description	Number of
E003.00	Senile dementia with delirium	studies 10
E0011	Senile dementia	10
E001200	Presenile dementia with paranoia	10
E001300	Presenile dementia with depression	10
E001100	Presenile dementia with delirium	10
E001z00	Presenile dementia NOS	10
Eu02000	[X]Dementia in Pick's disease	9
Eu02200	[X]Dementia in Huntington's disease	9
Eu02400	[X]Dementia in human immunodef virus [HIV] disease	8
Eu02100	[X]Dementia in Creutzfeldt-Jakob disease	8
F112.00	Senile degeneration of brain	8
F116.00	Lewy body disease	8
F111.00	Pick's disease	7
E012.00	Other alcoholic dementia	6
E012.11	Alcoholic dementia NOS	6
Eu10711	[X]Alcoholic dementia NOS	5
E00z.00	Senile or presenile psychoses NOS	5
6AB00	Dementia annual review	5
Eu02z15	[X] Senile psychosis NOS	4
Eu02z12	[X] Presenile psychosis NOS	4
ZS7C500	Language disorder of dementia	4
E02y100	Drug-induced dementia	4
66h00	Dementia monitoring	4
R00z011	[D]Memory deficit	3
e000.00	Uncomplicated senile dementia	3
Z7CEG00 Z7CF811	Transient memory loss Short-term memory loss	3
E0000	Senile and presenile organic psychotic conditions	3
2900	SENILE DEMENTIA	3
Z7CF800	Poor short-term memory	3
Z7CEH15	Poor memory	3
2901A	PRESENILE DEMENTIA	3
E00y.00	Other senile and presenile organic psychoses	3
3A30.00	Memory: present place not knwn	3
Z7CEH14	Memory problem	3
1B1A.12	Memory problem  Memory loss symptom  Memory loss - amnesia  Memory loss	3
1B1A.00	Memory loss - amnesia	3
Z7CE611	Memory loss	3
Z7CEJ00	Memory lapses	3
Z7CEH00	Memory impairment	3
1B1A.13	Memory disturbance	3
Z7CEC11	Loss of memory for recent events	3
Z7CE615	Loss of memory	3
1461.00	H/O: dementia	3
3AE6.00	GDS level 7 - very severe cognitive decline	3
3AE5.00	GDS level 6 - severe cognitive decline	3
3AE4.00	GDS level 5 - moderately severe cognitive decline	3
3AE3.00 3AE2.00	GDS level 4 - moderate cognitive decline GDS level 3 - mild cognitive decline	3
3AE2.00 3AE1.00	GDS level 3 - mild cognitive decline GDS level 2 - very mild cognitive decline	3
2930	DEMENTIA ARTERIOSCLEROTIC	3
299 G	DEMENTIA ARTERIOSCELICOTIC  DEMENTIA AGGRESSIVE	3
299 B	DEMENTIA	3
		3

Read code	Description	Number of
E012000	Chronic alcoholic brain syndrome	studies 3
1B1A.11	Amnesia symptom	3
ZR1K.00	Alzheimer's disease assessment scale	3
2901B	ALZHEIMER'S DISEASE	3
ZR1K.11	ADAS - Alzheimer's disease assessment scale	3
Eu80200	[X]Receptive language disorder	2
R00z000	[D]Amnesia (retrograde)	2
ZS78D00	Wernicke's dysphasia	2
ZS78D13	Wernicke's aphasia	2
Z7C3500	Unable to use verbal reasoning	2
Z7C3200	Unable to reason	2
Z7C5100	Unable to concentrate	2
1B1A000	Temporary loss of memory	2
Z7CEF00	Temporary loss of memory	2
Z7C5313	Short concentration span	2
Z7C5312	Short attention span	2
1BR0.11	Short attention span	2
8HTY.00	Referral to memory clinic	2
8Hla.00	Referral to dementia care advisor	2
Z7C5300	Reduced concentration span	2
1BR00	Reduced concentration	2
Z7C5311	Reduced attention span	2
E00y.11	Presbyophrenic psychosis	2
Z7CEB12	Poor memory for remote events	2
Z7CFO00	Poor long-term memory	2
1BW00	Poor concentration	2
Z7CEC12	No memory for recent events	2
Z7CEK00	Minor memory lapses	2
Z7CEL00	Mild memory disturbance	2
E2A1000	Mild memory disturbance	2
3A40.00	Memory: present year not known	2
3A20.00	Memory: present time not known	2
3A10.00	Memory: own age not known	2
3A50.00	Memory: own DOB not known	2
3A70.00	Memory: import person not kn	2
3A80.00	Memory: import.person not knwn Memory: count down unsuccess.	2 2
3A91.00 3AA1.00	Memory: important event not kn Memory: import.person not knwn Memory: count down unsuccess. Memory: address recall unsucc.	2
Z7A1500	Memory retraining	2
Z7CE412	Memory loss symptom	2
Z7CE412 Z7CE614	Memory loss symptom  Memory loss - amnesia	2
Z7CE413	Memory loss - amnesia	2
Z7CE612	Memory gone	2
Z7CEH11	Memory dysfunction	2
Z7CE400	Memory disturbance (& amnesia (& symptom))	2
Z7CE414	Memory disturbance (& arrinesia (& symptom))	2
Z7CEH12	Memory deficit	2
Z7CFx00	Memory aided by use of labels	2
Z7CE415	Loss of memory	2
Z7CFO11	Long-term memory loss	2
Z7C5111	Lack of concentration	2
Z7CE616	LOM - Loss of memory	2
2901D	JACOB- CREUZFELDT DISEASE WITH DEMENTIA	2
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Read code	Description	Number of
Z7CEN11	Invents experiences to compensate for loss of memory	studies 2
Z7CEA11	Impairment of working memory	2
Z7CEA13	Impairment of primary memory	2
Z7C1.00	Impaired cognition	2
129B.00	FH: Alzheimer's disease	2
Z7A1A00	Executive functions training	2
9hD0.00	Excepted from dementia quality indicators: Patient unsuitabl	2
9hD1.00	Excepted from dementia quality indicators: Informed dissent	2
1S21.00	Disturbance of memory for order of events	2
Z7C3C00	Difficulty using visuospatial reasoning	2
Z7C3600	Difficulty using verbal reasoning	2
Z7C3300	Difficulty reasoning	2
Z7C4A00	Difficulty processing information at normal speed	2
Z7C4700	Difficulty processing information accurately	2
Z7C4300	Difficulty processing information	2
Z7CI100	Difficulty making plans	2
ZR3V.13	Dementia rating scale	2
9Ou4.00	Dementia monitoring verbal invite	2
9Ou3.00	Dementia monitoring third letter	2
9Ou5.00	Dementia monitoring telephone invite	2
9Ou2.00	Dementia monitoring second letter	2
9Ou1.00	Dementia monitoring first letter	2 2
3A12 Z7CGP00	Dementia assessment	2
ZR3V.11	Delayed verbal memory DRS - Clinical dementia rating scale	2
Y0601JS	DEMENTIA CLINIC ATTENDANCE	2
Y060 JS	DEMENTIA CLINIC	2
2919	DEMENTIA ALCOHOLIC	2
Z7300	Cognitive intervention strategies	2
28E00	Cognitive decline	2
ZR3V.00	Clinical dementia rating scale	2
ZR3V.12	CDR - Clinical dementia rating scale	2
Z7CEH13	Bad memory	2
ZR2X.12	BDRS - Blessed dementia rating scale	2
Z7A1400	Attention training	2
Z7CE600	Amnesia	2
EU02y0		2
X0034		2
AE00		2
Ryu5.00	[X]Symptoms/signs inv cognit, percept, emotion state & behav	1
Eu80000	[X]Specific speech articulation disorder	1
Eu81500	[X]Severe learning disability	1
Eu81700	[X]Profound learning disability	1
Ryu5000	[X]Other amnesia	1
Ryu5100	[X]Oth & unspec symptom/sign involv cognit funct/awareness	1
Eu81600	[X]Mild learning disability	1
Eu05700	[X]Mild cognitive disorder	1
Eu81z12	[X]Learning disorder NOS	1
Eu81z11	[X]Learning disability NOS	1
Eu81z13 Eu03.11	[X]Learn acquisition disab NOS	1
Eu03.11 Eu10611	[X]Korsakov's psychosis, nonalcoholic [X]Korsakov's psychosis, alcohol induced	1
Eu10611 Eu80014	[X]Functional speech articulation disorder	1
Lu00014	ניגןי עווטנוטוומו אףפפטו מדווטנומנוטוו עופטועפו	ı

D I I.	Provide the control of the control o	Number of
Read code	Description	studies
Eu80100	[X]Expressive language disorder	1
Eu90000	[X]Disturbance of activity and attention	1
Eu44000	[X]Dissociative amnesia	1
Ryu5700	[X]Disorientation, unspecified	1
Eu10712	[X]Chronic alcoholic brain syndrome	1
Eu80600	[X]Auditory processing disorder	1
Eu90011	[X]Attention deficit hyperactivity disorder	1
Eu9y700	[X]Attention deficit disorder	1
ZS91.12	[X]Attention deficit disorder	1
Eu04.12	[X]Acute / subacute confusional state, nonalcoholic	1
ZV40000	[V]Problems with learning	1
R045100	[D]Dysphasia	1
R00zX00	[D]Disorientation, unspecified	1
R043.00	[D]Aphasia	1
R00z500	[D]Anterograde amnesia	1
E011200	Wernicke-Korsakov syndrome	1
C253.00	Wernicke's encephalopathy	1
C251.11	Wernicke's encephalopathy	1
Z7CMB00	Visuospatial agnosia	1
Z7A1800	Visual processing training	1
F481J00	Visual disorientation syndrome	1
F584000	Unspecified other abnormal auditory perception	1
Z7CH300	Unrealistic planning	1
Z7C7200	Unable to write	1
ZT46200	Unable to use verbal communication	1
ZT49200	Unable to use non-verbal communication	1
ZT47200	Unable to use language	1
Z7CI500	Unable to use decision-making strategies	1
Z7C6200	Unable to tell the time	1
ZT4f200	Unable to responds to communication by others	1
Z7C2600	Unable to recognise surroundings	1
Z7C2200	Unable to recognise sounds	1
Z7C2D00	Unable to recognise parts of own body	1
Z7C2L11	Unable to recognise objects visually	1
Z7C2L00	Unable to recognise objects by sight	1
Z7C2H00	Unable to recognise objects	1
Z7C2T00	Unable to recognise objects by sight Unable to recognise objects Unable to recognise familiar people Unable to recognise fame by sight	1
Z7C2R00	Onable to recognise races by signit	1
Z7C2P00	Unable to recognise faces	1
Z7CFC00	Unable to recall five digit number at five minutes	1
Z7C8200	Unable to read	1
Z7C4900	Unable to process information at normal speed	1
Z7C4600	Unable to process information accurately	1
Z7C4200	Unable to process information	1
ZM18200	Unable to plan meals	1
Z7CH200	Unable to plan	1
ZN28200	Unable to organise a journey	1
Z7CI900	Unable to make considered choices	1
Z7C4C00	Unable to analyse information	1
1B1S.00	Transient global amnesia	1
Z7CE700	Transient global amnesia	1
ZS78600	Transcortical sensory dysphasia	1
ZS78411	Transcortical motor aphasia	1

Read code	Description	Number of studies
Z7CE711	TGA - Transient global amnesia	1
ZS78300	Subcortical aphasia	1
E031.00	Subacute confusional state	1
Z7A2200	Strategy training for perceptual skills	1
ZS500	Speech and language dyspraxias	1
ZS00	Speech and language disorder	1
ZS73.00	Specific language impairment	1
ZS73.11	Specific language disorder	1
Z7CC700	Spatial disorientation	1
Z7CD400	Slow learner	1
F483200	Simultaneous visual perception without fusion	1
1B1A100	Short-term memory loss	1
28E2.00	Severe cognitive impairment	1
ZS78A00	Semantic dysphasia	1
9Nk1.00	Seen in memory clinic	1
9N0y.00	Seen in learning disabilities clinic	1
342 CP	SENILE PARKINSONISM	1
Z7CE900	Retrograde amnesia	1
8HHP.00	Referral to learning disability team	1
8H4f.00	Referral to learning disabilities psychiatrist	1
1BR0.00	Reduced concentration span	1
ZS72.00	Receptive language impairment	1
ZS78C00	Receptive dysphasia	1
ZS78C11	Receptive aphasia	1
Z7A1700	Reality orientation	1
Z7A1711	RO - Reality orientation	1
Z7CE911	RA - Retrograde amnesia	1
ZRbf.00	Psycholinguistic assessments of language process in aphasia	1
ZD38300	Promoting aphasics communication effectiveness programme	1
8G96.00	Problem solving therapy	1
ZS78F00	Posterior dysphasia	1
1B1Y.00	Poor visual sequential memory	1
1B1a.00	Poor auditory sequential memory	1
F591z00	Perceptive hearing loss NOS	1
F591.14	Perceptive hearing loss	1
F591.13	Perceptive deafness	1
Z7CL700	Perception that things appear grey	1
Z7CL800	Perception that things appear flat	1
Z7CLE00	Perception of things changing size	1
Z7CLH00	Perception of things changing shape	1
Z7CL911	Perception of things changing colour	1
E2F2.00	Other specific learning difficulty	1
F584z00	Other abnormal auditory perception NOS	1
F584.00	Other abnormal auditory perception	1
Z7A1600	Orientation training	1
Z7CC312	Orientation poor	1
Z7CC311	Orientation confused	1
E2A1100	Organic memory impairment	1
918e.00	On learning disability register	1
29J4.00	O/E - sensory inattention	1
2B46.11	O/E - sensory dysphasia	1
2B43.00	O/E - sensory aphasia	1
2BM3.11	O/E - perceptive deafness	1

Read code	Description	Number of studies
2B45.11	O/E - motor dysphasia	1
2B42.00	O/E - motor aphasia	1
2B46.00	O/E - dysphasia - sensory	1
2B45.00	O/E - dysphasia - motor	1
2B47.00	O/E - dysphasia - NOS	1
2B412	O/E - dysphasia	1
2B44.00	O/E - aphasia NOS	1
2B411	O/E - aphasia	1
ZS78I00	Non-fluent dysphasia	1
ZS78I11	Non-fluent aphasia	1
28E1.00	Moderate cognitive impairment	1
ZS78200	Mixed transcortical dysphasia	1
ZS78900	Mixed dysphasia	1
ZS78911	Mixed aphasia	1
Z7C2700	Mistakes people's identity	1
28E0.00	Mild cognitive impairment	1
3A60.00	Memory: present month not knwn	1
3A11.00	Memory: own age known	1
Z7A1300	Memory skills training	1
Z7CFz00	Memory aided by use of lists	1
Z7CFw00	Memory aided by use of diary	1
ZS34.11	Learning disability	1
9HB2.00	Learning disabilities health action plan reviewed	1
9HB1.00	Learning disabilities health action plan offered	1
9HB0.00	Learning disabilities health action plan declined	1
9HB4.00	Learning disabilities health action plan completed	1
9HB6.11	Learning disabilities annual health check declined	1
9HB6.00	Learning disabilities annual health assessment declined	1
9HB5.00	Learning disabilities annual health assessment	1
Z7CD200	Learning difficulties	1
ZS300	Language-related cognitive disorder	1
ZS700	Language impairment	1
ZS7C600	Language disorder associated with thought disorder	1
13ZA.00	Language difficulty	1
E011100	Korsakov's alcoholic psychosis with peripheral neuritis	1
E011000	Korsakov's alcoholic psychosis	1
E040.11	Korsakoff's non-alcoholic psychosis	1
ZS78D12	Jargon dysphasia	1
ZS78D11	Jargon aphasia	1
A411.00	Jakob-Creutzfeldt disease	1
ZS78212	Isolation dysphasia	1
Z7CEA12	Impairment of immediate recall	1
Z7CD300	Impaired ability to learn new material	1
E201700	Hysterical amnesia	1
Z7CL100	Heightened visual perception	1
Z7CL 000	Heightened perception of touch	1 1
Z7CLD00	Heightened perception of taste	
Z7CLN11	Heightened perception of sound	1
Z7CLN11 Z7CLN12	Heightened perception of smells	1
Z7CLN12 Z7CLN00	Heightened perception of odours  Heightened olfactory perception	1 1
Z7CLN00 Z7CLP00	Heightened auditory perception	1
ZRLfE00	Health of the Nation Outcome Scale item 4 - cognitive probl	1
LINLILUU	ricaliti of the Hation Outcome Scale Item 4 - Cognitive probl	1

Read code	Description	Number of studies
Z7CF200	Has delayed recall	1
ZS78800	Global dysphasia	1
3AE00	Global deterioration scale: assessment of prim deg dementia	1
ZS78811	Global aphasia	1
Z7CE500	Forgetful	1
ZS78E11	Fluent aphasia	1
1281.00	FH: Senile dementia	1
ZS71.00	Expressive language impairment	1
ZS84.00	Expressive language disorder	1
ZS78G11	Expressive aphasia	1
9hD00	Exception reporting: dementia quality indicators	1
ZS78K00 ZS78K11	Efferent motor dysphasia Efferent motor aphasia	1
ZS78.00	Dysphasia	1
ZT46400	Does not use verbal communication	1
ZT4J400	Does not use the elements of language	1
ZT49400	Does not use non-verbal communication	1
ZT4f400	Does not respond to communication by others	1
Z7C2900	Does not recognise self	1
Z7C2A00	Does not recognise photographs of self	1
Z7CEM00	Distortion of memory	1
Z7CC600	Disorientation for person	1
Z7C7300	Difficulty writing	1
ZT46500	Difficulty using verbal communication	1
ZT49500	Difficulty using non-verbal communication	1
Z7CI600	Difficulty using decision-making strategies	1
ZT4A500	Difficulty using a non-speech system for communication	1
Z7CJ100	Difficulty solving problems	1
Z7C8300	Difficulty reading	1
ZM18500	Difficulty planning meals	1
Z7C9300	Difficulty performing logical sequencing	1
ZN28500	Difficulty organising a journey	1
Z7CI200	Difficulty making decisions	1
Z7CIA00	Difficulty making considered choices	1
ZT4g500	Difficulty imitating forms of communication	1
Z7C4D00	Difficulty analysing information	1
9HB7.11	Did not attend learning disabilities annual health check	1
9HB7.00	Did not attend learning disabilities annual health assessmnt	1
9Ou00 ZS93.11	Dementia monitoring administration  DAMP - Deficits in attention motor control and perception	1
ZS78B11	Conduction aphasia	1
F591y00	Combined perceptive hearing loss	1
Z7A1.00	Cognitive skills training	1
ZD15.00	Cognitive neuropsychological language therapy	1
ZD38200	Cognitive behavioural language therapy	1
E2E0z00	Child attention deficit disorder NOS	1
E2E0.00	Child attention deficit disorder	1
Z7CLK00	Changed perception of time	1
F11x700	Cerebral degeneration due to Jakob - Creutzfeldt disease	1
ZS78H00	Broca's dysphasia	1
ZS78H11	Broca's aphasia	1
ZS76.00	Auditory processing disorder	1
E2E0000	Attention deficit without hyperactivity	1

Read code	Description	Number of studies
ZS91.00	Attention deficit disorder	1
ZS78.11	Aphasia	1
Z7CE811	Antegrade amnesia	1
ZS78511	Anomic aphasia	1
ZS78500	Anomia	1
Z7CEB00	Amnesia for remote events	1
Z7CEC00	Amnesia for recent events	1
Z7CEE00	Amnesia for important personal information	1
Z7CED00	Amnesia for day to day facts	1
13Y7.00	Alzheimer's disease society member	1
ZS7C.00	Acquired language disorder	1
ZS78100	Acquired dysphasias	1
9OIA.00	ADHD monitoring invitation third letter	1
9018.00	ADHD monitoring invitation first letter	1
ZS91.11	ADD - Attention deficit disorder	1
Z7C2N00		1
E0120		1
6AB.00		1
Z7C3800		1
Xa25J		1
Z7CEB11		1
Z7CC800 Z7C2J00		1
X00Rk		1 1
Z7C3B00		1
Z7A1100		1
Z7C6300		1
Z7C9200		1
Z7C3900		1
Z7C2F00		1
Z7C2B00		1
Z7A1712		1
Z7A2100		1
Z7A2300		1
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Table 5. List of Read codes used in the studies of fatigue.

		Number of
Read code	Description	studies
16800	Tiredness symptom	3
16811	Fatigue - symptom	3
16812	Lethargy - symptom	3
1682.00	Fatigue	3
1683.00	Tired all the time	3
1684.11	C/O - debility - malaise	3
168Z.00	Tiredness symptom NOS	3
8HkW.00	Referral to chronic fatigue syndrome specialist team	3
8HIL.00	Referral for chronic fatigue syndrome activity management	3
8Q100	Activity management for chronic fatigue syndrome	3
E205.00	Neurasthenia - nervous debility	3
E205.12	Tired all the time	3
Eu46011	[X]Fatigue syndrome	3
F286.00	Chronic fatigue syndrome	3
F286.11	CFS - Chronic fatigue syndrome	3
F286.12	Postviral fatigue syndrome	3
F286.13	PVFS - Postviral fatigue syn	3
F286.14	Post-viral fatigue syndrome	3
F286.15	Myalgic encephalomyelitis	3
F286.16	ME - Myalgic encephalomyelitis	3
F286000	Mild chronic fatigue syndrome	3
F286100	Moderate chronic fatigue syndrome	3
F286200	Severe chronic fatigue syndrome	3
R007.00	[D]Malaise and fatigue	3
R007100 R007211	[D]Fatigue	3
R007211	[D]General weakness [D]Lethargy	3
R007400	[D]Postviral (asthenic) syndrome	3
R007400 R007411	[D]Post viral debility	3
R007500	[D]Tiredness	3
R007500	[D]Malaise and fatigue NOS	3
16813	Malaise - symptom	2
1683.11	C/O - 'tired all the time'	2
1684.00	Malaise/lethargy	2
1684.13	C/O - postviral syndrome	2
1688.00	Exhaustion	2
1B312	Weakness symptoms	2
E205.11	Nervous exhaustion	2
Eu46000	[X]Neurasthenia	2
F03y.12	Myalgic encephalomyelitis	2
N239.00	Fibromyalgia	2
N248.00	Fibromyalgia	2
R007000	[D]Malaise	2
R007200	[D]Asthenia NOS	2
R2y3.00	[D]Debility, unspecified	2
16814	C/O 'Muzzy head'	1
1B32.00	Weakness present	1
8HkW.11	Referral to myalgic encephalomyelitis specialist team	1
8Q111	Activity management for myalgic encephalopathy	1
A4zy300	Encephalitis lethargica	1
Eu46y14	[X]Psychasthenia	1
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Read code	Description	Number of studies
Eu46y15	[X]Psychasthenia neurosis	1
R007600	[D]Post polio exhaustion	1
R007z11	[D]Lassitude	1
R202.00	[D]Senile asthenia	1
SN44.00	Exhaustion due to exposure	1

Table 6. List of Read codes used in the studies of pain.

Read code	Description	Number of studies
NyuAG	[X]Uns sof tis d,use/overu/prs	2
NyuA	[X]Other soft tissue disorders	2
Nyu80	[X]Other myositis	2
Nyu3	[X]Other joint disorders	2
Ryu70	[X]Other chronic pain	2
NyuAF	[X]Oth spcf soft tissu disords	2
Nyu85	[X]Oth spcf disorders/muscle	2
NyuAA	[X]Oth sft tis diso/oth dis CE	2
Nyu8A	[X]Oth disordrs/muscle/dis CE	2
Nyu9	[X]Disorders/synovium+tendon	2
Nyu8	[X]Disorders of muscles	2
Nyu8B	[X]Disorder of muscle, unspec	2
R01zz	[D]Nerv/musculoskel.sympt.NOS	2
R01z	[D]Nerv/musculoskel.symp.other	2
R01	[D]Musculoskeletal symptoms	2
R01z2	[D]Musculoskeletal pain	2
R00z2	[D]General aches and pains	2
N22z	Synovium/tendon/bursa dis.NOS	2
N0950	Stiff joint NEC-site unspecif.	2
N0958	Stiff joint NEC-other specif.	2
N240	Rheumatism/fibrositis NOS	2
N2	Rheumatism, excl.the back	2
N240z	Rheumatism or fibrositis NOS	2
N2400	Rheumatism NOS - shoulder	2
N2403	Rheumatic pain	2
N24z	Polyalgia	2
N09	Other/unspecif.joint disorders	2
N22yz	Other tendon disorder NOS	2
N233z	Other specif.musc.disorder NOS	2
N06yz	Other specif.arthropathy NOS	2
N06y9	Other spec.arthrmultipl.site	2
N09y	Other spec. joint disorders	2
N24	Other soft tissue disorders	2
N3z	Other musculoskeletal dis. NOS	2
N247	Other musculoskel.limb sympts.	2
N23y	Other muscle/ligament/fascia	2
N23yz	Other musc./lig./fasc.dis.NOS	2
N096z	Other joint symptoms NOS	2
N0968	Other joint symptother spec.	2
N0969	Other joint symptmultip.site	2
N09yz	Other joint disorders NOS	2
N09y0	Other joint dissite unspec.	2
N09y8	Other joint disother specif.	2
N09y9	Other joint dismultiple site	2
N2y	Nonarticular rheumatism OS	2
N2z	Nonarticular rheumatism NOS	2
N39	Nonallopathic lesions, NEC	2
N39z	Nonallopathic lesion NEC NOS	2
N2411	Myositis unspecified	2
N2480	Myofascial pain syndrome	2
N241	Myalgia/myositis unspecified	2

Read code	Description	Number of studies
N241z	Myalgia/myositis NOS	2
N3y	Musculoskeletal disorders OS	2
Ny	Musculoskeletal diseases OS	2
Nz	Musculoskeletal diseases NOS	2
N2402	Muscular rheumatism	2
N23z	Muscle/ligament/fascia dis.NOS	2
N2410	Muscle pain	2
N0959	Multiple joint stiffness	2
N0450	Juv ankylosing spondylitis	2
N095z	Joint stiffness NEC NOS	2
N095	Joint stiffness NEC	2
N09zz	Joint disorders NOS	2
N09z	Joint disorder NOS	2
N09z0	Joint disord.NOS-site unspecif	2
N09z8	Joint disord.NOS-other specif.	2
N09z9	Joint disord.NOS-multiple site	2
N096	Joint crepitus	2
N2401	Fibrositis unspecified	2
N2412	Fibromyositis NOS	2
N248	Fibromyalgia	2
N239	Fibromyalgia	2
N23	Fascia disorders	2
N06zB	Chronic arthritis	2
N06z0	Arthropathy NOS-site unspecif.	2
N06z8	Arthropathy NOS-other specif.	2
N06z9	Arthropathy NOS-multiple sites	2
N06zz	Arthropathy NOS	2
N0z	Arthropathies NOS	2
N06z	Arthritis	2
N0949	Arthralgia of multiple joints	2
N094z	Arthralgia NOS	2
N0940	Arthralgia - site unspecified	2
N0948	Arthralgia - other specified	2
N094	Ache in joint	2
OX7179KB		1
7K6T1	release of Torticollis neuropathic pain	1
N2452	neuropathic pain	1
OX7289CH	back pain /ox	1
Syu4E	[X]Unspecif inj should/up arm	1
NyuB8	[X]Unsp osteopor + pathol frac	1
Nyu28	[X]Unilat second gonarthrosis	1
Nyu25	[X]Unilat second gonarthrosis	1
Nyu4	[X]Systmc connctv tis disordrs	1
Nyu4C	[X]Sys diso/connctv t/o dis CE	1
Nyu95	[X]Synovitis+tenosyn/bact d CE	1
Nyu97	[X]Synovial hypertrophy, NEC	1
Ryu3	[X]Sym/sign inv nv/muscskel sy	1
Syu12	[X]Superf inj neck part unsp	1
Syu84		
Syu46	[X]Sprn/str oth unsp part knee	1
•	[X]Spr/str oth/un part shl gir	1
Syu36 Syu18	[X]Spr/str ot/un pt lum sp/pel	1
Nyu92	[X]Spr/str jt/lg ot/un pt neck	1
Nyu92	[X]Spontans ruptr/oth tendons	1

Read code	Description	Number of
Nyu68	[X]Spondylpthy/oth diseases CE	studies 1
Nyu66	[X]Spondylpth/o inf+paras d CE	1
Nyu69	[X]Spondylopathy unspecified	1
Nyu6	[X]Spondylopathies	1
Nyu5B	[X]Spin osteochondrosis, unsp	1
Nyu1G	[X]Seroposit rheum arthr, unsp	1
Nyu10	[X]Rheum arthrit+inv/o org/sys	1
Nyu05	[X]Reactv arthropathy/o dis CE	1
Eu45y	[X]Psychogenic torticollis	1
NyuE4	[X]Postproc muscsk disord,unsp	1
Nyu2F	[X]Post-traum arthr oth joints	1
NyuC9	[X]Periostitis/oth inf dis CE	1
Nyu51	[X]Other+unspecified kyphosis	1
Nyu64	[X]Other spondylosis	1
Nyu2D	[X]Other specified arthrosis	1
Nyu1B	[X]Other specified arthritis	1
Nyu65	[X]Other spcfd spondylopathies	1
Nyu3D	[X]Other special sportagiopatriles [X]Other special sportagiopatriles	1
NyuAB	[X]Other shoulder lesions	1
Nyu54	[X]Other secondary scoliosis	1
Nyu50	[X]Other secondary scollosis	1
Nyu17	[X]Other secondary gout	1
Nyu21	· ·	1
Nyu20	[X]Other primary coxarthrosis	•
Nyu46	[X]Other polyarthrosis	1
NyuB1	[X]Other overlap syndromes	1
NyuC	[X]Other osteoporosis	1
NyuC5	[X]Other osteopathies	1
NyuC3	[X]Other osteonecrosis	1
Nyu82	[X]Other osteomyelitis	1
Nyu37	[X]Other ossification/muscle	1 1
Nyu52	[X]Other meniscus derangements	1
Nyu15	[X]Other lordosis [X]Other juvenile arthritis	1
Nyu3C	[X]Other instability of joint	
NyuA4	[X]Other instability of joint [X]Other infective bursitis	1 1
Nyu53	[X]Other idiopathic scoliosis	1
Nyu41	[X]Other giant cell arteritis	1
Nyu56	[X]Other fusion of spine	1
Nyu55	[X]Other forms of scoliosis	1
NyuAE	[X]Other enthesopathies,NEC	1
Nyu7	[X]Other dorsopathies	1
Nyu7A	[X]Other dorsalgia	1
Nyu36	[X]Other disorders of patella	1
Nyu44	[X]Other dermatomyositis	1
Nyu35	[X]Other dermatornyositis [X]Other derangements/patella	1
NyuB6	[X]Other cyst of bone	1
NyuC2	[X]Other chronic osteomyelitis	1
Nyu18	[X]Other chondrocalcinosis	1
Nyu81	[X]Other calcification/muscle	1
NyuA1		1
NyuA6	[X]Other bursitis of knee	<u> </u>
NyuA5	[X]Other bursitis NEC [X]Other bursal cyst	1 1
NyuA7		-
Nyu/A	[X]Other bursa disorder	1

Read code	Description	Number of studies
NyuE3	[X]Other biomechanical lesions	1
NyuB4	[X]Other adult osteomalacia	1
NyuC0	[X]Other acute osteomyelitis	1
NyuC4	[X]Other 2ndary osteonecrosis	1
Nyu47	[X]Oth syst dis/connctv tissue	1
Nyu91	[X]Oth synovitis+tenosynovitis	1
Syu40	[X]Oth sup inj should/upp arm	1
Nyu62	[X]Oth spondylosis+myelopathy	1
Nyu79	[X]Oth specified dorsopathies	1
NyuC8	[X]Oth spcfd disorders of bone	1
Nyu1A	[X]Oth spcfc arthropathies,NEC	1
Nyu12	[X]Oth spcf rheumatd arthritis	1
Nyu61	[X]Oth spcf inflam spondylpath	1
NyuD4	[X]Oth spcf disordrs/cartilage	1
Nyu59	[X]Oth spcf deform dorsopaths	1
NyuD3	[X]Oth spc osteochondropathies	1
Syu3K	[X]Oth sp inj abd/low back/pel	1
Nyu2E	[X]Oth secondary coxarthrosis	1
Nyu83	[X]Oth ruptr/muscl(nontraumtc)	1
Nyu58	[X]Oth recur vertebrl subluxtn	1
Nyu03	[X]Oth reactive arthropathies	1
Nyu13	[X]Oth psoriatic arthropathies	1
Nyu26	[X]Oth post-traum gonarthrosis	1
Nyu23	[X]Oth post-traum coxarthrosis	1
NyuB0	[X]Oth osteoporosis+patholog #	1
Nyu39	[X]Oth intrnl derangemnts/knee	1
Nyu90	[X]Oth infectve(teno)synovitis	1
Nyu60	[X]Oth infectv spondylopathies	1
Nyu45	[X]Oth forms/systemc sclerosis	1
Nyu43	[X]Oth forms/sys lup erythemat	1
NyuA9	[X]Oth fibroblastic disorders	1
Nyu22	[X]Oth dysplastic coxarthrosis	1
NyuB5	[X]Oth diso/continuity of bone	1
NyuC6	[X]Oth diso/bone dvlpmnt+grwth	1
NyuE	[X]Oth dis musculosk+connect	1
Nyu70	[X]Oth cervicl disc displacmnt	1
Nyu71	[X]Oth cervicl disc degeneratn	1
Nyu72	[X]Oth cervical disc disorders	1
Nyu3A	[X]Oth articulr cartilag disor	1
Nyu27	[X]Oth 2ndry gonarthrsis,bilat	1
Nyu24	[X]Oth 2ndry coxarthrsis,bilat	1
NyuB2	[X]Osteoporosis/oth disords CE	1
NyuBC	[X]Osteopenia	1
NyuCA	[X]Osteopathy/other inf dis CE	1
NyuCF	[X]Osteopathy/oth diseases CE	1
NyuCC	[X]Osteonecrosis/other dis CE	1
NyuCB	[X]Osteonecros/h'moglobnpth CE	1
NyuCD	[X]Osteitis defrmn/neop dis CE	1
SR1z1	[X]Op multiple fractures unsp	1
Nyu00	[X]O strep arthritis+polyarthr	1
Nyu38	[X]O spontn disrptn/lig(s)knee	1
Nyu63	[X]O spondylosis+radiculopathy	1
NyuD2	[X]O spf juvnl osteochondrosis	1

Read code	Description	Number of
	·	studies
Nyu42 Nyu3B	[X]O spcf necrotiz vasculopath	1
-	[X]O spcf joint derangmnts,NEC	1
Nyu77	[X]O spcf intrvrtbrl disc diso	1
Nyu94	[X]O spcf diso/synovium+tendon	1
Nyu19	[X]O spcf crystl arthropathies	1
Nyu76	[X]O spc intrvrtbl disc degenr	1
Nyu75	[X]O spc intervert disc displm	1
NyuB7	[X]O spc diso/bne dnsity+struc	1
NyuE0	[X]O spc acq defrm/muscskl sys	1
NyuA3	[X]O sft t d rl/use,overu+prss	1
Nyu11	[X]O sero+ve rheumat arthritis	1
Nyu57	[X]O recur atlantoaxl subluxtn	1
NyuE2	[X]O postproced muscskel disor	1
Nyu04	[X]O postinf arthropath/dis CE	1
NyuC7	[X]O hypertrophc osteoarthrpth	1
Nyu14	[X]O enteropathic arthrpathies	1
NyuB3	[X]O drug-indc osteomalac/adlt	1
Nyu96	[X]O diso/synovm+tendon/dis CE	1
Nyu93	[X]O contractre/tendon(sheath)	1
Nyu40	[X]O cond relt/polyarterit nod	1
NyuC1	[X]O chr h'matogens osteomylit	1
Nyu4D	[X]Necrotis vasculopathy, unsp	1
Nyu87	[X]Myosits/protzl+paras inf CE	1
Nyu88	[X]Myositis/oth infects dis CE	1
Nyu89	[X]Myositis in sarcoidosis CE	1
Nyu86	[X]Myositi/bacterial dis CE	1
Nyu84	[X]Muscle wasting and atrophy NEC	1
SyuA4	[X]Multi disloc/spr/strns,unsp	1
Nyu4F	[X]Mixed connective tissue disease	1
Nyu74	[X]Lumb+o intvt disc d+radiclp	1
Nyu73	[X]Lumb+o intrvrt disc d+mylop	1
Nyu5A	[X]Lordosis, unspecified	1
Nyu16	[X]Juvenile arthritis/o dis CE	1
Syu1	[X]Injuries to the neck	1
Syu3	[X]Injabd/low back/lum sp/pel	1
Syu4	[X]Inj to shoulder/upper arm	1
Syu8	[X]Inj to knee and lower leg	1
Nyu1	[X]Inflammatory polyarthropathies	1
Nyu0	[X]Infectious arthropathies	1
Nyu1C	[X]Gt arthpth/enz d+o inh d CE	1
Syu16	[X]Fracture other parts neck	1
Syu44	[X]Fract should/upp arm unsp	1
Syu15	[X]Fract oth spec cervic vert	1
SyuA2	[X]Fract inv oth comb bod regn	1
NyuAH	[X]Fibroblastic disord, unspec	1
NyuA8	[X]Fasciitis,NEC	1
NyuBB SyuA3	[X]Erosion of bone	1
SyuA3	[X]Dsl/spr/str,oth comb bod rg	1
SyuB3	[X]Dsl/sp/st un jt/l leg,lv un	1
NyuB Nyu3E	[X]Disorder of notally unon a	1
Nyu3E NyuDE	[X]Disorder of patella, unspec	1
NyuDE NyuBA	[X]Disorder cartilage, unspec	1
NYUDA	[X]Disord bone dens/struc,unsp	1

	<b>-</b>	Number of
Read code	Description	studies
Syu17	[X]Disloc oth unsp parts neck	1
SyuBC	[X]Disl/spr/str unsp body reg	1
Nyu4E	[X]Dermatopolymyositis, unspec	1
Nyu48	[X]Dermat(poly)myosit/neo d CE	1
Nyu5	[X]Deforming dorsopathies	1
Nyu1D	[X]Crys arthpth/o meta diso,CE	1
Nyu67	[X]Collapsd vertebra in dis CE	1
SR1z0	[X]Clsd multiple fracts unspec	1
NyuD	[X]Chondropathies	1
Nyu7B	[X]Cervical disc disord, unsp	1
Nyu4B	[X]Arthrpthy/hyprsens react CE	1
Nyu1F	[X]Arthrpth/o spcf diseases CE	1
Nyu1E	[X]Arthrpth/o en,nut+meta diso	1
Nyu2	[X]Arthrosis	1
Nyu4A	[X]Arthropathy/o bld disord CE	1
Nyu49	[X]Arthropathy/neoplast dis CE	1
Nyu02	[X]Arthrits/o inf+paras dis CE	1
Nyu01	[X]Arthrit+polyarth/o s bact a	1
NyuB9	[X]Adult osteomalacia, unspec	1
Nyu	[X]Ad muscskl+con t dis cls tm	1
NyuCE	[X]#bone/neoplastic disease CE	1
NyuE1	[X]#/bne f insrt/o i,j pr,bn p	1
EMISREQ 7N945(9)	[SO]Lumbosacral joint -Req.	1
HNGZ018	[RFC] Arthritis	1
R0420	[D]Swelling in head or neck	1
R042	[D]Swell.masslump head/neck	1
R027	[D]Spontaneous bruising	1
R065A	[D]Musculoskeletal chest pain	1
R137	[D]Musculoskel.ray/scan abnorm	1
R137z	[D]Musculosc xray/scan abn NOS	1
R022C	[D]Lump on knee	1
R04zz	[D]Head and neck symptoms NOS	1
R04	[D]Head and neck symptoms	1
R04z	[D]Head and neck other sympt.	1
R00z2-1	[D]General aches and pains	1
R065000	[D]CHEST PAIN, UNSPECIFIED	1
R065z00	[D]CHEST PAIN NOS	1
R065.00	[D]CHEST PAIN	1
R090z00	[D]Abdominal pain	1
R090.00	[D]Abdominal pain	1
DEGRADE_EVENT_1730_49	[DEGRADE Muscle Injury]	1
DEGRADE_EVENT_2469_340	[DEGRADE Knee Pain]	1
DEGRADE_EVENT_3154_40	[DEGRADE Knee Pain]	1
N135z-2	Wry neck	1
N05z3	Wrist osteoarthritis NOS	1
N0943-1	Wrist joint pain	1
N06z3-1	Wrist arthritis NOS	1
S5704	Whiplash injury	1
EGTONWE2	Wedge Compression # Of Dorsal Spine	1
EGTONWE1	Wedge Compression # Lumbar Spine	1
N2432	Weber - Christian disease	1
N2430	Weber - Christian disease	1
N0974	Walking difficulty-other spec.	1

N0975 N0970 Walking difficulty-multip.site N0970 Walking difficulty due to unspecified site 1 N0970 Walking difficulty due to unspecified site 1 N092M Villonodular synovitis of knee 1 N0922 Villonodular synovitis NOS 1 N092 Villonodular synovitis 1 N0920 Villonod.synovitis-site unspec 1 N0921 Villonod.synovitis-site unspec 1 N0921 Villonod.synovitis-shoulder 1 N0928 Villonod.synovitis-shoulder 1 N0929 Villonod.synovitis-shoulder 1 N0929 Villonod.synovitis-shoulder 1 N0920 Villonod.synovitis-shoulder 1 N0920 Villonod.synovitis-shoulder 1 N0920 Villonod synovitis-stend sheath 1 N0920 Villonod synovitis-stendar j 1 N0920 Vertebral column disorders OS 1 N1 N0966 Vinspecified monoarthritis NOS 1 N0960 Vinspecified mo	Read code	Description	Number of studies
NO970         Walking difficulty due to unspecified site         1           N2413         Viral myalgia         1           N092M         Villonodular synovitis of knee         1           N0922         Villonodular synovitis NOS         1           N0920         Villonod.synovitis-site unspec         1           N0920         Villonod.synovitis-shoulder         1           N0921         Villonod.synovitis-shoulder         1           N09228         Villonod.synovitis-tother spec.         1           N0929         Villonod synovitis-tother spec.         1           N0920         Villonod synovitis-shoulder         1           N0920         Villonod synovitis-stend sheath         1           N09228         Villonod synovitis-stouted         1           N09229         Villonod synovitis-stouted         1           N09220         Villonod synovitis-stouted         1           N09221         Villonod synovitis-stouted         1           N09222         Villonod synovitis-stouted         1           N09224         Villonod synovitis-stouted         1           N0922         Villonod synovitis-stouted         1           N0922         Villonod synovitis-stouted         1	N0975	Walking difficulty-multip.site	
N2413         Viral myalgia         1           N092M         Villonodular synovitis of knee         1           N092         Villonodular synovitis         1           N0920         Villonod.synovitis site unspec         1           N0920         Villonod.synovitis-site unspec         1           N0921         Villonod.synovitis-site unspec         1           N0922         Villonod.synovitis-tend sheath         1           N0929         Villonod synovitis-tend sheath         1           N0920         Villonod synovitis-tend sheath         1           N0922B         Villonod synovitis-sternclay j         1           N092A         Villonod synovitis-sternclay j         1           N092C         Villonod synovitis-sternclay j         1           N330B         Vertebral osteoporosis         1           N320         Vertebral osteoporosis         1           N320         Vertebral column syndromes         1           N1         Vertebral column syndromes         1           N1         Vertebral column disorder NOS         1           N1         Vertebral column disorder NOS         1           N1         Vertebral column disorder NOS         1           N1 <t< td=""><td>N0970</td><td><b>9</b> , ,</td><td>1</td></t<>	N0970	<b>9</b> , ,	1
N092M         Villonodular synovitis of knee         1           N092         Villonodular synovitis         1           N0920         Villonod.synovitis-site unspec         1           N0921         Villonod.synovitis-shoulder         1           N0928         Villonod.synovitis-boulder         1           N0929         Villonod.synovitis-mult.sites         1           N0920         Villonod synovitis-tend sheath         1           N092A         Villonod synovitis-sternclav j         1           N092A         Villonod synovitis-sternclav j         1           N092A         Villonod synovitis-sternclav j         1           N092C         Villonod synovitis-sternclav j         1           N330B         Vertebral osteoporosis         1           N320         Vertebral colum syndromes         1           N1         Vertebral column syndromes         1           N1y         Vertebral column disorders NOS         1           N0967-1         Unstable knee         1           N0967-1	N2413	The state of the s	1
N0922         Villonodular synovitis         1           N0920         Villonod synovitis-site unspec         1           N0921         Villonod synovitis-site unspec         1           N0928         Villonod synovitis-other spec.         1           N0929         Villonod synovitis-bether spec.         1           N0929         Villonod synovitis-tend sheath         1           N0928         Villonod synovitis-sternclav j         1           N0929         Villonod synovitis-sternclav j         1           N0920         Villonod synovitis-sternclav j         1           N0920         Villonod synovitis-sternclav j         1           N0922         Villonod synovitis-sternclav j         1           N0962         Villonod synovitis-sternclav j         <	N092M	· ·	1
N0920         Villonod.ynovitis-site unspec         1           N0921         Villonod.ynovitis-shoulder         1           N0928         Villonod.ynovitis-shoulder         1           N0929         Villonod.ynovitis-wult.sites         1           N2208         Villonod.ynovitis-tend sheath         1           N092B         Villonod synovitis-tend sheath         1           N092A         Villonod synovitis-shoulder         1           N092C         Villonod synovitis-steroraclay j         1           N330B         Vertebral osteoporosis         1           N320         Vertebral epiphysitis         1           N1         Vertebral epiphysitis         1           N1         Vertebral column syndromes         1           N1y         Vertebral column disorders OS         1           N1z         Vertebral column disorder NOS         1           N1z         Vertebral column disorder NOS         1           N066-2         Unstable knee         1           N066-2         Unstable knee         1           N066-2         Unstable ankle         1           N066-2         Unstable ankle         1           N066-3         Unspecified monoarthritis         1	N092z	·	1
N0920         Villonod.synovitis-site unspec         1           N0928         Villonod.synovitis-other spec.         1           N0929         Villonod.synovitis-other spec.         1           N0929         Villonod synovitis-tend sheath         1           N2208         Villonod synovitis-stenclav j         1           N092B         Villonod synovitis-stenclav j         1           N092C         Villonod synovitis-sternclav j         1           N330B         Vertebral osteoporosis         1           N320         Vertebral epiphysitis         1           N1         Vertebral column syndromes         1           N1y         Vertebral column disorders OS         1           N1y <td>N092</td> <td>·</td> <td>1</td>	N092	·	1
N0921         Villonod.synovitis-shoulder         1           N0928         Villonod.synovitis-mult.sites         1           N0929         Villonod.synovitis-tend sheath         1           N092B         Villonod synovitis-stend sheath         1           N092A         Villonod synovitis-stoulder         1           N092C         Villonod synovitis-stoulder         1           N330B         Vertebral osteoporosis         1           N320         Vertebral epiphysitis         1           N1         Vertebral column syndromes         1           N1y         Vertebral column disorders OS         1           N1y         Vertebral column disorder NOS         1           N12         Unspecified monoarthritis         1           N0666         Unspecified monoarthritis         1           N0667 <td< td=""><td>N0920</td><td>·</td><td>1</td></td<>	N0920	·	1
N0928         Villonod.synovitis-other spec.         1           N0929         Villonod.synovitis-tend sheath         1           N092B         Villonod synovitis-tenda sheath         1           N092A         Villonod synovitis-sternclav j         1           N092C         Villonod synovitis-acromclav j         1           N330B         Vertebral osteoporosis         1           N320         Vertebral epiphysitis         1           N1         Vertebral column syndromes         1           N1y         Vertebral column disorders OS         1           N1y         Vertebral column disorders OS         1           N1z         Vertebral column disorders OS         1           N1y         Vertebral column disorders OS         1           N1z	N0921	· · · · · · · · · · · · · · · · · · ·	1
N9229         Villonod synovitis-mult. sites         1           N2208         Villonod synovitis-stend sheath         1           N092B         Villonod synovitis-stenclav j         1           N092A         Villonod synovitis-stenclav j         1           N092C         Villonod synovitis-shoulder         1           N092C         Villonod synovitis-stenclav j         1           N330B         Vertebral osteoporosis         1           N320         Vertebral column syndromes         1           N1         Vertebral column syndromes         1           N1y         Vertebral column disorder NOS         1           N1z         Vertebral column disorder NOS         1           N1z         Vertebral column disorder NOS         1           N1z         Vertebral column disorder NOS         1           N0966-2         Unstable ankle         1           N0967-1         Unstable ankle         1           N0662         Unspecified monarthritis         1           N0666         Unspecified monarthritis         1           N1290         Unspecified monarthritis         1           N0650         Unsp. polyarthrsite unspecif.         1           N0651         Unsp. polya	N0928	·	
N2208         Villonod synovitis-tendav j         1           N092B         Villonod synovitis-sternclav j         1           N092C         Villonod synovitis-scromclav j         1           N330B         Vertebral osteoporosis         1           N320         Vertebral column disorders OS         1           N1         Vertebral column gyndromes         1           N1y         Vertebral column disorders OS         1           N1z         Vertebral column disorder NOS         1           N1y         Vertebral column disorder NOS         1           N1y         Vertebral column disorder NOS         1           N1z         Vertebral column disorder NOS         1           N1y         Vertebral column disorder NOS         1           N12	N0929	·	1
N092B         Villonod synovitis-sternclav j         1           N092C         Villonod synovitis-stonulder         1           N092C         Villonod synovitis-stonulder         1           N330B         Vertebral osteoporosis         1           N320         Vertebral epiphysitis         1           N1         Vertebral column syndromes         1           N1y         Vertebral column disorders OS         1           N1z         Vertebral column disorder NOS         1           N0966-2         Unstable knee         1           N0967-1         Unstable knee         1           N0662         Unspecified monoarthritis NOS         1           N0666         Unspecified monoarthritis NOS         1           N0650         Unspecified monoarthritis NOS         1           N0650         Unsp.polyarthrsite unspecif.         1           N0650         Unsp.polyarthrsite unspecif.         1           N0650         Unsp.polyarthrsite unspecif.         1           N0659         Unsp.p	N2208	·	1
N092A         Villonod synovitis-storwclav j         1           N092C         Villonod synovitis-acromclav j         1           N330B         Vertebral osteoporosis         1           N320         Vertebral epiphysitis         1           N1         Vertebral epiphysitis         1           N1         Vertebral column disorders OS         1           N12         Vertebral column disorder NOS         1           N096-2         Unstable knee         1           N0967-1         Unstable knee         1           N0662         Unspecified monoarthritis         1           N0663         Unspecified monoarthritis         1           N0666         Unspecified monoarthritis         1           N0650         Unsp.polyarthrsite unspecif.         1           N0650         Unsp.polyarthrsite unspecif.         1           N0650         Unsp.polyarthrother specif.         1           N0658         Unsp.polyarthrmultiple site <td>N092B</td> <td>·</td> <td>1</td>	N092B	·	1
N992C         Villonod synovitis-acromclav j         1           N330B         Vertebral osteoporosis         1           N320         Vertebral eclumn byndromes         1           N1         Vertebral column syndromes         1           N1y         Vertebral column disorders OS         1           N12         Vertebral column disorder NOS         1           N0966-2         Unstable knee         1           N0967-1         Unstable knee         1           N0662         Unspecified monoarthritis         1           N0663         Unspecified monoarthritis         1           N0666         Unspecified monoarthritis         1           N1290         Unspecified monoarthritis         1           N1290         Unspecified monoarthritis         1           N1290         Unspecified monoarthritis         1           N1290         Unspecified monoarthritis         1           N0650         Unsp.polyarthrsite unspecif.         1           N0650         Unsp.polyarthrsite unspecif.         1           N0651         Unsp.polyarthrother specif.         1           N0652         Unsp. osteomyelitis-site unspecif.         1           N0653         Unsp. osteomyelit	N092A		
N330B         Vertebral osteoporosis         1           N320         Vertebral epiphysitis         1           N1         Vertebral column syndromes         1           N1y         Vertebral column disorders OS         1           N12         Vertebral column disorder NOS         1           N0966-2         Unstable knee         1           N0967-1         Unstable ankle         1           N0662         Unspecified monoarthritis NOS         1           N0666         Unspecified monoarthritis         1           N1290         Unspecified monoarthritis         1           N0650         Unsp.polyarthrsite unspecif.         1           N0650         Unsp.polyarthrsite unspecif.         1           N0650         Unsp.polyarthrshoulder         1           N0651         Unsp.polyarthrother specif.         1           N0658         Unsp.polyarthrother specif.         1           N0658         Unsp.polyarthrmultiple site         1           N0659         Unsp.polyarthrmultiple site         1           N3020         Unsp.osteomyelitis-site unspec         1           N3021         Unsp.osteomyelitis-other spec.         1           N3022         Unsp.osteo	N092C		
N320         Vertebral epiphysitis         1           N1         Vertebral column syndromes         1           N1y         Vertebral column disorders OS         1           N12         Vertebral column disorder NOS         1           N0967-2         Unstable knee         1           N0967-1         Unstable ankle         1           N0662         Unspecified monoarthritis NOS         1           N0666         Unspecified monoarthritis         1           N1290         Unspecified monoarthritis         1           N0650         Unsp.polyarthrsite unspecif.         1           N0651         Unsp.polyarthrsite unspecif.         1           N0652         Unsp.polyarthrsite unspecif. </td <td>N330B</td> <td></td> <td></td>	N330B		
N1         Vertebral column syndromes         1           N1y         Vertebral column disorders OS         1           N12         Vertebral column disorder NOS         1           N0966-2         Unstable knee         1           N0967-1         Unstable knee         1           N0662         Unspecified monoarthritis NOS         1           N0666         Unspecified monoarthritis         1           N1290         Unspecidisc disorder+myelop.         1           N0650         Unsp.polyarthr-site unspecif.         1           N06500         Unsp.polyarthr-site unspecif.         1           N0651         Unsp.polyarthr-site unspecif.         1           N065800         Unsp.polyarthr-other specif.         1           N0658         Unsp.polyarthr-other specif.         1           N0659         Unsp.polyarthr-multiple site         1           N0659         Unsp.polyarthr-multiple site         1           N3020         Unsp.polyarthr-multiple site         1           N3021         Unsp.polyarthr-multiple site         1           N3022         Unsp.polyarthr-multiple site         1           N3023         Unsp.polyarthr-site unspecif.         1           N3024			
N1y         Vertebral column disorder NOS         1           N1z         Vertebral column disorder NOS         1           N0966-2         Unstable knee         1           N0967-1         Unstable ankle         1           N066z         Unspecified monoarthritis NOS         1           N066         Unspecified monoarthritis NOS         1           N066         Unspecified monoarthritis         1           N1290         Unspecified monoarthritis         1           N0650         Unsp.polyarthrsite unspecif.         1           N0651         Unsp.polyarthrsite unspecif.         1           N0652         Unsp.polyarthrsite unspecif.         1           N0659         Unsp.polyarthrmultiple site         1           N3021         Unsp.polyarthr			
N12         Vertebral column disorder NOS         1           N0966-2         Unstable knee         1           N0967-1         Unstable ankle         1           N0662         Unspecified monoarthritis NOS         1           N066         Unspecified monoarthritis         1           N1290         Unspecified disorder+myelop.         1           N0650         Unsp.polyarthrsite unspecif.         1           N065000         Unsp.polyarthrsite unspecif.         1           N0651         Unsp.polyarthrsite unspecif.         1           N06580         Unsp.polyarthrother specif.         1           N06580         Unsp.polyarthrmultiple site         1           N065900         Unsp.polyarthrmultiple site         1           N0659         Unsp.polyarthrmultiple site         1           N3021         Unsp.osteomyelitis-site unspec         1           N3022         Unsp.osteomyelitis-shoulder         1           N3023         Unsp.osteomyelitis-other spec         1           N3029         Unsp.osteomyelitis-mult.site         1           N0660         Unsp.monarthrshoulder         1           N0661         Unsp.monarthrshoulder         1           N0662	N1y		
N0967-1         Unstable knee         1           N0967-1         Unstable ankle         1           N066z         Unspecified monoarthritis NOS         1           N066         Unspecified monoarthritis         1           N1290         Unspecified monoarthritis         1           N0650         Unsp.polyarthr-site unspecif.         1           N06500         Unsp.polyarthr-site unspecif.         1           N0651         Unsp.polyarthr-site unspecif.         1           N065800         Unsp.polyarthr-other specif.         1           N06581         Unsp.polyarthr-multiple site         1           N06590         Unsp.polyarthr-multiple site         1           N0659         Unsp.polyarthr-multiple site         1           N3020         Unsp.osteomyelitis-shoulder         1           N3021         Unsp.osteomyelitis-shoulder         1           N3022         Unsp.osteomyelitis-mult.site         1           N3029         Unsp.osteomyelitis-mult.site         1           N0660         Unsp.monoarthrsite unspecif.         1           N0661         Unsp.monoarthrshoulder         1           N0668         Unsp.monoarthrshoulder         1           N0668 <t< td=""><td></td><td></td><td></td></t<>			
N0967-1         Unstable ankle         1           N0662         Unspecified monoarthritis         1           N066         Unspecified monoarthritis         1           N1290         Unspec.disc disorder+myelop.         1           N0650         Unsp.polyarthr-site unspecif.         1           N065000         Unsp.polyarthr-site unspecif.         1           N0651         Unsp.polyarthr-shoulder         1           N065800         Unsp.polyarthr-other specif.         1           N06581         Unsp.polyarthr-other specif.         1           N06582         Unsp.polyarthr-multiple site         1           N065900         Unsp.polyarthr-multiple site         1           N0659         Unsp.polyarthr-multiple site         1           N3020         Unsp.osteomyelitis-site unspec         1           N3021         Unsp.osteomyelitis-shoulder         1           N3022         Unsp.osteomyelitis-mult.site         1           N3023         Unsp.osteomyelitis-mult.site         1           N0660         Unsp.monoarthrsite unspecif.         1           N0661         Unsp.monoarthrsite unspecif.         1           N0668         Unsp.monoarthrsite unspecif.         1           <	N0966-2		
N066z         Unspecified monoarthritis NOS         1           N066         Unspecified monoarthritis         1           N1290         Unspec.disc disorder-myelop.         1           N0650         Unsp.polyarthrsite unspecif.         1           N065000         Unsp.polyarthrsite unspecif.         1           N0651         Unsp.polyarthrshoulder         1           N06580         Unsp.polyarthrother specif.         1           N06590         Unsp.polyarthrother specif.         1           N0659         Unsp.polyarthrmultiple site         1           N3020         Unsp.polyarthrmultiple site         1           N3021         Unsp.osteomyelitis-site unspec         1           N3022         Unsp.osteomyelitis-shoulder         1           N3028         Unsp.osteomyelitis-other spec.         1           N3029         Unsp.osteomyelitis-mult.site         1           N3022         Unsp.osteomyelitis NOS         1           N0660         Unsp.monoarthrsite unspecif.         1           N0661         Unsp.monoarthrsite unspecif.         1           N0668         Unsp.monoarthrother specif.         1           N1121         Two lev th spondyl + radiculop         1			
N066         Unspecified monoarthritis         1           N1290         Unspec.disc disorder+myelop.         1           N0650         Unsp.polyarthrsite unspecif.         1           N065000         Unsp.polyarthrsite unspecif.         1           N0651         Unsp.polyarthrsite unspecif.         1           N065800         Unsp.polyarthrother specif.         1           N0658         Unsp.polyarthrmultiple site         1           N06590         Unsp.polyarthrmultiple site         1           N0659         Unsp.polyarthrmultiple site         1           N3020         Unsp.osteomyelitis-site unspec         1           N3021         Unsp.osteomyelitis-shoulder         1           N3028         Unsp.osteomyelitis-other spec.         1           N3029         Unsp.osteomyelitis-other spec.         1           N3022         Unsp.osteomyelitis NOS         1           N0660         Unsp.monoarthrsite unspecif.         1           N0661         Unsp.monoarthrsite unspecif.         1           N0668         Unsp.monoarthrother specif.         1           N1121         Two lev th spondyl + radiculop         1           N1131         Two lev th spondyl + radiculop         1			
N1290         Unspec.disc disorder+myelop.         1           N0650         Unsp.polyarthrsite unspecif.         1           N065000         Unsp.polyarthrsite unspecif.         1           N0651         Unsp.polyarthrshoulder         1           N065800         Unsp.polyarthrother specif.         1           N0658         Unsp.polyarthrother specif.         1           N065900         Unsp.polyarthrmultiple site         1           N0659         Unsp.polyarthrmultiple site         1           N3020         Unsp.posteomyelitis-site unspec         1           N3021         Unsp.osteomyelitis-shoulder         1           N3028         Unsp.osteomyelitis-shoulder         1           N3029         Unsp.osteomyelitis-mult.site         1           N3022         Unsp.osteomyelitis NOS         1           N0660         Unsp.monoarthrsite unspecif.         1           N0661         Unsp.monoarthrshoulder         1           N0668         Unsp.monoarthrother specif.         1           N1121         Two lev th spondyl + radiculop         1           N1131         Two lev th spondyl + radiculop         1           N1141         Two lev Umbsac spond - myelop         1			
N0650         Unsp.polyarthrsite unspecif.         1           N065000         Unsp.polyarthrsite unspecif.         1           N0651         Unsp.polyarthrshoulder         1           N06580         Unsp.polyarthrshoulder         1           N06580         Unsp.polyarthrother specif.         1           N06590         Unsp.polyarthrmultiple site         1           N0659         Unsp.polyarthrmultiple site         1           N3020         Unsp.osteomyelitis-site unspec         1           N3021         Unsp.osteomyelitis-shoulder         1           N3028         Unsp.osteomyelitis-houlder         1           N3029         Unsp.osteomyelitis-mult.site         1           N3022         Unsp.osteomyelitis-mult.site         1           N0660         Unsp.monoarthrsite unspecif.         1           N0661         Unsp.monoarthrshoulder         1           N0668         Unsp.monoarthrshoulder         1           N1121         Two lev th spondyl-no myelop         1           N1181         Two lev th spondyl-no myelop         1           N1181         Two lev th spondyl + myelop         1           N1151         Two lev Umbsac spond + myelop         1			
N065000         Unsp.polyarthrsite unspecif.         1           N0651         Unsp.polyarthrshoulder         1           N065800         Unsp.polyarthrother specif.         1           N0658         Unsp.polyarthrother specif.         1           N065900         Unsp.polyarthrmultiple site         1           N0659         Unsp.polyarthrmultiple site         1           N3020         Unsp.posteomyelitis-site unspec         1           N3021         Unsp.osteomyelitis-shoulder         1           N3028         Unsp.osteomyelitis-mult.site         1           N3029         Unsp.osteomyelitis-mult.site         1           N3022         Unsp.osteomyelitis-mult.site         1           N3029         Unsp.costeomyelitis-mult.site         1           N3020         Unsp.monoarthrsite unspecif.         1           N0660         Unsp.monoarthrsite unspecif.         1           N0661         Unsp.monoarthrshoulder         1           N0668         Unsp.monoarthrother specif.         1           N1121         Two lev th spondyl-no myelop         1           N1181         Two lev th spondyl + myelop         1           N1131         Two lev th spondyl + myelop         1			
N0651         Unsp.polyarthrshoulder         1           N065800         Unsp.polyarthrother specif.         1           N0658         Unsp.polyarthrother specif.         1           N065900         Unsp.polyarthrmultiple site         1           N0659         Unsp.polyarthrmultiple site         1           N3020         Unsp.osteomyelitis-site unspec         1           N3021         Unsp.osteomyelitis-shoulder         1           N3028         Unsp.osteomyelitis-other spec.         1           N3029         Unsp.osteomyelitis-mult.site         1           N3022         Unsp.osteomyelitis-NOS         1           N0660         Unsp.monoarthrsite unspecif.         1           N0661         Unsp.monoarthrshoulder         1           N0668         Unsp.monoarthrother specif.         1           N1121         Two lev th spondyl-no myelop         1           N1181         Two lev th spondyl + radiculop         1           N1131         Two lev th spondyl + myelop         1           N1141         Two lev lumbsac spond-no myelo         1           N1151         Two lev Uumbsac spond-no myelo         1           N1101         Two lev Cx spondyl + radiculop         1			
N065800         Unsp.polyarthrother specif.         1           N0658         Unsp.polyarthrother specif.         1           N065900         Unsp.polyarthrmultiple site         1           N0659         Unsp.polyarthrmultiple site         1           N3020         Unsp.osteomyelitis-site unspec         1           N3021         Unsp.osteomyelitis-shoulder         1           N3028         Unsp.osteomyelitis-other spec.         1           N3029         Unsp.osteomyelitis-mult.site         1           N3022         Unsp.osteomyelitis NOS         1           N0660         Unsp.monoarthrsite unspecif.         1           N0661         Unsp.monoarthrshoulder         1           N0668         Unsp.monoarthrother specif.         1           N1121         Two lev th spondyl-no myelop         1           N1121         Two lev th spondyl + radiculop         1           N1131         Two lev th spondyl + myelop         1           N1141         Two lev lumbsac spond - no myelo         1           N1151         Two lev Umbsac spond + myelop         1           N1101         Two lev Cx spondyl + radiculop         1           N1191         Two lev Cx spondyl + myelop         1			
N0658         Unsp.polyarthrother specif.         1           N065900         Unsp.polyarthrmultiple site         1           N0659         Unsp.polyarthrmultiple site         1           N3020         Unsp.osteomyelitis-site unspec         1           N3021         Unsp.osteomyelitis-shoulder         1           N3028         Unsp.osteomyelitis-shoulder         1           N3029         Unsp.osteomyelitis-mult.site         1           N3022         Unsp.osteomyelitis NOS         1           N0660         Unsp.monoarthrsite unspecif.         1           N0661         Unsp.monoarthrshoulder         1           N0668         Unsp.monoarthrother specif.         1           N1121         Two lev th spondyl-no myelop         1           N1121         Two lev th spondyl-no myelop         1           N1131         Two lev th spondyl + myelop         1           N1141         Two lev lumbsac spond -no myelo         1           N1151         Two lev lumbsac spond + myelop         1           N1101         Two lev Cx spondyl + radiculop         1           N1191         Two lev Cx spondyl + radiculop         1           N1191         Two lev Cx spondyl + myelop         1 <t< td=""><td></td><td></td><td>-</td></t<>			-
N065900         Unsp.polyarthrmultiple site         1           N0659         Unsp.polyarthrmultiple site         1           N3020         Unsp.osteomyelitis-site unspec         1           N3021         Unsp.osteomyelitis-shoulder         1           N3028         Unsp.osteomyelitis-other spec.         1           N3029         Unsp.osteomyelitis-mult.site         1           N302z         Unsp.mostermyelitis NOS         1           N0660         Unsp.monoarthrsite unspecif.         1           N0661         Unsp.monoarthrshoulder         1           N0668         Unsp.monoarthrother specif.         1           N1121         Two lev th spondyl-no myelop         1           N1121         Two lev th spondyl + radiculop         1           N1131         Two lev th spondyl + myelop         1           N1131         Two lev lumbsac spond-no myelo         1           N1151         Two lev lumbsac spond + myelop         1           N1101         Two lev Cx spondyl + radiculop         1           N1191         Two lev Cx spondyl + radiculop         1           N1111         Two lev Cx spondyl + myelop         1           N1111         Two lev Cx spondyl + myelop         1			
N0659       Unsp.polyarthrmultiple site       1         N3020       Unsp.osteomyelitis-site unspec       1         N3021       Unsp.osteomyelitis-shoulder       1         N3028       Unsp.osteomyelitis-bother spec.       1         N3029       Unsp.osteomyelitis mult.site       1         N302z       Unsp.osteomyelitis NOS       1         N0660       Unsp.monoarthrsite unspecif.       1         N0661       Unsp.monoarthrother specif.       1         N0668       Unsp.monoarthrother specif.       1         N1121       Two lev th spondyl-no myelop       1         N1121       Two lev th spondyl + radiculop       1         N1131       Two lev th spondyl + myelop       1         N1141       Two lev lumbsac spond-no myelo       1         N1151       Two lev lumbsac spond + myelop       1         N1101       Two lev Cx spondyl-no myelop       1         N1191       Two lev Cx spondyl + radiculop       1         N1111       Two lev Cx spondyl + myelop       1         N1111       Two lev Cx spondyl + myelop       1         N1111       Two lev Cx spondyl + myelop       1         N111       Two lev Cx spondyl + myelop       1			
N3020       Unsp.osteomyelitis-site unspec       1         N3021       Unsp.osteomyelitis-shoulder       1         N3028       Unsp.osteomyelitis-other spec.       1         N3029       Unsp.osteomyelitis-mult.site       1         N302z       Unsp.osteomyelitis NOS       1         N0660       Unsp.monoarthrsite unspecif.       1         N0661       Unsp.monoarthrshoulder       1         N0668       Unsp.monoarthrother specif.       1         N1121       Two lev th spondyl-no myelop       1         N1181       Two lev th spondyl + radiculop       1         N1131       Two lev th spondyl + myelop       1         N1141       Two lev lumbsac spond-no myelo       1         N1151       Two lev lumbsac spond + myelop       1         N1101       Two lev Cx spondyl-no myelop       1         N1191       Two lev Cx spondyl + radiculop       1         N1191       Two lev Cx spondyl + myelop       1         N1111       Two lev Cx spondyl + myelop       1         N018       Tuberculosis of thoracic spine       1         N3041       Tuberculosis of spine       1         N3042       Tuberculosis of other bones       1         N	N0659		
N3021       Unsp.osteomyelitis-shoulder       1         N3028       Unsp.osteomyelitis-other spec.       1         N3029       Unsp.osteomyelitis-mult.site       1         N302z       Unsp.osteomyelitis NOS       1         N0660       Unsp.monoarthrsite unspecif.       1         N0661       Unsp.monoarthrshoulder       1         N0668       Unsp.monoarthrother specif.       1         N1121       Two lev th spondyl-no myelop       1         N1181       Two lev th spondyl + radiculop       1         N1131       Two lev th spondyl + myelop       1         N1141       Two lev lumbsac spond-no myelo       1         N1151       Two lev lumbsac spond + myelop       1         N1101       Two lev Cx spondyl-no myelop       1         N1191       Two lev Cx spondyl + radiculop       1         N1191       Two lev Cx spondyl + myelop       1         N1111       Two lev Cx spondyl + myelop       1         N018       Tuberculosis of thoracic spine       1         N3041       Tuberculosis of spine       1         N3042       Tuberculosis of other bones       1         N3042       Tuberculosis of lumbar spine       1	N3020		
N3028       Unsp.osteomyelitis-other spec.       1         N3029       Unsp.osteomyelitis-mult.site       1         N302z       Unsp.osteomyelitis NOS       1         N0660       Unsp.monoarthrsite unspecif.       1         N0661       Unsp.monoarthrshoulder       1         N0668       Unsp.monoarthrother specif.       1         N1121       Two lev th spondyl-no myelop       1         N1181       Two lev th spondyl + radiculop       1         N1131       Two lev th spondyl + myelop       1         N1141       Two lev lumbsac spond-no myelo       1         N1151       Two lev lumbsac spond + myelop       1         N1101       Two lev Cx spondyl-no myelop       1         N1191       Two lev Cx spondyl + radiculop       1         N1111       Two lev Cx spondyl + myelop       1         N1111       Two lev Cx spondyl + myelop       1         N018       Tuberculosis of thoracic spine       1         N3041       Tuberculosis of spine       1         N3042       Tuberculosis of other bones       1         N3042       Tuberculosis of lumbar spine       1	N3021	·	1
N3029       Unsp.osteomyelitis-mult.site       1         N302z       Unsp.osteomyelitis NOS       1         N0660       Unsp.monoarthrsite unspecif.       1         N0661       Unsp.monoarthrother specif.       1         N1068       Unsp.monoarthrother specif.       1         N1121       Two lev th spondyl-no myelop       1         N1181       Two lev th spondyl + radiculop       1         N1131       Two lev th spondyl + myelop       1         N1141       Two lev lumbsac spond-no myelo       1         N1151       Two lev lumbsac spond + myelop       1         N1101       Two lev Cx spondyl-no myelop       1         N1191       Two lev Cx spondyl + radiculop       1         N1111       Two lev Cx spondyl + myelop       1         N018       Tuberculous arthritis       1         N3041       Tuberculosis of thoracic spine       1         N304       Tuberculosis of spine       1         N306       Tuberculosis of other bones       1         N3042       Tuberculosis of lumbar spine       1			1
N302z       Unsp.osteomyelitis NOS       1         N0660       Unsp.monoarthrsite unspecif.       1         N0661       Unsp.monoarthrshoulder       1         N0668       Unsp.monoarthrother specif.       1         N1121       Two lev th spondyl-no myelop       1         N11B1       Two lev th spondyl + radiculop       1         N1131       Two lev th spondyl + myelop       1         N1141       Two lev lumbsac spond-no myelo       1         N1151       Two lev lumbsac spond + myelop       1         N1101       Two lev Cx spondyl + myelop       1         N1191       Two lev Cx spondyl + radiculop       1         N1111       Two lev Cx spondyl + myelop       1         N018       Tuberculous arthritis       1         N3041       Tuberculosis of thoracic spine       1         N3042       Tuberculosis of other bones       1         N3042       Tuberculosis of lumbar spine       1	N3029		1
N0660       Unsp.monoarthrsite unspecif.       1         N0661       Unsp.monoarthrshoulder       1         N0668       Unsp.monoarthrother specif.       1         N1121       Two lev th spondyl-no myelop       1         N1181       Two lev th spondyl + radiculop       1         N1131       Two lev th spondyl + myelop       1         N1141       Two lev lumbsac spond-no myelo       1         N1151       Two lev lumbsac spond + myelop       1         N1101       Two lev Cx spondyl-no myelop       1         N1191       Two lev Cx spondyl + radiculop       1         N1111       Two lev Cx spondyl + myelop       1         N018       Tuberculous arthritis       1         N3041       Tuberculosis of thoracic spine       1         N304       Tuberculosis of spine       1         N306       Tuberculosis of other bones       1         N3042       Tuberculosis of lumbar spine       1	N302z		1
N0661       Unsp.monoarthrshoulder       1         N0668       Unsp.monoarthrother specif.       1         N1121       Two lev th spondyl-no myelop       1         N11B1       Two lev th spondyl + radiculop       1         N1131       Two lev th spondyl + myelop       1         N1141       Two lev lumbsac spond-no myelo       1         N1151       Two lev lumbsac spond + myelop       1         N1101       Two lev Cx spondyl-no myelop       1         N1191       Two lev Cx spondyl + radiculop       1         N1111       Two lev Cx spondyl + myelop       1         N018       Tuberculous arthritis       1         N3041       Tuberculosis of thoracic spine       1         N3042       Tuberculosis of other bones       1         N3042       Tuberculosis of lumbar spine       1	N0660		1
N0668       Unsp.monoarthrother specif.       1         N1121       Two lev th spondyl-no myelop       1         N11B1       Two lev th spondyl + radiculop       1         N1131       Two lev th spondyl + myelop       1         N1141       Two lev lumbsac spond-no myelo       1         N1151       Two lev lumbsac spond + myelop       1         N1101       Two lev Cx spondyl-no myelop       1         N1191       Two lev Cx spondyl + radiculop       1         N1111       Two lev Cx spondyl + myelop       1         N018       Tuberculous arthritis       1         N3041       Tuberculosis of thoracic spine       1         N3042       Tuberculosis of other bones       1         N3042       Tuberculosis of lumbar spine       1	N0661		1
N1121Two lev th spondyl-no myelop1N11B1Two lev th spondyl + radiculop1N1131Two lev th spondyl + myelop1N1141Two lev lumbsac spond-no myelo1N1151Two lev lumbsac spond + myelop1N1101Two lev Cx spondyl-no myelop1N1191Two lev Cx spondyl + radiculop1N1111Two lev Cx spondyl + myelop1N018Tuberculous arthritis1N3041Tuberculosis of thoracic spine1N304Tuberculosis of spine1N306Tuberculosis of other bones1N3042Tuberculosis of lumbar spine1	N0668	·	1
N11B1       Two lev th spondyl + radiculop       1         N1131       Two lev th spondyl + myelop       1         N1141       Two lev lumbsac spond-no myelo       1         N1151       Two lev lumbsac spond + myelop       1         N1101       Two lev Cx spondyl-no myelop       1         N1191       Two lev Cx spondyl + radiculop       1         N1111       Two lev Cx spondyl + myelop       1         N018       Tuberculous arthritis       1         N3041       Tuberculosis of thoracic spine       1         N304       Tuberculosis of spine       1         N304       Tuberculosis of other bones       1         N3042       Tuberculosis of lumbar spine       1	N1121		1
N1131       Two lev th spondyl + myelop       1         N1141       Two lev lumbsac spond-no myelo       1         N1151       Two lev lumbsac spond + myelop       1         N1101       Two lev Cx spondyl-no myelop       1         N1191       Two lev Cx spondyl + radiculop       1         N1111       Two lev Cx spondyl + myelop       1         N018       Tuberculous arthritis       1         N3041       Tuberculosis of thoracic spine       1         N304       Tuberculosis of spine       1         N306       Tuberculosis of other bones       1         N3042       Tuberculosis of lumbar spine       1	N11B1		1
N1141       Two lev lumbsac spond-no myelo       1         N1151       Two lev lumbsac spond + myelop       1         N1101       Two lev Cx spondyl-no myelop       1         N1191       Two lev Cx spondyl + radiculop       1         N1111       Two lev Cx spondyl + myelop       1         N018       Tuberculous arthritis       1         N3041       Tuberculosis of thoracic spine       1         N304       Tuberculosis of spine       1         N306       Tuberculosis of other bones       1         N3042       Tuberculosis of lumbar spine       1	N1131		1
N1151       Two lev lumbsac spond + myelop       1         N1101       Two lev Cx spondyl-no myelop       1         N1191       Two lev Cx spondyl + radiculop       1         N1111       Two lev Cx spondyl + myelop       1         N018       Tuberculous arthritis       1         N3041       Tuberculosis of thoracic spine       1         N304       Tuberculosis of spine       1         N306       Tuberculosis of other bones       1         N3042       Tuberculosis of lumbar spine       1	N1141		1
N1101       Two lev Cx spondyl-no myelop       1         N1191       Two lev Cx spondyl + radiculop       1         N1111       Two lev Cx spondyl + myelop       1         N018       Tuberculous arthritis       1         N3041       Tuberculosis of thoracic spine       1         N304       Tuberculosis of spine       1         N306       Tuberculosis of other bones       1         N3042       Tuberculosis of lumbar spine       1	N1151		1
N1191       Two lev Cx spondyl + radiculop       1         N1111       Two lev Cx spondyl + myelop       1         N018       Tuberculous arthritis       1         N3041       Tuberculosis of thoracic spine       1         N304       Tuberculosis of spine       1         N306       Tuberculosis of other bones       1         N3042       Tuberculosis of lumbar spine       1	N1101	· · · · · · · · · · · · · · · · · · ·	1
N1111         Two lev Cx spondyl + myelop         1           N018         Tuberculous arthritis         1           N3041         Tuberculosis of thoracic spine         1           N304         Tuberculosis of spine         1           N306         Tuberculosis of other bones         1           N3042         Tuberculosis of lumbar spine         1	N1191		1
N018Tuberculous arthritis1N3041Tuberculosis of thoracic spine1N304Tuberculosis of spine1N306Tuberculosis of other bones1N3042Tuberculosis of lumbar spine1	N1111		1
N3041Tuberculosis of thoracic spine1N304Tuberculosis of spine1N306Tuberculosis of other bones1N3042Tuberculosis of lumbar spine1	N018		
N304Tuberculosis of spine1N306Tuberculosis of other bones1N3042Tuberculosis of lumbar spine1			
N306Tuberculosis of other bones1N3042Tuberculosis of lumbar spine1	N304	·	
N3042 Tuberculosis of lumbar spine 1	N306	·	1
· · · · · · · · · · · · · · · · · · ·	N3042		1
	N3040	·	1

Read code	Description	Number of studies
N3060	Tuberculosis bone-site unspec.	1
N3061	Tuberculosis bone-shoulder	1
N3064	Tuberculosis bone-other sites	1
N3065	Tuberculosis bone-multip.sites	1
N306z	Tuberculosis bone NOS	1
N22yD	Tuberc infec - tendon sheath	1
N2155	Trochanteric tendinitis	1
N2157	Trochanteric bursitis	1
N0874	Triangular fibrocartilage tear	1
N0875	Triangular fibrocartil detach	1
N118	Traumatic spondylopathy	1
N2312	Traumatic myositis ossificans	1
SE46	Traumatic haematoma	1
SK	Traumatic complicat./unsp.inj.	1
N061A	Traumatic arthropathy-shoulder	1
N061M	Traumatic arthropathy-knee	1
N061z	Traumatic arthropathy NOS	1
N061	Traumatic arthropathy	1
N0610	Traumatic arthrsite unspecif	1
N0611	Traumatic arthrshoulder	1
N0618	Traumatic arthrother specif.	1
N0619	Traumatic arthrmultiple site	1
N061B	Traumat arthrop-sternoclav jt	1
N061C	Traumat arthrop-acromioclav jt	1
S906	Traumat amp at shoulder joint	1
SA72	Traum.unil.amput.>knee-no comp	1
N220Q	Transient synovitis	1
N064A	Transient arthropathy-shoulder	1
N064M	Transient arthropathy-knee	1
N064z	Transient arthropathy NOS	1
N064	Transient arthropathy	1
N064B	Transient arthrop-sternoclav j	1
N0640	Transient arthrsite unspecif	1
N0641	Transient arthrshoulder	1
N0648	Transient arthrother specif.	1
N0649	Transient arthrmultiple site  Transient arthr-acromioclav jt	1
N064C	Transient arthr-acromioclav jt	1
N135	Torticollis unspecified	1
Q20y9	Torticollis due to birth injury	1
16A3	Torticollis - symptom	1
N2451-1	Toe pain	1
N2162	Tibial collateral lig.bursitis	1
N2450-1	Thumb pain	1
N05z4-2	Thumb osteoarthritis NOS	1
N3735	Thoracogenic scoliosis	1
N1485	Thoraco-lumbar ankylosis	1
N144	Thoracic/lumbosacral neuritis	1
N144z	Thoracic/lumbosac.neuritis NOS	1
N112-1	Thoracic spondylosis	1
N112	Thoracic spondno myelopathy	1
N113	Thoracic spond.+ myelopathy	1
N148B	Thoracic spine instability	1
N1484	Thoracic spine ankylosis	1

Read code	Deparintion	Number of
	Description	studies
N1401	Thoracic spinal stenosis	1
N12A2	Thoracic postlaminectomy syndr	1
N1440	Thoracic nerve root pain	1
N12z8	Thoracic discitis	1
N121	Thoracic disc displno myelop	1
N1292	Thoracic disc disord.+myelop.	1
N126	Thoracic disc degeneration	1
S571	Thoracic back sprain	1
EMISNQTH14	Thoracic back pain	1
N245-8	Thigh pain	1
N11B	Th spondyl + radiculop	1
N1406	Th spin stenos due to oth dis	1
N12C1	Th disc prolapse+radiculopathy	1
N12B1	Th disc prolapse + myelopathy	1
N2132-1	Tennis elbow	1
N2202	Tendon sheath giant cell tumor	1
ASDFGTE2	Tendon Symptoms	1
N2456	Tender heel pad	1
S46B	Tear/articulr cart/knee,currnt	1
S545	Tear of ligament of knee joint	1
N000*	Systemic lupus erythematosus	1
N000	Systemic lupus erythematosus	1
N000z	Systemic lupus erythematos.NOS	1
N0012	Syst scleros induc drugs/chems	1
N0003	Syst lup eryth + organ/sys inv	1
N2227	Syphilitic bursitis	1
N2200	Synovitis or tenosynovitis NOS	1
N220z-2	Synovitis of knee	1
N220z	Synovitis of knee	1
N220V	Synovitis of knee	1
N220	Synovitis and tenosynovitis	1
N220T	Synovitis NOS	1
N2201	Synovit./tenosynovitis+dis EC	1
N22y4	Synovial plica	1
N098	Synovial osteochondromatosis	1
N2240	Synovial cyst unspecified	1
N0980	Synov osteochondromat-shoulder	1
N098B	Synov osteochondromat-knee	1
N0981	Synov osteochondromat st-cla j	1
N0982	Synov osteochondromat ac-cla j	1
1D24	Symptom: trunk posterior	1
16J4	Swollen knee	1
16J3	Swollen joint	1
16J7	Swollen foot	1
1834-1	Swollen finger	1
1JG	Suspected inflammatory arthritis	1
N21z2	Supraspinatus tendonitis	1
N2113	Supraspinatus tendinitis	1
N230	Suppurative myositis	1
SD1y4	Supl inj bk NOS-no mj opn wnd	1
SD9	Superficialinjuriesunspecif.	1
SD097	SuperficialInjury:Neck	1
SD2y1		1
ODZy i	Superficial injury of scapular NOS	1

Read code	Description	Number of studies
SD6y2	Superficial injury of knee NOS	1
SDz	Superficial injuries NOS	1
SD0	Superficial Injury: Neck	1
SD2y0	Superfic injury shoulder NOS	1
SD2	Superf.inj.shoulder/upper arm	1
SD1z4	Superf.back inj.NOS+infect.	1
N3371	Sudek's atrophy	1
N2167	Subpatellar bursitis	1
N3y01	Subluxatn complex (vertebral)	1
N3y02	Sublux stenos of neural canal	1
N3081	Subacute osteomyelitis-th spin	1
N3082	Subacute osteomyelitis-lu spin	1
N3080	Subacute osteomyelitis-Cx spin	1
N309	Subacute osteomyelitis	1
N308	Subacute osteomyelitis	1
N2122	Subacromial impingement	1
N2116	Subacromial bursitis	1
S3z2	Stress fracture	1
N095B	Stiff sternoclavic joint NEC	1
N095A	Stiff shoulder NEC	1
16AZ	Stiff neck symptom NOS	1
16A	Stiff neck symptom	1
N135z	Stiff neck NOS	1
16A2	Stiff neck	1
N095M	Stiff knee NEC	1
N095C	Stiff acromioclavicular joint NEC	1
S5y41	Sternoclavicular sprain	1
N0108	Staphylococc arthrit/polyarthr	1
S5410	Sprn,knee jt,medial collat	1
S5400	Sprn,knee jt,lat collat lgmt	1
S520D	Sprn triangular fibrocartilage	1
S520G	Sprn shrt intrnsc Igmnt non-sp	1
S5	Sprains and strains	1
S50	Sprained shoulder	1
S54y-99	Sprained knee NOS	1
S54-99	Sprained knee NOS Sprained knee Sprain, lumbosacral ligament	1
S560	Sprain, lumbosacral ligament	1
S564	Sprain, iliolumbar ligament	1
S501	Sprain, coraco-clav ligament	1
S506	Sprain supraspinatus tendon	1
S505	Sprain subscapularis tendon	1
S5071	Sprain shoulder joint posterior	1
S5070	Sprain shoulder joint anterior	1
S507	Sprain shoulder joint	1
S534	Sprain patellar tendon	. 1
S503	Sprain infraspinatus tendon	1
S500	Sprain acromio-clav ligament	1
S542	Sprain -cruciate knee ligament	1
S541	Sprain - medial knee ligament	1
S541-99	Sprain - medial knee ligament	1
S540-99	Sprain - Inedial Knee ligament	1
S540	Sprain - lateral knee ligament	1
3340		

Read code	Description	Number of studies
S57X	Spr/str ot/un pt lum sp/pel	Studies 1
ASDFGSP5	Sports Injury	1
N082	Spontaneous joint dislocation	1
16B3	Spontaneous bruising	1
N11z0	Spondylosis-no myelopathy,NOS	1
N11zz	Spondylosis NOS	1
N11z1	Spondylosis + myelopathy, NOS	1
N388	Spondylolysis	1
OXL7561C	Spondylolisthesis /ox	1
N10z	Spondylitis NOS	1
N374	Spine curvature+other condits.	1
N374z	Spine curvature+other cond.NOS	1
N1400	Spinal stenosis unspec.region	1
N140z	Spinal stenosis MOS	1
N140-1	Spinal stenosis	1
N140	Spinal stenosis Spinal stenosis	1
N101	Spinal enthesopathy	1
N222z	Specific bursitides NOS	1
N222	Specific bursitides	1
F1382	Spasmodic Torticollis	1
N23y4	Spasm of muscle	1
N23yE		1
EGTON309	Spasm of back muscles Sore Neck	_
N3321		1
N0878	Solitary bone cyst	1
N32y	Snapping shoulder	1
N33zA	Slipped radial epiphysis	1
N002*	Skeletal fluorosis	1
N2125	Sicca (Sjogren's) syndrome	1
S50y	Shoulder tendonitis	1
N245-7	Shoulder pain NOS	1
N245	Shoulder pain	1
N2457	Shoulder pain	1
N0951	Shoulder pain	1
UNMAPPC0	Shoulder joint stiffness	1
S221	Shoulder injury Shoulder fracture - open Short tendon Sex acquired reactive arthrop	1
N22y5	Shoulder fracture - open	1
N011	Short tendon	1
N0110	Cox doquired redelive draines	1
N0110	Sex acqd reac arthrep-unspec	1
N0111	Sex acqd reac arthrop-shoulder	1
N011x	Sex acqd reac arthrop-oth spec	1
N011z	Sex acqd reac arthrop-multiple	1
SRz0	Sex acq reac arthropathy NOS	1
N047	Severe multiple injuries	1
N047 N04X	Seropositive errosive RA	1
	Seroposit rheum arthr unsp	1
N040P	Seronegative rheumat arthritis	1
EGTONSE2	Sero-Negative Polyarthritis	1
N04y1	Sero negative arthritis	1
N04y10	Sero negative arthritis	1
N3301	Senile osteoporosis	1
N2169	Semimembranosus tendinitis	1
EGTON131	Semi Frozen Shoulder	1

Read code	Description	Number of studies
N3y00	Segmental & somatic dysfunctn	1
N0505	Secondary multiple arthrosis	1
N050500	Secondary multiple arthrosis	1
EMISNQSC20	Scoliosis of thoracic spine	1
N374A	Scoliosis in skelet dysplasia	1
N374C	Scoliosis in neurofibromatosis	1
N374D	Scoliosis in conn tiss anomal	1
N3739	Scoliosis due to oth treatment	1
OX735AA	Scoliosis Acquired /ox	1
N3743	Scoliosis + other condition	1
N001	Scleroderma	1
OX353C	Sciatica Chronic /ox	1
N1240	Schmorl's nodes-unspec. region	1
N1241	Schmorl's nodes-thoracic regn.	1
N124z	Schmorl's nodes-region NOS	1
N1242	Schmorl's nodes-lumbar region	1
N124	Schmorl's nodes	1
N3201	Scheuermann's disease	1
N2121	Scapulohumeral fibrositis	1
N146z-1	Sacroiliac strain	1
N1466	Sacroiliac disorder	1
S5731	Sacral/coccyx sprain	1
N0004	SLE with pericarditis	1
N25	SAPHO syndrome	1
S5Q2	Rupture supraspinatus tendon	1
S5Q1	Rupture subscapularis tendon	1
S5U2	Rupture patellar tendon	1
N2250	Rupture of synovium unspecif.	1
N225z	Rupture of synovium NOS	1
N2251-99	Rupture of synovium - knee	1
N225	Rupture of synovium	1
S5Q0	Rupture infraspinatus tendon	1
N2251	Ruptur poplit space synov cyst	1
N2110	Rotator cuff syndrome unspecif	1
S504	Rotator cuff sprain	1
N211	Rotator cuff shoulder syndrome	1
N2261	Rotator cuff complete rupture	1
N3385	Rotational mal-union of #	1
182B	Rib pain	1
EGTON425	Rheumatology	1
N040N	Rheumatoid vasculitis	1
N0422	Rheumatoid nodule	1
N040R	Rheumatoid nodule	1
N0421	Rheumatoid lung disease	1
N040Q	Rheumatoid bursitis	1
N0402	Rheumatoid arthritis-shoulder	1
N0400	Rheumatoid arthritis-Cx spine	1
N040D	Rheumatoid arthritis of knee	1
N040	Rheumatoid arthritis	1
N0403	Rheumatoid arthr-sternoclav jt	1
N0404	Rheumatoid arthr-acromioclav j	1
N1351	Rheumatic torticollis	1
N0420	Rheumatic carditis	

Read code	Description	Number of
OX7149A	Rheumatic Arthritis /ox	studies
N040S		1
N2333	Rheumat arthr - multiple joint Rhabdomyolysis	1
N042z	Rh.arthr.+visc/syst.dis.NOS	1
N080A	Reverse Hill-Sachs lesion	1
N0871		
N12zA	Reverse Bankart lesion	1
N12zA N12zE	Resorption of thoracic disc	1
N12z6	Resorption of lumbar disc	1
N3732	Resorption of cervical disc	1
N246	Resolving infant.idiopath.scol	1
N339	Residual soft tiss.foreign bod	1
	Residual foreign body in bone	1
Ny2 N33z5	Repetitive strain injury	1
	Relapsing polychondritis	1
N337	Reflex sympathetic dystrophy	1
N083	Redislocation of joint	1
S46D	Recurrent subluxation of patella	1
N083D	Recurrent sublux shoulder-post	1
N083F	Recurrent sublux shoulder-inf	1
N083C	Recurrent sublux shoulder-ant	1
N083H	Recurrent sublux shoulder-ant	1
N083q	Recurrent sublux - patella	1
N083z	Recurrent joint dislocat.NOS	1
N0839	Recurrent disloc-multip joints	1
N083B	Recurrent disloc shoulder-post	1
N083E	Recurrent disloc shoulder-inf	1
N083A	Recurrent disloc shoulder-ant	1
N083G	Recurrent disloc shoulder-ant	1
N083p	Recurrent disloc - patella	1
N083n	Recurrent disloc - knee	1
N0830	Recurr.joint dislocsite unsp	1
N0838	Recurr.joint disloc-other spec	1
N0831	Recur. disloc shoulder joint	1
N0836-99	Recur. disloc knee joint	1
N083K	Recur sublux shoulder-multidir	1
N083J	Recur disloc shoulder-multidir	1
N1y0	Rec atlantoax subl + myelopath	1
N01w0	Reactive arthropathy-shoulder	1
N01w	Reactive arthropathy unspecified	1
N01wB	Reactive arthropathy of knee	1
N038	Reactive arthropathies	1
N01w2	Reactive arthrop-sternoclav jt	1
N01w1	Reactive arthr-acromioclav jt	1
EGTON436	Radiculopathy	1
N2422	Radiculitis unspecified	1
N3734	Radiation scoliosis	1
N3711	Radiation kyphosis	1
N0706	Radial tear of medial meniscus	1
N0717	Radial tear of lateral meniscus	1
N2204	Radial styloid tenosynovitis	1
N22yC	Pyogenic infec - tendon sheath	1
N010	Pyogenic arthritis	1
N0100	Pyogenic arthrsite unspecif.	1
	, ,	-

Read code	Description	Number of studies
N0101	Pyogenic arthrshoulder regn.	1
N010y	Pyogenic arthrother specif.	1
N010x	Pyogenic arthrmultiple sites	1
N010z	Pyogenic arthrNOS	1
S57z0	Pulled back muscle	1
OX848ML	Pulled Muscle /ox	1
E2601	Psychogenic Torticollis	1
N2373	Pseudosarcomatous fibromatosis	1
N33zC	Pseudarth after fusn/arthrodes	1
S5422	Prt tr,knee,post cruciate Igmt	1
N12C4	Prol lumb interv disc sciatic	1
N0010	Progressive systemic sclerosis	1
N2311	Progressive myositis ossific.	1
N3733	Progressive infant.idiop.scol.	1
N051B	Primary gonarthrosis, bilat	1
N050400	Primary general osteoarthrosis	1
N0504	Primary general osteoarthrosis	1
N0519	Primary coxarthrosis bilateral	1
N051C	Primary arthrosis of first carpometacarpal joints,	
	bilateral	1
N2165	Prepatellar bursitis	1
N3736	Postural scoliosis	1
N3307	Postsurg malabsorp osteoporos	1
N3314	Postsur malab osteop+path frct	1
NyX	Postproc muscsk disord,unsp	1
N2313	Postop.heterotopic calcificat.	1
N3306	Postoophorectomy osteoporosis	1
N3312	Postoophorc osteopor+path frct	1
N3302	Postmenopausal osteoporosis	1
N331B	Postmenop osteopor+path fract	1
N0380	Postmeningococcal arthritis	1
N12Az	Postlaminectomy syndrome NOS	1
N12A	Postlaminectomy syndrome	1
N12A0	Postlaminectomy syndr.unspec.	1
N0381	Postinf arthropath in syphilis	1
N037	Postimmunization arthropathy	1
N013	Postdysenteric react arthrop	1
N0130	Postdys react arthrop-unspec	1
N0131	Postdys react arthrop-shoulder	1
N013y	Postdys react arthrop-oth spec	1
N013x	Postdys react arthrop-multiple	1
N013z	Postdys react arthrop NOS	1
16B4	Post-traumatic bruising	1
N052B	Post-traumatic arthrosis of first carpometacarpal	
Notoo	joints, bilateral	1
N052C	Post-trauma gonarth, unilat	1
N052A	Post-traum gonarthrosis, bilat	1
N0529	Post-traum coxarthrosis, bilat	1
N3738	Post-surgical scoliosis	1
N3721	Post-laminectomy lordosis	1
NIO (11)	Post-laminectomy kyphosis	1
N3712		
N2314 N004	Polymyositis ossificans Polymyositis	1

Read code	Description	Number of studies
N20*	Polymyalgia rheumatica	1
N20	Polymyalgia	1
N065-1	Polyarthropathy NEC	1
N065.11	Polyarthropathy NEC	1
N065	Polyarthropathy NEC	1
N065z	Polyarthritis	1
N065z00	Polyarthritis	1
N307z	Poliomyelitis osteopathy NOS	1
N3070	Polio.osteopathy-site unspecif	1
N3071	Polio.osteopathy-shoulder	1
N3078	Polio.osteopathy-other sites	1
N3079	Polio.osteopathy-multiple site	1
N0109	Pneumococc arthrit & polyarthr	1
N2179	Plantar fasciitis	1
N2209	Plant thorn synovitis	1
N2161	Pes anserinus tendin./bursitis	1
SJz-98	Peripheral nerve injury NOS	1
N21zz	Peripheral enthesopathy NOS	1
N21	Peripheral enthesopathies	1
N0705	Periph detach-medial meniscus	1
N0716	Periph detach-lateral meniscus	1
N303	Periostitis, no osteomyelitis	1
N303B	Periostitis, no osteomye-th sp	1
N303C	Periostitis, no osteomye-lu sp	1
N303A	Periostitis, no osteomye-Cx sp	1
N303z	Periostitis no osteomyel NOS	1
N3030	Periostitis - site unspecified	1
N3031	Periostitis - shoulder	1
N3038	Periostitis - other sites	1
N3039	Periostitis - multiple sites	1
N2120	Periarthritis of shoulder	1
N21z1	Periarthritis NOS	1
N3843	Pedicular spondylolisthesis	1
N0432	Pauciarticular juvenile R.A.	1
N0456	Pauciartic onset juv ch arth	1
N331y	Pathological fracture OS	1
N331z	Pathological fracture NOS	1
N082z	Pathological dislocation NOS	1
N331C	Pathological # cervical vert	1
N0820	Patholog.dislocsite unspecif	1
N0821	Patholog.dislocshoulder	1
N0828	Patholog.dislocother specif.	1
N082A	Path disloc-shoulder joint	1
N082R	Path disloc-patellofem joint	1
N082B	Path disloc-oth joint-shoulder	1
N0829	Path disloc-multiple joints	1
N082Q	Path disloc-knee joint	1
N0536-1	Patellofemoral osteoarthritis	1
N0536	Patellofemoral osteoarthritis	1
N07y6	Patellofemoral maltracking	1
N09A	Patellofemoral disorder	1
N2266	Patellar tendon nontraum.rupt.	1
N2164	Patellar tendon nontraum.rupt.  Patellar tendinitis	1
142107	ratellal tenumitis	1

Read code	Description	Number of
N33z9	Partial epiphyseal arrest	studies 1
S5421	Part tr,knee,ant cruciate Igmt	1
N2114	Part thickn rotator cuff tear	1
S5411	Part tear,knee,mdl collat lgmt	1
S5401	Part tear,knee,lat collat Igmt	1
N1y2	Pars interarticular strss frct	1
N0704	Parr beak tear-post/med menisc	1
N0715	Parr beak tear-post/lat menisc	1
N2316	Paralytic calcific/ossif muscl	1
N243	Panniculitis unspecified	1
N136	Panniculitis of neck	1
N243z	Panniculitis NOS	1
N093z	Palindromic rheumatism NOS	1
N093	Palindromic rheumatism	1
N0930	Palindromic rheumsite unspec	1
N0931	Palindromic rheumshoulder	1
N0938	Palindromic rheumother spec.	1
N0939	Palindromic rheummultip.site	1
N211z	Painful arc syndrome	1
N211z-1	Painful arc syndrome	1
EGTON224	Painful Shoulder	1
EGTON279	Painful Right Knee	1
N131-1	Pain in cervical spine	1
N245-9	Pain in buttock	1
N2453	Pain in arm	1
OX7280AD	Pain Neck /ox	1
OX7873E	Pain Knee /ox	1
N245-95	Pain In Right Leg	1
N245-97	Pain In Right Arm	1
N245-96	Pain In Left Leg	1
N3101	Paget's disease-thoracic spine	1
N3106	Paget's disease-scapula	1
N310F	Paget's disease-patella	1
N310x	Paget's disease-multiple sites	1
N3102	Paget's disease-lumbar spine	1
N3105	Paget's disease-clavicle	1
N3100	Paget's disease-cervical spine	1
N310y	Paget's disease OS	1
N310z	Paget's disease NOS	1
N122-1	PID - prolapsed lumbar disc	1
N129	PID - prol i/v disc + myelop	1
S102y	Othr spec clsd # thorac vert	1
S411y	Othr opn trmtc disloctn shlder	1
S410y	Othr cls trmtc disloc shoulder	1
SK12z	Othershould/upperarminj.NOS	1
SE08	Othercontusionneck	1
N0600	Other/unspecif. arthropathies	1
N12z2	Other thoracic disc disorders	1
N22	Other synovium/tendon/bursa	1
N22y	Other synovium/tendon/bursa	1
N096B	Other symptoms - sternoclav jt	1
N096A	Other symptoms - shoulder	1
N096M	Other symptoms - knee	1

Read code	Description	Number of studies
N096D	Other symptoms - elbow	1
N096C	Other symptoms - acromioclav j	1
SD9y	Other superficial injury, without mention of infection,	
05	NOS	1
S5y	Other sprains and strains	1
S5yz	Other sprains NOS	1
N11y	Other spondyloses/allied dis.	1
S5W	Other specified tendon rupture	1
S54w	Other specified knee sprain	1
SK1	Other specified injury	1
N06y	Other specified arthropathy	1
N233	Other specific muscle disorder	1
N04y	Other specif.infl.polyarthrop.	1
N32yz	Other spec.osteochondrop.NOS	1
N04yz	Other spec.infl.polyarthr.NOS	1
N00y	Other spec.diff.collagen dis.	1
N06y0	Other spec.arthrsite unspec.	1
N06y1	Other spec.arthrshoulder	1
N06y8	Other spec.arthrother specif	1
S5yy	Other spec sprains and strains	1
\$50w	Other shoulder sprain	1
SK122	Other shoulder injuries	1
N212	Other shoulder affections NEC	1
N212z	Other shoulder affect.NEC NOS	1
SK121	Other scapular region injuries	1
N042	Other rh.arthr.+visc/syst.dis.	1
N3722	Other post-surgical lordosis	1
N21y	Other periph. enthesopathies	1
N3272	Other osteochondr dissec-knee	1
S466	Other opn trm dslctn knee	1
S497	Other open trmtc dislocation	1
S49Fz	Other open subluxation NOS	1
S4J3	Other open #-subluxation	1
S4J1	Other open #-dislocation	1
N226z	Other nontraumatic tendon rupt	1
SK10y	Other neck injuries	1
SK1x	Other multiple injuries	1
N12z3	Other lumbar disc disorders	1
N07yy	Other knee lig. old disruption	1
SK170	Other knee injury	1
N368	Other knee deformity	1
N045	Other juvenile arthritis	1
N326	Other juven.osteochondroses	1
N0960	Other joint symptsite unspec	1
N0961	Other joint symptshoulder	1
N09y1	Other joint disshoulder	1
N08yz	Other joint derange.NEC NOS	1
SK112	Other interscapular injuries	1
N07yz	Other intern.knee derang.NOS	1
SK1z	Other injury NOS	1
N10y	Other inflamm.spondylopathies	1
N10yz	Other inflamm.spondylop.NOS	1
N30y	Other infections+bone disease	1

Read code	Description	Number of studies
N03x	Other general dis.+arthropathy	1
N237z	Other fibromatoses NOS	1
N237	Other fibromatoses	1
SK10z	Other face and neck injuries NOS	1
S49z	Other dislocation NOS	1
N12z0	Other disc disorders unspecif.	1
N08	Other derangement of joint	1
N36y	Other deformity of bone	1
N37y	Other curvatures of spine	1
N02yz	Other crystal arthropathy NOS	1
N02y	Other crystal arthropathies	1
N02y0	Other crystal arthsite unsp.	1
N02y1	Other crystal arthshoulder	1
N02yy	Other crystal arthother spec	1
N02yx	Other crystal arthmult.sites	1
S465	Other cls trm dslctn knee	1
S49E	Other closed traumatic sublux	1
S4J2	Other closed #-sublux	1
S4J0	Other closed #-dislocation	1
N13yz	Other cervical syndromes NOS	1
N13y	Other cervical syndromes	1
N12z1	Other cervical disc disorders	1
N33	Other bone/cartilage disorders	1
N31y	Other bone involve.in dis.EC	1
SK114	Other back injuries	1
N374X	Other and unspecified kyphosis	1
N06	Other and unspecified arthropathies	1
S462	Other acute meniscus tear	1
N38yz	Other acquired deformity NOS	1
N38y	Other acquired deformity	1
N38	Other acquired deformity	1
S4J	Other #-dslc or subluxation	1
N08y0	Oth.joint deran.NEC-site unsp.	1
N08y1	Oth.joint deran.NEC-shoulder	1
N08y8	Oth.joint deran.NEC-other spec	1
N08y9	Oth.joint deran.NEC-mult.sites	1
N30y0	Oth.inf.+bone dis-site unspec.	1
N30y1	Oth.inf.+bone dis-shoulder	1
N30y8	Oth.inf.+bone dis-other sites	1
N30y9		1
N30yz	Oth.inf.+bone dis-multip.site Oth.inf.+bone dis-NOS	_
N07y		1
S49	Oth, internal knee derangement	1
N0401	Oth, mlti+ill-def dislc/sublux	1
S49F	Oth rheumatoid arthritis-spine	1
	Oth open traumatic subluxation	1
SRy S496	Oth inj inv mult body reg NEC	1
	Oth classed authorities NOS	1
S49Ez	Oth closed subluxation NOS	1
N33B	Osteoradionecrosis	1
N3746	Osteoporotic kyphosis	1
N3300	Osteoporosis unspecified	1
N330C	Osteoporosis localized spine	1
N330A	Osteoporosis in endocr disord	1

Read code	Description	Number of
N330z	·	studies
N330	Osteoporosis NOS Osteoporosis	1
N330D	Osteoporos due corticosteroid	1
N3309	Osteopor, multiple myelomatosis	1
N3319	Osteopor path # thor vertebrae	1
N3318	Osteopor path # lumb vertebrae	1
N331A	Osteopor path # cerv vertebrae	1
N3313	Osteopor of disuse + path frct	1
N09B	Osteophyte	1
N307	Osteopathy from poliomyelitis	1
ASDFGOS1	Osteopaenia	1
N334B	Osteonecrosis in caisson dis	1
N3349	Osteonecrosis due to drugs	1
N334A	Osteonecr due to prev trauma	1
N334C	Osteoneer due haemoglobinopath	1
N30	Osteomyelitis/periostitis	1
N302a	Osteomyelitis of vertebra	1
N302	Osteomyelitis NOS	1
N33zH	Osteolytic lesion	1
N33zD	Osteolysis	1
N32z3	Osteochondrosis NOS	1
N32z	Osteochondropathy NOS	1
N32zz	Osteochondropathy NOS	1
N32	Osteochondropathies	1
N32z2	Osteochondritis of knee	1
N3270	Osteochondritis dissec-patella	1
N327y	Osteochondr dissec-other site	1
N3274	Osteochondr dissec-capitellum	1
N327	Osteochond dissecans	1
OX7130E	Osteoarthrosis Shoulder /ox	1
OX7130B	Osteoarthrosis Knee(S) /ox	1
OX7131A	Osteoarthrosis Cervical Spine /ox	1
N11z	Osteoarthritis spine	1
N11D1	Osteoarthritis of thoracic spine	1
N11D3	Osteoarthritis of spine NOS	1
N11-2	Osteoarthritis of spine	1
N11D	Osteoarthritis of spine	1
N11D2	Osteoarthritis of lumbar spine	1
N11D0	Osteoarthritis of cervical spine	1
N110-2	Osteoarthritis cervical spine	1
N05z0	Osteoarthritis NOS-site unspec	1
N05z000	Osteoarthritis NOS-site unspec	1
N05z7	Osteoarthritis NOS-ankle/foot	1
N05zM	Osteoarthritis NOS, of tibio-fibular joint	1
N05zQ	Osteoarthritis NOS, of talonavicular joint	1
N05zK	Osteoarthritis NOS, of sacro-iliac joint	1
N05zR	Osteoarthritis NOS, of other tarsal joint	1
N05zF	Osteoarthritis NOS, of metacarpophalangeal joint	1
N05zT	Osteoarthritis NOS, of lesser metatarsophalangeal	
	joint	1
N05zU	Osteoarthritis NOS, of interphalangeal joint of toe	1
N05zD	Osteoarthritis NOS, of distal radio-ulnar joint	1
N05zE	Osteoarthritis NOS of wrist	1

Read code	Description	Number of studies
N05z4	Osteoarthritis NOS of the hand	1
N05z9	Osteoarthritis NOS of shoulder	1
N05zL	Osteoarthritis NOS of knee	1
N05zJ	Osteoarthritis NOS of hip	1
N05zC	Osteoarthritis NOS of elbow	1
N05zN	Osteoarthritis NOS of ankle	1
N05zz00	Osteoarthritis NOS	1
N05zz	Osteoarthritis NOS	1
N05z1	Osteoarthritis -shoulder joint	1
N05z800	Osteoarthritis - other joint	1
N05z8	Osteoarthritis - other joint	1
N05z6-99	Osteoarthritis - knee joint	1
N0511	Osteoarthritis	1
N094K	Osteoarthritis	1
N05	Osteoarthritis	1
N310	Osteitis deformans-Paget's dis	1
N311	Osteitis deformans+disease EC	1
N3350	Osteitis condensans ilii	1
N335	Osteitis condensans	1
N31	Osteit.deform./osteop.+dis.EC	1
N3110	Osteit deformans, neoplast dis	1
N3y03	Osseous stenos of neural canal	1
N3y06	Oss/sublx sten intervert foram	1
S900z	Opn wound shoulder+up limb,NOS	1
SA10	Opn wnd kneelg+ank-no cmplctn	1
S46A6	Opn trmtc sublux,head fibula	1
S413z	Opn trmtc sublux shoulder NOS	1
S468	Opn trmtc sublux pat-fem jt	1
S46A0	Opn trmtc sublux knee jt,unsp	1
S46A2	Opn trmtc sublux knee jt,post	1
S46A4	Opn trmtc sublux knee jt,ltrl	1
S46A1	Opn trmtc sublux knee jt,ant	1
S46A	Opn trmtc sublux knee jt	1
S4112	Opn trmtc dslctn shldr jt,post	1
S411z	Opn trmtc disloctn shouldr NOS	1
S4110	Opn trmtc dislctn shoulder jnt	1
S49F4	Opn trm sublux,st-clav jt,post	1
S49F3	Opn trm sublux,st-clav jt,ant	1
S49F2	Opn trm sublux st-clav jt	1
S4681	Opn trm sublux pat-fem jt,med	1
S4680	Opn trm sublux pat-fem jt,ltrl	1
S49F5	Opn trm sublux laryngl cartige	1
S46A5	Opn trm sublux knee jt,rotatry	1
S46A3	Opn trm sublux knee jt,medial	1
S4131	Opn trm sublux acromio-clav jt	1
S4666	Opn trm dslctn, head fibula	1
S464	Opn trm dslctn patello-fem jt	1
S4641	Opn trm dslctn pat-fem jt,med	1
S4640	Opn trm dslctn pat-fem jt lat	1
S4660	Opn trm dslctn knee, unspec	1
S4664	Opn trm dslctn knee jt,lateral	1
S4662	Opn trm dslctn knee jt, post	1
		•

Read code	Description	Number of studies
S4661	Opn trm dslctn knee jt, ant	1
S4665	Opn trm dslct knee jt, rotatory	1
S4973	Opn trm dslc,stern-clav jt,ant	1
S4972	Opn trm dslc sterno-clav jt	1
S4974	Opn trm dsl,stern-clav jt,post	1
S4114	Opn trm dislc acromio-clav jt	1
S413	Opn traumtc subluxatn shoulder	1
S4130	Opn traumtc sublux shouldr jnt	1
S411	Opn traumtc disloctn shoulder	1
S4115	Opn traumatic disloctn scapula	1
S49B	Opn sublux thrcic+lmbr vertbra	1
S49B1	Opn sublux threacic spine	1
S499x	Opn sublux miti cerv vertebrae	1
S499z	Opn sublux cerv vertebra NOS	1
S4991	Opn sublux atlanto-occipitl jt	1
S493C	Opn spnl dslc+cauda equina lsn	1
S4934	Opn spnl dslc+ant thrc crd Isn	1
S4939	Opn spnl dslc+ant lmbr crd lsn	1
S491B	Opn spnl dslc+ant cerv crd lsn	1
S493B		
S491D	Opn spnl dsl+post lmbr crd lsn Opn spnl dsl+post cerv crd lsn	1
S4933		1
S4938	Opn spnl del comp lmbr ord len	1
S4919	Opn spnl del same and lan unan	1
S4932	Opn spnl dsl+cerv crd lsn,unsp	1
S4936	Opn spn dale poet thre and les	1
S491C	Opn spn dale utri corruption	1
S491A	Opn spn dale comp converd lan	1
S4935	Opn spn dale cont through len	1
S493A	Opn spn dale cont laborard lan	1
S1150	Opn spn dslc+cent lmbr crd lsn	1
S1154	Opn spn # + unsp lumb crd lesn	1
S1154 S1151	Opn spn # + post lumb crd lesn Opn spn # + comp lumb crd lesn	1
S1153		1
S1155	Opn spn # + cent lumb crd lesn Opn spn # + cauda equina lesn	1
S1152	Opn spn # + ant lumbr crd lesn	1
S5P1z	Opn dvsn,thyroid regn lgmt NOS	1
S5P1	Opn dvsn,thyroid region Igmt	1
S5P12	Opn dvsn,thyroid cartilge lgmt	1
S5P30	Opn dvsn,sternoclavicular Igmt	1
S5N	Opn dvsn,lgmt other part back	1
S5P11	Opn dvsn,cricothyroid ligament	1
S5P10	Opn dvsn,cricoarytenoid lgmt	1
S5K1	Opn dvsn mdl collat Igmt knee	1
S5K0	Opn dvsn lat collat Igmt knee	1
S5F1	Opn dvsn coracoclavicular Igmt	1
S5F0	Opn dvsn acromioclavic lgmt	1
S5K2	Opn dvs post cruciate Igm knee	1
S5K3	Opn dvs ant cruciate Igmt knee	1
S4931	Opn dslc thoracic spine	1
S4975	Opn dslc laryngl cartilage	1
S1034	Opn # thorc vert-trnsvrse prcs	1
S1032	Opn # thorc vert-trisvise pics Opn # thorc vert-spondylolysis	1
	Opri # trioro vert-aportuyioryaia	ı

Read code	Description	Number of studies
S1033	Opn # thorc vert-spinous prcs	1
S1036	Opn # thor vert-tricolumnar	1
S1035	Opn # thor vert-posterior arch	1
S1055	Opn # lumb vert,posterior arch	1
S1054	Opn # lumb vert, trnsvrse prcs	1
S1056	Opn # lumb vert, tricolumnar	1
S1052	Opn # lumb vert, spondylolysis	1
S1053	Opn # lumb vert, spinous prcs	1
S101L	Opn # cerv vert, trnsvrse prcs	1
S101N	Opn # cerv vert, tricolumnar	1
S101J	Opn # cerv vert, spondylolysis	1
S101K	Opn # cerv vert, spinous prcs	1
S101M	Opn # cerv vert, post arch	1
S101D	Opn # axis, trnsvrse process	1
S1018	Opn # atlas-isol arch/art prcs	1
S89z	Open wounds NOS	1
S90	Open wound shoulder/upper limb	1
S9020	Open wound shoulder+tendon inv	1
S9010	Open wound shoulder+complicat.	1
S9021	Open wound scapular+tendon inv	1
S900	Open wound of shoulder/upper limb without	
	complication	1
S9000	Open wound of shoulder region	1
S87	Open wound of sacroiliac reg.	1
S84	Open wound of neck	1
SA100	Open wound of knee	1
S86	Open wound of back	1
SA110	Open wound knee+complication	1
S8z	Open wound head/neck/trunk NOS	1
S8	Open wound head/neck/trunk	1
S113z	Open thoracic #+cord lesn.NOS	1
S113	Open thoracic #+cord lesion	1
S49Dz	Open subluxation of spine NOS	1
S49B0	Open subluxation lumbar spine	1
S4998	Open subluxation C7/T1	1
S4997	Open subluxation C6/C7	1
S4996	Open subluxation C5/C6	1
S4995	Open subluxation C4/C5	1
S4994	Open subluxation C3/C4	1
S4993	Open subluxation C2/C3	1
S49D0	Open sublux spine, unspecified	1
S49D	Open sublux other vertebra	1
S4990	Open sublux cerv spine, unsp	1
S499	Open sublux cerv spine	1
S4992	Open sublux atlanto-axial jt	1
S49y	Open multiple/ill-def.disloc.	1
S2921	Open mult fract clav scap hum	1
S115	Open lumbar # + cord lesion	1
S2115	Open fracture scapula, spine	1
S2116	Open fracture scapula, neck	1
S2113	Open fracture scapula, glenoid	1
S2114	Open fracture scapula, blade	1
S321	Open fracture of the patella	1
	apan nastara ar tria pataria	'

Read code	Description	Number of studies
S105	Open fracture lumbar vertebra	1
S1260	Open fracture larynx	1
S2012	Open fracture clavicle, shaft	1
S101	Open fracture cervical spine	1
S1012	Open fracture axis	1
S1011	Open fracture atlas	1
S5N0	Open dvsn, neck ligament	1
S5Fz	Open dvsn shoulder Igmt NOS	1
S4911	Open dslc atlanto-occipital jt	1
S4912	Open dslc atlanto-axial jt	1
S5Nz	Open divisn, back ligament NOS	1
S5N1	Open division,thoracic Igmt	1
S5P	Open division, other ligament	1
S5Pz	Open division, other lig NOS	1
S5N2	Open division, lumbar ligament	1
S5F	Open division shoulder Igmt	1
S5Ky	Open division other knee Igmt	1
S5M5	Open division lumbosacral Igmt	1
S5K	Open division ligament knee	1
S5Kz	Open division knee Igmt NOS	1
S5M4	Open division iliolumbar Igmt	1
S4950	Open dislocation spine unspec.	1
S495z		1
S491	Open dislocation of pook	_
S4930	Open dislocation lumber spins	1
S466z	Open dislocation lumbar spine	1
S497z	Open dislocation NOS	1
S4918	Open dislocation NOS	1
S4917	Open dislocation C7/T1	1
S4916	Open dislocation C6/C7	1
S4915	Open dislocation C5/C6	1
S4914	Open dislocation C4/C5	1
S4913	Open dislocation C3/C4	1
S4913	Open dislocation C2/C3	1
S493z	Open disloc thoracic/lumbar	1
S4952	Open disloc.thorac./lumbar NOS	1
S491x	Open disloc.other vertebra	1
S491z	Open disloc.mult.cerv.vertebra	1
S4910	Open disloc.cervical vert.NOS	1
S111z	Open disloc.cerv.spine unspec.	1
	Open cervical#+cord lesion NOS	1
S111	Open cervical #+cord lesion	1
S1263 S1262	Open #trachea	1
	Open #thyroid cartilage	1
S11y	Open #spine+cord lesion unsp.	1
S2110	Open #scapula-unspecified	1
S211z	Open #scapula NOS	1
S126z	Open #larynx/trachea NOS	1
S1261	Open #hyoid bone	1
S2010	Open #clavicle unspecified	1
S201z	Open #clavicle NOS	1
S3z1	Open #bones unspecified	1
S4F7	Open #-sublux,patello-fem jt	1
S4J33	Open #-sublux st-clav jt,post	1

Read code	Description	Number of studies
S4J32	Open #-sublux st-clav jt,ant	1
S4A30	Open #-sublux shoulder joint	1
S4A3	Open #-sublux shoulder	1
S4F3	Open #-sublux knee joint	1
S4A31	Open #-sublux acrom-clav joint	1
S4F5	Open #-dslc,patello-fem jt	1
S4F1	Open #-dslc, knee joint	1
S4J13	Open #-dslc st-clav jt,post	1
S4J12	Open #-dslc st-clav jt,ant	1
S4A10	Open #-dslc shoulder joint	1
S4A1	Open #-dslc shoulder	1
S4A11	Open #-dslc acrom-clav joint	1
S1010	Open # unsp cerv vertebra	1
S103	Open # thoracic vertebra	1
S1031	Open # thorac vert, wedge	1
S1030	Open # thorac vert, burst	1
S1013	Open # third cerv vertebra	1
S10y	Open # spine, unspecif	1
S1016	Open # sixth cerv vertebra	1
S1017	Open # seventh cerv vert	1
S2112	Open # scapula, coracoid	1
S2111	Open # scapula, acromion	1
S211	Open # scapula	1
S3213	Open # patella, vertical	1
S3210	Open # patella, transverse	1
S3214	Open # patella, stellate	1
S3211	Open # patella, proximal pole	1
S3212	Open # patella, distal pole	1
S1051	Open # lumbar vert, wedge	1
S1050	Open # lumbar vert, burst	1
S126	Open # larynx and trachea	1
S1014	Open # fourth cerv vertebra	1
S1015	Open # fifth cerv vertebra	1
S2011	Open # clavicle, medial end	1
S2013	Open # clavicle, lateral end	1
S201	Open # clavicle	1
S101H	Open # cerv vert, wedge	1
S101G	Open # cerv vert, burst	1
S101z	Open # cerv spine NOS	1
S101F	Open # axis, tricolumnar	1
S101B	Open # axis, spondylolysis	1
S101C	Open # axis, spinous procss	1
S101E	Open # axis, posterior arch	1
S101A	Open # axis, odontoid prcss	1
S1019	Open # atlas, comminuted	1
S4113	Op tr ds shd jt,inf(infr-glen)	1
S4111	Op tr dis shld jt,ant(sub-cor)	1
S49Bz	Op sublx thrc+lmbr vertbra NOS	1
S49B2	Op spn sublx+thrc crd lsn,unsp	1
S49B6	Op spn sublx+post thrc crd Isn	1
S49BB	Op spn sublx+post Imbr crd Isn	1
S49B7	Op spn sublx+lmbr crd lsn,unsp	1
S49B3	Op spn sublx+comp thrc crd lsn	1

Read code	Description	Number of studies
S49B8	Op spn sublx+comp lmbr crd lsn	1
S499A	Op spn sublx+comp cerv crd lsn	1
S499C	Op spn sublx+cntrl crv crd lsn	1
S4999	Op spn sublx+cerv crd lsn,unsp	1
S49B5	Op spn sublx+cent thrc crd Isn	1
S49BA	Op spn sublx+cent lmbr crd lsn	1
S49BC	Op spn sublx+cauda equina lsn	1
S49B4	Op spn sublx+ant thrc crd Isn	1
S499D	Op spn sublux+post crv crd lsn	1
S49B9	Op spn sublux+ant lmbr crd lsn	1
S499B	Op spn sublux+ant cerv crd Isn	1
S4937	Op spn dsl+lmbr crd lsn unsp	1
S1134	Op spn #+pst thor crd lsn,T1-6	1
S1133	Op spn #+cnt thor crd lsn,T1-6	1
S1132	Op spn #+ant thor crd lsn,T1-6	1
S115z	Op spn # incmp lmb crd lsn NOS	1
S1130	Op sp #+unsp thor crd lsn,T1-6	1
S1136	Op sp #+unsp thor cd lsn,T7-12	1
S113A	Op sp #+pst thor crd lsn,T7-12	1
S1139	Op sp #+cnt thor crd lsn,T7-12	1
S1131	Op sp #+cmpl thor crd lsn,T1-6	1
S1137	Op sp #+cmp thor crd lsn,T7-12	1
S1138	Op sp #+ant thor crd lsn,T7-12	1
S1501	Op multi fractur of thor spine	1
SR161	Op fract/th wth lw bck+plv+lmb	1
SR101	Op fract invol head with neck	1
S113B	Op # T7-12incomp cord Isn NOS	1
S1135	Op # T1-6 incomp cord Isn NOS	1
S1116	Op # C5-7 unspec cord lesion	1
S111A	Op # C5-7 posterior cord lesn	1
S111B	Op # C5-7 incomp cord les NOS	1
S1117	Op # C5-7 compl cord lesion	1
S1119	Op # C5-7 central cord les	1
S1118	Op # C5-7 anterior cord les	1
S1110	Op # C1-C4 unspec cord les	1
S1114	Op # C1-4 post cord lesion	1
S1115	Op # C1-4 cord les. NOS	1
S1111	Op # C1-4 compl cord lesion	1
S1113	Op # C1-4 cent cord lesion	1
S1112	Op # C1-4 ant cord lesion	1
N1120	One lev th spondyl-no myelop	1
N11B0	One lev th spondyl + radiculop	1
N1130	One lev th spondyl + myelop	1
N1140	One lev lumbsac spond-no myelo	1
N1150	One lev lumbsac spond + myelop	1
N1100	One lev Cx spondyl-no myelop	1
N1190	One lev Cx spondyl + radiculop	1
N1110	One lev Cx spondyl + myelop	1
N0542	Oligoarticular osteoarthritis, unspecified, of upper	
N.0	arm	1
N0545	Oligoarticular osteoarthritis, unspecified, of the pelvic	
N0546	region and thigh	1
110040	Oligoarticular osteoarthritis, unspecified, of lower leg	1

Read code	Description	Number of studies
N0544	Oligoarticular osteoarthritis, unspecified, of hand	1
N0543	Oligoarticular osteoarthritis, unspecified, of forearm	1
N0547	Oligoarticular osteoarthritis, unspecified, of ankle and	
NOT 4	foot	1
N054	Oligoarticular OA unspecified	1
N0541	Oligoartic OA, unspec-shoulder	1
N0549	Oligoartic OA, unspec-multiple	1
N0540	Oligoartic OA, unsp-unsp sites	1
N0548	Oligoartic OA unspec-oth site	1
N2133	Olecranon bursitis	1
N0720	Old torn meniscus of knee	1
N070B	Old tear post horn med menis	1
N070A	Old tear of medial meniscus	1
N071C	Old tear of lateral meniscus	1
N07y9	Old post/lat caps complex tear	1
N07y3	Old post.cruciate lig.disrupt.	1
N07yF	Old part tear post cruciat lig	1
N07yA	Old part tear med collat lig	1
N07y7	Old part tear lat collat lig	1
N07yD	Old part tear ant cruciate lig	1
N07y1	Old med.collat.lig.disruption	1
N07yC	Old med capsular complex tear	1
N07y0	Old lat.collat.lig.disruption	1
N07yB	Old compl tear med collat lig	1
N07y8	Old compl tear lat collat lig	1
N07yG	Old comp tear post cruciat lig	1
N07yE	Old comp tear ant cruciate lig	1
N07y4	Old capsular knee lig.disrupt.	1
N0701	Old bucket handle tear-medial	1
N0711	Old bucket handle tear-lat men	1
N07y2	Old ant.cruciate lig.disrupt.	1
N067	Ochronotic arthropathy	1
N054z N05zP	OA,1 site +,unspecified NOS	1
N05zA	OA NOS-subtalar joint	1
N05ZA N05zB	OA NOS-sternoclavicular joint	1
N05zG	OA NOS-acromioclavicular join	1
N052G N05zH	OA NOS-PIP joint of finger	1
N05zH N05zS	OA NOS-DIP joint of finger	1
N3381	OA NOS-1st MTP joint	1
N226	Nonunion of fracture	1
	Nontraumatic tendon subluxatn	1
N23y2 N2260	Nontraumatic muscle rupture	1
N392	Nontraum.unspec.tendon rupture	1
N393	Nonallopathic lesion-thoracic	1
N391	Nonallopathic lesion-lumbar	1
N082Z	Nonallopathic lesion-cervical	1
N044	Non-trau subl acromical joint	1
N2372	Nodular fibrositis-chr. rheum.	1
16A1	Nodular fasciitis	1
16C1	No stiff neck	1
1229	No backache	1
N2471	No FH: Osteoporosis	1
INZ41 I	Night cramps	1

5	B	Number of
Read code	Description	studies
N11y2	Neuropathic spondylopathy	1
N2423	Neuropathic pain	1
N374B	Neuromuscular scoliosis	1
N3749	Neuromuscular lordosis	1
N3745	Neuromuscular kyphosis	1
N14A	Neurogenic claudication	1
N2421	Neuritis unspecified	1
N2420	Neuralgia unspecified	1
N242z	Neuralg./neurit./radiculit.NOS	1
N242	Neuralg./neurit./radicul.unsp.	1
SJ	Nerve/spinal cord injuries	1
EMISNQNE5	Nerve root pain present	1
SJz	Nerve and spinal cord injury NOS	1
S5700	Neck sprain unspecified	1
S570z	Neck sprain NOS	1
S570	Neck sprain	1
N12D	Narrowing disc space	1
N2332	Myositis in sarcoidosis	1
N2321	Myofibrosis	1
N241-97 EGTON307	Myalgia/myositis - shoulder	1
EMISNQMU15	Myalgia	1
EMISNQMU5	Musculoskeletal symptom	1
EMISNQMU2	Musculoskeletal pain severe	1
EMISNQMU4	Musculoskeletal pain present	1
N096-2	Musculoskeletal pain moderate	1
MAWBYMU1	Musculoskeletal pain - joints	1
N3	Musculoskeletal Symptoms  Musculosk.inflam/deform.+other	1
N232z		1
N232	Muscle wasting/atrophy NEC NOS  Muscle wasting and disuse atrophy NEC	1 1
N2322	Muscle wasting NEC	1
UNMAPM4AB	Muscle strain	1
N23yD	Muscle strain	1
N2410-2	Muscle pain	1
N231		1
S5yz1	Muscle injury / strain	1
N238	Muscle ossification Muscle injury / strain Muscle contracture Muscle calcif /ossificat NOS	1
N231z	Muscle calcif./ossificat.NOS	1
N230D	Muscle abscess-shoulder	1
N230B	Muscle abscess-neck	1
N230C	Muscle abscess-back	1
N230A	Muscle abscess	1
ASDFGMU2	Muscle Symptoms	1
EGTON110	Muscle Injury	1
M4A8	Muscle Injury	1
N2310	Musc.calcif./ossif.unspecified	1
N0719	Multiple tears-lat meniscus	1
N0708	Multiple tears of medial meniscus	1
S101x	Multiple open # cerv vert	1
SR1z	Multiple fractures unspecified	1
S100x	Multiple clsd # cerv vert	1
N099A	Multiple clicking joints	1
S3y	Multiple #legs/arms/ribs/stern	1

Read code	Description	Number of studies
S10A2	Multip fracture/cervical spin	1
N11C2	Multi lev lumbsac spond+radicu	1
S150	Multi fractures/thoracic spine	1
S3y1	Mult.open #legs/arms/ribs	1
S3y0	Mult.closed #legs/arms/ribs	1
N1122	Mult lev th spondyl-no myelop	1
N11B2	Mult lev th spondyl+radiculop	1
N1132	Mult lev th spondyl + myelop	1
N1142	Mult lev lumbsac spond-no myel	1
N1152	Mult lev lumbsac spond + myelo	1
N1102	Mult lev Cx spondyl-no myelop	1
N1192	Mult lev Cx spondyl+radiculop	1
N1112	Mult lev Cx spondyl + myelop	1
S10B6	Mult fractur/lumbar spine+pelv	1
S292	Mult fract/clav,scapula+humrus	1
1D17	Morning stiffness - joint	1
N3323	Monostotic fibrous dysplasia	1
N0433	Monarticular juvenile R.A.	1
EMISNQMI188	Mixed connective tissue disease	1
OX6954MC	Mixed Connective Tissue Disease /ox	1
N2224	Miners' knee	1
N2172	Metatarsalgia NOS	1
N063.11	Menopausal arthritis	1
N063	Menopausal arthritis	1
N072	Meniscus derangement NEC	1
N070	Medial meniscus derangement	1
N070z	Medial meniscus derange.NOS	1
N0703	Medial menisc.post.horn derang	1
N0700	Medial menisc.derang.unspecif	1
N0702	Medial menisc.ant.horn derang.	1
N2131	Medial epicondylitis - elbow	1
16CA	Mechanical low back pain	1
N3380	Malunion of fracture	1
N338	Malunion and nonunion of fracture	1
N11C	Lumbosacral spondylosis with radiculopathy	1
N115	Lumbosacral spond.+ myelopathy	1
SJ35	Lumbosacral plexus injury	1
N1441	Lumbosacral neuritis unspecif.	1
N1463	Lumbosacral instability	1
N1460	Lumbosacral ankylosis	1
N114-2	Lumbar spondylosis	1
N148C	Lumbar spine instability	1
N1486	Lumbar spine ankylosis	1
N1402	Lumbar spinal stenosis	1
N12A3	Lumbar postlaminectomy syndr.	1
SJ321	Lumbar nerve root injury - L2	1
N12zC	Lumbar discitis	1
N122	Lumbar disc displacement	1
N1293	Lumbar disc disord.+myelopathy	1
N127	Lumbar disc degeneration	1
S572	Lumbar back sprain	1
N1420	Lumbago with sciatica	1
N142-4	Lumbago	1

NATION   Lu spin stenos due to oth dis   1	Read code	Description	Number of studies
N12B2         Lu disc prolapse + myelopathy         1           N12C3         Lu disc prol-caud eq compress         1           N14C-1         Low Back Pain         1           N374W         Lordosis unspecified         1           N374B         Lordosis in skeletal dysplasia         1           N374B         Lordosis in hip disease         1           N3742         Lordosis or + other condition         1           N081B         Loose joint body (ex.knee)NOS         1           N081A         Loose joint body (ex.knee)NOS         1           N081A         Loose body, oth joint-shoulder         1           N081A         Loose body oft joint-shoulder         1           N0811         Loose body in shoulder joint         1           N0819         Loose body in joint-shoulder         1           N0810         Loose body in joint-shoulder         1           N0817         Loose body in joint-shoulder         1           N0810         Loose body in joint-shoulder         1           N0811         Loose body in joint-shoulder         1           N0817         Loose body in joint-shoulder         1           N0818         Loose body in joint-shoulder         1           N0819 </td <td>N140A</td> <td>Lu spin stenos due to oth dis</td> <td></td>	N140A	Lu spin stenos due to oth dis	
N12C3		Lu disc prolapse+radiculopathy	1
N42-1	N12B2	Lu disc prolapse + myelopathy	1
EGTON264	N12C3	Lu disc prol+caud eq compress	1
N374W	N142-1	Low back pain	1
N3747         Lordosis in skeletal dysplasia         1           N3748         Lordosis in hip disease         1           N3742         Lordosis + other condition         1           N0818         Loose joint body-multip joints         1           N0812         Loose body, or hip joint-shoulder         1           N0814         Loose body, or hip joint-shoulder         1           N0819         Loose body in shoulder joint         1           N0819         Loose body in shoulder joint         1           N0810         Loose body in joint-excl.knee         1           N0811         Loose body in joint point joint OS         1           N0810         Loose body in joint joint OS         1           N0811         Loose body in joint joint OS         1           N0810         Loose body in joint joint OS         1           N0811         Loose body in joint joint OS         1           N0810         Loose body in joint joint OS         1           N0811         Loose body in joint joint OS         1           N0810         Loose body in joint joint OS         1           N0811         Localised joint joint joint OS         1           N0812         Localised joint joint joint Joint Joint Joint Joint Joint	EGTON264	Low Back Pain	1
N3748         Lordosis in hip disease         1           N3742         Lordosis + other condition         1           N0818         Loose joint body multip joints         1           N0812         Loose joint body (ex.knee)NOS         1           N081A         Loose body, oth joint-shoulder         1           N0811         Loose body join shoulder         1           N0819         Loose body in shoulder joint         1           N073         Loose body in joint-excl.knee         1           N0810         Loose body in joint, joint OS         1           N0810         Loose body in joint         1           N077H         Locking knee         1           N0795         Locked knee         1           N0522         Localised, secondary osteoarthritis of the upper arm         1           N0525         Localised, secondary osteoarthritis of the pelvic         region and thigh         1           N0526         Localised, secondary osteoarthritis of the lower leg         1           N0527         Localised, secondary osteoarthritis of the hand         1           N0528         Localised, secondary osteoarthritis of the orearm         1           N0529         Localised, primary osteoarthritis of the orearm         1	N374W	Lordosis unspecified	1
N3742	N3747	Lordosis in skeletal dysplasia	1
N0818         Loose joint body-multip joints         1           N081z         Loose joint body (ex.knee)NOS         1           N081A         Loose body, oth joint-shoulder         1           N0811         Loose body in shoulder joint         1           N0819         Loose body in shoulder joint         1           N081         Loose body in joint-excl.knee         1           N0817         Loose body in joint, joint OS         1           N0810         Loose body in joint I         1           N0794         Loose body in joint         1           N0795         Locked knee         1           N0796         Locked knee         1           N0522         Localised, secondary osteoarthritis of the upper arm         1           N0525         Localised, secondary osteoarthritis of the lower leg         1           N0526         Localised, secondary osteoarthritis of the hand         1           N0527         Localised, secondary osteoarthritis of the hand         1           N0528         Localised, primary osteoarthritis of the parkle and foot         1           N051E         Localised, primary osteoarthritis of the upper arm         1           N0515         Localised, primary osteoarthritis of the pelvic region and thigh         1	N3748	Lordosis in hip disease	1
N081z         Loose joint body (ex.knee)NOS         1           N081A         Loose body, oth joint-shoulder         1           N0811         Loose body joint-shoulder         1           N0819         Loose body in shoulder joint         1           N073         Loose body in joint-excl.knee         1           N0817         Loose body in joint, joint OS         1           N0810         Loose body in joint         1           N07yH         Lockied knee         1           N07y5         Locked knee         1           N0522         Localised, secondary osteoarthritis of the upper arm         1           N0525         Localised, secondary osteoarthritis of the lower leg         1           N0526         Localised, secondary osteoarthritis of the lower leg         1           N0527         Localised, secondary osteoarthritis of the forearm         1           N0527         Localised, secondary osteoarthritis of the ankle and foot         1           N0512         Localised, primary osteoarthritis of the upper arm         1           N0515         Localised, primary osteoarthritis of the pelvic region and thigh         1           N0516         Localised, primary osteoarthritis of the pelvic region and thigh         1           N0517         Local	N3742	Lordosis + other condition	1
N081A         Loose body, oth joint-shoulder         1           N0811         Loose body joint-shoulder         1           N0819         Loose body in shoulder joint         1           N073         Loose body in knee         1           N081         Loose body in joint, joint OS         1           N0810         Loose body in joint (S)         1           N079H         Locking knee         1           N079C         Locking knee         1           N0522         Localised, secondary osteoarthritis of the upper arm         1           N0525         Localised, secondary osteoarthritis of the pelvic region and thigh         1           N0526         Localised, secondary osteoarthritis of the lower leg         1           N0527         Localised, secondary osteoarthritis of the hand         1           N0527         Localised, secondary osteoarthritis of the hand         1           N051E         Localised, primary osteoarthritis of the upper arm         1           N051E         Localised, primary osteoarthritis of the upper arm         1           N0515         Localised, primary osteoarthritis of the upper arm         1           N0516         Localised, primary osteoarthritis of the pelvic region and thigh         1           N0513         Loca	N0818	Loose joint body-multip joints	1
No811	N081z	Loose joint body (ex.knee)NOS	1
N0811         Loose body in shoulder joint         1           N0819         Loose body in shoulder joint         1           N073         Loose body in joint excl.knee         1           N081         Loose body in joint, joint OS         1           N0817         Loose body in joint         1           N0810         Loose body in joint         1           N079H         Locking knee         1           N0522         Localised, secondary osteoarthritis of the upper arm         1           N0525         Localised, secondary osteoarthritis of the pelvic region and thigh         1           N0526         Localised, secondary osteoarthritis of the lower leg         1           N0527         Localised, secondary osteoarthritis of the hand         1           N0523         Localised, secondary osteoarthritis of the forearm         1           N051E         Localised, primary osteoarthritis of the ankle and foot         1           N051E         Localised, primary osteoarthritis of the pelvic region and thigh         1           N0515         Localised, primary osteoarthritis of the pelvic region and thigh         1           N0516         Localised, primary osteoarthritis of the pelvic region and thigh         1           N0517         Localised, primary osteoarthritis of the forearm	N081A		1
N0819         Loose body in shoulder joint         1           N073         Loose body in knee         1           N0811         Loose body in joint-excl.knee         1           N0817         Loose body in joint (Joint OS)         1           N0810         Loose body in joint         1           N07yH         Locking knee         1           N07y5         Locked knee         1           N0522         Localised, secondary osteoarthritis of the upper arm         1           N0525         Localised, secondary osteoarthritis of the pelvic region and thigh         1           N0526         Localised, secondary osteoarthritis of the lower leg         1           N0527         Localised, secondary osteoarthritis of the lower leg         1           N0528         Localised, secondary osteoarthritis of the forearm         1           N0529         Localised, secondary osteoarthritis of the makle and foot         1           N051E         Localised, primary osteoarthritis of the upper arm         1           N0515         Localised, primary osteoarthritis of the pelvic region and thigh         1           N0516         Localised, primary osteoarthritis of the pelvic region and thigh         1           N0517         Localised, primary osteoarthritis of the forearm         1	N0811		1
NO73         Loose body in knee         1           N081         Loose body in joint-excl.knee         1           N0817         Loose body in joint, joint OS         1           N0810         Loose body in joint         1           N0774         Locking knee         1           N0775         Locked knee         1           N0522         Localised, secondary osteoarthritis of the upper arm         1           N0525         Localised, secondary osteoarthritis of the pelvic region and thigh         1           N0526         Localised, secondary osteoarthritis of the lower leg         1           N0527         Localised, secondary osteoarthritis of the forearm         1           N0528         Localised, secondary osteoarthritis of the ankle and foot         1           N0512         Localised, primary osteoarthritis of the upper arm         1           N0512         Localised, primary osteoarthritis of the upper arm         1           N0515         Localised, primary osteoarthritis of the upper arm         1           N0516         Localised, primary osteoarthritis of the pelvic region and thigh         1           N0517         Localised, primary osteoarthritis of the pelvic region and thigh         1           N0518         Localised, primary osteoarthritis of the forearm <td< td=""><td>N0819</td><td></td><td>1</td></td<>	N0819		1
N0817         Loose body in joint-excl.knee         1           N0817         Loose body in joint (joint OS)         1           N0810         Loose body in joint         1           N07yH         Locking knee         1           N07y5         Locked knee         1           N0522         Localised, secondary osteoarthritis of the upper arm         1           N0525         Localised, secondary osteoarthritis of the pelvic region and thigh         1           N0526         Localised, secondary osteoarthritis of the lower leg         1           N0527         Localised, secondary osteoarthritis of the hand         1           N0527         Localised, secondary osteoarthritis of the forearm         1           N051E         Localised, primary osteoarthritis of the ankle and foot         1           N0512         Localised, primary osteoarthritis of the upper arm         1           N0513         Localised, primary osteoarthritis of the pelvic region and thigh         1           N0517         Localised, primary osteoarthritis of the forearm         1           N0518         Localised, primary osteoarthritis of the ankle and foot         1           N0517         Localised, primary osteoarthritis of the oferarm         1           N0518         Localised of primary OA NOS         1 </td <td>N073</td> <td></td> <td>1</td>	N073		1
N0817         Loose body in joint, joint OS         1           N0810         Loose body in joint         1           N07yH         Locking knee         1           N07y5         Locked knee         1           N0522         Localised, secondary osteoarthritis of the upper arm         1           N0525         Localised, secondary osteoarthritis of the pelvic region and thigh         1           N0526         Localised, secondary osteoarthritis of the lower leg         1           N0524         Localised, secondary osteoarthritis of the forearm         1           N0523         Localised, secondary osteoarthritis of the forearm         1           N0516         Localised, primary osteoarthritis of the ankle and foot         1           N0517         Localised, primary osteoarthritis of the upper arm         1           N0513         Localised, primary osteoarthritis of the pelvic region and thigh         1           N0514         Localised, primary osteoarthritis of the forearm         1           N0515         Localised, primary osteoarthritis of the pelvic region and thigh         1           N0516         Localised, primary osteoarthritis of the orearm         1           N0517         Localised, primary osteoarthritis of the orearm         1           N0516         Localised orimary or	N081		1
N0810         Loose body in joint         1           N07yH         Locking knee         1           N07y5         Locked knee         1           N0522         Localised, secondary osteoarthritis of the upper arm         1           N0525         Localised, secondary osteoarthritis of the pelvic region and thigh         1           N0526         Localised, secondary osteoarthritis of the lower leg         1           N0524         Localised, secondary osteoarthritis of the hand         1           N0523         Localised, secondary osteoarthritis of the forearm         1           N051E         Localised, primary osteoarthritis of the ankle and foot         1           N051E         Localised, primary osteoarthritis of the upper arm         1           N0512         Localised, primary osteoarthritis of the pelvic region and thigh         1           N0513         Localised, primary osteoarthritis of the forearm         1           N0517         Localised, primary osteoarthritis of the ankle and foot         1           N051F         Localised, primary osteoarthritis of the ankle and foot         1           N051E         Localised primary OA NOS         1           N051C         Localised osteoarthritis, unspecified, of the upper arm         1           N051F         Localised osteoarthri	N0817		1
N07yH         Locking knee         1           N07y5         Locked knee         1           N0522         Localised, secondary osteoarthritis of the upper arm         1           N0525         Localised, secondary osteoarthritis of the pelvic region and thigh         1           N0526         Localised, secondary osteoarthritis of the lower leg         1           N0527         Localised, secondary osteoarthritis of the hand         1           N0527         Localised, secondary osteoarthritis of the forearm         1           N0512         Localised, primary osteoarthritis of the ankle and foot         1           N0512         Localised, primary osteoarthritis of the upper arm         1           N0515         Localised, primary osteoarthritis of the pelvic region and thigh         1           N0515         Localised, primary osteoarthritis of the forearm         1           N0517         Localised, primary osteoarthritis of the forearm         1           N0517         Localised, primary osteoarthritis of the ankle and foot         1           N0517         Localised, primary osteoarthritis of the parkle and foot         1           N0522         Localised osteoarthritis, unspecified, of the upper arm         1           N0532         Localised OA unspecified NOS         1           N0532	N0810		1
N07y5         Locked knee         1           N05222         Localised, secondary osteoarthritis of the upper arm         1           N0525         Localised, secondary osteoarthritis of the pelvic region and thigh         1           N0526         Localised, secondary osteoarthritis of the lower leg         1           N0524         Localised, secondary osteoarthritis of the hand         1           N0523         Localised, secondary osteoarthritis of the forearm         1           N0517         Localised, primary osteoarthritis of the ankle and foot         1           N0518         Localised, primary osteoarthritis of the upper arm         1           N0519         Localised, primary osteoarthritis of the pelvic region and thigh         1           N0511         Localised, primary osteoarthritis of the pelvic region and thigh         1           N0513         Localised, primary osteoarthritis of the forearm         1           N0517         Localised, primary osteoarthritis of the ankle and foot         1           N0518         Localised, primary osteoarthritis of elbow         1           N0512         Localised primary osteoarthritis of elbow         1           N0522         Localised osteoarthritis, unspecified, of the upper arm         1           N0533         Localised osteoarthritis, unspecified, of the ankle and foot </td <td>N07yH</td> <td></td> <td>1</td>	N07yH		1
N0522         Localised, secondary osteoarthritis of the upper arm         1           N0525         Localised, secondary osteoarthritis of the pelvic         1           region and thigh         1           N0526         Localised, secondary osteoarthritis of the lower leg         1           N0524         Localised, secondary osteoarthritis of the hand         1           N0523         Localised, secondary osteoarthritis of the forearm         1           N05127         Localised, primary osteoarthritis of the ankle and foot         1           N0515         Localised, primary osteoarthritis of the upper arm         1           N0512         Localised, primary osteoarthritis of the pelvic region and thigh         1           N0513         Localised, primary osteoarthritis of the forearm         1           N0517         Localised, primary osteoarthritis of the ankle and foot         1           N0518         Localised, primary osteoarthritis of elbow         1           N0519         Localised primary Ostooarthritis of elbow         1           N0512         Localised primary Ostooarthritis, unspecified, of the upper arm         1           N0512         Localised Osteoarthritis, unspecified, of the upper arm         1           N0532         Localised Osteoarthritis, unspecified, of the ankle and foot         1	•		1
N0525         Localised, secondary osteoarthritis of the pelvic region and thigh         1           N0526         Localised, secondary osteoarthritis of the lower leg         1           N0524         Localised, secondary osteoarthritis of the hand         1           N0523         Localised, secondary osteoarthritis of the forearm         1           N0527         Localised, secondary osteoarthritis of the forearm         1           N0512         Localised, primary osteoarthritis of toe         1           N0512         Localised, primary osteoarthritis of the upper arm         1           N0515         Localised, primary osteoarthritis of the pelvic region and thigh         1           N0513         Localised, primary osteoarthritis of the forearm         1           N0517         Localised, primary osteoarthritis of the ankle and foot         1           N0517         Localised, primary osteoarthritis of elbow         1           N0518         Localised primary OA NOS         1           N0517         Localised primary OA NOS         1           N0512         Localised primary OA NOS         1           N0532         Localised osteoarthritis, unspecified, of the upper arm         1           N0537         Localised OA unspecified NOS         1           N053         Localsed OA unspec	•		1
Region and thigh	N0525		
N0524         Localised, secondary osteoarthritis of the hand         1           N0523         Localised, secondary osteoarthritis of the forearm         1           N0527         Localised, secondary osteoarthritis of the ankle and foot         1           N051E         Localised, primary osteoarthritis of toe         1           N0512         Localised, primary osteoarthritis of the upper arm         1           N0515         Localised, primary osteoarthritis of the pelvic region and thigh         1           N0513         Localised, primary osteoarthritis of the forearm         1           N0513         Localised, primary osteoarthritis of the ankle and foot         1           N0517         Localised, primary osteoarthritis of elbow         1           N0518         Localised, primary osteoarthritis of elbow         1           N0519         Localised primary osteoarthritis of elbow         1           N0510         Localised secondary OA NOS         1           N0512         Localised osteoarthritis, unspecified, of the upper arm         1           N0532         Localised OA unspecified NOS         1           N0533         Localised OA unspecified NOS         1           N0520         Local.secondary OA-site unsp.         1           N0521         Local.secondary OA-shoulder			1
N0523         Localised, secondary osteoarthritis of the forearm         1           N0527         Localised, secondary osteoarthritis of the ankle and foot         1           N051E         Localised, primary osteoarthritis of toe         1           N0512         Localised, primary osteoarthritis of the upper arm         1           N0515         Localised, primary osteoarthritis of the pelvic region and thigh         1           N0513         Localised, primary osteoarthritis of the forearm         1           N0517         Localised, primary osteoarthritis of the ankle and foot         1           N0517         Localised, primary osteoarthritis of elbow         1           N0518         Localised, primary osteoarthritis of elbow         1           N0519         Localised secondary OA NOS         1           N0512         Localised secondary OA NOS         1           N0532         Localised osteoarthritis, unspecified, of the upper arm         1           N0537         Localised OA unspecified NOS         1           N0532         Localised OA unspecified NOS         1           N0533         Localised OA unspecified NOS         1           N0520         Local.secondary OA-site unsp.         1           N0521         Local.secondary OA-site unsp.         1	N0526	Localised, secondary osteoarthritis of the lower leg	1
No527	N0524	Localised, secondary osteoarthritis of the hand	1
N051E         Localised, primary osteoarthritis of toe         1           N0512         Localised, primary osteoarthritis of the upper arm         1           N0515         Localised, primary osteoarthritis of the pelvic region and thigh         1           N0513         Localised, primary osteoarthritis of the forearm         1           N0517         Localised, primary osteoarthritis of the ankle and foot         1           N051F         Localised, primary osteoarthritis of elbow         1           N051z         Localised primary OA NOS         1           N051z         Localised primary OA NOS         1           N0532         Localised osteoarthritis, unspecified, of the upper arm         1           N0537         Localised OA unspecified NOS         1           N0532         Localised OA unspecified NOS         1           N0533         Localised OA unspecified NOS         1           N0530         Localised OA unspecified         1           N0521         Local.secondary osteoarthritis         1           N0522         Local.secondary OA-site unsp.         1           N0523         Local.secondary OA-shoulder         1           N0524         Local.secondary OA-shoulder         1           N0525         Local.primary ox-steoarthritis <td>N0523</td> <td>Localised, secondary osteoarthritis of the forearm</td> <td>1</td>	N0523	Localised, secondary osteoarthritis of the forearm	1
N051E Localised, primary osteoarthritis of toe 1 N0512 Localised, primary osteoarthritis of the upper arm 1 N0515 Localised, primary osteoarthritis of the pelvic region and thigh 1 N0513 Localised, primary osteoarthritis of the forearm 1 N0517 Localised, primary osteoarthritis of the ankle and foot 1 N051F Localised, primary osteoarthritis of the ankle and foot 1 N051F Localised, primary osteoarthritis of elbow 1 N052z Localised secondary OA NOS 1 N051z Localised primary OA NOS 1 N0532 Localised osteoarthritis, unspecified, of the upper arm 1 N0537 Localised osteoarthritis, unspecified, of the ankle and foot 1 N0532 Localised OA unspecified NOS 1 N053 Localised OA unspecified NOS 1 N052 Localised OA unspecified NOS 1 N0520 Localised OA unspecified NOS 1 N0521 Localisecondary OA-shoulder 1 N0528 Localisecondary OA-shoulder 1 N0528 Localisecondary OA-other spec. 1 N0510 Local.primary osteoarthritis 1 N0510 Local.primary OA-other spec. 1 N0511 Local.primary OA-other specif 1 N0518 Local.primary OA-other specif 1 N0518 Local.primary OA-other specif 1 N0518 Local.primary OA-other specif 1	N0527		1
N0512         Localised, primary osteoarthritis of the upper arm         1           N0515         Localised, primary osteoarthritis of the pelvic region and thigh         1           N0513         Localised, primary osteoarthritis of the forearm         1           N0517         Localised, primary osteoarthritis of the ankle and foot         1           N051F         Localised, primary osteoarthritis of elbow         1           N052z         Localised secondary OA NOS         1           N051z         Localised primary OA NOS         1           N0532         Localised osteoarthritis, unspecified, of the upper arm         1           N0537         Localised osteoarthritis, unspecified, of the ankle and foot         1           N053z         Localised OA unspecified NOS         1           N053         Localised OA unspecified NOS         1           N053         Localised OA unspecified         1           N052         Local.secondary osteoarthritis         1           N0520         Local.secondary OA-shoulder         1           N0521         Local.secondary OA-shoulder         1           N0528         Local.secondary OA-other spec.         1           N0510         Local.primary OA-site unspec.         1           N0511         Local.primary	N051E		
N0515 Localised, primary osteoarthritis of the pelvic region and thigh 1 N0513 Localised, primary osteoarthritis of the forearm 1 N0517 Localised, primary osteoarthritis of the ankle and foot 1 N051F Localised, primary osteoarthritis of the ankle and foot 1 N051F Localised, primary osteoarthritis of elbow 1 N052z Localised secondary OA NOS 1 N051z Localised primary OA NOS 1 N0532 Localised osteoarthritis, unspecified, of the upper arm 1 N0537 Localised osteoarthritis, unspecified, of the ankle and foot 1 N053z Localised OA unspecified NOS 1 N053 Localised OA unspecified NOS 1 N052 Local.secondary osteoarthritis 1 N0520 Local.secondary osteoarthritis 1 N0520 Local.secondary OA-site unsp. 1 N0521 Local.secondary OA-shoulder 1 N0528 Local.secondary OA-other spec. 1 N0510 Local.primary osteoarthritis 1 N0510 Local.primary oA-site unspec. 1 N0511 Local.primary OA-shoulder regn 1 N0518 Local.primary OA-shoulder regn 1 N0518 Local.primary OA-other specif 1 N0518 Local.primary OA-other specif 1			
and thigh  N0513 Localised, primary osteoarthritis of the forearm  1 N0517 Localised, primary osteoarthritis of the ankle and foot 1 N051F Localised, primary osteoarthritis of elbow 1 N052z Localised secondary OA NOS 1 N051z Localised primary OA NOS 1 N0532 Localised osteoarthritis, unspecified, of the upper arm 1 Localised osteoarthritis, unspecified, of the ankle and foot 1 N0537 Localised OA unspecified NOS 1 N0532 Localised OA unspecified NOS 1 N0533 Localised OA unspecified 1 N052 Localised OA unspecified 1 N052 Localised OA unspecified 1 N052 Localised OA unspecified 1 N0520 Local secondary osteoarthritis 1 N0520 Local secondary OA-site unsp. 1 N0521 Local secondary OA-shoulder 1 N0528 Local secondary OA-shoulder 1 N0510 Local primary osteoarthritis 1 N0510 Local primary OA-shoulder regn 1 N0511 Local primary OA-shoulder regn 1 N0518 Local primary OA-other specif 1 Local primary OA-other specif	N0515		·
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NU514 Local.primary OA-hand 1		· · · · · · · · · · · · · · · · · · ·	
	14 CUVI	Local.primary OA-hand	1

Read code	Description	Number of studies
N0530	Local.OA unspsite unspecif.	1
10531	Local.OA unspshoulder region	1
N0538	Local.OA unspother specified	1
10534	Local.OA unsphand	1
0533	Local.OA unspforearm	1
N051D	Local prim osteoarth wrist	1
N3308	Local osteoporosis - Lequesne	1
S5z	Ligament sprain NOS	1
N0001	Libman-Sacks disease	1
N245-6	Leg pain	1
N234	Laxity of ligament	1
SJ43	Latrl cutaneous branch T12 inj	1
N071	Lateral meniscus derangement	1
N0714	Lateral meniscus derangem.NOS	1
N0713	Lateral menisc.post.horn deran	1
N0710	Lateral menisc.derang.unspecif	1
N0712	Lateral menisc.ant.horn derang	1
N2132	Lateral epicondylitis of the elbow	1
MHTBALA9	Lateral Patella Release	1
SC08	Late effect-tendon injury	1
SC05	Late effect-mult./other #bones	1
SC06	Late effect-dislocation	1
C01	Late effect-#spine-no cord les	1
SC011	Late effect # thoracic vert	1
SC012	Late effect # lumbar vertebra	1
SC010	Late effect # cervic vertebra	1
EGTON119	Laceration Nos	1
13744	Kyphosis in skeletal dysplasia	1
l3713	Kyphosis due to oth treatment	1
l3741	Kyphosis + other condition	1
√373z	Kyphoscoliosis or scoliosis NOS	1
N373	Kyphoscoliosis and scoliosis	1
N3241	Kohler's dis.(prim.patell.ctr)	1
N0956	Knee stiff	1
S54y	Knee sprain NOS	1
S54	Knee sprain NOS Knee sprain Knee pyogenic arthritis	1
N0106	Knee pyogenic arthritis	1
N0826	Knee pathological dislocation	1
1M10	Knee pain	1
N05z6	Knee osteoarthritis NOS	1
N05z6-1	Knee osteoarthritis NOS	1
N0946-1	Knee joint pain	1
N0946	Knee joint pain	1
N0846	Knee joint contracture	1
N0856	Knee joint ankylosis	1
N0966	Knee gives way	1
N216z	Knee enthesopathy NOS	1
N06z6-1	Knee arthritis NOS	1
N06z6	Knee arthritis NOS	1
ASDFGKN2	Knee Pain?	1
ASDFGKN6	Knee Pain Does Not Affect Sleep	1
ASDFGKN4	Knee Pain Affects Sleep?	1

Read code	Description	Number of studies
ASDFGKN3	Knee Pain	1
MUNNUKN1	Knee Pain	1
MAWBYKN1	Knee Pain	1
N0836	Knee - recurrent dislocation	1
N13y1	Klippel's disease	1
N116	Kissing spine	1
N002	Keratoconjunctivitis sicca	1
N0600	Kaschin-Beck dissite unspec.	1
N0601	Kaschin-Beck disshoulder	1
N0608	Kaschin-Beck disother specif	1
N0609	Kaschin-Beck dismultipl.site	1
N060z	Kaschin-Beck disNOS	1
N060	Kaschin - Beck disease	1
N320z	Juvenile spine osteochondr.NOS	1
N3200	Juvenile spine osteochond.unsp	1
N0455	Juvenile rheumatoid arthritis	1
N0430	Juvenile rheumatoid arthr.unsp	1
N043z	Juvenile rheumatoid arthr.NOS	1
N3263	Juvenile osteochondrosis NOS	1
N326z	Juvenile osteochondroses NOS	1
N3262	Juvenile osteochondritis NOS	1
N3261	Juvenile epiphysitis NOS	1
N0030	Juvenile dermatomyositis	1
N3260	Juvenile apophysitis NOS	1
N043	Juvenile R.A Still's disease	1
OX7120DA	Juvenile Arthritis /ox	1
N3243	Juv.osteoch.secondary.pat.ctre	1
N0451	Juv seronegative polyarthritis	1
N328	Juv osteochondrosis of spine	1
N0452	Juv arthritis in psoriasis	1
N0453	Juv arthritis in Crohn's dis	1
N0454	Juv arth in ulcerative colitis	1
N0900	Joint effusion-site unspecif.	1
N0901	Joint effusion-shoulder region	1
N0908	Joint effusion-other specif.	1
N09z1	Joint disord.NOS-shoulder	1
N08z	Joint derangement NOS	1
N08zz	Joint derangement NOS	1
N08z0	Joint derange.NOS-site unspec.	1
N08z1	Joint derange.NOS-shoulder	1
N08z7	Joint derange.NOS-other spec.	1
N08z8	Joint derange.NOS-multipl.site	1
N05z.11	Joint degeneration	1
N05z	Joint degeneration	1
N0840	Joint contracture-site unspec	1
N0841	Joint contracture-shoulder	1
N0848	Joint contracture-other specif	1
N0850	Joint ankylosis-site unspecif.	1
N0851	Joint ankylosis-shoulder	1
N0858	Joint ankylosis-other specif.	1
ASDFGJO2	Joint Symptoms	1
ASDFGJO3	Joint Pain	1
N3841	Isthmic spondylolisthesis	1

Read code	Description	Number of studies
S531	Ischiocapsular sprain	1
N23yB	Ischaemic infarction of muscle	1
N123-1	Intervertebral disc prol. NOS	1
N12z	Intervertebral disc lesion NOS	1
OX7259AP	Intervertebral Disc Prolapsed /ox	1
N3y05	Intervert disc sten neur canal	1
N23y0	Interstitial myositis	1
N07z	Internal knee derangement NOS	1
N07	Internal derangement of knee	1
N1350	Intermittent torticollis	1
N090W	Intermittent hydrarthrosis	1
N084E	Int rotat contracture-shoulder	1
N08y	Instability of joint	1
SJ7z	Injury to other nerve NOS	1
SKz	Injury NOS	1
OX9967C	Injury Knee /ox	1
SJ9	Injur/nerv+spinl crd/thorx lev	1
SJB	Inj/nerves/should+upp arm levl	1
S46C	Inj/multipl structures of knee	1
S5Q6	Inj tendon rotator cuff should	1
N2166	Infrapatellar bursitis	1
N10	Inflammatory spondylopathies	1
N04	Inflammatory polyarthropathy	1
N04*	Inflammatory arthropathy	1
N10y0	Inflamm.spondylop.in dis. EC	1
N04z	Inflamm.polyarthropathy NOS	1
S4103	Inferior dislocation shoulder	1
N2302	Infective myositis-shoulder	1
N2300	Infective myositis-neck	1
N2301	Infective myositis-back	1
N01z	Infective arthritis NOS	1
N01zz	Infective arthritis NOS	1
N302B	Infection of thoracic spine	1
N302G	Infection of scapula	1
N302R	Infaction of natella	1
N302Z	Infection of patena Infection of multiple bones Infection of lumbar spine	1
N302C	Infection of lumbar spine	1
N302F	Infection of clavicle	1
N302A	Infection of cervical spine	1
N01z0	Infect.arthr.NOS-site unspecif	1
N01z1	Infect.arthr.NOS-shoulder reg	1
N01zy	Infect.arthr.NOS-other specifi	1
N01zx	Infect.arthr.NOS-multiple site	1
N12zG	Infect intervert disc - pyogen	1
N01z8	Infec arthritis NOS-shoulder	1
N01zK	Infec arthritis NOS-knee	1
N01z9	Infec arthr NOS-sternoclav jt	1
N01zA	Infec arth NOS-acromioclav jt	1
N23y5	Inappropriate firing of muscle	1
N2124	Impingement syndr of shoulder	1
N2331	Immobility syndrome	1
N2159	Iliotibial band syndrome	1
N1403	Idiopathic th spinal stenosis	1
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Read code	Description	Number of studies
N3730	Idiopathic scoliosis	1
N3303	Idiopathic osteoporosis	1
N1407	Idiopathic lu spinal stenosis	1
N3731	Idiopathic kyphoscoliosis	1
N33z7	Idiopathic hypertrophy of bone	1
N1300	Idiopathic Cx spinal stenosis	1
N3316	ldiopath osteopor + path fract	1
N3348	Idiopath asep necrosis of bone	1
N1405	latrogenic th spinal stenosis	1
N1409	latrogenic lu spinal stenosis	1
N1302	latrogenic Cx spinal stenosis	1
C04*	Hypothyroidism	1
N2431	Hypertrophy of knee fat pad	1
N33z4	Hypertrophy of bone	1
N3382	Hypertrophic non-union of #	1
N312	Hypertroph.pulm.osteoarthrop.	1
N02y8	Hydroxyapatite deposition dis	1
N2225	Housemaids knee	1
N0707	Horiz cleavage tear-med menisc	1
N0718	Horiz cleavage tear-lat menisc	1
N094K-2	Hip pain	1
N05z5	Hip osteoarthritis NOS	1
N05z5-1	Hip osteoarthritis NOS	1
N0535	Hip osteoarthitis NOS	1
N0535-2	Hip osteoarthitis NOS	1
N06z5	Hip arthritis NOS	1
N0809	Hill-Sachs lesion	1
N245-5	Heel pain	1
N0507	Heberden's nodes with arthropathy	1
N245-4	Hand pain	1
N2450	Hand pain	1
N0944-1	Hand joint pain	1
N06z4-1	Hand arthritis NOS	1
N068	Haemophilic arthropathy	1
N091B	Haemarthrosis-sternoclav joint	1
N0910	Haemarthrosis-site unspecified	1
N0911	Haemarthrosis-shoulder	1
N0918	Haemarthrosis-other specified	1
N0919	Haemarthrosis-multiple joints	1
N091C	Haemarthrosis-acromioclav jt	1
N0916	Haemarthrosis of the knee	1
N091A	Haemarthrosis of shoulder	1
N091M	Haemarthrosis of knee	1
N091z	Haemarthrosis NOS	1
N091	Haemarthrosis	1
N083M	Habitual sublux shoulder	1
N083L	Habitual disloc shoulder	1
N083r	Habitual disloc - patella	1
14G8	H/O: vertebral fracture	1
14G1	H/O: rheumatoid arthritis	1
14G2	H/O: osteoarthritis	1
14GZ	H/O: musculo-skeletal dis. NOS	1
14G3	H/O: knee problem	1

Read code	Description	Number of studies
14J	H/O: injury	1
14G4	H/O: back problem	1
14T5	H/O: artificial joint	1
14V5	H/O: arthrodesis	1
14G	H/O: arthritis	1
14N30	H/O Spinal surgery	1
16Z2	Growing pains	1
S3z00	Greenstick fracture	1
N0230	Gouty arthritis-site unspecif.	1
N0231	Gouty arthritis-shoulder	1
N023y	Gouty arthritis-other specif.	1
N023x	Gouty arthritis-multiple sites	1
N023z	Gouty arthritis NOS	1
N023	Gouty arthritis	1
N2131-1	Golfer's elbow	1
N200	Gnt cell arter+polymyalg rheum	1
EGTON444	Gluteal Muscle Injury	1
N0873	Glenoid labrum tear	1
N0872	Glenoid labrum detachment	1
N365	Genu recurvatum - acquired	1
N050z	Generalised osteoarthritis NOS	1
N050z00	Generalised osteoarthritis NOS	1
N050	Generalised osteoarthritis - OA	1
N050.0	Generalised osteoarthritis - OA	1
N065A	Generalised arthritis	1
N065A00	Generalised arthritis	1
N05000	Generalised OA-site unspecif.	1
N0500	Generalised OA-site unspecif.	1
N050200	Generalised OA-multiple sites	1
N0502	Generalised OA-multiple sites	1
N0501	Generalised OA-hand	1
N224z	Ganglion/synovial cyst NOS	1
N224	Ganglion/synov.cyst - knee	1
N224-92	Ganglion/synov.cyst - knee	1
N2243	Ganglion unenecified	1
N2245	Ganglion of wrist Ganglion of tendon sheath	1
N2242	Ganglion of tendon sheath	1
N2246	Ganglion of knee	1
N2241	Ganglion of joint	1
N224C	Ganglion of foot	1
EMISR4QFU2	Fusion Of Lumbar Spine	1
EMISR4QFU1	Fusion Of Cervical Spine	1
N2115	Full thickn rotator cuff tear	1
N210-2	Frozen shoulder	1
N331N	Fragility fracture	1
N331M	Fragility # unsp osteoporosis	1
S10B	Fracture/lumbar spine+pelvis	1
S10A1	Fracture/2nd cervical vertebra	1
S10A0	Fracture/1st cervical vertebra	1
S15	Fracture of thoracic vertebra	1
S1z	Fracture of neck and trunk NOS	1
S1	Fracture of neck and trunk	1
S10A	Fracture of neck	1
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Read code	Description	Number of studies
S10B0	Fracture of lumbar vertebra	1
N338z	Fracture malunion or nonunion NOS	1
SR1	Fracture involv multi body reg	1
SR10	Fracture involv head with neck	1
S4	Fracture dislocation/subluxat	1
OX8056	Fracture Spine /ox	1
S3z	Fracture NOS	1
OXL8056LV	Fracture Lumbar Vertebra /ox	1
SR16	Fract/thorx wth lw bck+plv+lmb	1
N3317	Fract of bone in neoplast dis	1
N2451	Foot pain	1
N245-3	Foot pain	1
1M11	Foot pain	1
N220B	Flexor tenosynovitis of finger	1
N3660	Flexion deformity of knee	1
N369	Flexion deformity	1
N084A	Flexion contracture-shoulder	1
N084a	Flexion contracture-knee	1
N374E	Flatback syndrome	1
N040T	Flare of rheumatoid arthritis	1
N08yA	Flail joint	1
N09C	Fistula of joint	1
N2450-2	Finger pain	1
N05z4-1	Finger osteoarthritis NOS	1
N2163	Fibular collat.lig.bursitis	1
N3324	Fibrous cortical defect	1
N2405	Fibrositis of neck	1
N00y1	Fibrosclerosis systemic	1
N087	Fibrocartilage lesion of joint	1
MHTBAFH1	Fh: Osteoporosis	1
N041	Felty's syndrome	1
N1y1	Fatigue fracture of vertebra	1
N244	Fasciitis unspecified	1
N024	Familial chondrocalcinosis	1
N14y		1
1211	FH: Rheumatoid arthritis	1
1268	Facet joint syndrome FH: Rheumatoid arthritis FH: Osteoporosis FH: Osteoporthritis	1
1212	FH: Osteoarthritis	1
12IZ	FH: Musculo-skeletal dis. NOS	1
12I	FH: Arthritis	1
N220D	Extensor tenosynovitis of wrist	1
N220F	Extensor tenosynovitis of thumb	1
N220E	Extensor tenosynovitis of finger	1
N084B	Extension contracture-shoulder	1
N084F	Ext rotat contracture-shoulder	1
N21z7	Exostosis	1
16C8	Exacerbation of backache	1
N0506	Erosive osteoarthrosis	1
N32z1	Epiphysitis NOS	1
N33z1	Epiphyseal arrest	1
N00y0	Eosinophilic fasciitis	1
N216	Enthesopathy of knee	1
N21z	Enthesopathy NOS	1
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Read code	Description	Number of studies
N11y1	Enterobacterial spondylitis	1
1M00-1	Elbow pain	1
1M00	Elbow pain	1
N05z2	Elbow osteoarthritis NOS	1
N06z2	Elbow arthritis NOS	1
N090B	Effusion of sternoclav joint	1
N090A	Effusion of shoulder	1
N0909	Effusion of multiple joints	1
N090M	Effusion of knee	1
N090z	Effusion of joint NOS	1
N090	Effusion of joint	1
N090C	Effusion of acromioclav joint	1
N0906	Effusion - knee joint	1
N0906-99	Effusion - knee joint	1
N3840	Dysplastic spondylolisthesis	1
N2361	Dupuyt dis-palm + nod no cont	1
N3305	Drug-induced osteoporosis	1
N0002	Drug-induced osteopolosis  Drug-ind systemic lupus eryth	1
N3315	Drug-ind systemic lapus erytii  Drug-ind osteopor + path fract	1
N235		
N1123	Double-jointed (hypermobility)	1
N3370	Dorsal spondylo w/o myelopath	
N3304	Disuse atrophy of bone	1
N0000	Dissuse osteoporosis	1
N09AX	Disseminated lupus erythemat.	1
N33zG	Disorder of patella unspecified	1
N33zF	Disorder of cartilage, unspec	1
S46	Disorder of bone unspecified	1
S4z	Dislocation or subluxation of knee	1
S41z	Dislocation or subluxation NOS	1
S46z	Dislocation of shoulder NOS	1
S402 S41	Dislocation of knee NOS	1
S463-99	Dislocated shoulder	1
SR20	Dislocated patella	1
SR20 SR2	Disloc,sprns+strns inv hd+neck	1
N071B	Dislc,sprns+strns/mult bdy reg	1
	Discoid lateral meniscus	1
N123	Disc unsp.displno myelopathy	1
N12B	Disc prolapse with myelopathy	1
N12C	Disc prolapse + radiculopathy	1
N12zz	Disc disorders NOS	1
N129z	Disc disorder+myelopathy NOS	1
N00	Diffuse connective tissue dis.	1
N097z	Difficulty in walking NOS	1
N097	Difficulty in walking	1
N23yA	Diastasis of muscle	1
N33z3	Diaphysitis	1
N0300	Diabetic cheiroarthropathy	1
N0301	Diabetic Charcot arthropathy	1
N003X	Dermatopolymyositis, unspec	1
N0031	Dermatopolymyosit,neoplast dis	1
N003	Dermatomyositis	1
SC0z	Delayed union of fracture	1
N3386	Delayed union of fracture	1

Read code	Description	Number of studies
S9030	Degloving injury,shoulder area	1
SA130	Degloving injury knee	1
N3842	Degenerative spondylolisthesis	1
N128	Degenerative disc disease NOS	1
N1404	Degenerativ th spinal stenosis	1
N1408	Degenerativ lu spinal stenosis	1
N1301	Degenerativ Cx spinal stenosis	1
N114	Degeneration of lumbar spine	1
N114-1	Degeneration of lumbar spine	1
N0721	Degen lesion artic cart knee	1
N36y4	Deformity of scapula	1
N36yD	Deformity of patella	1
N36y3	Deformity of clavicle	1
N36y2	Deformity of bone	1
N224D	Cyst of tendon sheath	1
N0722	Cyst of semilunar cartilage	1
N0709	Cyst of medial meniscus	1
N071A	Cyst of lateral meniscus	1
N2244	Cyst of bursa	1
N332z	Cyst of bone NOS	1
N332	Cyst of bone	1
N11A	Cx spondyl + vasc compression	1
N1303	Cx spin stenos due to oth dis	1
N12C0	Cx disc prolapse+radiculopathy	1
N12B0	Cx disc prolapse + myelopathy	1
N3740	Curvature of spine unspecified	1
N37zz	Curvature of spine NOS	1
N37z	Curvature of spine NOS	1
N37	Curvature of spine	1
N02zK	Crystal arthropathy NOS-knee	1
N02zz	Crystal arthropathy NOS	1
N02z	Crystal arthropathy NOS	1
N02z0	Crystal arthr.NOS-site unspec.	1
N02z1	Crystal arthr.NOS-shoulder	1
N02zy	Crystal arthr.NOS-other spec.	1
N02zx	Crystal arthr.NOS-multipl.site	1
N02z9	Cryst arthr NOS-sternoclav jt	1
N02zA	Cryst arthr NOS-acromioclav jt	1
N02z8 SF20z	Crys arthr NOS-shoulder	1
SFz SFz	Crushinjuryshlder+uparmNOS	1
SF	Crushing injury NOS	1
SF40	Crushing injury	1 1
SF021	Crush injury larger	
SF311	Crush injury knoo	1
SF110	Crush injury knee Crush injury back	1
SF4z	Crush injury	1 1
N13y2	Crick in neck	1 1
N2472		1 1
N051A	Cramp Coxarthr from dysplasia, bilat	1 1
N3216	Coxartii from dyspiasia, bilat Coxa plana	1 1
182B0	Costal margin chest pain	1
N2123	Coracoid impingement	1
. 12 . 20	Outacoid impiligement	Į.

Read code	Description	Number of studies
S502	Coracohumeral sprain	1
SE30z	Contusionshider+uer arm NOS	1
SE44	Contusionlwr limbmlti sites	1
SE00	Contusion, forehead	1
SEz	Contusion with skin intact NOS	1
SE30	Contusion shoulder or upper arm	1
SE300	Contusion shoulder area	1
SE301	Contusion scapular area	1
SE231	Contusion of lower back	1
SE232	Contusion of lower back	1
SE4y	Contusion multiple sites NEC	1
SE41z	Contusion knee and lower leg NOS	1
SE411	Contusion knee	1
SE0z	Contusion face scalp+neck NOS	1
SE304	Contusion clavicular area	1
SE23z	Contusion back NOS	1
SE	Contusion back NOS  Contusion (bruise) with intact skin	1
N22y0	Contracture of tendon sheath	1
N23yC	Contracture of tendori sheath	1
N0849	Contracture of multiple joints	1
N084z	Contracture of multiple joints  Contracture of joint NOS	1
N084	Contracture of joint NOS  Contracture of joint	1
N	Connective tissue diseases	1
N3y04	Connect tiss sten neural canal	1
PE1		1
N3y07	Congenital sternomastoid torticollis Con tis/disc sten intervrt for	1
N33C		1
S5C	Complex regionl pain syndrom I Complete tear, knee ligament	1
S58z	Complete tear, knee ligariierit  Complete tear shoulder joint NOS	1
S58	Complete tear shoulder joint	1
N33z8	Complete teal shoulder joint  Complete epiphyseal arrest	1
N33z6	Compensatory hypertrophy-bone	1
SK0y	Compartmentsyndrome	1
S5A0D	Comp tr shrt intr lig non-sp	1
N331D	Collapsed vertebra NOS	1
N331	Collapse of vertebra NOS	1
N331F	Collapse of thoracic vertebra	1
N3310	Collapse of thoracic vertebra	1
N3311	Collapse of lumbar vertebra	1
N331G	Collapse of lumbar vertebra	1
N331E	Collapse of cervical vertebra	1
N331L	Collap vert due osteopor NOS	1
N331J	Collap lumb vert due to osteo	1
N331H	Collap cerv vert due to osteop	1
N00z	Collagen disease NOS	1
N331K	Coll thorac vert due osteopor	1
N147z	Coccyx disorder NOS	1
N1472	•	1
S5E1	Coccygodynia	1
S5E30	Cmplt tr.stornoclavicular lamt	1
S5Ez	Cmplt treather lamt NOS	1
S5Cy	Cmplt triother Igmt NOS	1
S5C1	Cmplt trioner knee light	1
0001	Cmplt tr,knee,mdl collat lgmt	1

Read code	Description	Number of studies
S5C0	Cmplt tr,knee,lat collat lgmt	1
S5Cz	Cmplt tr,knee Igmt NOS	1
S581	Cmplt tr,coraco-clav lgmt	1
S580	Cmplt tr,acromio-clav lgmt	1
S5A0A	Cmplt tr triang fibrocartilage	1
S5C3	Cmpl tr,knee,ant cruciate Igmt	1
S5y57	Cmpl tear,lumbosacral Igmt	1
S5y56	Cmpl tear,iliolumbar lgmt	1
S5C2	Cmp tr,knee,post cruciate Igmt	1
S2920	Clsd mult fract clav scap hum	1
S1000	Clsd # unsp cerv vertebra	1
S1024	Clsd # thorc vert-trnsvrs prcs	1
S1026	Clsd # thorc vert - tricolumnr	1
S1025	Clsd # thorc vert - post prcs	1
S1020	Clsd # thoracic vert, burst	1
S1021	Clsd # thoracic vert wedge	1
S102z	Clsd # thorac vert NOS	1
S1023	Clsd # thor vert-spinous prcss	1
S1003	Clsd # third cerv vertebra	1
S2102	Clsd # scapula, coracoid	1
S1041	Clsd # lumbar vert wedge	1
S1040	Clsd # lumbar vert burst	1
S1046	Clsd # lumb vert - tricolumnar	1
S1004	Clsd # fourth cerv vertebra	1
S1005	Clsd # fifth cerv vertebra	1
S2001	Clsd # clavicle medial end	1
S2003	Clsd # clavical lateral end	1
S100H	Clsd # cerv vert, wedge	1
S100G	Clsd # cerv vert, burst	1
S100z	Clsd # cerv spine NOS	1
S100F	Clsd # axis, tricolumnar	1
\$100D	Clsd # axis, transvrse process	1
\$100B	Clsd # axis, spondylolysis	1
\$100C	Clsd # axis, spinous process	1
\$100E	Clsd # axis, posterior arch	1
S100A	Clsd # axis odontoid process	1
S1009	Clsd # atlas, comminuted	1
S1106	Clsd # C5-C7 unspec cord les	1
S110A	Clsd # C5-C7 post cord lesion	1
S110B	Clsd # C5-C7 incomp cord les	1
S1107	Clsd # C5-C7 complete cord les	1
S1109	Clsd # C5-C7 cent cord lesion	1
S1108	Clsd # C5-C7 ant cord lesion	1
S1100	Clsd # C1-C4 unspec cord les	1
S1104	Clsd # C1-C4 post cord lesion	1
S1105	Clsd # C1-C4 incomp cord les	1
S1101	Clsd # C1-C4 complete cord les	1
S1103	Clsd # C1-C4 cent cord lesion	1
S1102	Clsd # C1-C4 ant cord lesion	1
S4120	Cls trmtc subluxatn shldr jnt	1
S4696	Cls trmtc sublux,head fibula	1
S467	Cls trmtc sublux pat-fem jt	1
S4690	Cls trmtc sublux knee jt,unsp	1

Read code	Description	Number of studies
S4692	Cls trmtc sublux knee jt,post	1
S4694	Cls trmtc sublux knee jt,ltrl	1
S4691	Cls trmtc sublux knee jt,ant	1
S469	Cls trmtc sublux knee jt	1
S4102	Cls trmtc dslctn shldr jtpost	1
S410z	Cls trmtc dislctn shoulder NOS	1
S49E4	Cls trm sublux,st-clav jt,post	1
S49E3	Cls trm sublux,st-clav jt,ant	1
S49E2	Cls trm sublux st-clav jt	1
S4671	Cls trm sublux pat-fem jt,med	1
S4670	Cls trm sublux pat-fem jt,ltrl	1
S49E5	Cls trm sublux laryngl cart	1
S4695	Cls trm sublux knee jt,rotatry	1
S4693	Cls trm sublux knee jt,medial	1
S4121	Cls trm sublux acromio-clav jt	1
S4656	Cls trm dslctn, head fibula	1
S4631	Cls trm dslctn pat-fem jt,med	1
S4630	Cls trm dslctn pat-fem jt,lat	1
S4650	Cls trm dslctn knee, unspec	1
S4654	Cls trm dslctn knee jt,lateral	1
S4652	Cls trm dslctn knee jt, post	1
S4653	Cls trm dslctn knee jt, medial	1
S4651	Cls trm dslctn knee jt, ant	1
S465z	Cls trm dslctn knee NOS	1
S4655	Cls trm dslct knee jt,rotatory	1
S4963	Cls trm dslc,stern-clav jt,ant	1
S4962	Cls trm dslc sterno-clav jt	1
S4965	Cls trm dslc laryngl cartilage	1
S4964	Cls trm dsl,stern-clav jt,post	1
S412	Cls traumtc subluxatn shoulder	1
S410	Cls traumtc disloctn shoulder	1
S4105	Cls traumatic disloctn scapula	1
S49A	Cls sublux thrcic+lumbar spine	1
S49A1	Cls sublux thrcic spine	1
S49Az	Cls sublux thrc+lmbr spine NOS	1
S498x	Cls sublux mlti cerv vertebrae	1
S4980	Cls sublux cervical spine,unsp	1
S498	Cls sublux cervical spine	1
S498z	Cls sublux cerv vertebra NOS	1
S4981	Cls sublux atlanto-occiptl jt	1
S4982	Cls sublux atlanto-axial jt	1
S492C	Cls spnl dslc+cauda equina lsn	1
S4924	Cls spnl dslc+ant thrc crd lsn	1
S4929	Cls spnl dslc+ant lmbr crd lsn	1
S490B	Cls spnl dslc+ant cerv crd lsn	1
S492B	Cls spnl dsl+post lmbr crd lsn	1
S4923	Cls spnl dsl+comp thrc crd lsn	1
S4928	Cls spnl dsl+comp lmbr crd lsn	1
S4922	Cls sprii dsi+comp imbricid isir	1
S4926	Cls spn dslc+tiric crd isn,drisp	1
S490D	Cls spri dsic+post tiric crd isn	1
S4925	Cls spri dsic+post cerv crd isn	1
S492A	Cls spn dslc+cent lmbr crd lsn	1
≥ . <b>↓_/</b> .	Olo spir asiotociil iiribi ola isti	1

Read code	Description	Number of studies
S1140	Cls spn # + unsp lumb crd lesn	1
S1144	Cls spn # + post lumb crd lesn	1
S1141	Cls spn # + comp lumb crd lesn	1
S1143	Cls spn # + cent lumb crd lesn	1
S1145	Cls spn # + cauda equina lesn	1
S1142	Cls spn # + ant lumbr crd lesn	1
SR100	Cls fract invol head with neck	1
S492z	Cls dslc thrcic+lmbr spine NOS	1
S492	Cls dslc thoracic+lumbar spine	1
S4921	Cls dslc thoracic vertebra	1
S4920	Cls dslc lumbar spine	1
S4901	Cls dslc atlanto-occipital jnt	1
S4902	Cls dslc atlanto-axial joint	1
S4F6	Cls #-sublux,patello-fem jt	1
S4J23	Cls #-sublux st-clav jt,post	1
S4J22	Cls #-sublux st-clav jt,ant	1
S4F4	Cls #-dslc,patello-fem jt	1
S4J03	Cls #-dslc st-clav jt,post	1
S4J02	Cls #-dslc st-clav jt,ant	1
S1022	Cls # thorc vert-spondylolysis	1
S1044	Cls # lumbr vert-trnsvrse prcs	1
S1042	Cls # lumbr vert-spondylolysis	1
S1043	Cls # lumbr vert-spinous prcss	1
S1045	Cls # lumb vert-posterior arch	1
S100L	Cls # cerv vert, trnsvrse prcs	1
S100N	Cls # cerv vert, tricolumnar	1
S100J	Cls # cerv vert, spondylolysis	1
S100K	Cls # cerv vert, spinous prcss	1
S100M	Cls # cerv vert, post arch	1
S1008	Cls # atlas-isol arch/art prcs	1
S412z	Closed traumatic subluxation shoulder NOS	1
S496z	Closed traumatic disloctn NOS	1
S4100	Closed traumatic dislocation shoulder joint,	
0.400	unspecified	1
S463	Closed traumatic dislocation of patello-femoral joint	1
S112z	Closed thoracic#+cord lesn.NOS	1
S112	Closed thoracic #+cord lesion	1
S49Cz	Closed subluxation spine NOS	1
S49A0	Closed subluxation lumbar spine	1
S4988	Closed subluxation C7/T1	1
S4987	Closed subluxation C6/C7	1
S4986	Closed subluxation C5/C6	1
S4985	Closed subluxation C4/C5	1
S4984	Closed subluxation C3/C4	1
S4983	Closed subluxation C2/C3	1
S49C0	Closed sublux spine, unsp	1
S49C	Closed sublux other vertebra	1
S026	Closed orbital blow-out fracture	1
S114	Closed lumbar # + cord lesion	1
S102	Closed fracture thoracic vertebra	1
S2104	Closed fracture scapula, blade	1
S2105	Closed fracture scapula spine	1
S2106	Closed fracture scapula neck	1

2			
3 4	Read code	Description	Number of
5	S2103	Closed fracture apprula glancid	studies
6	S2101	Closed fracture scapula acromica	1
7	S3204	Closed fracture scapula acromion	1
8	S3204 S320	Closed fracture patella, comminuted (stellate)	1
9	S1250	Closed fracture of the patella	1
10	S2002	Closed fracture larynx	1
11	\$1002 \$1002	Closed fracture clavicle shaft	1
12	S1002 S1001	Closed fracture axis	1
13		Closed fracture atlas	1
14	S4940	Closed dislocation spine unsp.	1
15	S494z	Closed dislocation spine NOS	1
16	S490	Closed dislocation cervical spine	1
17	S4908	Closed dislocation C7/T1	1
18	\$4907	Closed dislocation C6/C7	1
19	\$4906	Closed dislocation C5/C6	1
20	\$4905	Closed dislocation C4/C5	1
21	\$4904	Closed dislocation C3/C4	1
22	S4903	Closed dislocation C2/C3	1
23	S494	Closed disloc.other vertebra	1
24 25	S490x	Closed disloc.mult.cerv.vert.	1
26	S490z	Closed disloc.cervic.vert.NOS	1
27	S4900	Closed disloc.cerv.spine unsp.	1
28	S4960	Closed disloc sternoclavic. jt	1
29	S4104	Closed disloc acromioclavic.jt	1
30	S110z	Closed cervical#+cord lesn.NOS	1
31	S110	Closed cervical #+cord lesion	1
32	S1253	Closed #trachea	1
33	S1252	Closed #thyroid cartilage	1
34	S11x	Closed #spine+cord lesn.unsp.	1
35	S2100	Closed #scapula-unspecified	1
36	S210z	Closed #scapula NOS	1
37	S125z	Closed #larynx/trachea NOS	1
38	S1251	Closed #hyoid bone	1
39	S2000	Closed #clavicle unspecified	1
40	S200z	Closed #clavicle NOS	1
41	S3z0	Closed #bones unspecified	1
42	S4F2		1
43	S4A20	Closed #-sublux, knee joint Closed #-sublux shoulder joint	1
44	S4A2	Closed #-sublux shoulder	1
45	S4A21	Closed #-sublux acrom-clav jt	1
46 47	S4A00	Closed #-dslc shoulder joint	1
48	S4A0	Closed #-dslc shoulder	1
49	S4F0	Closed #-dslc knee joint	1
50	S4A01	Closed #-dslc acrom-clav joint	1
51	S10x	Closed # spine unspecif	1
52	S210	Closed # scapula	1
53	S3201	Closed # patella,proximal pole	1
54	S3203	Closed # patella, vertical	1
55	S3200	Closed # patella transverse	1
56	S3202	Closed # patella distal pole	1
57	S200	Closed # clavicle	1
58	S100	Closed # clavicle Closed # cervical spine	1
59	N063000	Climacteric arthrsite unsp.	1
60	N0630	Climacteric arthrsite unsp.	1
		Omnacieno arimsite unsp.	1

Read code	Description	Number of studies
N0631	Climacteric arthrshoulder	1
N0638	Climacteric arthrother spec.	1
N063800	Climacteric arthrother spec.	1
N0639	Climacteric arthrmultip.site	1
N063900	Climacteric arthrmultip.site	1
N063z	Climacteric arthrNOS	1
N063z00	Climacteric arthrNOS	1
N0991	Clicking sternoclavic joint	1
N0990	Clicking shoulder	1
N099C	Clicking knee	1
N099	Clicking joint	1
N0992	Clicking acromioclavicular joint	1
N33A1	Clavicle pain	1
S490A	CI spnI dslc+comp cerv crd lsn	1
S4909	Cl spnl dslc+cerv crd lsn,unsp	1
S49A2	CI spn sublx+thrc crd lsn,unsp	1
S49A6	CI spn sublx+post thrc crd Isn	1
S49AB	CI spn sublx+post Imbr crd Isn	1
S49A7	Cl spn sublx+lmbr crd lsn,unsp	1
S49A3	CI spn sublx+comp thrc crd Isn	1
S49A8	CI spn sublx+comp Imbr crd Isn	1
S498A	CI spn sublx+comp cerv crd Isn	1
S498C	CI spn sublx+cntrl crv crd Isn	1
S4989	CI spn sublx+cerv crd lsn,unsp	1
S49A5	CI spn sublx+cent thrc crd Isn	1
S49AA	CI spn sublx+cent Imbr crd Isn	1
S49AC	CI spn sublx+cauda equina Isn	1
S49A4	CI spn sublx+ant thrc crd Isn	1
S49A9	CI spn sublx+ant Imbar crd Isn	1
S498D	Cl spn sublux+post crv crd lsn	1
S498B	Cl spn sublux+ant cerv crd lsn	1
S490C	CI spn dslc+cntrl cerv crd Isn	1
S4927	Cl spn dsl+lmbr crd lsn unsp	1
S1124	CI spn #+pst thor crd lsn,T1-6	1
S1123	CI spn #+cnt thor crd lsn,T1-6	1
S1122	Cl spn #+ant thor crd lsn,T1-6	1
S1120	CI spn #+ant thor crd lsn,T1-6 CI sp #+unsp thor crd lsn,T1-6	1
S1126	CI sp #+unsp thor cd lsn,T7-12	1
S112A	CI sp #+pst thor crd Isn,T7-12	1
S1129	CI sp #+cnt thor crd Isn,T7-12	1
S1121	CI sp #+cmpl thor crd lsn,T1-6	1
S1127	Cl sp #+cmp thor crd lsn,T7-12	1
S1128	Cl sp #+ant thor crd lsn,T7-12	1
S1500	CI multi fractur of thor spine	1
SR160	Cl fract/th wth lw bck+plv+lmb	1
S112B	CI # T7-12incomp cord Isn NOS	1
S1125	CI # T1-6 incmpl cord lesn NOS	1
N301B	Chronic osteomyelitis-th spine	1
N301C	Chronic osteomyelitis-lu spine	1
N301A	Chronic osteomyelitis-Cx spine	1
N301	Chronic osteomyelitis	1
C052*	Chronic lymphocytic thyroiditis (Hashimotos's	
	disease)	1

Read code	Description	Number o studies
16C9	Chronic low back pain	•
N090X	Chronic joint effusion	•
N3682	Chronic instability of knee	•
OX7289CB	Chronic Backache /ox	•
N3010	Chron.osteomyelitis-site unsp.	•
N3011	Chron.osteomyelitis-shoulder	•
N3018	Chron.osteomyelitis-other spec	•
N3019	Chron.osteomyelitis-mult.site	•
N301z	Chron.osteomyelitis NOS	•
N301L	Chron multifocal osteomyelitis	•
N301M	Chr osteomyel + draining sinus	•
N074	Chondromalacia patellae	•
N33z2	Chondromalacia NOS	•
N33zB	Chondrolysis	•
N022	Chondrocalcinosis unspecified	•
N022z	Chondrocalcinosis NOS	•
N02	Chondrocalcinosis	•
N0220	Chondrocalc.unspsite unspec.	•
N0221	Chondrocalc.unspshoulder reg	
N022y	Chondrocalc.unspother spec.	•
N022x	Chondrocalc.unspmultipl.site	
N020z	Chondrocalc.dicalc.phos.NOS	
N021	Chondrocalcpyrophosph.cryst.	
N021z	Chondrocalcpyrophosph.NOS	
N020	Chondrocalcdicalc.phos.cryst	
N0210	Chondrocpyrophossite unsp.	
N0211	Chondrocpyrophosshoulder	
N021y	Chondrocpyrophosother spec	•
N021x	Chondrocpyrophosmult.sites	•
N0216	Chondrocpyrophosknee	
N0200	Chondrocdical.phsite unsp.	
N0201	Chondrocdical.phshoulder	
N020y	Chondrocdical.phother spec	
N020x	Chondrocdical.phmult.sites	
N33zJ	Chandritis	
182C	Chest wall pain	
N035	Chest wall pain Charcots arthropathy	,
N132	Cervicocranial syndrome	
N133	Cervicobrachial syndrome	
N148A	Cervico-thoracic instability	
N1483	Cervico-thoracic instability Cervico-thoracic ankylosis	
N131	Cervicalgia	
N138	Cervicalgia	
N13y0	<del>-</del>	
N119	Cervical syndrome NEC	,
N11E	Cervical spondylosis with radiculopathy	
N110-1	Cervical spondylosis	
N110-1 N110	Cervical spondylosis	
N110 N111	Cervical spond - myelopathy	·
	Cervical spond.+ myelopathy	,
N1489	Cervical spine instability	
N1482	Cervical spine ankylosis	•
N130	Cervical spinal stenosis	•
N13y3	Cervical root syndrome	•

Read code	Description	Number of studies
N12A1	Cervical postlaminectomy syndr	Studies 1
N137	Cervical post.long.lig.ossific	1
SJ306	Cervical pestiloriging costine  Cervical nerve root injury - C7	1
SJ305	Cervical nerve root injury - C6	1
SJ304	Cervical nerve root injury - C5	1
SJ303	Cervical nerve root injury - C4	1
SJ30	Cervical nerve root injury	1
N1113	Cervical myelopathy	1
N13	Cervical disorder NOS	1
N12z4	Cervical discitis	1
N120	Cervical disc displno myelop	1
N1291	Cervical disc disord.+myelop.	1
N125	Cervical disc degeneration	1
S5701	Cervical ant.longit.lig.sprain	1
N13z	Cervical and neck disorders NOS	1
N12zH	Cerv disc disord + radiculopth	1
N21z0	Capsulitis NOS	1
N04y0	Caplan's syndrome	1
N3202	Calve's vertebral osteochondr.	1
N2454	Calf pain	1
N2226	Calcium deposit in bursa	1
N2111	Calcifying tendinitis shoulder	1
N12zB	Calcification of thoracic disc	1
N22y1	Calcification of tendon NOS	1
N12zF	Calcification of lumbar disc	1
N23y1	Calcification of ligament	1
N12z7	Calcification of cervical disc	1
N23y9	Calcific tendinitis	1
N2177	Calcaneal spur	1
N2315	Calc/ossif musc ass with burns	1
N0011	CREST syndrome	1
182Z.00	CHEST PAIN NOS	1
18200	CHEST PAIN	1
S1007	C7 closed # - no cord lesion	1
S1006	C6 closed # - no cord lesion	1
1D12.00	C/O: stiffness C/O: stiffness	1
1D12	C/O: stiffness	1
16C7	C/O - upper back ache	1
1A53	C/O - lumbar pain	1
16C5	C/O - low back pain	1
N2118	Bursitis of shoulder	1
N223	Bursitis NOS	1
N2160-99	Bursitis - knee	1
N2160	Bursitis - knee	1
N221	Bunion	1
16BZ	Bruising symptom NOS	1
16B	Bruising symptom	1
16B2	Bruises easily	1
SE4z	Bruise NOS	1
SE41	Bruise - knee/lower leg	1
SE41-99	Bruise - knee/lower leg	1
SE23	Bruise - back	1
N11y0	Brucella spondylitis	1

Read code	Description	Number of studies
N3325	Brown tumour-hyperparathyroid	Studies 1
N301G	Brodie's abscess-thorac spine	1
N301H	Brodie's abscess-lumbar spine	1
N301F	Brodie's abscess-cervic spine	1
N302b	Brodie's abscess	1
N0503	Bouchard's nodes with arthropathy	1
N33z	Bone/cartilage disorder NOS	1
N33z0	Bone/cartilage disunspecif.	1
N21z3	Bone spur NOS	1
N33A	Bone pain	1
N33zz	Bone or cartilage disorders NOS	1
N31z	Bone involvement in dis.EC NOS	1
N30z0	Bone infectn.NOS-site unspecif	1
N30z1	Bone infectn.NOS-shoulder	1
N30z9	Bone infectn.NOS-multiple site	1
N30z	Bone infection NOS	1
N30zz	Bone infection NOS	1
N3320	Bone cyst (localised),unspecif	1
N3y0	Biomec lesn,not elsewh clas	1
N2112	Bicipital tenosynovitis	1
N2134	Biceps tendinitis	1
N0120	Behcet's syndrome arthropathy	1
N2222	Beat knee	1
N0870	Bankart lesion	1
N224A	Baker's cyst	1
N224A-1	Baker's cyst	1
16	Baker's cyst	1
16C3	Backache with radiation	1
16CZ	Backache symptom NOS	1
16C	Backache symptom  Backache symptom	1
16C2	Backache	1
N149	Back stiffness	1
S57	Back sprain excl. lumbosacral	1
16		1
S57z	Back sprain NOS	1
16C4	Back sprain NOS	1
16C6	Back pain worse on sneezing Back pain without radiat NOS	1
N145-2	Back pain without radiat NOS	1
N143	Back pain unspecified	1
UNMAPPC6	Back pain - lower	1
N14	Back injury	1
N14z	Back disorders - other	1
OX8479	Back disorder/symptom NOS	1
OX7289A	Back Strain/Sprain /ox	1
N2455	Back Pain With Sciatica /ox	1
	Axillary pain	1
N3347	Avascular necrosis-other bone	1
N3345	Avascular necrosis, capitellum	1
N334	Avascular necrosis - bone	1
N334z	Avascular bone necrosis NOS	1
N3340	Avasc.bone necrosis site unsp.	1
N3383	Atrophic non-union of fracture	1
S5703	Atlanto-occipital joint sprain	1
N1487	Atlanto-occipital instability	1

Read code	Description	Number of studies
N1480	Atlanto-occipital ankylosis	1
S5702	Atlanto-axial joint sprain	1
N1488	Atlanto-axial instability	1
N1481	Atlanto-axial ankylosis	1
140D	At risk of osteoporotic fracture	1
1409	At risk of osteoporosis	1
N080z	Articular cartilage disord.NOS	1
N080	Articular cart.disor.excl.knee	1
N0800	Artic.cart.dissite unspecif.	1
N0801	Artic.cart.disshoulder	1
N0807	Artic.cart.disother specif.	1
N0808	Artic.cart.dismultiple sites	1
N080B	Artic cart disord oth j-should	1
N0539	Arthrosis of first carpometacarpal joint, unspecified	1
OX7131C	Arthrosis Spine /ox	1
N0312	Arthropathy-Whipple's disease	1
N034	Arthropathy+respiratory disord	1
N015	Arthropathy+other viral diseas	1
N01y	Arthropathy+other inf./parasit	1
N03y	Arthropathy+other condition EC	1
N015z	Arthropathy+oth.viral dis. NOS	1
N014	Arthropathy+oth.bacterial dis.	1
N017z	Arthropathy+helminthiasis NOS	1
N032	Arthropathy+haematological dis	1
N031	Arthropathy+gastrointestin.dis	1
N030	Arthropathy+endocr./metab.dis	1
N033	Arthropathy+dermatological dis	1
N01	Arthropathy with infections	1
N0310	Arthropathy in ulcerative colitis	1
N069	Arthropathy in neoplastic dis	1
N0302	Arthropathy in amyloidosis	1
N0148	Arthropathy in Whipple's disea	1
N0311	Arthropathy in Crohn's disease	1
N0320	Arthropathy due to haemophilia	1
N06z1	Arthropathy NOS-shoulder	1
N06z4	Arthropathy NOS-hand	1
N06z3	Arthropathy NOS-forearm	1
N06z7	Arthropathy NOS, of the ankle and foot	1
N017	Arthropathy + parasite infectn	1
N016z	Arthropathy + mycoses NOS	1
N016	Arthropathy + mycoses	1
N03z	Arthropathy + disorders EC NOS	1
N03	Arthropathy + disorders EC	1
N0y	Arthropathies OS	1
N0313	Arthropath follow intes bypass	1
N036	Arthrop-hypersensitivity reacn	1
N012	Arthrop+Behcet's syndrome	1
N0121	Arthrop+Behcet's synd-shoulder	1
N012y	Arthrop+Behcet's synd-oth spec	1
N012x	Arthrop+Behcet's synd-multiple	1
N012z	Arthrop+Behcet's synd NOS	1
N2330	Arthrogryposis	1
N0	Arthritis/arthrosis	1

Read code	Description	Number of studies
N11	Arthritis of spine	1
N010A	Arthritis in Lyme disease	1
OX6960T	Arthritis Psoriatic /ox	1
N06z-1	Arthritis	1
N094F	Arthralgia of wrist	1
N094N	Arthralgia of tibio-fibular joint	1
N094A	Arthralgia of shoulder	1
N094M	Arthralgia of knee	1
N094D	Arthralgia of elbow	1
N094P	Arthralgia of ankle	1
N094H	Arthralgia of PIP joint of finger	1
N094G	Arthralgia of MCP joint	1
N094T	Arthralgia of 1st MTP joint	1
N0942	Arthralgia - upper arm	1
N094B	Arthralgia - sternoclav joint	1
N0941	Arthralgia - shoulder	1
N0945	Arthralgia - pelvic/thigh	1
N0944	Arthralgia - hand	1
N0943	Arthralgia - forearm	1
N0947	Arthralgia - ankle/foot	1
N094C	Arthralgia - acromioclav joint	1
EGTON1	Arthralgia	1
N0150	Arthr.+oth.viral dis-site unsp	1
N0151	Arthr.+oth.viral dis-shoulder	1
N0140	Arthr.+oth.bact.dis-site unsp.	1
N0141	Arthr.+oth.bact.dis-shoulder	1
N014y	Arthr.+oth.bact.dis-other spec	1
N014x	Arthr.+oth.bact.dis-mult.sites	1
N014z	Arthr.+oth bact. disease NOS	1
N0160	Arthr.+mycoses-site unspecif.	1
N0161	Arthr.+mycoses-shoulder region	1
N016y	Arthr.+mycoses-other specified	1
N016x	Arthr.+mycoses-multiple sites	1
N0170	Arthr.+helminthsite unspec.	1
N0171	Arthr.+helminthshoulder regn	1
N017y	Arthr.+helminthother specif.	1
N017x	Arthr.+helminthmultiple site	1
N015y	Arthr+oth.viral dis-other spec	1
N015x	Arthr+oth.viral dis-mult.sites	1
N03x0	Arthr assoc oth dis-shoulder	1
N03xB	Arthr assoc oth dis-knee	1
N03x1	Arthr ass oth dis-sternoclav j	1
N03x2	Arthr ass oth dis-acromiocly j	1
N01yz	Arth+other infect./parasit.NOS	1
N01y0	Arth+oth.inf/para-site unspec.	1
N01y1	Arth+oth.inf/para-shoulder reg	1
N01yy	Arth+oth.inf/para-other specif	1
N01yx	Arth+oth.inf/para-multipl.site	1
N245-2	Arm pain	1
N32z0	Apophysitis NOS	1
N006	Antiphospholipid syndrome	1
1M12	Anterior knee pain	1
N094W	Anterior knee pain	1

Read code	Description	Number of
S4101	Anterior dislocation of shoulder	studies
N12z9	Annular tear of thoracic disc	1 1
N12zD	Annular tear of lumbar disc	1
N12z5	Annular tear of turnibal disc	1
N148		1
N085B	Ankylosis/instab Cx,Th,Lu spin	
N085P	Ankylosis other joint-shoulder	1
N085A	Ankylosis of the knee joint	1
N0859	Ankylosis of shoulder joint	1
N085z	Ankylosis of multiple joints	1
N085	Ankylosis of joint NOS	1 1
N117	Ankylosis of joint	
N100*	Ankylosing verteb.hyperostosis	1
N100	Ankylosing spondylitis  Ankylosing spondylitis	1
N245-1		1
1M13	Ankle pain Ankle pain	1
N05z7-1	Ankle osteoarthritis NOS	1
N3384		1
N3322	Angular mal-union of fracture  Aneurysmal bone cyst	1
N2320	Amyotrophia NOS	1
N0620	Allergic arthritis-site unsp.	1
N0621	Allergic arthritis-shoulder	1
N0628	Allergic arthritis-shoulder  Allergic arthritis-other spec.	1
N0629	Allergic artifitis-other spec.  Allergic arthritis-multip.site	1
N062z	Allergic arthritis-Mos	1
N062	Allergic arthritis	1
N337z	Algoneurodystrophy NOS	1
N3373	Algodystrophy of knee	1
N04y2	Adult-onset Still's disease	1
N32y0	Adult osteochondrosis of spine	1
N005	Adult Still's Disease	1
N370	Adolescent postural kyphosis	1
N3737	Adolescent idiopath scoliosis	1
N210	Adhesive capsulitis - shoulde	1
N2156	Adductor tendinitis	1
N084D	Adduction contracture-shoulder	1
N0431	Acute polyartic.juvenile R.A.	1
N300B	Acute osteomyelitis-thor spine	1
N3000	Acute osteomyelitis-site unsp.	1
N3001	Acute osteomyelitis-shoulder	1
N300G	Acute osteomyelitis-scapula	1
N300R	Acute osteomyelitis-patella	1
N3008	Acute osteomyelitis-other spec	1
N3009	Acute osteomyelitis-mult.site	1
N300C	Acute osteomyelitis-lumb spine	1
N300F	Acute osteomyelitis-clavicle	1
N300A	Acute osteomyelitis-cerv spine	1
N300z	Acute osteomyelitis NOS	1
N300	Acute osteomyelitis	1
S460	Acute meniscal tear medial	1
S461	Acute meniscal tear lateral	1
N090Y	Acute joint effusion	1
N300Z	Acute haematogen osteomyelitis	1
		·

Read code	Description	Number of studies
N145	Acute back pain - unspecified	1
N145-1	Acute back pain - unspecified	1
N141	Acute back pain - thoracic	1
N141-1	Acute back pain - thoracic	1
N142	Acute back pain - lumbar	1
N142-3	Acute back pain - lumbar	1
N12	Acute back pain - disc	1
N143-1	Acute back pain + sciatica	1
N06zA	Acute arthritis	1
EGTONAC1	Acromio-Clavicular Dislocation	1
N384	Acquired spondylolisthesis	1
N3720	Acquired postural lordosis	1
N3710	Acquired postural kyphosis	1
N372z	Acquired Iordosis NOS	1
N372	Acquired lordosis	1
N371z	Acquired kyphosis NOS	1
N371	Acquired kyphosis	1
N366	Acquired knee deformity NOS	1
N37z0	Acquired hunchback	1
N3641	Acquired genu varum	1
N364z	Acquired genu valgum/varum NOS	1
N364	Acquired genu valgum/varum	1
N3640	Acquired genu valgum	1
N385	Acquired deformity spine NOS	1
N382	Acquired deformity of neck	1
N38z	Acquired deformity NOS	1
N38y0	Acquired clavicle deformity	1
1DCC.00	Aching muscles	1
1DCC	Aching muscles	1
N220H	Achilles tenosynovitis	1
N2174	Achilles tendinitis	1
N094-1	Ache in joint	1
S4604	Ac mnscl tr,med,periph,dtchmt	1
S4614	Ac mnscl tr,lat,periph,dtchmt	1
S4605	Ac mnscl tear,med,horiz clvge	1
S4615	Ac mnscl tear,lat,horiz clvge	1
S4602	Ac menscl tear, med, bckt hndle	1
S4612	Ac menscl tear,lat,bckt hndle	1
S4603	Ac meniscal tear, med, radial	1
S4601	Ac meniscal tear, med, post horn	1
S4600	Ac meniscal tear, med, ant horn	1
S4613	Ac meniscal tear,lat,radial	1
S4611	Ac meniscal tear,lat,post horn	1
S4610	Ac meniscal tear,lat,ant horn	1
N22y2	Abscess of tendon	1
N22yE	Abscess of bursa-shoulder	1
N22yJ	Abscess of bursa-knee	1
N22y3	Abscess of bursa	1
SD	Abrasions	1
N084C	Abduction contracture-shoulder	1
1969.00	Abdominal pain	1
EGTON251	? Frozen Right Shoulder	1
N11C1	2 lev lumbsac spond+radiculop	1
=	2 104 Millipodo opolia i Iddiodiop	'

		Number of
Read code	Description	studies
N11C0 HNG0160 HNG0157 HNG0162 HNG0163 S11 S10z S10 S11z S21z S21 S32z S104 S32 S20z S20 S3zz S4F S4A	1 lev lumbsac spond+radiculop (hn) Sports Injury (hn) Spinal Injury (hn) Soft tissue injuries (hn) Rhematic problems #Vertebra + cord lesion #Spine - no cord lesion - NOS #Spine + cord lesion NOS #Scapula NOS #Scapula NOS #Scapula #Patella NOS #Lumbar spine - no cord lesion #Knee-cap #Clavicle NOS #Clavicle #Bones NOS #-dslc/subluxation knee #-dslc or subluxation shoulder	studies  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Table 7. List of Read codes used in the studies of male sexual dysfunction.

Read code	Description	Number of studies
E227311	Erectile dysfunction	3
K27y100	Impotence of organic origin	2
E227300	Impotence	2
Eu52213	[X]Psychogenic impotence	1
Eu52212	[X]Male erectile disorder	1
E227000	Unspecified psychosexual dysfunction	1
7C25E00	Treatment of erectile dysfunction NEC	1
7A6G000	Revascularisation for impotence	1
8IE8.00	Referral to erectile dysfunction clinic declined	1
8HTj.00	Referral to erectile dysfunction clinic	1
E227z00	Psychosexual dysfunction NOS	1
E227.00	Psychosexual dysfunction	1
E227700	Psychogenic dyspareunia	1
Z9E9.00	Provision of device for impotence	1
E227600	Premature ejaculation	1
7C25F00	Operations on penis for erectile dysfunction NEC	1
7A6G500	Ligation of penile veins for impotence	1
E227.11	Lack of libido	1
E227100	Inhibited sexual desire	1
E227500	Inhibited male orgasm	1
E227z11	Fear of ejaculation	1
K27y700	Erectile dysfunction due to diabetes mellitus	1
66Au.00	Diabetic erectile dysfunction review	1
66Av.00	Diabetic assessment of erectile dysfunction	1
1D1B.00	C/O erectile dysfunction	1
ZG43600	Advice on technique for impotence	1
67IA.00	Advice about impotence	1
	C/O erectile dysfunction Advice on technique for impotence Advice about impotence	

Table 8. List of Read codes used in the studies of sleep disorder.

Dec Lee Is	Provide the second	Number of
Read code	Description	studies
1B1B.00	Cannot sleep - insomnia	1
1B1B.11	C/O - insomnia	1
1B1B100	Middle insomnia	1
1B1B200	Late insomnia	1
1B1Q.00	Poor sleep pattern	1
E274.00	Non-organic sleep disorders	1
E274.11	Hypersomnia of non-organic origin	1
E274.12	Insomnia due to nonorganic sleep disorder	1
E274000	Unspecified non-organic sleep disorder	1
E274100	Transient insomnia Insomnia NOS	1
E274111		1
E274200	Persistent insomnia	1
E274300 E274311	Transient hypersomnia Hypersomnia NOS	1 1
E274311 E274400	Persistent hypersomnia	1
E274400 E274500	Jet lag syndrome	1
E274600	Shifting sleep-work schedule	1
E274700	Somnambulism - sleep walking	1
E274800	Night terrors	1
E274900	Nightmares	1
E274A00	Sleep drunkenness	1
E274B00	Repeated rapid eye movement sleep interruptions	1
E274C00	Other sleep stage or arousal dysfunction	1
E274D00	Repetitive intrusions of sleep	1
E274D11	Restless sleep	1
E274E00	'Short-sleeper'	1
E274F00	Inversion of sleep rhythm	1
E274y00	Other non-organic sleep disorder	1
E274y11	Dreams	1
E274z00	Non-organic sleep disorder NOS	1
Eu51.00	[X]Nonorganic sleep disorders	1
Eu51000	[X]Nonorganic insomnia	1
Eu51100	[X]Nonorganic hypersomnia	1
Eu51200	[X]Nonorganic disorder of the sleep-wake schedule	1
Fy00.00	Disorders of initiating and maintaining sleep	1
Fy01.00	Disorders of excessive somnolence	1
Fy02.00	Disorders of the sleep-wake schedule	1
R005.00	[D]Sleep disturbances	1
R005.11	[D]Insomnia - symptom	1
R005.12	[D]Sleep rhythm problems	1
R005000	[D]Sleep disturbance, unspecified	1
R005100	[D]Insomnia with sleep apnoea	1
R005200	[D]Insomnia NOS	1
R005300	[D]Hypersomnia with sleep apnoea	1
R005311	[D]Sleep apnoea syndrome	1
R005312	[D]Syndrome sleep apnoea	1
R005400	[D]Hypersomnia NOS	1
R005500	[D]Sleep rhythm inversion	1
R005600	[D]Sleep rhythm irregular	1
R005700	[D]Sleep-wake rhythm non-24-hour cycle	1
R005800	[D]Sleep dysfunction with sleep stage disturbance	1

Read code	Description	Number of studies
Read code R005900 R005z00	[D]Sleep dysfunction with arousal disturbance [D]Sleep dysfunction NOS	Number of studies 1 1

Table 9. List of Read codes used in the studies of fatal and non-fatal self-harm.

Read code	Description	Number of studies
TK1y.00	Suicide and selfinflicted poisoning by other utility gas	8
TK21.00	Suicide and selfinflicted poisoning by other carbon monoxide	8
TK01000	Suicide and self inflicted injury by Amylobarbitone	8
TK03.00	Suicide + selfinflicted poisoning tranquilliser/psychotropic	8
TK0z.00	Suicide + selfinflicted poisoning by solid/liquid subst NOS	8
TK04.00	Suicide + selfinflicted poisoning by other drugs/medicines	8
TK02.00	Suicide + selfinflicted poisoning by oth sedatives/hypnotics	8
TK20.00	Suicide + selfinflicted poisoning by motor veh exhaust gas	8
TK05.00	Suicide + selfinflicted poisoning by drug or medicine NOS	8
TK07.00	Suicide + selfinflicted poisoning by corrosive/caustic subst	8
TK01.00	Suicide + selfinflicted poisoning by barbiturates	8
TK00.00	Suicide + selfinflicted poisoning by analgesic/antipyretic	8
TK06.00	Suicide + selfinflicted poisoning by agricultural chemical	8
U200.00	[X]Intent self poison/exposure to nonopioid analgesic	7
U2011	[X]Deliberate drug overdose / other poisoning	7
TK70.00	Suicide+selfinflicted injury-jump from residential premises	7
TK71.00	Suicide+selfinflicted injury-jump from oth manmade structure	7
TK72.00	Suicide+selfinflicted injury-jump from natural sites	7
TK7z.00	Suicide+selfinflicted injury-jump from high place NOS	7
TK61.00	Suicide and selfinflicted injury by stabbing	7
TK51.00	Suicide and selfinflicted injury by shotgun	7
TKx2.00	Suicide and selfinflicted injury by scald	7
TKxy.00	Suicide and selfinflicted injury by other specified means	7
TK54.00	Suicide and selfinflicted injury by other firearm	7
TK52.00	Suicide and selfinflicted injury by hunting rifle	7
TK30.00	Suicide and selfinflicted injury by hanging	7
TK6z.00	Suicide and selfinflicted injury by cutting and stabbing NOS	7
TK60.00	Suicide and selfinflicted injury by cutting	7
TKx5.00	Suicide and selfinflicted injury by crashing motor vehicle	7
TKx1.00	Suicide and selfinflicted injury by burns or fire	7
TK00	Suicide and selfinflicted injury	7
TK01400	Suicide and self inflicted injury by Phenobarbitone	7
TK01100	Suicide and self inflicted injury by Barbitone	7
TK14	Suicide and self harm	7
TK000	Suicide + selfinflicted poisoning by solid/liquid substances	7
TK200	Suicide + selfinflicted poisoning by other gases and vapours	7
TK11.00	Suicide + selfinflicted poisoning by liquified petrol gas	7
TK2z.00	Suicide + selfinflicted poisoning by gases and vapours NOS	7
TK10.00	Suicide + selfinflicted poisoning by gas via pipeline	7
TK1z.00	Suicide + selfinflicted poisoning by domestic gases NOS	7
TKx0000	Suicide + selfinflicted injury-jumping before moving object	7
TK31.00	Suicide + selfinflicted injury by suffocation by plastic bag	7
TK3y.00	Suicide + selfinflicted inj oth mean hang/strangle/suffocate	7
TK3z.00	Suicide + selfinflicted inj by hang/strangle/suffocate NOS	7
TK13	Poisoning - self-inflicted	7
TK17	Para-suicide	7
TK11	Cause of overdose - deliberate	7
TK15	Attempted suicide	7
U213	[X]Suicide	6
U20C.11	[X]Self poisoning with weedkiller	6
U20C.12	[X]Self poisoning with paraquat	6

Read code	Description	Number of studies
U20A.11	[X]Self poisoning from glue solvent	Studies 6
U20B.11	[X]Self carbon monoxide poisoning	6
U215	[X]Para-suicide	6
U2000	[X]Intentional self poisoning/exposure to noxious substances	6
U20A.00	[X]Intentional self poison organ solvent, halogen hydrocarb	6
U20y.00	[X]Intent self poison/exposure to unspecif chemical	6
U202.00	[X]Intent self poison/exposure to sedative hypnotic	6
U204.00	[X]Intent self poison/exposure to psychotropic drug	6
U20C.00	[X]Intent self poison/exposure to pesticide	6
U20B.00	[X]Intent self poison/exposure to other gas/vapour	6
U207.00	[X]Intent self poison/exposure to oth autonomic drug	6
U206.00	[X]Intent self poison/exposure to hallucinogen	6
U201.00	[X]Intent self poison/exposure to antiepileptic	6
U20yz00	[X]Intent self poison unspecif chemical unspecif place	6
U202z00	[X]Intent self poison sedative hypnotic unspecif place	6
U204z00	[X]Intent self poison psychotropic drug unspecif place	6
U204100	[X]Intent self poison psychotropic drug at res institut	6
U20Bz00	[X]Intent self poison other gas/vapour unspecif place	6
U208z00	[X]Intent self poison oth/unsp drug/medic unspecif place	6
U207z00	[X]Intent self poison oth autonomic drug unspecif place	6
U200z00	[X]Intent self poison nonopioid analgesic unspecif place	6
U200100	[X]Intent self poison nonopioid analgesic at res institut	6
U205z00	[X]Intent self poison narcotic drug unspecif place	6
U201z00	[X]Intent self poison antiepileptic unspecif place	6
U206400	[X]Intent self pois hallucinogen in street/highway	6
U20y000	[X]Int self poison/exposure to unspecif chemical at home	6
U202000	[X]Int self poison/exposure to sedative hypnotic at home	6
U204000	[X]Int self poison/exposure to psychotropic drug at home	6
U20C000 U208.00	[X]Int self poison/exposure to pesticide at home	6
U208.00 U20B000	[X]Int self poison/exposure to other/unspec drug/medicament	6
U207000	[X]Int self poison/exposure to other gas/vapour at home [X]Int self poison/exposure to oth autonomic drug at home	6
U200000	[X]Int self poison/exposure to our autonomic drug at nome	6
U205000	[X]Int self poison/exposure to nonopioid analgesic at nome	6
U201000	[X]Int self poison/exposure to national drug at nome	6
U20y200	[X]Int self poison unspecif chemical school/pub admin area	6
U202y00	[X]Int self poison sedative hypnotic other spec place	6
U204y00	[X]Int self poison psychotropic drug other spec place	6
U20Cy00	[X]Int self poison pesticide other spec place	6
U20B200	[X]Int self poison other gas/vapour school/pub admin area	6
U20By00	[X]Int self poison other gas/vapour other spec place	6
U208y00	[X]Int self poison oth/unsp drug/medic other spec place	6
U20A400	[X]Int self poison org solvent,halogen hydrocarb,in highway	6
U200y00	[X]Int self poison nonopioid analgesic other spec place	6
U205y00	[X]Int self poison narcotic drug other spec place	6
U214	[X]Attempted suicide	6
TKx7.00	Suicide and selfinflicted injury caustic subst, excl poison	6
TKxz.00	Suicide and selfinflicted injury by other means NOS	6
TKx00	Suicide and selfinflicted injury by other means	6
TK700	Suicide and selfinflicted injury by jumping from high place	6
TKx3.00	Suicide and selfinflicted injury by extremes of cold	6
TKx4.00	Suicide and selfinflicted injury by electrocution	6
TK400	Suicide and selfinflicted injury by drowning	6

TKS00 Suicide and selfinflicted injury by cutting and stabbing 6 TKS00 Suicide and selfinflicted injury NOS 6 TKX00 Suicide + selfinflicted poisoning by gases in domestic use 6 TKX00 Suicide + selfinflicted injury-jump/lie before moving object 6 TKX00 Suicide + selfinflicted injury-jump/lie before moving object 6 TKX00 Suicide + selfinflicted injury-jump/lie before moving object 6 TKX00 Suicide + selfinflicted injury by hang/strangulate/suffocate 6 U29000 [X]Intentional self harm by unspecif means occurrn at home 5 U29000 [X]Intentional self harm by sharp object occurrence at home 5 U29200 [X]Intentional self harm by sharp object occurrence at home 5 U29200 [X]Intentional self harm by sharp object occurrence at home 5 U29200 [X]Intentional self harm by sharp object occurrence at home 5 U29400 [X]Intention self harm by sharp object occ other specif place 6 U29400 [X]Intention self harm by sharp object occ other specif place 10 U29400 [X]Intention self harm by sharp object occ other specif place 10 U29400 [X]Intent self poison/exposure to narcotic drug 5 U29500 [X]Intent self poison/exposure to narcotic drug 5 U20500 [X]Intent self poison/exposure to narcotic drug 5 U209200 [X]Intent self poison alcohol unspecif place 5 U209200 [X]Intent self poison alcohol unspecif place 5 U209200 [X]Intent self pois on alcohol unspecif place 5 U209200 [X]Intent self pois on propholic in street/highway 5 U208400 [X]Intent self pois on gran solvent halogen hydrocarb, home 5 U208500 [X]Intent self pois on gran solvent halogen hydrocarb, home 5 U208500 [X]Intent self pois ongran solvent halogen hydrocarb, home 5 U208500 [X]Intent self harm oth/unspecif firearm disch occ at home 5 U208500 [X]Intent self harm by smoke fire/lames occ oth specif place 5 U222000 [X]Intent self harm by smoke fire/lames occ other specif place 5 U222000 [X]Intent self harm by smoke fire/lames occ street/highway 5 U224000 [X]Intent self harm by smoke fire/lames occ street/highway 5 U224000 [X]Inten	Read code	Description	Number of
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IKK1.00 Suicide + selfinflicted pilsoning by gases in domestic use  6 TKX0.00 Suicide + selfinflicted injury-jumpfile before moving object  7K3.00 Suicide + selfinflicted injury by hang/strangulate/suffocate  8 U290.00 [X]Intentional self harm by oth specif means occurrn at home  9 [X]Intentional self harm by unspecif means occurrn at home  10 [X]Intentional self harm by by unspecif means occurrn at home  10 [X]Intentional self harm by sharp object occurrence at home  10 [X]Intentional self harm by sharp object occurrence at home  10 [X]Intentional self harm by sharp object occurrence at home  10 [X]Intentional self harm by sharp object occurrence at home  10 [X]Intentional self harm by smoke fire/flames occurrn at home  10 [X]Intention self harm by smoke fire/flames occurrn at home  10 [X]Intention self harm by sharp object occ street/highway  10 [X]Intention self harm by sharp object occ street/highway  10 [X]Intent self poison/exposure to narcotic drug  11 [X][X][X][X][X][X][X][X][X][X][X][X][X][		, , , , , , , , , , , , , , , , , , , ,	
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U29.0.0 [X]Intentional self harm by oth specif means occurn at home   5 U220.00   X Intentional self harm by sharp object occurrence at home   5 U292.00   X Intentional self harm by sharp object occurrence at home   5 U292.00   X Intentional self harm by sharp object occurrence at home   5 U294.00   X Intentional self harm by sharp object occurrence at home   5 U294.00   X Intention self harm by sharp object occurrence at home   5 U294.00   X Intention self harm by sharp object occurrence at home   5 U294.00   X Intention self harm by sharp object occurrence at home   5 U294.00   X Intention self harm by sharp object occurrence at home   5 U294.00   X Intention self harm by sharp object occurrence at home   5 U295.00   X Intent self poison/exposure to narcotic drug   5 U205.00   X Intent self poison/exposure to narcotic drug   5 U209.00   X Intent self poison/exposure to alcohol   5 U2092.00   X Intent self poiso sedative hypnotic in street/highway   5 U209400   X Intent self pois obt/unsp drug/medic in street/highway   5 U208400   X Intent self pois obt/unsp drug/medic in street/highway   5 U208400   X Intent self pois onoipoid analgesic trade/service area   5 U205.00   X Intent self pois onoipoid analgesic trade/service area   5 U2092.00   X Intent self harm oth/unspecif firearm disch occ at home   5 U208.00   X Intent self harm by unspecif means occ ob specif place   5 U222.00   X Intent self harm by unspecif means occ at unspecif place   5 U222.00   X Intent self harm by smoke fire/flame occ unspecif place   5 U274.00   X Intent self harm by smoke fire/flame occ unspecif place   5 U274.00   X Intent self harm by smoke fire/flame occ unspecif place   5 U274.00   X Intent self harm by smoke fire/flame occ street/highway   5 U294.00   X Intent self harm by hang pstrangul/suffoct on specif place   5 U274.00   X Intent self harm by hang strangul/suffoct on specif place   5 U274.00   X Intent self harm by hang strangul/suffoct on specif place   5 U274.00   X Intent self harm by hang strangul/suffoct on specif pla			
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U292.00   X Intentional self harm by sharp object occ unspecif place   5   U2A0.00   X Intentional self harm by blunt object occurrence at home   5   U294.00   X Intention self harm by smoke fire/flames occurrn at home   5   U294.00   X Intention self harm by sharp object occ street/highway   5   U299.00   X Intention self harm by sharp object occ oth specif place   5   U205.00   X Intent self poison/exposure to narcotic drug   5   U209.00   X Intent self poison/exposure to narcotic drug   5   U209.00   X Intent self poison alcohol unspecif place   5   U209.00   X Intent self poison alcohol unspecif place   5   U209.00   X Intent self pois on alcohol unspecif place   5   U209.400   X Intent self pois oth/unsp drug/medic in street/highway   5   U208400   X Intent self pois organ solvent,halogen hydrocarb, home   5   U200.4000   X Intent self pois organ solvent,halogen hydrocarb, home   5   U250.00   X Intent self pois nonopioid analgesic trade/service area   5   U250.00   X Intent self harm oth/unspecif firearm disch occ at home   5   U222.00   X Intent self harm by unspecif means occ oth specif place   5   U222.00   X Intent self harm by unspecif means occ at unspecif place   5   U222.00   X Intent self harm by unspecif means occ at unspecif place   5   U224.00   X Intent self harm by smoke fire/flames occ unspecif place   5   U274.00   X Intent self harm by smoke fire/flames occ unspecif place   5   U274.00   X Intent self harm by smoke fire/flames occ unspecif place   5   U291.00   X Intent self harm by oth specif means occ street/highway   5   U291.00   X Intent self harm by oth specif means occ unspecif place   5   U291.00   X Intent self harm by hangng strangul/suffoct occ at home   5   U291.00   X Intent self harm by hangng strangul/suffoct occ at home   5   U291.00   X Intent self harm by hangng strangul/suffoct occ at home   5   U291.00   X Intent self harm by hangng strangul/suffoct occ home   5   U291.00   X Intent self harm by hangng strangul/suffoct occ home   5   U291.00   X Intent self harm by d			
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5	~	Number of
Read code	Description	studies
U2B6.00	[X]Int self harm by jump from high place indust/constr area	5
TK5z.00	Suicide and selfinflicted injury by firearms/explosives NOS	5
TK500	Suicide and selfinflicted injury by firearms and explosives	5
TKx6.00	Suicide and selfinflicted injury by crashing of aircraft	5
TK60111	Slashed wrists self inflicted	5
TK60100	Self inflicted lacerations to wrist	5
U202.13	[X]Overdose - temazepam	4
U202.11	[X]Overdose - sleeping tabs	4
U202.15	[X]Overdose - nitrazepam	4
U202.12	[X]Overdose - diazepam	4
U202.16	[X]Overdose - benzodiazepine	4
U202.17	[X]Overdose - barbiturate	4
U204.11	[X]Overdose - antidepressant	4
U202.18	[X]Overdose - amobarbital	4
U204.12	[X]Overdose - amitriptyline	4
U204.13	[X]Overdose - SSRI	4
U2z00	[X]Intentional self harm by unspecified means	4
U2700	[X]Intentional self harm by smoke, fire and flames	4
U2900	[X]Intentional self harm by sharp object	4
U2y00	[X]Intentional self harm by other specified means	4
U2B00	[X]Intentional self harm by jumping from a high place	4
U2600	[X]Intentional self harm by explosive material	4
U2200	[X]Intentional self harm by drowning and submersion	4
U2D00	[X]Intentional self harm by crashing of motor vehicle	4
U2A00	[X]Intentional self harm by blunt object	4
U200400	[X]Intent self pois nonopioid analgesic in street/highway	4
U28z.00	[X]Intent self harm by steam hot vapour/obj occ unspec place	4
U280.00	[X]Intent self harm by steam hot vapour/hot obj occ at home	4
U2400	[X]Intent self harm by rifle shotgun/larger firearm disch	4
U2500	[X]Intent self harm by other/unspecified firearm discharge	4
U2C00	[X]Intent self harm by jumping / lying before moving object	4
U2100	[X]Intent self harm by hanging strangulation / suffocation	4
U212.00	[X]Inten slf harm hang strang/suffc sch oth ins/pub adm area	4
U209000	[X]Int self poison/exposure to alcohol at home	4
U4100	[X]Hanging strangulation + suffocation undetermined intent	4
U4Bz.00	[X]Fall jump/push frm high plce undt intnt occ unspecif plce	4
U720.00	[X]Sequelae of intentional self-harm	3
U211	[X]Self inflicted injury	3
U4400	[X]Rifle shotgun+larger firearm discharge undetermin intent	3
U40y.00	[X]Poisoning/exposure, ? intent, to unspecif chemical	3
U402.00	[X]Poisoning/exposure, ? intent, to sedative hypnotic	3
U404.00	[X]Poisoning/exposure, ? intent, to psychotropic drug	3
U40C.00	[X]Poisoning/exposure, ? intent, to pesticide	3
U40B.00	[X]Poisoning/exposure, ? intent, to other gas/vapour	3
U400.00	[X]Poisoning/exposure, ? intent, to nonopioid analgesic	3
U405.00	[X]Poisoning/exposure, ? intent, to narcotic drug	3
U409.00	[X]Poisoning/exposure, ? intent, to alcohol	3
U4000	[X]Poisoning/expos to noxious substance, undetermined intent	3
U408.00	[X]Poison/exposure, ?intent, to other/unspec drug/medicament	3
U408000	[X]Poison/exposure ?intent, to oth/unsp drug/medicam home	3
U409000	[X]Poison/exposure ?intent, to alcohol at home	3
U409000 U40y600	[X]Poison/expos ?intent unspec chemic indust/construct area	3
U200.11	[X]Overdose - paracetamol	3
0200.11	[v]overuose - paracetamor	3

Read code	Description	Number of studies
U200.12	[X]Overdose - ibuprofen	3
U200.13	[X]Overdose - aspirin	3
U4500	[X]Other+unspecified firearm discharge undetermined intent	3
U200	[X]Intentional self-harm	3
U2800	[X]Intentional self harm by steam hot vapours / hot objects	3
U216.00	[X]Intent self harm by hang strangl/suffc indust/constr area	3
U220.00	[X]Intent self harm by drowning/submersion occurrn at home	3
U206000	[X]Int self poison/exposure to hallucinogen at home	3
U212	[X]Injury - self-inflicted	3
U410.00	[X]Hanging strangulat+suffocat undet intent occurrn at home	3
U4B00	[X]Falling jumping/pushed from high place undeterm intent	3
U3011	[X]Deliberate drug poisoning	3
ZX1R.00	Throwing self in front of vehicle	3
ZX1Q.00	Throwing self in front of train	3
TK53.00	Suicide and selfinflicted injury by military firearms	3
TK01z00	Suicide and self inflicted injury by barbiturates	3
TK2y.00	Suicide + selfinflicted poisoning by other gases and vapours	3
TKx0z00	Suicide + selfinflicted inj-jump/lie before moving obj NOS	3
ZX1N.00	Stabbing self	3
ZX1M.00	Shooting self	3
ZX1K.12	Setting self alight	3
ZX1K.11	Setting fire to self	3
ZX1H200	Self-suffocation Self-suffocation	3
ZX1H100	Self-strangulation	3
ZX1K.00	Self-incineration Self-incineration	3
ZX1J.00	Self-electrocution	3
ZX1H.00	Self-asphyxiation	3
SL15	Overdose of drug	3
SL14	Overdose of biological substance	3
TKy00	Late effects of selfinflicted injury	3
ZX1Q.11	Jumping under train	3
ZX1B.00	Jumping from height	3
ZX1B300	Jumping from cliff	3
ZX1B100	Jumping from building	3
ZX1B200	Jumping from bridge	3
TK12	Injury - self-inflicted	3
ZX18.00 SLHz.00	Hanging self Drug and medicament poisoning NOS	3
ZX15.00	Drowning self	3
U7200	[X]Sequel intentn self-harm assault+event of undeterm intent	2
ZX1LD00	[X]Self mutilation	2
U40y000	[X]Poison/exposure ?intent, to unspecif chemical at home	2
U40C000	[X]Poison/exposure ?intent, to pesticide at home	2
U40A.00	[X]Pois/exposure,?intent,to organ solvent,halogen hydrocarb	2
U40y400	[X]Pois/expos ?intent unspecif chemical in street/highway	2
U40yz00	[X]Pois/expos ?intent to unspecif chemical unspecif place	2
U402z00	[X]Pois/expos ?intent to sedative hypnotic unspecif place	2
U408z00	[X]Pois/expos ?intent to oth/unsp drug/medic unspecif place	2
U409z00	[X]Pois/expos ?intent to alcohol unspecif place	2
U40B400	[X]Pois/expos ?intent other gas/vapour in street/highway	2
U409400	[X]Pois/expos ?intent alcohol in street/highway	2
U406y00	[X]Pois/exp ?intent to hallucinogen other spec place	2
U404300	[X]Pois/exp ?intent psychotropic drug in sport/athletic area	2

Read code	Description	Number of
	· · · · · · · · · · · · · · · · · · ·	studies
U40A300 U409200	[X]Pois/exp ?intent org solvent,halogen hydrocarb,sport area [X]Pois/exp ?intent alcohol school/pub admin area	2
U205.11	[X]Overdose - heroin	2
U2Az.00	[X]Intentional self harm by blunt object occ unspecif place	2
U206z00	[X]Intent self poison hallucinogen unspecif place	2
U209400	[X]Intent self pois alcohol in street/highway	2
U292.00	[X]Intent self harm sharp obj occ sch oth ins/pub adm area	2
U2yy.00	[X]Intent self harm oth specif means occ oth specif place	2
U2y6.00	[X]Intent self harm oth specif means occ indust/constr area	2
U2z1.00	[X]Intent self harm by unspecif means occurrn resid instit'n	2
U27y.00	[X]Intent self harm by smoke fire/flame occ oth specif pice	2
U295.00	[X]Intent self harm by sharp object occ trade/service area	2
U296.00	[X]Intent self harm by sharp object occ indust/constr area	2
U2B1.00	[X]Intent self harm by jump from high place occ resid instit	2
U213.00	[X]Intent self harm by hang strangl/suffc sport/athlet area	2
U2Dz.00	[X]Intent self harm by crash motor vehic occ unspecif place	2
U2A2.00	[X]Intent self harm blunt obj occ sch oth ins/pub adm area	2
U20Ay00	[X]Int self pois org solv,halogen hydrocarb,oth spec place	2
U200600	[X]Int self pois nonopioid analgesic indust/construct area	2
U282.00	[X]Int self harm by steam hot vapor/obj sch/ins/pub adm area	2
U4C00	[X]Falling lying running befor/into moving obj undet intent	2
U4B6.00	[X]Fall jump/push frm high plce undt intn indust/constr area	2
U4700	[X]Exposure to smoke, fire and flames, undetermined intent	2
U470.00	[X]Exposure to smoke fire+flame undeterm intent occ at home	2
U4200	[X]Drowning and submersion, undetermined intent	2
U4D7.00	[X]Crashng of motor vehicle undetermined intent occ on farm	2
U4D0.00	[X]Crashing of motor vehicle undetermined intent occ at home	2
U4D00	[X]Crashing of motor vehicle, undetermined intent	2
U4D3.00	[X]Crash of motor vehicle undeterm intent sport/athlet area	2 2
U4A5.00 U4A3.00	[X]Contct wth blunt obj undet intent occ trade/service area [X]Contct wth blunt obj undet intent occ sport/athletic area	2
U4A0.00	[X]Contact with blunt object undetermined intent occ at home	2
U4800	[X]Contact with steam hot vapours+objects undeterminent	2
U4900	[X]Contact with sharp object, undetermined intent	2
U49z.00	[X]Contact with sharp object, didetermined intent	2
U4A00	[X]Contact with blunt object, undetermined intent	2
U4Az.00	[X]Contact with blunt obj undeterm intent occ unspecif place	2
ZX1S.00	Throwing self onto floor	2
1BDA.00	Thoughts of deliberate self harm	2
1BD3.00	Suicidal plans	2
1BD1.00	Suicidal ideation	2
1B19.11	Suicidal - symptom	2
1B19.00	Suicidal	2
ZX19200	Slapping self	2
ZX1I.00	Self-scalding	2
ZX1L300	Self-mutilation of penis	2
ZX1L100	Self-mutilation of hands	2
ZX1L200	Self-mutilation of genitalia	2
ZX1L600	Self-mutilation of ears	2
ZX1L.00	Self-mutilation	2
ZX1G.00	Scratches self	2
ZX19100	Punching self	2
TN11	Poisoning undetermined - accidentally or purposely inflicted	2

Read code	Description	Number of studies
ZX1E.00	Pinching self	2
ZX1C.00	Nipping self	2
14K1.00	Intentional overdose of prescription only medication	2
TN000	Injury ?accidental, poisoning by solid/liquid substances	2
TN0z.00	Injury ?accidental, poisoning by solid or liquid subst NOS	2
TN2y.00	Injury ?accidental, poisoning by other spec gas or vapour	2
TN04.00	Injury ?accidental, poisoning by other spec drug/medicament	2
TN02.00	Injury ?accidental, poisoning by other sedative/hypnotic	2
TN200	Injury ?accidental, poisoning by other gases	2
TN21.00	Injury ?accidental, poisoning by other carbon monoxide	2
TN20.00	Injury ?accidental, poisoning by motor vehicle exhaust gas	2
TN11.00	Injury ?accidental, poisoning by liquid petrol gas	2
TN100	Injury ?accidental, poisoning by gases in domestic use	2
TN1z.00	Injury ?accidental, poisoning by gas in domestic use NOS	2
TN10.00	Injury ?accidental, poisoning by gas distributed by pipeline	2
TN05.00	Injury ?accidental, poisoning by drug or medicament NOS	2
TN06.00	Injury ?accidental, poisoning by corrosive/caustic substance	2
TN08.00	Injury ?accidental, poisoning by arsenic or its compounds	2
TN00.00	Injury ?accidental, poisoning by analgesic or anti-pyretic	2
TN07.00	Injury ?accidental, poisoning by agricultural chemicals	2
TN300	Injury ?accidental, hanging, strangulation and suffocation	2
TN30.00	Injury ?accidental, hanging	2
TN01300	Injury ?accidental poisoning by Pentobarbitone	2
ZRLfC12	HoNOS item 2 - non-accidental self injury	2
ZX19.00	Hitting self	2
ZX13.00	Cutting self	2
ZX13.11	Cuts self	2
ZX12.00	Burning self	2 2
ZX11.00	Biting self	2
ZX11.11	Bites self	2
SL90.00	Antidepressant poisoning	2
8G6Z.00	Anti-suicide psychotherapy NOS	2
8G600	Anti-suicide psychotherapy	2
SL90z00	Anti-depressant poisoning NOS	2
U4z00	[X]Unspecified event, undetermined intent	1
U4zz.00	[X]Unspecif event undeterm intent occurrn unspecif place	1
U4z3.00	[X]Unspecif event undeterm intent occurrn sport/athlet area	1
U4zy.00	[X]Unspecif event undeterm intent occurrn oth specif place	1
U4z6.00	[X]Unspecif event undeterm intent occurrn indust/constr area	1
SyuG.00	[X]Toxic effects of substances chiefly nonmedicinal source	1
SyuG700	[X]Toxic effects of other specified gases, fumes & vapours	1
SyuGH00	[X]Toxic effect of paints and dyes, NEC	1
SyuGJ00	[X]Toxic effect of other specified substances	1
SyuG900	[X]Toxic effect of other pesticides	1
SyuG800	[X]Toxic effect of other insecticides	1
SyuGC00	[X]Toxic effect of other ingested (parts of) plant(s)	1
SyuG000	[X]Toxic effect of other alcohols	1
U2E00	[X]Self mutilation	1
U406.00	[X]Poisoning/exposure, ? intent, to hallucinogen	1
SyuFM00 SyuFB00	[X]Poisoning by other psychotropic drugs, NEC	1
SyuFB00 SyuFW00	[X]Poisoning by other opioids [X]Poisoning by other laxatives, incl intestin atonia drugs	1
SyuFT00	[X]Poisoning by other antihypertensive drugs, NEC	1
Sydi 100	[24] Goothing by other dridingportentiate drugs, INEO	'

Read code	Description	Number of studies
SyuFD00	[X]Poisoning by other and unspecified narcotics	1
SyuFA00	[X]Poisoning by other analgesics, not elsewhere classified	1
SyuF900	[X]Poisoning by oth nonsteroidal anti-inflamm drugs [NSAID]	1
SyuFc00	[X]Poisoning by oth & unspecif drugs & biologic substances	1
SyuF.00	[X]Poisoning by drugs and biological substances	1
Ú40Bz00	[X]Pois/expos ?intent to other gas/vapour unspecif place	1
U409100	[X]Pois/expos ?intent to alcohol at res institut	1
U408400	[X]Pois/expos ?intent oth/unsp drug/medic in street/highway	1
U40yy00	[X]Pois/exp ?intent to unspecif chemical other spec place	1
U40By00	[X]Pois/exp ?intent to other gas/vapour other spec place	1
U202.14	[X]Overdose - flurazepam	1
U4y00	[X]Other specified events, undetermined intent	1
U4y0.00	[X]Other specified event undetermind intent occurrn at home	1
U4y3.00	[X]Oth specif event undetermin intent occ sport/athlet area	1
Eu15000	[X]Mnt/beh dis due oth stim inc caffein: acute intoxication	1
Eu18000	[X]Mental & behav dis due vol solvents: acute intoxication	1
Eu17000	[X]Mental & behav dis due to use tobacco: acute intoxication	1
Eu11000	[X]Mental & behav dis due to use opioids: acute intoxication	1
Eu14000	[X]Mental & behav dis due to use cocaine: acute intoxication	1
Eu10000	[X]Mental & behav dis due to use alcohol: acute intoxication	1
Eu13000	[X]Mental & behav dis due seds/hypntcs: acute intoxication	1
Eu16000	[X]Mental & behav dis due hallucinogens: acute intoxicatn	1
Eu12000	[X]Mental & behav dis due cannabinoids: acute intoxication	1
Eu1A000	[X]Ment behav dis due use crack cocaine: acute intoxication	1
U3911	[X]Intentionally shot with shotgun	1
U3811	[X]Intentionally shot with handgun	1
U41z.00	[X]Hangng strangult+suffoct undet intent occ unspecif place	1
U4B0.00	[X]Fallng jumpng/push frm high place undet intent occ home	1
U8100	[X]Evid of alcohol involv determind by level of intoxication	1
U4D1.00	[X]Crashng of motor vehicle undeterm intent resident instit	1
U466.00	[X]Contct wth explosiv materl undet intnt indust/constr area	1
U4A6.00	[X]Contct wth blunt obj undet intent occ industr/constr area	1
U4600	[X]Contact with explosive material, undetermined intent	1
U4Ay.00	[X]Contact with blunt obj undeter intent occ oth specif plce	1
U1AC.11	[X]Accidental poisoning with weedkiller	1
U1A2.13	[X]Accidental poisoning with temazepam	1
U1A2.11	[X]Accidental poisoning with sleeping tablets	1
U1AC.12	[X]Accidental poisoning with paraquat	1
U1A0.11	[X]Accidental poisoning with paracetamol	1
U1A2.15	[X]Accidental poisoning with nitrazepam	1
U1A0.12	[X]Accidental poisoning with ibuprofen	1
U1A5.11	[X]Accidental poisoning with heroin	1
U1A2.12	[X]Accidental poisoning with diazepam	1
U1A2.16	[X]Accidental poisoning with benzodiazepine	1
U1A2.17	[X]Accidental poisoning with barbiturate	1
U1A0.13	[X]Accidental poisoning with aspirin	1
U1A4.11	[X]Accidental poisoning with antidepressant	1
U1A4.12	[X]Accidental poisoning with amitriptyline	1
U1A4.13	[X]Accidental poisoning with SSRI	1
U1AA.11	[X]Accidental poisoning from glue solvent	1
U1AD.00	[X]Accidental poisoning by and exposure to amfetamine	1
U1A00	[X]Accidental poisoning by + exposure to noxious substances	1
U1A12	[X]Accidental drug overdose / other poisoning	1

Read code	Description	Number of studies
U1A11	[X]Accidental drug / other poisoning	1
U1AB.11	[X]Accidental carbon monoxide poisoning	1
U1Ay.00	[X]Accident poisoning/exposure to unspecif chemical	1
U1A2.00	[X]Accident poisoning/exposure to sedative hypnotic	1
U1A4.00	[X]Accident poisoning/exposure to psychotropic drug	1
U1AC.00	[X]Accident poisoning/exposure to pesticide	1
U1AB.00	[X]Accident poisoning/exposure to other gas/vapour	1
U1A7.00	[X]Accident poisoning/exposure to oth autonomic drug	1
U1A0.00	[X]Accident poisoning/exposure to nonopioid analgesic	1
U1A5.00	[X]Accident poisoning/exposure to narcotic drug	1
U1A6.00	[X]Accident poisoning/exposure to hallucinogen	1
U1A3.00	[X]Accident poisoning/exposure to antiparkinson drug	1
U1A1.00	[X]Accident poisoning/exposure to antiepileptic	1
U1A9.00	[X]Accident poisoning/exposure to alcohol	1
U1AD000	[X]Accident poisoning by and exposure to amphetamine - home	1
U1Ay700	[X]Accident poison/exposure to unspecif chemical on farm	1
U1Ay000	[X]Accident poison/exposure to unspecif chemical at home	1
U1A2000	[X]Accident poison/exposure to sedative hypnotic at home	1
U1A4000	[X]Accident poison/exposure to psychotropic drug at home	1
U1AC700	[X]Accident poison/exposure to pesticide on farm	1
U1AC000	[X]Accident poison/exposure to pesticide at home	1
U1A8.00	[X]Accident poison/exposure to other/unspec drug/medicament	1
U1AB700	[X]Accident poison/exposure to other gas/vapour on farm	1
U1AB000	[X]Accident poison/exposure to other gas/vapour at home	1
U1A8000	[X]Accident poison/exposure to oth/unsp drug/medicam home	1
U1A7000	[X]Accident poison/exposure to oth autonomic drug at home	1
U1A0000	[X]Accident poison/exposure to nonopioid analgesic at home	1
U1A5000	[X]Accident poison/exposure to narcotic drug at home	1
U1A1000	[X]Accident poison/exposure to antiepileptic at home	1
U1A9000	[X]Accident poison/exposure to alcohol at home	1
U1AA.00	[X]Accid poison/exposure to organ solvent,halogen hydrocarb	1
U1Ay500	[X]Accid poison/expos unspecif chemical trade/service area	1
U1Ayz00	[X]Accid poison/expos to unspecif chemical unspecif place	1
U1Ay100	[X]Accid poison/expos to unspecif chemical at res institut	1
U1A2z00	[X]Accid poison/expos to sedative hypnotic unspecif place	1
U1A4100	[X]Accid poison/expos to psychotropic drug at res institut	1
U1ABz00	[X]Accid poison/expos to other gas/vapour unspecif place	1
U1A8100	[X]Accid poison/expos to oth/unsp drug/medicam res institut	1
U1A8z00	[X]Accid poison/expos to oth/unsp drug/medic unspecif place	1
U1A7z00	[X]Accid poison/expos to oth autonomic drug unspecif place	1
U1A0z00	[X]Accid poison/expos to our autoriorino drug drispesii place	1
U1A5z00	[X]Accid poison/expos to narcotic drug unspecif place	1
U1A9z00	[X]Accid poison/expos to alcohol unspecif place	1
U1AA000	[X]Accid poison/expos organ solvent,halogen hydrocarb, home	1
U1A3500	[X]Accid poison/expos organ solvent, hardeger riyarecard, nome	1
U1A9500	[X]Accid poison/expos alcohol trade/service area	1
U1A9400	[X]Accid poison/expos alcohol in street/highway	1
U1Ay200	[X]Acc poison/expos unspecif chemical school/pub admin area	1
U1A4200	[X]Acc poison/expos unspecir chemical school/pub admin area [X]Acc poison/expos psychotropic drug school/pub admin area	1
U1AA100	[X]Acc poison/expos psychotropic drug school/pub admin area [X]Acc poison/expos org solvent,halogen hydrocarb,res instit	1
U1A9200	[X]Acc poison/expos org solvent, halogen hydrocarb, res instit	1
U1ADz00	[X]Acc poison by and exposure to amphetamine - unspec places	1
Sy00	[X] Injury and poisoning classification terms	1
Oy00	[7] Injury and poisoning diasonication terms	ı

		Number of
Read code	Description	studies
U60F412	[X] Adverse reaction to acetylcysteine	1
ZV15600	[V]Personal history of poisoning	1
ZV4C400	[V]Occupational exposure to toxic agents in agriculture	1
ZV71A00	[V]Obs for suspected toxic effect from ingested substance	1
SLC7100	Zinc salt poisoning	1
SM01100	Wood alcohol causing toxic effect	1
SLEz.00	Water, mineral or uric acid metabolism poisoning NOS	1
SLE00	Water, mineral and urate metabolism poisoning	1
SL42300	Warfarin sodium poisoning	1
SL42400	Warfarin poisoning	1
SL35z00	Vitamin poisoning NOS	1
SL35.00	Vitamin poisoning NEC	1
SL35100	Vitamin D poisoning	1
SL35000	Vitamin A poisoning	1
SL44300	Urokinase poisoning	1
SLE7.00	Uric acid drug poisoning	1
SLE7.11	Urate metabolism drug poisoning	1
SM9z.00	Unspecified substance causing toxic effect NOS	1
SL50000	Unspecified opium poisoning	1
SL30400	Tripelennamine poisoning	1
SL60100 SL92200	Trimethadione poisoning	1
SL92200 SM23100	Trifluperidol poisoning	
SIVI23100 SL90300	Trichloroethylene causing toxic effect Trazodone poisoning	1
SL90300 SL95z00	Tranquilliser poisoning NOS	1
SL95200 SL911	Tranquilliser poisoning Tranquilliser poisoning	1
TE57.00	Toxic reactions caused by other plants	1
F036200	Toxic encephalitis due to thallium	1
F036100	Toxic encephalitis due to mercury	1
F036000	Toxic encephalitis due to lead	1
SMC00	Toxic effect of tobacco and nicotine	1
SM57.00	Toxic effect of tin and its compounds	1
SM9A.00	Toxic effect of rodenticides	1
SMX00	Toxic effect of paints and dyes, NEC	1
SM9X.00	Toxic effect of nitroglycerin & oth nitric acids & ester	1
SM79.00	Toxic effect of hydrogen sulfide	1
SM15.00	Toxic effect of homologues of benzene	1
SM98.00	Toxic effect of herbicides and fungicides	1
SMB00	Toxic effect of formaldehyde	1
SM78.00	Toxic effect of fluorine gas and hydrogen fluoride	1
SM23200	Toxic effect of chloroform	1
SM7A.00	Toxic effect of carbon dioxide	1
SLG7.00	Topical dental drug poisoning	1
SL85.00	Topical and infiltration anaesthetic agent poisoning	1
SL16200	Tiabendazole poisoning	1
SL27.00	Thyroid hormone and thyroid derivatives poisoning	1
SL27z00	Thyroid hormone and thyroid derivative poisoning NOS	1
SL27300	Thyroglobulin poisoning	1
SL91400	Thioridazine poisoning	1
SLE1100	Theophylline poisoning	1
SL04000	Tetracycline poisoning	1
SL04z00	Tetracycline group poisoning NOS	1
SL04.00	Tetracycline group poisoning	1

Read code	Description	Number of
SM23000	Tetrachloroethylene causing toxic effect	studies 1
SL85300	Tetracaine poisoning	1
SL21300	Testosterone poisoning	1
SLF5200	Terpin hydrate poisoning	1
SL3z.00	Systemic agent poisoning NOS	1
SLB2.00	Sympathomimetic poisoning	1
SM31200	Sulphuric acid causing toxic effect	1
SM73.00	Sulphur dioxide causing toxic effect	1
SL1x400	Sulphone poisoning	1
SL10.00	Sulphonamide poisoning	1
SL10200	Sulfamethoxazole poisoning	1
SL10000	Sulfadiazine poisoning	1
1BD4.00	Suicide risk	1
ZRn3.00	Suicide intent score subscale - attempt circumstances	1
SN47100	Suffocation by strangulation	1
SL06300	Streptomycin poisoning	1
SL44200	Streptokinase poisoning	1
SL44200 SL97.11	Stimulant poisoning	1
SM2z.00	Solvents causing toxic effect NOS	1
SLC7000	Sodium morrhuate poisoning	1
SM32200	Sodium hydroxide causing toxic effect	1
SM90100	Sodium rydroxide causing toxic effect	1
SM96.00		
	Soap and detergent causing toxic effect	1
SM96.12	Soap - toxic effect	1
SLF1.00	Smooth muscle relaxant poisoning	1
SL7z.11	Sleeping drug poisoning	1
SLF2.00	Skeletal muscle relaxant poisoning	1
ZX100	Self-injurious behaviour	1
ZX00 ZX11	Self-harm	1
SL712	Self-damage Sedative poisoning	1
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SL7z.00 SL700	Sedative and hypnotic drug poisoning NOS	1
	Sedative and hypnotic drug poisoning	
SL70500	Secobarbital poisoning Salicylic acid salt poisoning	1
SL51100 SL51z00	Salicylic acid salit poisoning Salicylate poisoning NOS	1
SL51200 SL51.00	Salicylate poisoning NOS Salicylate poisoning	1
SLF7100	Salbutamol poisoning	1
ZX112	SIB - Self-injurious behaviour	1
SM02200	Rubbing alcohol causing toxic effect	
SL06200	Rifampicin poisoning	1
SL00200 SLF12	Respiratory system drug poisoning	1
SLF12 SL14500	Quinine poisoning	1
SLT4300 SLC0300	Quinidine poisoning  Quinidine poisoning	_
SL14400	Pyrimethamine poisoning	1
SL53.00	Pyrazole derivative poisoning	1
SL93.00 SL9z.00	Psychotropic agent poisoning NOS	1
SL92.00 SL900	Psychotropic agent poisoning NOS	1
SL900 SL97.00	Psychostimulant poisoning  Psychostimulant poisoning	1
SL97.00 SL96400	Psilocybin poisoning	1
SL96400 SL45100	Protamine sulphate poisoning	_
SL45100 SLF0200	Prostaglandin poisoning  Prostaglandin poisoning	1
SLC0200	Propranolol poisoning	1

Read code	Description	Number of studies
SM70100	Propane causing toxic effect	1
SL91300	Promazine poisoning	1
SL14300	Proguanil poisoning	1
SL22300	Progestogen poisoning	1
SL91200	Prochlorperazine poisoning	1
SLC0100	Procainamide poisoning	1
SL6x000	Primidone poisoning	1
8G61.00	Potential suicide care	1
SM32100	Potassium hydroxide causing toxic effect	1
SM90000	Potassium cyanide causing toxic effect	1
SL25.00	Posterior pituitary hormone poisoning	1
SL94600	Poisoning by temazepam	1
SLD3100	Poisoning by saline and osmotic laxatives	1
SL300	Poisoning by primarily systemic agents	1
SLX00	Poisoning by oth & unspec antipsychotics & neuroleptics	1
SL29.00	Poisoning by mineralocorticoids and their antagonists	1
SLD0200	Poisoning by histamine H2-receptor antagonists	1
SL20300	Poisoning by glucocorticoids and synthetic analogues	1
SL16	Poisoning by drug and biological substances	1
SL6x100	Poisoning by carbamazepine	1
SLC9.00	Poisoning by calcium-channel blockers	1
SLC6400	Poisoning by angiotensin-converting-enzyme inhibitors	1
SL00	Poisoning	1
SM82.12	Plants - toxic effect	1
1BDB.00	Plans for deliberate self harm without intent	1
SL16100	Piperazine poisoning	1
SLB0200	Pilocarpine poisoning	1
SM7y000	Phosgene causing toxic effect	1
SM93500	Phosdrin causing toxic effect	1
SL61000	Phenytoin poisoning	1
SL53100	Phenylbutazone poisoning	1
SLB3000	Phenoxybenzamine poisoning	1
SL91z00	Phenothiazine poisoning NOS	1
SL91.00	Phenothiazine poisoning	1
SLD1200	Phenolphthalein poisoning	1
SM30000	Phenolphthalein poisoning Phenol causing toxic effect Phenobarbital poisoning Phenindione poisoning	1
SL70400	Phenobarbital poisoning	1
SL42200	· · ·	1
SL52200	Phenacetin poisoning	1
SLH4.00	Pharmaceutical excipient poisoning	1
SM1z.00	Petroleum product causing toxic effect NOS	1
SM100	Petroleum product causing toxic effect	1
SM14.00	Petroleum ether causing toxic effect	1
SM10.00	Petrol unspecified causing toxic effect	1
SL86.00	Peripheral nerve and plexus-blocking anaesthetic poisoning	1
SL70300	Pentobarbitone poisoning	1
SL34000	Penicillinase poisoning	1
SL00z00	Penicillin poisoning NOS	1
SL00.00	Penicillin poisoning	1
SL00300	Penicillin G poisoning	1
E022.00	Pathological drug intoxication	1
E014.00	Pathological alcohol intoxication	1
SM93300	Parathion causing toxic effect	1

SLB0.00 Parasympathomimetic poisoning 1 SL60000 Paramethadione poisoning 1 SL60000 Paramethadione poisoning 1 SL52100 Paraffin wax causing toxic effect 1 SL52100 Para-aminosalicytic acid poisoning 1 SL52100 Para-aminosalicytic acid poisoning 1 SL54100 Papa-aminosalicytic acid poisoning 1 SLD4010 Paparip poisoning 1 SLD4000 Paparetine poisoning 1 SLD4000 Para-eatin poisoning 1 SLD4000 Para-eatin poisoning 1 SLD4000 Para-eatin poisoning 1 SL22200 Oxymetholone poisoning 1 SL22200 Ovarian hormone poisoning NOS 1 SL22200 Ovarian hormone poisoning NOS 1 SL22.00 Ovarian hormone poisoning 1 SLD5.00 Other twasodilator poisoning 1 SLD5.00 Other twasodilator poisoning 1 SLD5.00 Other toxic agent polyneuropathy 1 SL39.00 Other substance causing toxic effect 1 SL39.00 Other substance causing toxic effect 1 SL39.00 Other solvents causing toxic effect 1 SL09.00 Other solvents causing toxic effect NOS 1 SM2,00 Other solvents causing toxic effect 1 SLG6.00 Other sin and mucous membrane drug poisoning 1 SLFy.00 Other skin and mucous membrane drug poisoning 1 SLFy.00 Other skin and mucous membrane drug poisoning 1 SLFy.00 Other skin and mucous membrane drug poisoning 1 SLFy.00 Other skin and mucous membrane drug poisoning 1 SLFy.00 Other skin and mucous membrane drug poisoning 1 SLFy.00 Other skin and mucous membrane drug poisoning 1 SLFy.00 Other skin and mucous membrane drug poisoning 1 SLFy.00 Other skin and mucous membrane drug poisoning 1 SLFy.00 Other skin and mucous membrane drug poisoning 1 SLFy.00 Other metals causing toxic effect NEC 1 SM89.00 Other metals causing toxic effect NEC 1 SM89.00 Other sprychotropic agent poisoning 1 SLFy.00 Other muscle drug poisoning 1 SLFy.00 Other muscl	Dood oods	Description	Number of
SL60000	Read code	Description	
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SL1y.00 Other anti-infective poisoning 1		· · ·	1
	SL1y.00	Other anti-infective poisoning	1

Read code	Description	Number of studies
SLH00	Other and unspecified drug and medicament poisoning	3tudies 1
SL5yz00	Other analgesic or antipyretic poisoning NOS	1
SL5y.00	Other analgesic and antipyretic poisoning	1
SM0y.00	Other alcohol causing toxic effect	1
SM93z00	Organophosphate and carbamate causing toxic effect NOS	1
SM93.00	Organophosphate and carbamate causing toxic effect	1
SLF1100	Orciprenaline poisoning	1
SL22000	Oral contraceptive poisoning	1
SL50.12	Opiate poisoning	1
SL50z00	Opiate or narcotic poisoning NOS	1
SLA1z00	Opiate antagonist poisoning NOS	1
SLA1.00	Opiate antagonist poisoning	1
SL50.00	Opiate and narcotic poisoning	1
SL03100	Oleandomycin poisoning	1
SL22100	Oestrogen poisoning	1
SL01200	Nystatin poisoning	1
SM8z.00	Noxious substance eaten as food causing toxic effect NOS	1
SM800	Noxious substance eaten as food causing toxic effect	1
SLB2100	Noradrenalin poisoning	1
SM00	Nonmedicinal agent causing toxic effects	1
SL5xz00	Non-narcotic analgesic poisoning NOS	1
SMz00	Non-medicinal agent causing toxic effect NOS	1
SL82100	Nitrous oxide poisoning	1
SM72.00	Nitrogen oxides causing toxic effect	1
SM72000	Nitrogen dioxide causing toxic effect	1
SL1y100	Nitrofuran derivative poisoning	1
SM31100	Nitric acid causing toxic effect	1
SL94500	Nitrazepam poisoning	1
SLC4100	Nitrate poisoning	1
SM5y300	Nickel compounds causing toxic effect	1
SL50.11	Narcotic poisoning	1
SL54300	Naproxen poisoning	1
SL21100	Nandrolone poisoning	1
SM81.00	Mushrooms causing toxic effect	1
SLF11	Muscle drug poisoning	1
SL50500	Morphine poisoning	1
1BD2.00	Morbid thoughts	1
SL90200	Monoamine oxidase inhibitor poisoning	1
1BD6.00	Moderate suicide risk	1
SL76.00	Mixed sedative poisoning NEC	1
SL07400	Mitomycin poisoning	1
SL04200	Minocycline poisoning	1
SM01.00	Methyl alcohol causing toxic effect	1
SL80100	Methocarbamol poisoning	1
SL74.00	Methaqualone compound poisoning	1
SM01000	Methanol causing toxic effect	1
SL50200	Methadone poisoning	1
SM5z.00	Metals causing toxic effect NOS	1
SL12300	Mercury compound poisoning  Mercury couping toxic effect	1
SM50.00	Mercury causing toxic effect	1
SL31600 SL95100	Mercaptopurine poisoning Meprobamate poisoning	1 1
SL50400	Meperidine (pethidine) poisoning	1
3130400	Meheurine (herrinnine) hoisoninid	Į

Read code	Description	Number of
SL54400	Mefenamic acid poisoning	studies 1
SL13	Medicinal poisoning	1
SL94400	Medazepam poisoning	1
SL96200	Marihuana poisoning	1
SM93200	Malathion causing toxic effect	1
SLD0100	Magnesium trisilicate poisoning	1
SLD3000	Magnesium sulphate poisoning	1
T180.00	MVTA - accid poisoning - exhaust gas of moving motor vehicle	1
SL90211	MAOI - monoamine oxidase inhibitor poisoning	1
SL96100	Lysergide (LSD) poisoning	1
1BD7.00	Low suicide risk	1
SL94300	Lorazepam poisoning	1
SLG2.12	Local detergent poisoning	1
SLG2.11	Local astringent poisoning	1
SLG2.00	Local astringent and detergent poisoning	1
SLG0.00	Local anti-infective and anti-inflammatory poisoning	1
SL8z.00	Local anaesthetic poisoning NOS	1
SLA0000	Lobeline poisoning	1
44W8100	Lithium level high - toxic	1
SM70.00	Liquefied petrol gas causing toxic effect	1
SL85100	Lidocaine poisoning	1
SL27100	Levothyroxine sodium poisoning	1
SL27100 SL6y200	Levodopa (L-dopa) poisoning	1
SL12200	Lead compound poisoning	1
SM4z.00	· · · · · · · · · · · · · · · · · · ·	1
SM400	Lead compound causing toxic effect NOS  Lead and lead compounds causing toxic effect	1
SM41000	Lead acetate causing toxic effect	1
TH02.00	Late effects of accidental poisoning	1
SC00	Late effects injury/poisoning/toxic effects/external causes	1
SC41.00	Late effect of poison due to nonmedical substance	1
SC40.00	Late effect of poison drug/medicament/biological substance	1
SC41.11	Late effect of poison	1
SCz00	Late effect injury/poison/toxin effect/external cause NOS	1
SL83000	Ketamine poisoning	1
SM12.00	Kerosene causing toxic effect	1
SLG4.12	Keratoplastic poisoning	1
SL1x200	Isoniazid poisoning	1
SLD1.00	Irritant cathartic poisoning	1
SM5y200	Iron compounds causing toxic effect	1
SL40z00	Iron and iron compound poisoning NOS	1
SL40200 SL40.00	Iron and iron compound poisoning	1
SL28000	lodide poisoning	1
SP35000	Intoxication by serum	1
E250.14	Intoxication - alcohol	1
1BDC.00	Intent of deliberate self harm with detailed plans	1
SL23.00	Insulins and antidiabetic poisoning	1
SL23400	Insulin poisoning	1
TN00	Injury undetermined whether accidentally/purposely inflicted	1
TNz00	Injury undetermined whether accidentally purposely inflicted NOS	1
TM21.00	Injury due to legal intervention by poisoning by gas	1
Sz00	Injury and poisoning NOS	1
S00	Injury and poisoning NOS	1
TN3y.00	Injury and poisoning Injury ?accidental, other means of hang/strangle/suffocate	1
1140y.00	injury racolactical, other means of hangistrangle/sunocate	•

Read code	Description	Number of studies
TN900	Injury ?accidental, late effects	1
TN3z.00	Injury ?accidental, hanging/strangulation/suffocation NOS	1
TN70.00	Injury ?accidental, fall from residential premises	1
TN71.00	Injury ?accidental, fall from other man-made structure	1
TN72.00	Injury ?accidental, fall from natural site	1
TN7z.00	Injury ?accidental, fall from high place NOS	1
TN700	Injury ?accidental, fall from high place	1
TN400	Injury ?accidental, drowning	1
TN61.00	Injury ?accidental, by stabbing instrument	1
TN51.00	Injury ?accidental, by shotgun	1
TN82.00	Injury ?accidental, by scald	1
TN8y.00	Injury ?accidental, by other specified means	1
TN800	Injury ?accidental, by other means	1
TN54.00	Injury ?accidental, by other firearm	1
TN8z.00	Injury ?accidental, by means NOS	1
TN80100	Injury ?accidental, by lying before moving object	1
TN80.00	Injury ?accidental, by jumping or lying before moving object	1
TN80000	Injury ?accidental, by jumping before moving object	1
TN52.00	Injury ?accidental, by hunting rifle	1
TN50.00	Injury ?accidental, by handgun	1
TN500	Injury ?accidental, by firearms and explosives	1
TN5z.00	Injury ?accidental, by firearm or explosive NOS	1
TN83.00	Injury ?accidental, by extremes of cold	1
TN55.00	Injury ?accidental, by explosive	1
TN84.00	Injury ?accidental, by electrocution	1
TN6z.00	Injury ?accidental, by cutting or stabbing instrument NOS	1
TN60.00	Injury ?accidental, by cutting instrument	1
TN600	Injury ?accidental, by cutting and stabbing instruments	1
TN85.00	Injury ?accidental, by crashing of motor vehicle	1
TN86.00	Injury ?accidental, by crashing of aircraft	1
TN87.00	Injury ?accidental, by caustic substances, except poisoning	1
TN81.00	Injury ?accidental, by burns or fire	1
SL54100	Indometacin poisoning	1
SL31.12	Immunosuppressive poisoning	1
SL90100	Imipramine poisoning	1
SL54200	Ibuprofen poisoning	1
SL711	Hypnotic poisoning	1
SLC6z00	Hypertensive agent poisoning NOS	1
SLB1200	Hyoscine poisoning	1
SL95000	Hydroxyzine poisoning	1
SL13.11	Hydroxyquinoline poisoning	1
SM31000	Hydrochloric acid causing toxic effect	1
SL61.00	Hydantoin derivative poisoning	1
SL47100	Human fibrinogen poisoning	1
SL2z.00	Hormone or synthetic substitute poisoning NOS	1
SL200	Hormone and synthetic substitute poisoning	1
1BD5.00	High suicide risk	1
SL50100	Heroin poisoning	1
SL42100	Heparin poisoning	1
SL12z00	Heavy metal anti-infective poisoning NOS	1
SL12.00	Heavy metal anti-infective poisoning	1
SL3y000	Heavy metal agonist poisoning	1
1BD00	Harmful thoughts	1

Read code	Description	Number of studies
SL81.00	Halothane poisoning	1
SL92000	Haloperidol poisoning	1
SL96z00	Hallucinogen poisoning NOS	1
SL96.00	Hallucinogen poisoning	1
SLG4.00	Hair treatment poisoning	1
14K0.00	H/O: repeated overdose	1
14K00	H/O: poisoning	1
SL24211	Growth hormone poisoning	1
SL01100	Griseofulvin poisoning	1
SL24100	Gonadotrophin poisoning	1
SL54000	Gold salt poisoning	1
SLDz.00	Gastrointestinal agent poisoning NOS	1
SLD00	Gastrointestinal agent poisoning	1
SM7z.00	Gases, fumes or vapours causing toxic effect NOS	1
SLC3z00	Ganglion-blocker poisoning NOS	1
SLC3.00	Ganglion-blocker poisoning	1
SM03z00	Fusel oil causing toxic effect NOS	1
SLE4100	Furosemide poisoning	1
SM74.00	Freon causing toxic effect	1
SL41000	Folic acid poisoning	1
SL94200	Flurazepam poisoning	1
SL91100	Fluphenazine poisoning	1
SL31500	Fluorouracil poisoning	1
SL1y000	Flucytosine poisoning	1
SL40100	Ferrous sulphate poisoning	1
SL40000	Ferric salt poisoning	1
SLG00	Eye, otorhinolaryngological, skin and dental drug poisoning	1
SLG5z00	Eye drug poisoning NOS	1
SLG5.00	Eye drug poisoning NEC	1
SLG12	Eye drug poisoning	1
SLF5.00	Expectorant poisoning	1
SM00z00	Ethyl alcohol causing toxic effect NOS	1
SM00.00	Ethyl alcohol causing toxic effect	1
SL6y100	Ethopropazine poisoning	1
SL82000	Ether poisoning	1
SM00000	Ethanol causing toxic effect	1
SL1x000	Ethopropazine poisoning Ether poisoning Ethanol causing toxic effect Ethambutol poisoning Ethacrynic acid poisoning	1
SLE4000		1
SL03000	Erythromycin poisoning	1
SL03.00	Erythromycin and macrolide poisoning	1
SLF0000	Ergot alkaloid poisoning	1
E230200	Episodic acute alcoholic intoxication in alcoholism	1
SL34.00	Enzyme poisoning NEC	1
SLG3.00	Emollients, demulcents and protectant poisoning	1
SLD2.00 SLD6.00	Emollient cathartic poisoning	1
	Emetic drug poisoning	1
SLE5.00 SL97200	Electrolyte agent poisoning Ecstasy poisoning	1
SL97200 SLG6.00	Ear, nose and throat drug poisoning NEC	1
SLG6.00 SLz00	Drug, medicament or biological substance poisoning NOS	1
SL200 SL12	Drug poisoning	1
SL12 SL04100	Doxycycline poisoning	1
SLE11	Diuretic poisoning	1
OLL 1 1	Diarotto poisoning	1

Read code	Description	Number of
SLC4000	Dipyridamole poisoning	studies 1
SL30100	Diphenhydramine poisoning	1
SLD2000	Dioctyl sulphosuccinate poisoning	1
SM02000	Dimethyl carbinol causing toxic effect	1
SL50700	Dihydrocodeine poisoning	1
SLC1000	Digoxin poisoning	1
SLD4.00	Digestant poisoning	1
SL94100	Diazepam poisoning	1
SLHy100	Diagnostic agent NEC, poisoning	1
SL50600	Dextropropoxyphene poisoning	1
SLF4000	Dextromethorphan poisoning	1
SM96.11	Detergent toxic effect	1
SM00100	Denatured alcohol causing toxic effect	1
ZX113	Deliberate self-harm	1
SL07300	Daunorubicin poisoning	1
SL07100	Dactinomycin poisoning	1
SM92200	DDT causing toxic effect	1
SL31400	Cytarabine poisoning	1
SL31300	Cyclophosphamide poisoning	1
SLC5000	Cyclandelate poisoning	1
SM90z00	Cyanides causing toxic effect NOS	1
SM90.00	Cyanides and hydrocyanic acid causing toxic effect	1
ZX13100	Cutting own wrists	1
SL42000	Coumarin poisoning	1
SL20000	Cortisone derivative poisoning	1
SL24000	Corticotropin poisoning	1
SM300	Corrosives/acids/caustic alkalis causing toxic effect	1
SM3z.00	Corrosive/acid/caustic alkali causing toxic effect NOS	1
SM30z00	Corrosive aromatics causing toxic effect NOS	1
SLC4.00	Coronary vasodilator poisoning	1
SM5y100	Copper salts causing toxic effect	1
E230100	Continuous acute alcoholic intoxication in alcoholism	1
SL22200	Combined oestrogen and progesterone poisoning	1
SLE7100	Colchicine poisoning	1
SL50300	Codeine (methylmorphine) poisoning	1
SL85000	Cocaine poisoning	1
SLC6000	Clonidine poisoning	1
SM56.00	Chromium causing toxic effect	1
SLB0z00	Cholinergic poisoning NOS	1
SLB0.11	Cholinergic poisoning	1
SL91000	Chlorpromazine poisoning	1
SL30000	Chlorphenamine poisoning	1
SL14000	Chloroquine poisoning	1
SM75100	Chloroacetophenone causing toxic effect	1
SM76.00	Chlorine gas causing toxic effect	1
SM92.00	Chlorinated hydrocarbon causing toxic effect	1
SL94000	Chlordiazepoxide poisoning	1
SL02000	Chloramphenicol poisoning	1
SL31200	Chlorambucil poisoning	1
SL71.00	Chloral hydrate poisoning	1
SL13000	Chiniofon poisoning	1
SLH2.11	Chelating agent poisoning	1
SLAz.00	Central nervous system stimulant poisoning NOS	1

Read code	Description	Number of studies
SLA00	Central nervous system stimulant poisoning	1
SL80z00	Central nervous system muscle-tone depressant poisoning NOS	1
SL80.00	Central nervous system muscle-tone depressant poisoning	1
SL800	Central nervous system depressants and anaesthetic poisoning	1
SLH0000	Central appetite depressant poisoning	1
SL05000	Cefalexin poisoning	1
SM32z00	Caustic alkalis causing toxic effect NOS	1
SM32.00	Caustic alkalis causing toxic effect	1
Tz00	Causes of injury and poisoning NOS	1
T00	Causes of injury and poisoning	1
T811	Cause of overdose - accidental	1
SLC00	Cardiovascular drug poisoning	1
SLCz.00	Cardiovascular agent poisoning NOS	1
SLC0.00	Cardiac rhythm drug poisoning	1
SLC1.00	Cardiac glycoside poisoning	1
SM21.00	Carbon tetrachloride causing toxic effect	1
SM600	Carbon monoxide causing toxic effect	1
SM93000	Carbaryl causing toxic effect	1
SL80000	Carbamate poisoning	1
SLB1400	Caramiphen poisoning	1
SL96000	Cannabis poisoning	1
SL97100	Caffeine poisoning	1
SM55.00	Cadmium causing toxic effect	1
SM70000	Butane causing toxic effect	1
SL70200	Butabarbitone poisoning	1
SL31100	Busulfan poisoning	1
SL07200	Bleomycin poisoning	1
SL11	Biological substance poisoning	1
SL23100	Biguanide poisoning	1
SLC0400	Beta blocker poisoning	1
SM53.00	Beryllium causing toxic effect	1
SM82.00	Berries and other plants causing toxic effect	1
SM82.11	Berries - toxic effect	1
SLE3000	Benzothiazide poisoning	1
SL94z00	Benzodiazepine poisoning NOS	1
SL94.00	Benzodiazepine poisoning	1
SM20.00	Benzodiazepine poisoning NOS Benzodiazepine poisoning Benzene causing toxic effect Barbiturate poisoning NOS	1
SL70z00	Barbiturate poisoning NOS	1
SL70.00	Barbiturate poisoning	1
SL70100	Barbitone poisoning	1
SL31000	Azathioprine poisoning	1
SLB00	Autonomic nervous system drug poisoning	1
SLB1000	Atropine poisoning	1
1BD8.00	At risk of DSH - deliberate self harm	1
TL22.00	Assault by poisoning by other gases or vapours	1
TL20.00	Assault by poisoning by drugs or medicines	1
TL2z.00	Assault by poisoning NOS	1
TL200	Assault by poisoning  Assault by poisoning	1
SL51000	Aspirin poisoning	1
SL11.00	Arsenical anti-infective poisoning	1
SM51.00	Arsenic causing toxic effect	1
SL52z00	Aromatic analgesic poisoning NOS	1
SL52200 SL52.00	Aromatic analgesic poisoning NEC	1
OLUZ.00	Atomatic analycolc polociling NEO	Į.

Read code	Description	Number of studies
SLF4z00	Antitussive poisoning NOS	1
SL28.00	Antithyroid agent poisoning	1
SL54z00	Antirheumatic poisoning NOS	1
SL54.00	Antirheumatic poisoning	1
SL5y200	Antipyretic poisoning, NEC	1
SL512	Antipyretic poisoning	1
SL6y.00	Antiparkinsonism drug poisoning	1
SL6yz00	Antiparkinsonian drug poisoning NOS	1
SL31z00	Antineoplastic or immunosuppressive poisoning NOS	1
SL07.00	Antineoplastic antibiotic poisoning	1
SL31.00	Antineoplastic and immunosuppressive poisoning	1
SL14z00	Antimalarial drug poisoning NOS	1
SL14.00	Antimalarial drug poisoning	1
SLC2.00	Antilipaemic and antiarteriosclerotic poisoning	1
SL30.13	Antihistamine poisoning	1
SL01.00	Antifungal antibiotic poisoning	1
SL30.12	Antiemetic poisoning	1
SLD5z00	Antidiarrhoeal poisoning NOS	1
SLD5.00	Antidiarrhoeal poisoning	1
SL6xz00	Anticonvulsant poisoning NOS	1
SL611	Anticonvulsant poisoning	1
SL6z.00	Anticonvulsant or antiparkinsonian drug poisoning NOS	1
SL600	Anticonvulsant and antiParkinsonian drug poisoning	1
SL42z00	Anticoagulant poisoning NOS	1
SL42.00	Anticoagulant poisoning	1
SL45z00	Anticoagulant agonist poisoning NOS	1
SL45.00	Anticoagulant agonist poisoning	1
SLB0100	Anticholinesterase poisoning	1
SL0z.00	Antibiotic poisoning NOS	1
SL000	Antibiotic poisoning	1
SLF7z00	Antiasthmatic poisoning NOS	1
SL30.00	Antiallergic and antiemetic drug poisoning	1
SL1z.00	Anti-infective poisoning NOS	1
SLD0.00	Anti-gastric acid drug poisoning	1
SLF6.00	Anti-common cold drug poisoning	1
SL16.00	Anthelmintic drug poisoning	1
SL24.00	Anterior pituitary hormone poisoning	1
SLD0z00	Antacid drug poisoning NOS	1
SLD0.11	Antacid drug poisoning	1
SL21.12	Androgen poisoning	1
SL21z00	Androgen or anabolic poisoning NOS	1
SL21.00	Androgen and anabolic poisoning	1
SL5z.00	Analgesic, antipyretic or antirheumatic poisoning NOS	1
SL500	Analgesic, antipyretic and antirheumatic drug poisoning	1
SL5y100	Analgesic poisoning, NEC	1
SL511	Analgesic poisoning	1
SLA0.00	Analeptic poisoning	1
SL811	Anaesthetic poisoning	1
SL21.11	Anabolic steroid poisoning	1
SM03000	Amyl alcohol causing toxic effect	1
SL00000 SL01000	Ampicillin poisoning Amphotericin B poisoning	1
SL70000	Amphotencin B poisoning Amobarbital poisoning	1
3L1 0000	Amobarbital polsoning	ı

Read code	Description	Number of
SL90000	Amitriptyline poisoning	studies 1
SL90000 SLF7000	Aminophylline poisoning  Aminophylline poisoning	1
SL97000	Amfetamine poisoning	1
SL6y000	Amantadine poisoning	1
SLD0000	Aluminium hydroxide poisoning	1
SLE7000	Allopurinol poisoning	1
SLH3.00	Alcohol deterrent poisoning	1
E230.11	Alcohol dependence with acute alcoholic intoxication	1
SM0z.00	Alcohol causing toxic effect NOS	1
SM000	Alcohol causing toxic effect	1
SL400	Agents affecting blood constituents, causing poisoning	1
TJF5100	Adverse reaction to ipecacuanha	1
TJF5000	Adverse reaction to acetylcysteine	1
SLC8000	Adrenochrome poisoning	1
SLB2.11	Adrenergic poisoning	1
SL20z00	Adrenal cortico-steroid poisoning NOS	1
SL20.00	Adrenal cortico-steroid poisoning	1
761H300	Administration of activated charcoal	1
E230000	Acute alcoholic intoxication, unspecified, in alcoholism	1
E230z00	Acute alcoholic intoxication in alcoholism NOS	1
E230.00	Acute alcoholic intoxication in alcoholism	1
SM31z00	Acids causing toxic effect NOS	1
SM31.00 SL32.00	Acids causing toxic effect	1
SL32.00 SLB0000	Acidifying agent poisoning Acetylcholine poisoning	1
SLB0000 SM2y000	Acetone causing toxic effect	1
SL23000	Acetohexamide poisoning	1
SLE2000	Acetazolamide poisoning	1
T80yz00	Accidental poisoning-oth analgesic,antipyretic,antirheum NOS	1
T830z00	Accidental poisoning- phenothiazine-based tranquillisers NOS	1
T832z00	Accidental poisoning- benzodiazepine-based tranquilliser NOS	1
T953100	Accidental poisoning from seeds	1
T954.00	Accidental poisoning from other plants	1
T955y00	Accidental poisoning from other fungi	1
T955.00	Accidental poisoning from mushrooms and other fungi	1
T955z00	Accidental poisoning from mushrooms and fungi NOS	1
T955000	Accidental poisoning from mushrooms	1
T9500	Accidental poisoning from foodstuffs and poisonous plants	1
T953z00	Accidental poisoning from berries or seeds NOS	1
T953.00	Accidental poisoning from berries and seeds	1
T953000	Accidental poisoning from berries	1
T937400	Accidental poisoning by zinc phosphide	1
T916300	Accidental poisoning by white washes	1
T885.00	Accidental poisoning by water, mineral, uric acid metab drugs	1
T937300	Accidental poisoning by warfarin	1
T981z00	Accidental poisoning by utility gas NOS	1
T88z.00	Accidental poisoning by unspecified drugs	1
T83z.00	Accidental poisoning by tranquillisers NOS	1
T8300	Accidental poisoning by tranquillisers	1
T930500	Accidental poisoning by toxaphene	1
T964700	Accidental poisoning by thallium compounds	1
T937200	Accidental poisoning by thallium	1
T993.00	Accidental poisoning by tear gas	1

Read code	Description	Number of
T910.00	Accidental poisoning by synthetic detergents and shampoos	studies 1
T941200	Accidental poisoning by synthetic detergents and snampoos  Accidental poisoning by sulphuric acid	1
T991.00	Accidental poisoning by sulphur dioxide	1
T937100	Accidental poisoning by squill and derivatives	1
T92z.00	Accidental poisoning by solvent NOS	1
T96z.00	Accidental poisoning by solid and liquid substances NOS	1
T942000	Accidental poisoning by sodium hydroxide	1
T911.00	Accidental poisoning by soap products	1
T887z00	Accidental poisoning by skin, eye, ENT and dental drug NOS	1
T887000	Accidental poisoning by skin drugs	1
T82z.00	Accidental poisoning by sedatives and hypnotics NOS	1
T903300	Accidental poisoning by secondary propyl alcohol	1
T913000	Accidental poisoning by scouring agents	1
T803z00	Accidental poisoning by salicylates NOS	1
T803.00	Accidental poisoning by salicylates	1
T937z00	Accidental poisoning by rodenticides NOS	1
T937.00	Accidental poisoning by rodenticides	1
T815.00	Accidental poisoning by quinalbarbitone	1
T805.00	Accidental poisoning by pyrazole derivatives	1
T84z.00	Accidental poisoning by psychotropic agents NOS	1
T841400	Accidental poisoning by psilocin	1
T932200	Accidental poisoning by propoxur	1
T980200	Accidental poisoning by propane	1
T830300	Accidental poisoning by promazine	1
T830200	Accidental poisoning by prochlorperazine	1
T881.00	Accidental poisoning by primarily systemic agents	1
T912.00	Accidental poisoning by polishes	1
T965z00	Accidental poisoning by plant foods and fertilisers NOS	1
T965.00	Accidental poisoning by plant foods and fertilisers	1
T965000	Accidental poisoning by plant food	1
T973.00	Accidental poisoning by piped natural gas	1
T938200	Accidental poisoning by phosphine	1
T805100	Accidental poisoning by phenylbutazone	1
T830.00	Accidental poisoning by phenothiazine-based tranquillisers	1
T940011	Accidental poisoning by phenol	1
T814.00	Accidental poisoning by phenobarbitone	1
T804200	Accidental poisoning by phenacetin	1
T920.00	Accidental poisoning by petroleum solvents	1
T923.00	Accidental poisoning by petroleum solids	1
T920200	Accidental poisoning by petroleum naphtha	1
T921.12	Accidental poisoning by petroleum fuels	1
T920z00	Accidental poisoning by petrol solvents NOS	1
T923z00	Accidental poisoning by petrol solids NOS	1
T9200	Accidental poisoning by petrol products	1
T921.00	Accidental poisoning by petrol fuels and cleaners	1
T921z00	Accidental poisoning by petrol fuel or cleaner NOS	1
T921200	Accidental poisoning by petrol	1
T802100	Accidental poisoning by pethidine	1
T813.00	Accidental poisoning by pentobarbitone	1
T80y000	Accidental poisoning by pentazocine	1
T935500	Accidental poisoning by paraquat	1
T923000	Accidental poisoning by paraffin wax	1
T804100	Accidental poisoning by paracetamol	1

Read code	Description	Number of
	Description	studies
T916z00	Accidental poisoning by paint or varnish NOS	1
T887300 T9800	Accidental poisoning by otorhinolaryngological drugs	1
T981.00	Accidental poisoning by other utility gas + carbon monoxide	1
	Accidental poisoning by other utility gas	1
T83yz00	Accidental poisoning by other tranquillisers NOS  Accidental poisoning by other tranquillisers	1
T83y.00 T924z00	Accidental poisoning by other tranquinisers  Accidental poisoning by other solvents NOS	1
T924200	Accidental poisoning by other solvents  Accidental poisoning by other solvents	1
T96y.00	Accidental poisoning by other solid and liquid substances OS	1
T9600	Accidental poisoning by other solid and liquid substances  Accidental poisoning by other solid and liquid substances	1
T82y.00	Accidental poisoning by other solid and liquid substances  Accidental poisoning by other sedatives and hypnotics OS	1
T8200	Accidental poisoning by other sedatives and hypnotics  Accidental poisoning by other sedatives and hypnotics	1
T8400	Accidental poisoning by other securives and hypnotics  Accidental poisoning by other psychotropic agents	1
T916.00	Accidental poisoning by other paints and varnishes	1
T802z00	Accidental poisoning by other paints and variables  Accidental poisoning by other opiates NOS	1
T802.00	Accidental poisoning by other opiates	1
T807.00	Accidental poisoning by other non-narcotic analgesics	1
T900	Accidental poisoning by other non-drug substances	1
T964.00	Accidental poisoning by other metals + compounds and fumes	1
T934.00	Accidental poisoning by other insecticides	1
T99y.00	Accidental poisoning by other gases and vapours OS	1
T99yz00	Accidental poisoning by other gases and vapours NOS	1
T9900	Accidental poisoning by other gases and vapours	1
T95y.00	Accidental poisoning by other foods	1
T901.00	Accidental poisoning by other ethyl alcohol and its products	1
T8500	Accidental poisoning by other drugs acting on nervous system	1
T88y.00	Accidental poisoning by other drugs OS	1
T88yz00	Accidental poisoning by other drugs NOS	1
T8800	Accidental poisoning by other drugs	1
T94y.00	Accidental poisoning by other corrosives and caustics	1
T913z00	Accidental poisoning by other cleaning agents NOS	1
T913.00	Accidental poisoning by other cleaning agents	1
T90y.00	Accidental poisoning by other alcohols	1
T966y00	Accidental poisoning by other adhesives	1
T851.00	Accidental poisoning by oth central nervous syst depressants	1
T80y.00	Accidental poisoning by oth analgesics, antipyretic, antirheum	1
T931z00	Accidental poisoning by organophosphorus insecticides NOS	1
T931.00	Accidental poisoning by organophosphorus insecticides	1
T930.00	Accidental poisoning by organochlorine insecticides	1
T936000	Accidental poisoning by organic mercurials	1
T802300	Accidental poisoning by opium	1
T843100	Accidental poisoning by opiate antagonists	1
T887200	Accidental poisoning by ophthalmological drugs	1
T855100	Accidental poisoning by noradrenalin	1
T807z00	Accidental poisoning by non-narcotic analgesics NOS	1
T916200	Accidental poisoning by non-lead paints	1
T990.00	Accidental poisoning by nitrogen oxides	1
T941100	Accidental poisoning by nitric acid	1
T832500	Accidental poisoning by nitrazepam	1
T964600	Accidental poisoning by nickel compounds	1
T806200	Accidental poisoning by naproxen	1
T886.00	Accidental poisoning by muscle + respiratory system drugs	1
T887100	Accidental poisoning by mucous membrane drugs	1

Read code	Description	Number of studies
T982.00	Accidental poisoning by motor vehicle exhaust gas	1
T802200	Accidental poisoning by morphine	1
T840200	Accidental poisoning by monoamine oxidase inhibitors	1
T933.00	Accidental poisoning by mixtures of insecticides	1
T935400	Accidental poisoning by mixtures herbicides+plant food etc	1
T825.00	Accidental poisoning by mixed sedatives NEC	1
T901100	Accidental poisoning by methylated spirit	1
T938100	Accidental poisoning by methyl bromide	1
T902.00	Accidental poisoning by methyl alcohol	1
T823.00	Accidental poisoning by methaqualone compounds	1
T902000	Accidental poisoning by methanol	1
T801.00	Accidental poisoning by methadone	1
T964z00	Accidental poisoning by metals + compounds and fumes NOS	1
T961000	Accidental poisoning by mercury, unspecified	1
T961z00	Accidental poisoning by mercury, NOS	1
T961200	Accidental poisoning by mercury fumes	1
T961.00	Accidental poisoning by mercury and its compounds and fumes	1
T832400	Accidental poisoning by medazepam	1
T964500	Accidental poisoning by medazepain  Accidental poisoning by manganese and its compounds	1
T931300	Accidental poisoning by manganese and its compounds  Accidental poisoning by malathion	1
T841100	Accidental poisoning by Indiatrion  Accidental poisoning by lysergide, LSD	1
T922.00	Accidental poisoning by hysergide, LSD  Accidental poisoning by lubricating oils	1
T832300	Accidental poisoning by lubricating oils  Accidental poisoning by lorazepam	1
T852.00	· · · · · · · · · · · · · · · · · · ·	1
	Accidental poisoning by ligansian	1
T852100 T960000	Accidental poisoning by lead unappoint	1
T960000 T960z00	Accidental poisoning by lead, unspecified	
T900200 T915.00	Accidental poisoning by lead, NOS	1
T960.00	Accidental poisoning by lead and its compounds and fumes	1
	Accidental poisoning by lead and its compounds and fumes	-
T916000	Accidental poisoning by lectorrefor	1
T806400	Accidental poisoning by ketoprofen	1
T921300	Accidental poisoning by kerosene	1
T903z00	Accidental poisoning by isopropyl alcohol NOS	1
T903100	Accidental poisoning by isopropanol	1
T964400	Accidental poisoning by iron compounds	1
T934z00	Accidental poisoning by insecticides NOS	1
T806100	Accidental poisoning by indomethacin	1
T840100	Accidental poisoning by imipramine	1
T806300	Accidental poisoning by ibuprofen	1
T854200	Accidental poisoning by hyoscine	1
T941000	Accidental poisoning by hydrochloric acid	1
T850100	Accidental poisoning by hydantoin derivatives	1
T91z.00	Accidental poisoning by household agents NOS	1
T9100	Accidental poisoning by household agents	1
T880.00	Accidental poisoning by hormones and synthetic substitutes	1
T800.00	Accidental poisoning by heroin	1
T935z00	Accidental poisoning by herbicides NOS	1
T935.00	Accidental poisoning by herbicides	1
T981300	Accidental poisoning by heating gas NOS	1
T831000	Accidental poisoning by haloperidol	1
T851200	Accidental poisoning by halogenated hydrocarbon derivatives	1
T841.00	Accidental poisoning by hallucinogens	1
T841z00	Accidental poisoning by hallucinogen NOS	1

Read code	Description	Number of
T806000	Accidental poisoning by gold salts	studies 1
T966z00	Accidental poisoning by glues and adhesives NOS	1
T966.00	Accidental poisoning by glues and adhesives	1
T966000	Accidental poisoning by glues	1
T884.00	Accidental poisoning by gastrointestinal system drugs	1
T470.00	Accidental poisoning by gases or fumes on ship	1
T99z.00	Accidental poisoning by gases and vapours NOS	1
T921100	Accidental poisoning by gas oils	1
T9700	Accidental poisoning by gas distributed by pipeline	1
T936z00	Accidental poisoning by fungicides NOS	1
T936.00	Accidental poisoning by fungicides	1
T938.00	Accidental poisoning by fumigants	1
T95z.00	Accidental poisoning by foodstuffs and poisonous plants NOS	1
T965100	Accidental poisoning by fertilisers	1
T982000	Accidental poisoning by exhaust gas-stationary farm tractor	1
T982z00	Accidental poisoning by exhaust gas from motor vehicle NOS	1
T982100	Accidental poisoning by exhaust gas from gas engine	1
T901z00	Accidental poisoning by ethyl alcohol NOS	1
T901200	Accidental poisoning by ethanol, NOS	1
T800	Accidental poisoning by drugs, medicines and biologicals	1
T882.00	Accidental poisoning by drugs affecting blood constituents	1
T85z.00	Accidental poisoning by drugs acting on nervous system NOS	1
T8z00	Accidental poisoning by drugs NOS	1
T914.00	Accidental poisoning by disinfectants	1
T935300	Accidental poisoning by diguat	1
T930300	Accidental poisoning by dieldrin	1
T832100	Accidental poisoning by diazepam	1
T800.11	Accidental poisoning by diazepain  Accidental poisoning by diamorphine	1
T887400	Accidental poisoning by dental drugs	1
T901000	Accidental poisoning by denatured alcohol	1
T938000	Accidental poisoning by cyanides	1
T967.00	Accidental poisoning by cosmetics	1
T94z.00	Accidental poisoning by corrosives and caustics NOS	1
T9400	Accidental poisoning by corrosives and caustics NCC  Accidental poisoning by corrosives and caustics NEC	1
T940.00	Accidental poisoning by corrosive aromatics	1
T964300	Accidental poisoning by copper salts	1
T981400	Accidental poisoning by cooking gas NOS	1
T802000	Accidental poisoning by codeine	1
T852000	Accidental poisoning by cocaine	1
T971.00	Accidental poisoning by cocaine  Accidental poisoning by coal gas NOS	1
T853.00	Accidental poisoning by coal gas NOS  Accidental poisoning by cholinergics	1
T830000	Accidental poisoning by chlorpromazine	1
T99y000	Accidental poisoning by chlorine	1
T832000	Accidental poisoning by chlordiazepoxide	1
T930100	Accidental poisoning by chlordane	1
T935200	Accidental poisoning by chlorates	1
T820.00	Accidental poisoning by chloral hydrate	1
T88y000	Accidental poisoning by critoral rivurate  Accidental poisoning by central appetite depressants	
T942z00	, , , , , ,	1
	Accidental poisoning by caustic alkalis NOS	1
T942.00	Accidental poisoning by caustic alkalis	1
T883.00	Accidental poisoning by cardiovascular system drugs	1
T983.00	Accidental poisoning by carbon monoxide-other domestic fuel	1
T970.00	Accidental poisoning by carbon monoxide from piped gas	1

Dandanda	Description	Number of
Read code	Description	studies
T98y.00	Accidental poisoning by carbon monoxide from other sources	1
T98yz00	Accidental poisoning by carbon monoxide from oth source NOS	1
T98z.00	Accidental poisoning by carbon monoxide NOS	1
T983z00	Accidental poisoning by carbon monoxide - domestic fuel NOS	1
T940000	Accidental poisoning by carbolic acid	1
T932100	Accidental poisoning by carbaryl	1
T932.00	Accidental poisoning by carbamates	1
T841000	Accidental poisoning by cannabis derivatives	1
T842100	Accidental poisoning by caffeine	1
T964200	Accidental poisoning by cadmium and its compounds	1
T980100	Accidental poisoning by butane	1
T993000	Accidental poisoning by bromobenzyl cyanide	1
T822.00	Accidental poisoning by bromine compounds	1
T822000	Accidental poisoning by bromides	1
T964100	Accidental poisoning by brass fumes	1
T964000	Accidental poisoning by beryllium and its compounds	1
T832.00	Accidental poisoning by benzodiazepine-based tranquillisers	1
T930000	Accidental poisoning by benzene hexachlorine	1
T924000	Accidental poisoning by benzene	1
T81z.00	Accidental poisoning by barbiturates NOS	1
T8100	Accidental poisoning by barbiturates	1
T811.00	Accidental poisoning by barbitone	1
T854000	Accidental poisoning by atropine	1
T803000	Accidental poisoning by aspirin	1
T963000	Accidental poisoning by arsenic, unspecified	1
T963100	Accidental poisoning by arsenic compounds	1
T963.00	Accidental poisoning by arsenic and its compounds and fumes	1
T804.00	Accidental poisoning by aromatic analgesics NEC	1
T806z00	Accidental poisoning by antirheumatics NOS	1
T806.00	Accidental poisoning by antirheumatics	1
T840z00	Accidental poisoning by antidepressants NOS	1
T840.00	Accidental poisoning by antidepressants	1
T850z00	Accidental poisoning by anticonvulsant/anti-parkin drug NOS	1
T850.00	Accidental poisoning by anticonvulsant + anti-parkinson drug	1
T850.11	Accidental poisoning by anticonvulsant	1
T854.00	Accidental poisoning by anticholinergics	1
T8600	Accidental poisoning by antibiotics	1
T850.12	Accidental poisoning by anti-parkinsonism drug	1
T8700	Accidental poisoning by anti-infectives	1
T8000	Accidental poisoning by analgesics, antipyretic, antirheumatic	1
T80z.00	Accidental poisoning by analgesics, antipyretic, antirheum NOS	1
T842000	Accidental poisoning by amphetamine	1
T840000	Accidental poisoning by amitriptyline	1
T900.00	Accidental poisoning by alcoholic beverages	1
T9000	Accidental poisoning by alcohol, NEC	1
T90z.00	Accidental poisoning by alcohol NOS	1
T9300	Accidental poisoning by agricultural chemical preparations	1
T855.00	Accidental poisoning by adrenergics	1
T855000	Accidental poisoning by adrenalin	1
T941z00	Accidental poisoning by acids NOS	1
T941.00	Accidental poisoning by acids	1
T981000	Accidental poisoning by acetylene	1
T930200	Accidental poisoning by DDT	1

Read code	Description	Number of studies
T983300 T983100 T983000 T98y100 T98y200 T98y000 T93z.00 T9z00 T77z.00 T85y.00 T470500 SL24011	Accidental poisoning by CO- kerosene in domestic stove/fire Accidental poisoning by CO- coke in domestic stove/fireplace Accidental poisoning by CO- coal in domestic stove/fireplace Accidental poisoning by CO - kiln vapour Accidental poisoning by CO - fuels in industrial use Accidental poisoning by CO - blast furnace gas Accidental poisoning agricultural chemical preparations NOS Accidental poisoning NOS Accident/poisoning occurred in residential institution NOS Accid. poisoning by other drugs acting on nervous system OS Accid poison gas/fume on ship - swimmer injured ACTH - adrenocorticotropic hormone poisoning	1 1 1 1 1 1 1 1

Table 10. ICD codes used in the studies of anxiety.

Study	Databases	ICD version	List of codes	
Bouras, 2016	CPRD + HES	ICD-10	F40-F48	

\_S = Hot CPRD - Clinical Practice Research Datalink; HES - Hospital Episode Statistics; ICD - International Classification of Diseases.

Table 11. ICD codes used in the studies of depression.

Study	Databases	ICD version	List of codes
Bouras, 2016	CPRD + HES	ICD-10	F32, F33
Jenkins-Jones, 2018	CPRD + HES	ICD-10	F32, F33, F41.2, F92.0

CPRD - Clinical Practice Research Datalink; HES - Hospital Episode Statistics; ICD - International Classification of Diseases.



Table 12. ICD codes used in the studies of dementia.

Study	Databases	ICD version	List of codes
Brown, 2016	CPRD + HES	ICD-10	E512, F00, F01, F02, F03, F10.6, F10.7, G30, G31.0
Emdin, 2016	CPRD + HES	ICD-10	F01

CPRD – Clinical Practice Research Datalink; HES – Hospital Episode Statistics; ICD - International Classification of Diseases.



Table 13. ICD codes used in the studies of fatal self-harm.

Study	ICD version	List of codes
Carr, 2017	ICD-10	V01-Y98
Coupland, 2015	ICD-10	not provided
Doyle, 2016	ICD-10	X60-X84, Y10-34 (excluding Y33.9), Y87.0 and Y87.2
Lalmohamed, 2012	ICD-10	V01-Y99
Meier, 2004	ICD-10	not provided
Schuerch, 2016	ICD-10	X60-X84, Y10-Y34
Thomas, 2013	ICD-10	X60-X84, Y10-34 (excluding Y33.9)
Webb, 2012	ICD-10	X60-X84, Y10-34 (excluding Y33.9)
Windfuhr, 2016	ICD-10	X60-X84, Y10-34 (excluding Y33.9), Y87.0 and Y87.2

ICD - International Classification of Diseases



## PRISMA 2009 Checklist

Section/topic	#	Checklist item	Reported on page #			
TITLE	•					
Title	1	Identify the report as a systematic review, meta-analysis, or both.	1			
ABSTRACT						
Structured summary	2	Provide a structured summary including, as applicable: background; objectives; data sources; study eligibility criteria, participants, and interventions; study appraisal and synthesis methods; results; limitations; conclusions and implications of key findings; systematic review registration number.	2			
INTRODUCTION						
Rationale	3	Describe the rationale for the review in the context of what is already known.	5			
Objectives	4	Provide an explicit statement of questions being addressed with reference to participants, interventions, comparisons, outcomes, and study design (PICOS).	5			
METHODS						
Protocol and registration	5	Indicate if a review protocol exists, if and where it can be accessed (e.g., Web address), and, if available, provide registration information including registration number.	None exists			
Eligibility criteria	6	Specify study characteristics (e.g., PICOS, length of follow-up) and report characteristics (e.g., years considered, language, publication status) used as criteria for eligibility, giving rationale.	6-7			
Information sources	7	Describe all information sources (e.g., databases with dates of coverage, contact with study authors to identify additional studies) in the search and date last searched.	6			
Search	8	Present full electronic search strategy for at least one database, including any limits used, such that it could be repeated.	Appendix 1			
Study selection	9	State the process for selecting studies (i.e., screening, eligibility, included in systematic review, and, if applicable, included in the meta-analysis).	7			
Data collection process	10	Describe method of data extraction from reports (e.g., piloted forms, independently, in duplicate) and any processes for obtaining and confirming data from investigators.	7			
Data items	11	List and define all variables for which data were sought (e.g., PICOS, funding sources) and any assumptions and simplifications made.	7			
Risk of bias in individual studies	12	Describe methods used for assessing risk of bias of individual studies (including specification of whether this was done at the study or outcome level), and how this information is to be used in any data synthesis.	Not applicable			
Summary measures	13	State the principal summary measures (e.g., risk ratio, difference in means).	Not applicable			

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## PRISMA 2009 Checklist

Synthesis of results  14 Describe the methods of handling data and combining results of studies, if done, including measures of consist (e.g., I²) for each meta-analysis.	stency 7-8
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Page 1 of 2 Reported Section/topic Checklist item # on page # Risk of bias across studies 15 Specify any assessment of risk of bias that may affect the cumulative evidence (e.g., publication bias, selective Not reporting within studies). applicable Additional analyses Describe methods of additional analyses (e.g., sensitivity or subgroup analyses, meta-regression), if done, indicating Not which were pre-specified. applicable **RESULTS** Study selection Give numbers of studies screened, assessed for eligibility, and included in the review, with reasons for exclusions at Fig 1 each stage, ideally with a flow diagram. For each study, present characteristics for which data were extracted (e.g., study size, PICOS, follow-up period) and Study characteristics App. 3-10 provide the citations. Present data on risk of bias of each study and, if available, any outcome level assessment (see item 12). Risk of bias within studies Not applicable For all outcomes considered (benefits or harms), present, for each study: (a) simple summary data for each Results of individual studies 20 App. 11intervention group (b) effect estimates and confidence intervals, ideally with a forest plot. 22 28 Synthesis of results Present results of each meta-analysis done, including confidence intervals and measures of consistency. Not applicable Risk of bias across studies Present results of any assessment of risk of bias across studies (see Item 15). Not applicable Give results of additional analyses, if done (e.g., sensitivity or subgroup analyses, meta-regression [see Item 16]). Additional analysis Not applicable DISCUSSION Summarize the main findings including the strength of evidence for each main outcome; consider their relevance to Summary of evidence 14 key groups (e.g., healthcare providers, users, and policy makers). 40 Limitations Discuss limitations at study and outcome level (e.g., risk of bias), and at review-level (e.g., incomplete retrieval of 14-15 identified research, reporting bias). Conclusions Provide a general interpretation of the results in the context of other evidence, and implications for future research. 16-19 **FUNDING** 

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## PRISMA 2009 Checklist

3 _				
4 5	Funding	27	Describe sources of funding for the systematic review and other support (e.g., supply of data); role of funders for the systematic review.	3
6 =				
8	From: Moher D, Liberati A, Tetzlaff doi:10.1371/journal.pmed1000097	J, Altm	nan DG, The PRISMA Group (2009). Preferred Reporting Items for Systematic Reviews and Meta-Analyses: The PRISMA Statement. PLoS Med	6(7): e1000097.
9			For more information, visit: <a href="https://www.prisma-statement.org">www.prisma-statement.org</a> .	
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