SDC 1. Supplementary notes to Methods

Settings

Groote Schuur Hospital is a 975-bed urban academic hospital situated in Cape Town, in the Western Cape province, which provides secondary and tertiary level care, serves as a referral centre for approximately half of the province's population (2011 population: 5.8 million)¹ and is associated with the University of Cape Town. At this hospital we surveyed the general medical wards during May and June 2013. We did not survey the sub-speciality wards (dermatology, neurology, cardiology, respiratory medicine and nephrology), the oncology wards, or the high care / intensive care units. Restricting the survey to general medical wards was done partly due to resource limitations but also to allow the patients at this site to be reasonably comparable to those at other sites, which did not have sub-specialist wards. In 2009, the crude inpatient mortality in the medical wards of Groote Schuur Hospital was shown to be 573/3465 patients (17%)² and the 12-month post-discharge mortality to be 145/415 (35%).³

Edendale Hospital is a 900-bed peri-urban regional teaching hospital situated near Pietermaritzburg, in the KwaZulu-Natal province (2011 population: 10.3 million). It provides care to the peri-urban community and serves as a referral centre for several district hospitals in the surrounding rural area. It is located at the epicentre of the HIV, tuberculosis and multidrug resistant tuberculosis epidemics in South Africa: a post-mortem study in 2008-2009 found that 94% of decedents in the medical wards of Edendale Hospital were HIV-seropositive, 50% had culture-positive tuberculosis at the time of death and 17% of these cultures were resistant to isoniazid and rifampicin. At Edendale Hospital, we surveyed the medical wards over 30 days during July and August of 2013. We did not survey the intensive care unit, and there were no high care unit or sub-speciality wards at the time of this survey.

Cecilia Makiwane Hospital, situated in the large peri-urban community of Mdantsane in the Eastern Cape province, and Frere Hospital, situated in the city of East London, are co-managed as the East London Hospital Complex and provide secondary and tertiary-level care. These hospitals also serve as referral centres for a significant part of the province (2011 population: 6.6 million). At these two teaching hospitals, we surveyed the general medical wards, as well as the high care and intensive care units, over 30 days during August and September 2013; there were no sub-speciality wards at the time of this survey. The burden of disease in the medical wards of these hospitals has not previously been published.

All four hospitals are public sector facilities. In the overburdened public health sector of South Africa, even at tertiary centres, elective medical admissions are rare and virtually all admissions to the medical wards occurred as emergencies via the emergency department or via primary care facilities.

Identification of new admissions

We identified all newly admitted patients using hospital administrative records. When possible, we cross-referenced administrative records with lists of admissions kept by the medical team on intake. We included in our survey all patients whom the medical team decided to admit, regardless of their actual admission status; thus, we included those patients who were discharged from or died in the emergency unit while still awaiting transfer to a ward. We collected data on weekdays; thus we identified newly admitted patients and collected the initial dataset within three days from the date of admission.

Multidisciplinary case review panels

We constituted two case review panels to review the causality, severity and preventability of cases identified as potential adverse drug reactions (ADRs). The first panel, consisting of a clinical pharmacist, a clinical pharmacologist, and one to three physicians / internists, reviewed the cases of patients who died during the 30-day survey period. (For these patients,

we had more detailed information in the form of a copy of their hospital folder, as well as a narrative case summary, prepared by the first author.) This panel's primary aim was to identify deaths in which ADRs played a causal or contributory role; results have been previously published.⁵ For the purposes of our previous paper, the panel assessed the deaths of 105 patients: 28 of those were not included in the denominator of the current survey, as they were admitted prior to the current paper's 30-day survey period, and a further 48 patients' deaths were unrelated to ADRs, or related to ADRs that were not present on admission but developed in-hospital, or related to ADRs that were present on admission but did not form the main reason for admission. Those 48 cases are thus not included in the current study's numerator, but do form part of the current study's denominator. The remaining 29 patient folders which were assessed by the first case review panel fulfilled the inclusion criteria of the previous⁵ and the current survey (i.e., were admitted due to an ADR and died during the 30-day survey period), and have thus been included in both studies' analyses.

The second panel, who assessed the suspected ADR-related admissions of patients alive at the end of the 30-day period, consisted of a research pharmacist, a clinical pharmacist, a general practitioner (GP), a second GP / medical epidemiologist, two clinical pharmacologists, and a physician. This panel performed their assessments in two rounds. In the first round, two GP-pharmacist pairs reviewed all 196 suspected ADR-related admissions, with the pairs reviewing the case independently from one another. Cases in which the two pairs disagreed on the WHO-UMC causality rating of any drug-event association were forwarded to the second round; cases where the two pairs agreed on the WHO-UMC causality rating of all drug-event associations were not forwarded to the second round. (In cases not forwarded to the second round, disagreements regarding preventability or severity were resolved through discussion by the panel members.) All seven panel members participated in the second round of assessment, during which the causality, preventability and severity of 132 cases were discussed until consensus was reached.

Three authors reconciled the data generated by the two assessment panels, as some methodological differences existed between their assessments: in the event of one ADR being attributed to multiple drug causes, the first panel (who assessed cases of patients who died) performed their causality assessment on each drug suspect individually. For the purposes of the current paper, however, we distinguish between Type A and Type B ADRs in our approach to causality assessment of these cases with multiple drug suspects, as described in the manuscript.

Presumptions and exceptions on Anatomic-Therapeutic-Chemical (ATC) coding

We presumed all aspirin to have been used for inhibition of platelet aggregation (and not for analgesia), and thus coded it to the ATC code B01AC06.

We presumed all bronchodilators and corticosteroids to have been inhaled, unless specifically documented to have been used systemically.

We coded antiretroviral and antituberculosis fixed drug combinations to the two, three, or four component drugs. We did not code other combinations to their components, but instead arbitrarily increased a patient's drug count with one unit for every combination drug recorded.

In the event that the precise drug was not known, but the class was, we coded the drug to the lowest level possible. For example, unspecified antihypertensive therapy was coded as C ('Cardiovascular system'). All insulins were recorded and reported as A10A ('Insulin and analogues'). Where the fourth-level drug code (class) exploded down to only one fifth-level code (drug), we reported the drug name. (For example, the fourth-level (class) code C03CA 'high-ceiling diuretics: sulfonamides, plain' had only one member, the fifth-level (drug) code C03CA01 'furosemide'. For the purpose of this paper, we reported it as 'C03CA furosemide'.)

Reporting of ADRs

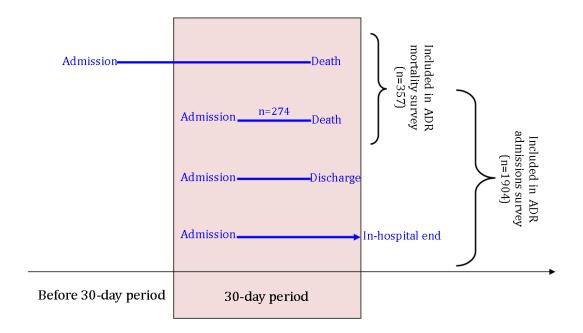
MedDRA® is a multiaxial classification system, with lower-level terms not mapping on a one-to-one basis to higher-level terms. For reporting purposes, we grouped MedDRA® 'preferred terms' as follows:

Reported ADR	MedDRA® 'preferred terms' included in the reported ADR
Blood dyscrasias	Anaemia, Anaemia macrocytic, Anaemia normochromic normocytic, Aplastic anaemia, Pancytopenia, Thrombocytopenia,
Blood dyscrasias	Leukopenia, Neutropenia
Drug-induced liver injury (DILI)	Cholestatic liver injury, Hepatocellular liver injury, Mixed liver injury, Hepatorenal failure ^a
Renal impairment	Renal failure acute, Renal failure, Hepatorenal failure ^a
	Gingival bleeding, Gastric haemorrhage, Gastrointestinal haemorrhage, Gastritis haemorrhagic, Lower gastrointestinal
Haemorrhage	haemorrhage, Haemoptysis, Epistaxis, Haemarthrosis, Haematuria, Retroperitoneal haemorrhage, Menorrhagia, Cerebral
	haemorrhage, Haemorrhage intracranial, Subarachnoid haemorrhage

⁽a) Hepatorenal failure was reported under two grouped terms.

References

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- 2. Myer L, Smith E, Mayosi BM. Medical inpatient mortality at Groote Schuur Hospital, Cape Town, South Africa, 2002-2009. *S Afr Med J.* 2013;103(1):28–31.
- 3. Stuart-Clark H, Vorajee N, Zuma S, et al. Twelve-month outcomes of patients admitted to the acute general medical service at Groote Schuur Hospital. *S Afr Med J*. 2012;102(6):549–53.
- 4. Cohen T, Murray M, Wallengren K, Alvarez GG, Samuel EY, Wilson D. The prevalence and drug sensitivity of tuberculosis among patients dying in hospital in KwaZulu-Natal, South Africa: a postmortem study. *PLoS Med.* 2010;7(6):e1000296.
- 5. Mouton JP, Mehta U, Parrish AG, et al. Mortality from adverse drug reactions in adult medical inpatients at four hospitals in South Africa: a cross-sectional survey. Br J Clin Pharmacol. 2015;80(4):818–826.



SDC 2. Schematic representation of overlap in the denominator of the current survey (n=1904) and a previously published survey (n=357) on ADR-related mortality. There were 274 patients who were included in the denominator of both surveys.

1. Mouton JP, Mehta U, Parrish AG, et al. Mortality from adverse drug reactions in adult medical inpatients at four hospitals in South Africa: a cross-sectional survey. Br J Clin Pharmacol. 2015;80(4):818-826.

SDC 3. List of triggers used to identify suspected adverse drug reactions.

Event triggers	Drug order triggers	Laboratory result triggers	Suspected ADR
Angioedema	Adrenaline/epinephrine		Hypersensitivity reaction
 Bronchospasm 	 Antihistamine 		
 Lip swelling 	 Corticosteroid 		
Rash or ulceration	 Promethazine for HSR 		
	 Flumazenil Naloxone 	 Amikacin peak > 30 or trough > 2 mg/L Carbamazepine > 45 μmol/L Digoxin > 1.5 nmol/L Gentamicin peak > 8 or trough > 1 mg/L Phenobarbital > 160 μmol/L Phenytoin > 80 μmol/L Theophylline >110 μmol/L Tobramycin peak > 8 or trough > 1 mg/L Valproic acid > 700 μmol/L Vancomycin > 20 mg/L Other toxic drug concentration 	Toxic drug effect
Fracture Osteonecrosis		Paracetamol concentration done	Drug-induced bone disease
Bone marrow biopsy	GCSF/meropenem	 Haemoglobin <8 g/dL Pancytopenia Platelets < 50 x 10°/L White blood cell count < 1.5 x 10°/L 	Drug-induced bone marrow suppression
New arrhythmia New cardiac failure New hypotension Torsades de pointes	AtropineMagnesium sulphate		Drug-induced cardiovascular problem
Ataxia	Biperidin		Drug-induced central nervous
 Decreased LOC Delirium Dizziness Dyskinesia Dystonia Falls Lethargy Oversedation Seizure(s) Torticollis 	 Diazepam for EPSE Diazepam for seizure Lorazepam stat for seizure Phenytoin for seizure Promethazine for EPSE 		system problem
• Bleeding	Fresh frozen plasmaProtamine sulphateVitamin K	International normalised ratio (INR) >5 Partial thromboplastin time (PTT) > 100 seconds	Drug-induced coagulation problem
	Calcium gluconate Insulin with glucose Polystyrene sulfate	Potassium <3.5 mmol/L Potassium >5.5 mmol/L Potassium >5.5 mmol/L	Drug-induced electrolyte disturbance
GastroscopyNausea and vomiting	Antidiarrhoeals Antiemetic Metoclopramide	Clostridium difficile after antibiotics	Drug-induced gastrointestinal problem
	• Dextrose 50%	• Glucose < 3 mmol/L	Drug-induced hypoglycaemia
New jaundiceLiver biopsy		 Alanine transaminase (ALT) > 3x ULN Bilirubin > 2x ULN 	Drug-induced liver injury
• Renal biopsy		 eGFR worsening / single new low CrCl worsening / single new low Creatinine rising / single new high 	Drug-induced renal impairment
 Abrupt drug stop HCW suspects ADR Transfer to higher level of ca 	re		Event suggests ADR

ADR: adverse drug reaction; CrCl: creatinine clearance; eGFR: estimated glomerular filtration rate; EPSE: extrapyramidal side effects; GCSF: granulocyte colony stimulating factor; HCW: healthcare worker; HSR: hypersensitivity reaction; LOC: level of consciousness; ULN: upper limit of normal

SDC 4. Prevalence of comorbidities, according to ICD-10 classification, over the 4-week period prior to patients' first admission (n=1904 patients).

ICD-10 Chapter / Diagnostic Block	Count	Proportion
A00-B99 CERTAIN INFECTIOUS AND PARASITIC DISEASES	645	34%
A00-A09 Intestinal infectious diseases	41	2.1%
A15-A19 Tuberculosis	200	11%
A30-A49 Other bacterial diseases	18	<1%
A50-A64 Infections with a predominantly sexual mode of transmission	6	<1%
A80-A89 Viral infections of the central nervous system	2	<1%
B00-B09 Viral infections characterized by skin and mucous membrane lesions	6	<1%
B15-B19 Viral hepatitis	5	<1%
B20-B24 Human immunodeficiency virus [HIV] disease ^a	559	29%
B25-B34 Other viral diseases	2	<1%
B35-B49 Mycoses	57	2.9%
B50-B64 Protozoal diseases	3	<1%
B85-B89 Pediculosis, acariasis and other infestations	1	<1%
B90-B94 Sequelae of infectious and parasitic diseases	2	<1%
C00-D48 NEOPLASMS	50	2.6%
C15-C26 Malignant neoplasms: Digestive organs	7	<1%
C30-C39 Malignant neoplasms: Respiratory and intrathoracic organs	3	<1%
C40-C41 Malignant neoplasms: Bone and articular cartilage	1	<1%
C45-C49 Malignant neoplasms: Mesothelial and soft tissue	7	<1%
C50-C50 Malignant neoplasms: Breast	5	<1%
C51-C58 Malignant neoplasms: Female genital organs	2	<1%
C60-C63 Malignant neoplasms: Male genital organs	4	<1%
C64-C68 Malignant neoplasms: Urinary tract	2	<1%
C69-C72 Malignant neoplasms: Eye, brain and other parts of central nervous system	3 3	<1%
C76-C80 Malignant neoplasms of ill-defined, secondary and unspecified sites C81-C96 Malignant neoplasms of lymphoid, haematopoietic and related tissue	3 7	<1% <1%
D00-D09 In situ neoplasms	1	<1%
D10-D36 Benign neoplasms	4	<1%
D37-D48 Neoplasms of uncertain or unknown behaviour	5	<1%
D50-D89 DISEASES OF THE BLOOD AND HAEMOPOIESIS; CERTAIN DISORDERS OF THE IMMUNE SYSTEM D50-D53 Nutritional anaemias	171 30	9.0% 1.6%
D55-D59 Haemolytic anaemias	1	<1%
D60-D64 Aplastic and other anaemias	114	6.0%
D65-D69 Coagulation defects, purpura and other haemorrhagic conditions	33	1.7%
D70-D77 Other diseases of blood and blood-forming organs D80-D89 Certain disorders involving the immune mechanism	11 1	<1% <1%
Dou-Doy Certain disorders involving the minimule mechanism	1	<170
E00-E90 ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES	585	31%
E00-E07 Disorders of thyroid gland	35	1.8%
E10-E14 Diabetes mellitus	343	18%
E15-E16 Other disorders of glucose regulation and pancreatic internal secretion	15	<1%
E20-E35 Disorders of other endocrine glands	2	<1%
E40-E46 Malnutrition E50-E64 Other nutritional deficiencies	2 7	<1% <1%
E65-E68 Obesity and other hyperalimentation	59	3.1%
E70-E90 Metabolic disorders	257	13%
TOO TOO MENTAL AND DEWAY OF ALL DISCORDEDS	424	= 00/
F00-F99 MENTAL AND BEHAVIOURAL DISORDERS	134	7.0%
F00-F09 Organic, including symptomatic, mental disorders	44	2.3%
F10-F19 Mental and behavioural disorders due to psychoactive substance use F20-F29 Schizophrenia, schizotypal and delusional disorders	30 18	1.6% <1%
F30-F39 Mood [affective] disorders	21	1.1%
F40-F48 Neurotic, stress-related and somatoform disorders	5	<1%
F50-F59 Behavioural syndromes associated with physiological disturbances and physical factors	1	<1%
F70-F79 Mental retardation	14	<1%
F99-F99 Unspecified mental disorder	8	<1%
COO COO DICEACEC OF THE NEDWOLIC CYCTEM	100	C =01
G00-G99 DISEASES OF THE NERVOUS SYSTEM G00 G00 Inflammatory diseases of the central persons system	123 7	6.5%
G00-G09 Inflammatory diseases of the central nervous system G10-G14 Systemic atrophies primarily affecting the central nervous system	3	<1% <1%
G10-G14 Systemic adoptines primarily affecting the central hervous system	3	<1%

	G20-G26 Extrapyramidal and movement disorders	8	<1%
	G30-G32 Other degenerative diseases of the nervous system	2	<1%
	G35-G37 Demyelinating diseases of the central nervous system	2	<1%
	G40-G47 Episodic and paroxysmal disorders	87	4.6%
	G50-G59 Nerve, nerve root and plexus disorders	3	<1%
	G60-G64 Polyneuropathies and other disorders of the peripheral nervous system	6	<1%
	G70-G73 Diseases of myoneural junction and muscle	1	<1%
	G80-G83 Cerebral palsy and other paralytic syndromes	7	<1%
	G90-G99 Other disorders of the nervous system	4	<1%
	•		
H00-H59 DIS	EASES OF THE EYE AND ADNEXA	32	1.7%
	H15-H22 Disorders of sclera, cornea, iris and ciliary body	2	<1%
	H25-H28 Disorders of lens	4	<1%
	H30-H36 Disorders of choroid and retina	6	<1%
	H40-H42 Glaucoma	8	<1%
	H46-H48 Disorders of optic nerve and visual pathways	2	<1%
	H53-H54 Visual disturbances and blindness	12	<1%
	H55-H59 Other disorders of eye and adnexa	1	<1%
H60-H95 DIS	EASES OF THE EAR AND MASTOID PROCESS	13	<1%
	H65-H75 Diseases of middle ear and mastoid	1	<1%
	H80-H83 Diseases of inner ear	1	<1%
	H90-H95 Other disorders of ear	11	<1%
100-100 DICE	ASES OF THE CIRCULATORY SYSTEM	845	44%
100-177 DISEA			
	I00-I02 Acute rheumatic fever	2	<1%
	I05-I09 Chronic rheumatic heart diseases	22	1.2%
	I10-I15 Hypertensive diseases	691	36%
	I20-I25 Ischaemic heart diseases	123	6.5%
	I26-I28 Pulmonary heart disease and diseases of pulmonary circulation	39	2.0%
	I30-I52 Other forms of heart disease	194	10%
	I60-I69 Cerebrovascular diseases	112	5.9%
	I70-I79 Diseases of arteries, arterioles and capillaries	21	1.1%
	I80-I89 Diseases of veins, lymphatic vessels and lymph nodes, not elsewhere classified	18	<1%
	I95-I99 Other and unspecified disorders of the circulatory system	5	<1%
100-190 DISE	195-199 Other and unspecified disorders of the circulatory system	5	<1%
J00-J99 DISE	195-I99 Other and unspecified disorders of the circulatory system ASES OF THE RESPIRATORY SYSTEM	5 283	<1% 15%
J00-J99 DISE	195-I99 Other and unspecified disorders of the circulatory system ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections	5	<1%
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J00-J99 DISE	I95-I99 Other and unspecified disorders of the circulatory system ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia	5 283 3 38	<1% 15% <1% <1% 2.0%
J00-J99 DISE	195-I99 Other and unspecified disorders of the circulatory system ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections	5 283 3 38 43	<1% 15% <1% <2.0% 2.3%
J00-J99 DISE	195-I99 Other and unspecified disorders of the circulatory system ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections J30-J39 Other diseases of upper respiratory tract	5 283 3 38	<1% 15% <1% <1% 2.0%
J00-J99 DISE	195-I99 Other and unspecified disorders of the circulatory system ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections J30-J39 Other diseases of upper respiratory tract	5 283 3 38 43	<1% 15% <1% 2.0% 2.3% <1%
J00-J99 DISE	I95-I99 Other and unspecified disorders of the circulatory system ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections J30-J39 Other diseases of upper respiratory tract J40-J47 Chronic lower respiratory diseases	5 283 3 38 43 5 167	<1% 15% <1% <2.0% 2.3% <1% 8.8%
J00-J99 DISE	I95-I99 Other and unspecified disorders of the circulatory system ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections J30-J39 Other diseases of upper respiratory tract J40-J47 Chronic lower respiratory diseases J60-J70 Lung diseases due to external agents	5 283 3 38 43 5 167 7	<1% 15% <1% 2.0% 2.3% <1% 8.8% <1%
J00-J99 DISE	I95-I99 Other and unspecified disorders of the circulatory system ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections J30-J39 Other diseases of upper respiratory tract J40-J47 Chronic lower respiratory diseases	5 283 3 38 43 5 167	<1% 15% <1% <2.0% 2.3% <1% 8.8%
J00-J99 DISE	195-I99 Other and unspecified disorders of the circulatory system ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections J30-J39 Other diseases of upper respiratory tract J40-J47 Chronic lower respiratory diseases J60-J70 Lung diseases due to external agents J80-J84 Other respiratory diseases principally affecting the interstitium	5 283 3 38 43 5 167 7 12	<1% 15% <1% <2.0% 2.3% <1% 8.8% <1% <1%
J00-J99 DISE	ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections J30-J39 Other diseases of upper respiratory tract J40-J47 Chronic lower respiratory diseases J60-J70 Lung diseases due to external agents J80-J84 Other respiratory diseases principally affecting the interstitium J85-J86 Suppurative and necrotic conditions of lower respiratory tract	5 283 3 38 43 5 167 7 12 2	<1% 15% <1% 2.0% 2.3% <1% 8.8% <1% <1% <1% <1%
J00-J99 DISE	ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections J30-J39 Other diseases of upper respiratory tract J40-J47 Chronic lower respiratory diseases J60-J70 Lung diseases due to external agents J80-J84 Other respiratory diseases principally affecting the interstitium J85-J86 Suppurative and necrotic conditions of lower respiratory tract J90-J94 Other diseases of pleura	5 283 3 38 43 5 167 7 12 2 16	<1% 15% <1% 2.0% 2.3% <1% 8.8% <1% <1% <1% <1% <1% <1%
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J00-J99 DISE	ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections J30-J39 Other diseases of upper respiratory tract J40-J47 Chronic lower respiratory diseases J60-J70 Lung diseases due to external agents J80-J84 Other respiratory diseases principally affecting the interstitium J85-J86 Suppurative and necrotic conditions of lower respiratory tract J90-J94 Other diseases of pleura	5 283 3 38 43 5 167 7 12 2 16	<1% 15% <1% 2.0% 2.3% <1% 8.8% <1% <1% <1% <1% <1% <1%
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	ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections J30-J39 Other diseases of upper respiratory tract J40-J47 Chronic lower respiratory diseases J60-J70 Lung diseases due to external agents J80-J84 Other respiratory diseases principally affecting the interstitium J85-J86 Suppurative and necrotic conditions of lower respiratory tract J90-J94 Other diseases of pleura J95-J99 Other diseases of the respiratory system EASES OF THE DIGESTIVE SYSTEM	5 283 3 38 43 5 167 7 12 2 16 17	<1% 15% <1% 2.0% 2.3% <1% 8.8% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
	ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections J30-J39 Other diseases of upper respiratory tract J40-J47 Chronic lower respiratory diseases J60-J70 Lung diseases due to external agents J80-J84 Other respiratory diseases principally affecting the interstitium J85-J86 Suppurative and necrotic conditions of lower respiratory tract J90-J94 Other diseases of pleura J95-J99 Other diseases of the respiratory system EASES OF THE DIGESTIVE SYSTEM K00-K14 Diseases of oral cavity, salivary glands and jaws	5 283 3 38 43 5 167 7 12 2 16 17	<1% 15% <1% 2.0% 2.3% <1% 8.8% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
	ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections J30-J39 Other diseases of upper respiratory tract J40-J47 Chronic lower respiratory diseases J60-J70 Lung diseases due to external agents J80-J84 Other respiratory diseases principally affecting the interstitium J85-J86 Suppurative and necrotic conditions of lower respiratory tract J90-J94 Other diseases of pleura J95-J99 Other diseases of the respiratory system EASES OF THE DIGESTIVE SYSTEM	5 283 3 38 43 5 167 7 12 2 16 17	<1% 15% <1% 2.0% 2.3% <1% 8.8% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
	ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections J30-J39 Other diseases of upper respiratory tract J40-J47 Chronic lower respiratory diseases J60-J70 Lung diseases due to external agents J80-J84 Other respiratory diseases principally affecting the interstitium J85-J86 Suppurative and necrotic conditions of lower respiratory tract J90-J94 Other diseases of pleura J95-J99 Other diseases of the respiratory system EASES OF THE DIGESTIVE SYSTEM K00-K14 Diseases of oral cavity, salivary glands and jaws K20-K31 Diseases of oesophagus, stomach and duodenum	5 283 3 38 43 5 167 7 12 2 16 17 133 3 54	<1% 15% <1% 2.0% 2.3% <1% 8.8% <1% <1% <1% <1% <1% <1% <1% <1% <2.1% <2.1%
	ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections J30-J39 Other diseases of upper respiratory tract J40-J47 Chronic lower respiratory diseases J60-J70 Lung diseases due to external agents J80-J84 Other respiratory diseases principally affecting the interstitium J85-J86 Suppurative and necrotic conditions of lower respiratory tract J90-J94 Other diseases of pleura J95-J99 Other diseases of the respiratory system EASES OF THE DIGESTIVE SYSTEM K00-K14 Diseases of orac cavity, salivary glands and jaws K20-K31 Diseases of appendix	5 283 3 38 43 5 167 7 12 2 16 17 133 3 54 1	<1% 15% <1% 2.0% 2.3% <1% 8.8% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
	ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections J30-J39 Other diseases of upper respiratory tract J40-J47 Chronic lower respiratory diseases J60-J70 Lung diseases due to external agents J80-J84 Other respiratory diseases principally affecting the interstitium J85-J86 Suppurative and necrotic conditions of lower respiratory tract J90-J94 Other diseases of pleura J95-J99 Other diseases of the respiratory system EASES OF THE DIGESTIVE SYSTEM K00-K14 Diseases of oral cavity, salivary glands and jaws K20-K31 Diseases of osophagus, stomach and duodenum K35-K38 Diseases of appendix K40-K46 Hernia	5 283 3 38 43 5 167 7 12 2 16 17 133 3 54 1 2	<1% 15% <1% <2.0% 2.3% <1% <1.8% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
	ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections J30-J39 Other diseases of upper respiratory tract J40-J47 Chronic lower respiratory diseases J60-J70 Lung diseases due to external agents J80-J84 Other respiratory diseases principally affecting the interstitium J85-J86 Suppurative and necrotic conditions of lower respiratory tract J90-J94 Other diseases of pleura J95-J99 Other diseases of the respiratory system EASES OF THE DIGESTIVE SYSTEM K00-K14 Diseases of orac cavity, salivary glands and jaws K20-K31 Diseases of appendix	5 283 3 38 43 5 167 7 12 2 16 17 133 3 54 1	<1% 15% <1% 2.0% 2.3% <1% 8.8% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
	ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections J30-J39 Other diseases of upper respiratory tract J40-J47 Chronic lower respiratory diseases J60-J70 Lung diseases due to external agents J80-J84 Other respiratory diseases principally affecting the interstitium J85-J86 Suppurative and necrotic conditions of lower respiratory tract J90-J94 Other diseases of pleura J95-J99 Other diseases of the respiratory system EASES OF THE DIGESTIVE SYSTEM K00-K14 Diseases of oral cavity, salivary glands and jaws K20-K31 Diseases of osophagus, stomach and duodenum K35-K38 Diseases of appendix K40-K46 Hernia K50-K52 Noninfective enteritis and colitis	5 283 3 38 43 5 167 7 12 2 16 17 133 3 54 1 2 4	<1% 15% <1% 2.0% 2.3% <1% 8.8% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
	ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections J30-J39 Other diseases of upper respiratory tract J40-J47 Chronic lower respiratory diseases J60-J70 Lung diseases due to external agents J80-J84 Other respiratory diseases principally affecting the interstitium J85-J86 Suppurative and necrotic conditions of lower respiratory tract J90-J94 Other diseases of pleura J95-J99 Other diseases of the respiratory system EASES OF THE DIGESTIVE SYSTEM K00-K14 Diseases of oral cavity, salivary glands and jaws K20-K31 Diseases of oesophagus, stomach and duodenum K35-K38 Diseases of appendix K40-K46 Hernia K50-K52 Noninfective enteritis and colitis K55-K64 Other diseases of intestines	5 283 3 38 43 5 167 7 12 2 16 17 133 3 54 1 2 4 40	<1% 15% <1% 2.0% 2.3% <1% 8.8% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
	ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections J30-J39 Other diseases of upper respiratory tract J40-J47 Chronic lower respiratory diseases J60-J70 Lung diseases due to external agents J80-J84 Other respiratory diseases principally affecting the interstitium J85-J86 Suppurative and necrotic conditions of lower respiratory tract J90-J94 Other diseases of pleura J95-J99 Other diseases of the respiratory system EASES OF THE DIGESTIVE SYSTEM K00-K14 Diseases of oral cavity, salivary glands and jaws K20-K31 Diseases of osophagus, stomach and duodenum K35-K38 Diseases of appendix K40-K46 Hernia K50-K52 Noninfective enteritis and colitis K55-K64 Other diseases of peritoneum	5 283 3 38 43 5 167 7 12 2 16 17 133 3 54 1 2 4 40 3	<1% 15% <1% 2.0% 2.3% <1% 8.8% <1% <1% <1% <1% <1% <1% <1% <1% <1% 2.8% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
	ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections J30-J39 Other diseases of upper respiratory tract J40-J47 Chronic lower respiratory diseases J60-J70 Lung diseases due to external agents J80-J84 Other respiratory diseases principally affecting the interstitium J85-J86 Suppurative and necrotic conditions of lower respiratory tract J90-J94 Other diseases of pleura J95-J99 Other diseases of the respiratory system EASES OF THE DIGESTIVE SYSTEM K00-K14 Diseases of oral cavity, salivary glands and jaws K20-K31 Diseases of oseophagus, stomach and duodenum K35-K38 Diseases of appendix K40-K46 Hernia K50-K52 Noninfective enteritis and colitis K55-K64 Other diseases of intestines K65-K67 Diseases of peritoneum K70-K77 Diseases of liver	5 283 3 38 43 5 167 7 12 2 16 17 133 3 54 1 2 4 40	<1% 15% <1% 2.0% 2.3% <1% 8.8% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
	ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections J30-J39 Other diseases of upper respiratory tract J40-J47 Chronic lower respiratory diseases J60-J70 Lung diseases due to external agents J80-J84 Other respiratory diseases principally affecting the interstitium J85-J86 Suppurative and necrotic conditions of lower respiratory tract J90-J94 Other diseases of pleura J95-J99 Other diseases of the respiratory system EASES OF THE DIGESTIVE SYSTEM K00-K14 Diseases of oral cavity, salivary glands and jaws K20-K31 Diseases of oseophagus, stomach and duodenum K35-K38 Diseases of appendix K40-K46 Hernia K50-K52 Noninfective enteritis and colitis K55-K64 Other diseases of intestines K65-K67 Diseases of peritoneum K70-K77 Diseases of liver	5 283 3 38 43 5 167 7 12 2 16 17 133 3 54 1 2 4 40 3 19	<1% 15% <1% 2.0% 2.3% <1% 8.8% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
	ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections J30-J39 Other diseases of upper respiratory tract J40-J47 Chronic lower respiratory diseases J60-J70 Lung diseases due to external agents J80-J84 Other respiratory diseases principally affecting the interstitium J85-J86 Suppurative and necrotic conditions of lower respiratory tract J90-J94 Other diseases of pleura J95-J99 Other diseases of the respiratory system EASES OF THE DIGESTIVE SYSTEM K00-K14 Diseases of oral cavity, salivary glands and jaws K20-K31 Diseases of osophagus, stomach and duodenum K35-K38 Diseases of appendix K40-K46 Hernia K50-K52 Noninfective enteritis and colitis K55-K64 Other diseases of intestines K65-K67 Diseases of peritoneum K70-K77 Diseases of gallbladder, biliary tract and pancreas	5 283 3 38 43 5 167 7 12 2 16 17 133 3 54 1 2 4 40 3 19 7	<1% 15% <1% 2.0% 2.3% <1% 8.8% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
	ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections J30-J39 Other diseases of upper respiratory tract J40-J47 Chronic lower respiratory diseases J60-J70 Lung diseases due to external agents J80-J84 Other respiratory diseases principally affecting the interstitium J85-J86 Suppurative and necrotic conditions of lower respiratory tract J90-J94 Other diseases of pleura J95-J99 Other diseases of the respiratory system EASES OF THE DIGESTIVE SYSTEM K00-K14 Diseases of oral cavity, salivary glands and jaws K20-K31 Diseases of oseophagus, stomach and duodenum K35-K38 Diseases of appendix K40-K46 Hernia K50-K52 Noninfective enteritis and colitis K55-K64 Other diseases of intestines K65-K67 Diseases of peritoneum K70-K77 Diseases of liver	5 283 3 38 43 5 167 7 12 2 16 17 133 3 54 1 2 4 40 3 19	<1% 15% <1% 2.0% 2.3% <1% 8.8% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
K00-K93 DIS	ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections J30-J39 Other diseases of upper respiratory tract J40-J47 Chronic lower respiratory diseases J60-J70 Lung diseases due to external agents J80-J84 Other respiratory diseases principally affecting the interstitium J85-J86 Suppurative and necrotic conditions of lower respiratory tract J90-J94 Other diseases of pleura J95-J99 Other diseases of the respiratory system EASES OF THE DIGESTIVE SYSTEM K00-K14 Diseases of oral cavity, salivary glands and jaws K20-K31 Diseases of oseophagus, stomach and duodenum K35-K38 Diseases of appendix K40-K46 Hernia K50-K52 Noninfective enteritis and colitis K55-K64 Other diseases of intestines K65-K67 Diseases of peritoneum K70-K77 Diseases of peritoneum K70-K77 Diseases of gallbladder, biliary tract and pancreas K90-K93 Other diseases of the digestive system	5 283 3 38 43 5 167 7 12 2 16 17 133 3 54 1 2 4 40 3 19 7	<1% 15% <1% 2.0% 2.3% <1% 8.8% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
K00-K93 DIS	ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections J30-J39 Other diseases of upper respiratory tract J40-J47 Chronic lower respiratory diseases J60-J70 Lung diseases due to external agents J80-J84 Other respiratory diseases principally affecting the interstitium J85-J86 Suppurative and necrotic conditions of lower respiratory tract J90-J94 Other diseases of pleura J95-J99 Other diseases of the respiratory system EASES OF THE DIGESTIVE SYSTEM K00-K14 Diseases of oral cavity, salivary glands and jaws K20-K31 Diseases of osophagus, stomach and duodenum K35-K38 Diseases of appendix K40-K46 Hernia K50-K52 Noninfective enteritis and colitis K55-K64 Other diseases of intestines K65-K67 Diseases of peritoneum K70-K77 Diseases of gallbladder, biliary tract and pancreas	5 283 3 38 43 5 167 7 12 2 16 17 133 3 54 1 2 4 40 3 19 7	<1% 15% <1% 2.0% 2.3% <1% 8.8% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
K00-K93 DIS	ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory tract J40-J47 Chronic lower respiratory diseases J60-J70 Lung diseases of upper respiratory diseases J60-J70 Lung diseases due to external agents J80-J84 Other respiratory diseases principally affecting the interstitium J85-J86 Suppurative and necrotic conditions of lower respiratory tract J90-J94 Other diseases of pleura J95-J99 Other diseases of the respiratory system EASES OF THE DIGESTIVE SYSTEM K00-K14 Diseases of oac cavity, salivary glands and jaws K20-K31 Diseases of oac phagus, stomach and duodenum K35-K38 Diseases of appendix K40-K46 Hernia K50-K52 Noninfective enteritis and colitis K55-K64 Other diseases of intestines K65-K67 Diseases of peritoneum K70-K77 Diseases of iver K80-K87 Disorders of gallbladder, biliary tract and pancreas K90-K93 Other diseases of the digestive system	5 283 3 38 43 5 167 7 12 2 16 17 133 3 54 1 2 4 40 3 19 7 13	<1% 15% <1% 2.0% 2.3% <1% 8.8% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
K00-K93 DIS	ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections J30-J39 Other diseases of upper respiratory tract J40-J47 Chronic lower respiratory diseases J60-J70 Lung diseases due to external agents J80-J84 Other respiratory diseases principally affecting the interstitium J85-J86 Suppurative and necrotic conditions of lower respiratory tract J90-J94 Other diseases of pleura J95-J99 Other diseases of the respiratory system EASES OF THE DIGESTIVE SYSTEM K00-K14 Diseases of oral cavity, salivary glands and jaws K20-K31 Diseases of oseophagus, stomach and duodenum K35-K38 Diseases of appendix K40-K46 Hernia K50-K52 Noninfective enteritis and colitis K55-K64 Other diseases of intestines K65-K67 Diseases of peritoneum K70-K77 Diseases of liver K80-K87 Disorders of gallbladder, biliary tract and pancreas K90-K93 Other diseases of the digestive system	5 283 3 38 43 5 167 7 12 2 16 17 133 3 54 1 2 4 40 3 19 7 13	<1% 15% <1% 2.0% 2.3% <1% 8.8% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
K00-K93 DIS	ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections J30-J39 Other diseases of upper respiratory tract J40-J47 Chronic lower respiratory diseases J60-J70 Lung diseases due to external agents J80-J84 Other respiratory diseases principally affecting the interstitium J85-J86 Suppurative and necrotic conditions of lower respiratory tract J90-J94 Other diseases of pleura J95-J99 Other diseases of the respiratory system EASES OF THE DIGESTIVE SYSTEM K00-K14 Diseases of oral cavity, salivary glands and jaws K20-K31 Diseases of oseophagus, stomach and duodenum K35-K38 Diseases of appendix K40-K46 Hernia K50-K52 Noninfective enteritis and colitis K55-K64 Other diseases of intestines K65-K67 Diseases of peritoneum K70-K77 Diseases of liver K80-K87 Disorders of gallbladder, biliary tract and pancreas K90-K93 Other diseases of the digestive system	5 283 3 38 43 5 167 7 12 2 16 17 133 3 54 1 2 4 40 3 19 7 13 44 12 1	<1% 15% <1% 2.0% 2.3% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
K00-K93 DIS	ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections J30-J39 Other diseases of upper respiratory tract J40-J47 Chronic lower respiratory diseases J60-J70 Lung diseases due to external agents J80-J84 Other respiratory diseases principally affecting the interstitium J85-J86 Suppurative and necrotic conditions of lower respiratory tract J90-J94 Other diseases of pleura J95-J99 Other diseases of the respiratory system EASES OF THE DIGESTIVE SYSTEM K00-K14 Diseases of oral cavity, salivary glands and jaws K20-K31 Diseases of oseophagus, stomach and duodenum K35-K38 Diseases of appendix K40-K46 Hernia K50-K52 Noninfective enteritis and colitis K55-K64 Other diseases of intestines K65-K67 Diseases of peritoneum K70-K77 Diseases of liver K80-K87 Disorders of gallbladder, biliary tract and pancreas K90-K93 Other diseases of the digestive system	5 283 3 38 43 5 167 7 12 2 16 17 133 3 54 1 2 4 40 3 19 7 13	<1% 15% <1% 2.0% 2.3% <1% 8.8% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
K00-K93 DIS	ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections J30-J39 Other diseases of upper respiratory tract J40-J47 Chronic lower respiratory diseases J60-J70 Lung diseases due to external agents J80-J84 Other respiratory diseases principally affecting the interstitium J85-J86 Suppurative and necrotic conditions of lower respiratory tract J90-J94 Other diseases of pleura J95-J99 Other diseases of the respiratory system EASES OF THE DIGESTIVE SYSTEM K00-K14 Diseases of oral cavity, salivary glands and jaws K20-K31 Diseases of oscophagus, stomach and duodenum K35-K38 Diseases of appendix K40-K46 Hernia K50-K52 Noninfective enteritis and colitis K55-K64 Other diseases of intestines K65-K67 Diseases of peritoneum K70-K77 Diseases of peritoneum K70-K77 Diseases of liver K80-K87 Disorders of gallbladder, biliary tract and pancreas K90-K93 Other diseases of the digestive system EASES OF THE SKIN AND SUBCUTANEOUS TISSUE L00-L08 Infections of the skin and subcutaneous tissue L10-L14 Bullous disorders L20-L30 Dermatitis and eczema	5 283 3 38 43 5 167 7 12 2 16 17 133 3 54 1 2 4 40 3 19 7 13 44 12 1 5	<1% 15% <1% 2.0% 2.3% <1% 8.8% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
K00-K93 DIS	ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections J30-J39 Other diseases of upper respiratory tract J40-J47 Chronic lower respiratory diseases J60-J70 Lung diseases due to external agents J80-J84 Other respiratory diseases principally affecting the interstitium J85-J86 Suppurative and necrotic conditions of lower respiratory tract J90-J94 Other diseases of pleura J95-J99 Other diseases of the respiratory system EASES OF THE DIGESTIVE SYSTEM K00-K14 Diseases of oral cavity, salivary glands and jaws K20-K31 Diseases of oseophagus, stomach and duodenum K35-K38 Diseases of oseophagus, stomach and duodenum K35-K52 Noninfective enteritis and colitis K55-K64 Other diseases of intestines K65-K67 Diseases of peritoneum K70-K77 Diseases of peritoneum K70-K77 Diseases of the digestive system EASES OF THE SKIN AND SUBCUTANEOUS TISSUE L00-L08 Infections of the skin and subcutaneous tissue L10-L14 Bullous disorders L20-L30 Dermatitis and eczema L40-L45 Papulosquamous disorders	5 283 3 38 43 5 167 7 12 2 16 17 133 3 54 1 2 4 40 3 19 7 13 44 12 1 5 7	<1% 15% <1% 2.0% 2.3% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
K00-K93 DIS	ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections J30-J39 Other diseases of upper respiratory tract J40-J47 Chronic lower respiratory diseases J60-J70 Lung diseases due to external agents J80-J84 Other respiratory diseases principally affecting the interstitium J85-J86 Suppurative and necrotic conditions of lower respiratory tract J90-J94 Other diseases of pleura J95-J99 Other diseases of the respiratory system EASES OF THE DIGESTIVE SYSTEM K00-K14 Diseases of oral cavity, salivary glands and jaws K20-K31 Diseases of oseophagus, stomach and duodenum K35-K38 Diseases of appendix K40-K46 Hernia K50-K52 Noninfective enteritis and colitis K55-K64 Other diseases of intestines K65-K67 Diseases of peritoneum K70-K77 Diseases of pilver K80-K87 Disorders of gallbladder, biliary tract and pancreas K90-K93 Other diseases of the digestive system EASES OF THE SKIN AND SUBCUTANEOUS TISSUE L00-L08 Infections of the skin and subcutaneous tissue L10-L14 Bullous disorders L20-L30 Dermatitis and eczema L40-L45 Papulosquamous disorders L60-L75 Disorders of skin appendages	5 283 3 38 43 5 167 7 12 2 16 17 133 3 54 1 2 4 40 3 19 7 13 44 12 1 5 7 2	<1% 15% <1% 2.0% 2.3% <1% 8.8% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
K00-K93 DIS	ASES OF THE RESPIRATORY SYSTEM J00-J06 Acute upper respiratory infections J09-J18 Influenza and pneumonia J20-J22 Other acute lower respiratory infections J30-J39 Other diseases of upper respiratory tract J40-J47 Chronic lower respiratory diseases J60-J70 Lung diseases due to external agents J80-J84 Other respiratory diseases principally affecting the interstitium J85-J86 Suppurative and necrotic conditions of lower respiratory tract J90-J94 Other diseases of pleura J95-J99 Other diseases of the respiratory system EASES OF THE DIGESTIVE SYSTEM K00-K14 Diseases of oral cavity, salivary glands and jaws K20-K31 Diseases of oseophagus, stomach and duodenum K35-K38 Diseases of oseophagus, stomach and duodenum K35-K52 Noninfective enteritis and colitis K55-K64 Other diseases of intestines K65-K67 Diseases of peritoneum K70-K77 Diseases of peritoneum K70-K77 Diseases of the digestive system EASES OF THE SKIN AND SUBCUTANEOUS TISSUE L00-L08 Infections of the skin and subcutaneous tissue L10-L14 Bullous disorders L20-L30 Dermatitis and eczema L40-L45 Papulosquamous disorders	5 283 3 38 43 5 167 7 12 2 16 17 133 3 54 1 2 4 40 3 19 7 13 44 12 1 5 7	<1% 15% <1% 2.0% 2.3% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1

MAG MAG DICE A CEC OF THE MUSCULI OSCIELETAL SUCTEM AND CONNECTIVE TIGGLE	101	5 20/
M00-M99 DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE M00-M03 Arthropathies: Infectious arthropathies	101	5.3% <1%
M05-M14 Arthropathies: Inflammatory polyarthropathies	51	2.7%
M15-M19 Arthropathies: Arthrosis	17	<1%
M20-M25 Arthropathies: Other joint disorders	6	<1%
M30-M36 Systemic connective tissue disorders	8	<1%
M40-M43 Dorsopathies: Deforming dorsopathies	2	<1%
M45-M49 Dorsopathies: Spondylopathies	2	<1%
M50-M54 Dorsopathies: Other dorsopathies	8	<1%
M60-M63 Soft tissue disorders: Disorders of muscles	3	<1%
M70-M79 Soft tissue disorders: Other soft tissue disorders	7 2	<1% <1%
M80-M85 Osteopathies and chondropathies: Disorders of bone density and structure	2	<170
N00-N99 DISEASES OF THE GENITOURINARY SYSTEM	373	20%
N00-N08 Glomerular diseases	6	<1%
N10-N16 Renal tubulo-interstitial diseases	4	<1%
N17-N19 Renal failure	323	17%
N20-N23 Urolithiasis	1	<1%
N25-N29 Other disorders of kidney and ureter	2	<1%
N30-N39 Other diseases of urinary system	33	1.7%
N40-N51 Diseases of male genital organs	14	<1%
N60-N64 Disorders of breast	1	<1%
N70-N77 Inflammatory diseases of female pelvic organs N80-N98 Noninflammatory disorders of female genital tract	5 7	<1% <1%
100 1770 Nomination of disorders of remain gentual duct	,	\1 70
O00-O99 PREGNANCY, CHILDBIRTH AND THE PUERPERIUM	6	<1%
O10-O16 Oedema, proteinuria and hypertensive disorders in pregnancy, childbirth, puerperium	3	<1%
O30-O48 Maternal care related to the fetus and amniotic cavity and possible delivery problems	1	<1%
O80-O84 Delivery	3	<1%
Q00-Q99 CONGENITAL MALFORMATIONS, DEFORMATIONS AND CHROMOSOMAL ABNORMALITIES	7	<1%
Q00-Q07 Congenital malformations of the nervous system	1	<1%
Q30-Q34 Congenital malformations of the respiratory system	1	<1%
Q38-Q45 Other congenital malformations of the digestive system	1	<1%
Q60-Q64 Congenital malformations of the urinary system Q80-Q89 Other congenital malformations	1 3	<1% <1%
Q00-Q07 Other congenital manormations	3	<1 /u
S00-T98 INJURY, POISONING AND CERTAIN OTHER CONSEQUENCES OF EXTERNAL CAUSES	20	1.1%
S00-S09 Injuries to the head	2	<1%
S20-S29 Injuries to the thorax	1	<1%
S40-S49 Injuries to the shoulder and upper arm	1	<1%
S50-S59 Injuries to the elbow and forearm	1	<1%
S70-S79 Injuries to the hip and thigh	4	<1%
S80-S89 Injuries to the knee and lower leg	1	<1%
S90-S99 Injuries to the ankle and foot T08-T14 Injuries to unspecified parts of trunk, limb or body region	1 1	<1%
T20-T32 Burns and corrosions	1	<1% <1%
T36-T50 Poisoning by drugs, medicaments and biological substances	1	<1%
T51-T65 Toxic effects of substances chiefly nonmedicinal as to source	1	<1%
T66-T78 Other and unspecified effects of external causes	1	<1%
T80-T88 Complications of surgical and medical care, not elsewhere classified	3	<1%
T90-T98 Sequelae of injuries, of poisoning and of other consequences of external causes	1	<1%
V01-Y98 EXTERNAL CAUSES OF MORBIDITY AND MORALITY	11	<1%
V80-V89 Accidents: Transport accidents: Other land transport accidents	1	<1%
W00-W19 Accidents: Other external causes of accidental injury: Falls X60-X84 Intentional self-harm	1 3	<1% <1%
X85-Y09 Assault	2	<1%
Y60-Y69 Complications of care: Misadventures	1	<1%
Y83-Y84 Complications of care: Without mention of misadventure	1	<1%
Y90-Y98 Supplementary factors related to causes of morbidity and mortality	2	<1%
Z00-Z99 FACTORS INFLUENCING HEALTH STATUS AND CONTACT WITH HEALTH SERVICES	318	17%
Z00-Z13 Persons encountering health services for examination and investigation	1	<1%
Z20-Z29 Persons with potential health hazards related to communicable diseases	4	<1%
Z30-Z39 Persons encountering health services in circumstances related to reproduction	1 1	<1%
Z40-Z54 Persons encountering health services for specific procedures and health care	1	<1%

Z55-Z65 Potential health hazards related to socioeconomic and psychosocial circumstances	6	<1%
Z70-Z76 Persons encountering health services in other circumstances	65	3.4%
Z80-Z99 Persons with potential health hazards related to family and personal history	275	14%

⁽a) HIV infection diagnosed during hospital admission was considered to have been present in the four weeks prior to the admission and to therefore be a comorbid condition.

SDC 5. Prevalence of drug use, according to ATC-classification, over the 4-week period prior to patients' first admission (n=1904 patients).

Drug class / Drug	Count	Proportion
A ALIMENTARY TRACT AND METABOLISM	448	24%
A02 Drugs for acid-related disorders	97	5.1%
A02A Antacids	9	<1%
A02AA Magnesium compounds	1	<1%
A02AA05 Magnesium silicate	1	<1%
A02AB Aluminium compounds	1	<1%
A02AB01 Aluminium hydroxide A02AH Antacids with sodium bicarbonate	1 2	<1% <1%
Unspecified antacids	6	<1%
A02B Drugs for peptic ulcer and gastro-oesophageal reflux disease	93	4.9%
A02BA H2-receptor antagonists	10	<1%
A02BA01 Cimetidine	3	<1%
A02BA02 Ranitidine	5	<1%
Unspecified H2-receptor antagonists	2	<1%
A02BC Proton pump inhibitors	81	4.3%
A02BC01 Omeprazole	74	3.9%
A02BC02 Pantoprazole	5	<1%
A02BC03 Lansoprazole A02BC05 Esomeprazole	2	<1% <1%
A02BX Other drugs for peptic ulcer and gastro-oesophageal reflux disease	2	<1%
Unspecified drugs for peptic ulcer and gastro-oesophageal reflux disease	1	<1%
A03 Drugs for functional gastrointestinal disorders	43	2.3%
A03B Belladonna and derivatives, plain	12	<1%
A03BA Belladonna alkaloids, tertiary amines	1	<1%
A03BA01 Atropine A03BB Belladonna alkaloids, semisynthetic, quaternary ammonium compounds	1 11	<1%
A03BB Belladonna alkalolds, semisynthetic, quaternary ammonium compounds A03BB01 Butylscopolamine	11	<1% <1%
A03F Propulsives	37	1.9%
A03FA Propulsives	37	1.9%
A03FA01 Metoclopramide	36	1.9%
A03FA03 Domperidone	1	<1%
A04 Antiemetics and antinauseants	1	<1%
A04A Antiemetics and antinauseants	1	<1%
A04AA Serotonin (5HT3) antagonists	1	<1%
A04AA01 Ondansetron	1	<1%
A04AA02 Granisetron	1	<1%
A05 Bile and liver therapy	1	<1% <1%
A05A Bile therapy A05AA Bile acid preparations	1	<1%
A05AA02 Ursodeoxycholic acid	1	<1%
A06 Laxatives	29	1.5%
A06A Laxatives A06AA Softeners, emollients	29 1	1.5%
A00AA Softeners, enforments A06AA01 Liquid paraffin	1	<1% <1%
A06AB Contact laxatives	8	<1%
A06AB02 Bisacodyl	2	<1%
A06AB06 Senna glycosides	7	<1%
A06AD Osmotically acting laxatives	18	<1%
A06AD11 Lactulose	15	<1%
A06AD18 Sorbitol	2	<1%
Unspecified osmotically acting laxatives	1	<1%
Unspecified laxatives	3	<1%
A07 Antidiarrhoeals, intestinal anti-inflammatory / anti-infective agents	28	1.5%
A07A Intestinal anti-infectives	7	<1%
A07AA A02 Numerin	7	<1%
A07AA02 Nystatin	7	<1%

A07BAO Intestnata austorems A07BAO Intestnata austorems A07BAO Intestinata austorems A07BAO Intestinata austorems A07BAO Intestinata austorems A07CA Oral rehydration salt formulations A07CA Oral rehydration salt formulations A07CA Oral rehydration salt formulations A07DA Antipropulsives A07DA Antipropulsives A07DAO Intestination anti-inflammantory agents A07DAO Intestination anti-inflammantory agents A07E Intestination anti-inflammantory agents A07E Chaminosalicylic acid and similar agents A07EC Namiosalicylic acid and similar agents A07ECO Sulfasalazine A09D igestives, incl. enzymes A09D igestives, incl. enzymes A09D igestives, incl. enzymes A09A Digestives, incl. enzymes A09A Digestives, incl. enzymes A09A Mactional Sulfasalazine A09A Digestives, incl. enzymes A09A AD witherazymes (lipase, protease etc.) A10A Insulins and analogues A10A Insulins and analogues A10A Insulins and analogues, fast-acting A10A Insulins and analogues A10A Insulins and analogues, intermediate-acting A10AC Insulins and analogues, intermediate-acting combined with fast-acting A10AC Insulins and analogues, intermediate-acting combined with fast-acting A10AB Insulins and analogues, intermediate-acting combined with fast-acting A10B Gallonamides, urea derivatives A10B Gallonamides, urea deri	AOZD Lyterian I also also at	3	-10/
A07E A07E Clectrolytes with carbohydrates A07C Electrolytes with carbohydrates A07C A Oral rehydration salt formulations A07D Antipropulsives A07D Antipropulsives A07DA Antipro	A07B Intestinal adsorbents	3	<1%
A07C Electrolytes with carbohydrates A07CA Oral rehydration salt formulations 2 cls A07CA Oral rehydration salt formulations 2 cls A07DA Antipropulsives 12 cls A07DA A07EC Aminosaticylic acid and similar agents 5 cls A07EC Aminosaticylic acid and similar agents 5 cls A07EC OI Sulfasalazine 3 cls A07ECOI Sulfasalazine 3 cls A07ECOI Sulfasalazine 3 cls A07ECOI Sulfasalazine 2 cls A07ECOI Sulfasalazine 2 cls A07ECOI Sulfasalazine 2 cls A07ECOI Sulfasalazine 3 cls A07ECOI	A07BA Charcoal preparations		<1%
A07CA Oral rehydration salt formulations A07DA Antipropulsives A07DA Intipropulsives A07DA Mitpropulsives A07DA Mitpropulsives A07DA Mitpropulsives A07DA Mitpropulsives A07DA Mitpropulsives A07E Intestinal anti-inflammatory agents A07E Intestinal anti-inflammatory agents A07ECA minosalicytic acid and similar agents A07ECOI Sulfasalazine A07ECOI Sulfasalazine A07ECO2 Mesalazine A07ECO2 Mesalazine A07ECO2 Mesalazine A07ECO2 Mesalazine A09 Digestives, incl. enzymes A09 Digestives, incl. enzymes A09 Digestives, incl. enzymes A09 Digestives, incl. enzymes A09A Digestives, incl. enzymes A10 Digestives, incl. enzymes A10 Digestives, incl. enzymes A10A Digestives, incl. enzymes A10A Digestives, incl. enzymes A10B Digestives, incl. enzymes A10	A07BA01 Medicinal charcoal	3	<1%
A07CA Oral rehydration salt formulations A07DA Antipropulsives A07DA Intipropulsives A07DA Mitpropulsives A07DA Mitpropulsives A07DA Mitpropulsives A07DA Mitpropulsives A07DA Mitpropulsives A07E Intestinal anti-inflammatory agents A07E Intestinal anti-inflammatory agents A07ECA minosalicytic acid and similar agents A07ECOI Sulfasalazine A07ECOI Sulfasalazine A07ECO2 Mesalazine A07ECO2 Mesalazine A07ECO2 Mesalazine A07ECO2 Mesalazine A09 Digestives, incl. enzymes A09 Digestives, incl. enzymes A09 Digestives, incl. enzymes A09 Digestives, incl. enzymes A09A Digestives, incl. enzymes A10 Digestives, incl. enzymes A10 Digestives, incl. enzymes A10A Digestives, incl. enzymes A10A Digestives, incl. enzymes A10B Digestives, incl. enzymes A10	A07C Electrolytes with carbohydrates	2	<1%
A07DA Antipropulsives A07DAO3 Loperamide A07DAO3 Loperamide A07DAO3 Loperamide A07E Intestinal anti-inflammatory agents A07EC Animosalicytic acid and similar agents A07EC Animosalicytic acid and similar agents A07ECO1 Sulfasalazine A07ECO2 Mesalazine A07ECO2 Mesalazine A09 Digestives, incl. enzymes A09 Digestives, incl. enzymes A09 Digestives, incl. enzymes A09AO2 Multienzymes (lipase, protease etc.) A10ADA Insulins and analogues A10ADA Insulins and analogues, fast-acting A10A Insulins and analogues, intermediate-acting A10AD Insulins and analogues, intermediate-acting combined with fast-acting A10AD Insulins and analogues, intermediate-acting combined with fast-acting A10B A10AD Insulins and analogues, intermediate-acting combined with fast-acting A10B Galba Dios glucose lowering drugs A10B Oral Biguanides A10B Oral		2.	<1%
A07DA Antipropulsives 12 <1%	· · · · · · · · · · · · · · · · · · ·		
A07DA03 Loperamide 12 <1%			
A07E Intestinal anti-inflammatory agents A07ECA Aminosalicylic acid and similar agents A07ECO I Sulfisalazine A07ECO2 Mesalazine A07ECO2 Mesalazine A07ECO2 Mesalazine A07ECO2 Mesalazine A07ECO2 Mesalazine A09 Digestives, incl. enzymes A09 Digestives, incl. enzymes A09 Digestives, incl. enzymes A09 A02 Multienzymes (lipase, protease etc.) A10 Drugs used in diabetes A09AA02 Multienzymes (lipase, protease etc.) A10 Drugs used in diabetes A10A Insulins and analogues, fast-acting A10A Insulins and analogues, fast-acting A10A Insulins and analogues, intermediate-acting A10A Insulins and analogues, intermediate-acting A10A Insulins and analogues, intermediate-acting combined with fast-acting A10A Insulins and analogues, intermediate-acting combined with fast-acting A10A B A10AB Insulins and analogues, intermediate-acting combined with fast-acting A10A B A10AB Insulins and analogues, intermediate-acting combined with fast-acting A10B Oral blood glucose lowering drugs A10B A10B Oral blood glucose lowering drugs A10B A10B B Sulfonamides, urea derivatives A10B B Sulfonamides, urea derivatives A10BB Sulfonamides, urea derivatives A10BBO Gliclazide 66 3.5% A10BBO Gliclazide 66 3.5% A10BBO Gliclazide 66 3.5% A10BBO Gliclazide 66 3.5% A10BBO Gliclazide 67 3.5% A10BBO Gliclazide 68 3.5% A10BBO Gliclazide 69 3.5% A10BBO Gliclazide 60 3.5% A10BBO Gliclazide 60 3.5% A10BBO Gliclazide 61 3.5% A10BBO Gliclazide 61 3.5% A10BBO Gliclazide 62 3.5% A10BBO Gliclazide 63 3.5% A10BBO Gliclazide 64 3.5% A10BBO Gliclazide 65 3.5% A10BBO Gliclazide 66 3.5% A10BBO Gliclazide 67 3.5% A10BBO Gliclazide 68 3.5% A10BBO Gliclazide 69 3.5% A10BBO Gliclazide 60 3.5% A10BBO Gliclazide 60 3.5% A10BBO Gliclazide 61 3.5% A10BBO Gliclazide 61 3.5% A10BBO Gliclazide 62 3.5% A10BBO Gliclazide 63 3.5% A10BBO Gliclazide 64 3.5% A10BBO Gliclazide 65 3.5% A10BBO Gliclazide 66 3.5% A10BBO Gliclazide 67 3.5% A10BBO Gliclazide			
A07EC Aminosalicylic acid and similar agents	A07DA03 Loperamide	12	<1%
A07EC01 Sulfasalazine	A07E Intestinal anti-inflammatory agents	5	<1%
A07EC01 Sulfasalazine	A07EC Aminosalicylic acid and similar agents	5	<1%
A07EC02 Mesalazine			
Unspecified antidiarrhoeals 2 1%			
A09 Digestives, incl. enzymes A09A Digestives, incl. enzymes A09AA Enzyme preparations A09AA Enzyme preparations A09AAO2 Multienzymes (lipase, protease etc.) A10 Drugs used in diabetes A10A Insulins and analogues A10A Insulins and analogues, fast-acting A10A Insulins and analogues, intermediate-acting A10AC Insulins and analogues, intermediate-acting combined with fast-acting A10AD Insulins and analogues, intermediate-acting combined with fast-acting A10AC Insulins and analogues, intermediate-acting A1			
A09A Digestives, incl. enzymes	Unspecified antidiarrhoeals	2	<1%
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A10AC Insulins and analogues, intermediate-acting 18 <1%			
A10AD Insulins and analogues, intermediate-acting combined with fast-acting A10AE Insulins and analogues, long-acting Insulin, type unspecified 30 1.6% A10B Oral blood glucose lowering drugs A10BA Biguanides A10BAO2 Metformin A10BAO2 Metformin A10BB Sulfonamides, urea derivatives A10BBO1 Glibenclamide A10BBO9 Gliclazide A10BBO9 Gliclazide Unspecified oral blood glucose lowering drugs A11 - A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS 4.1% 4.1% 4.1% 4.1% 4.1% 4.1% 4.1% 4.		16	<1%
A10AD Insulins and analogues, intermediate-acting combined with fast-acting A10AE Insulins and analogues, long-acting Insulin, type unspecified 30 1.6% A10B Oral blood glucose lowering drugs A10BA Biguanides A10BAO2 Metformin A10BAO2 Metformin A10BB Sulfonamides, urea derivatives A10BBO1 Glibenclamide A10BBO9 Gliclazide A10BBO9 Gliclazide Unspecified oral blood glucose lowering drugs A11 - A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS 4.1% 4.1% 4.1% 4.1% 4.1% 4.1% 4.1% 4.	A10AC Insulins and analogues, intermediate-acting	18	<1%
A10AE Insulins and analogues, long-acting Insulin, type unspecified 30 1.6% A10B Oral blood glucose lowering drugs A10BA Biguanides 190 10% A10BA02 Metformin 190 10% A10BB Sulfonamides, urea derivatives 109 5.7% A10BB01 Glibenclamide 43 2.3% A10BB09 Gliclazide 66 3.5% Unspecified oral blood glucose lowering drugs Unspecified treatment for diabetes A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS 1 < <		78	4.1%
Insulin, type unspecified 30 1.6% A10B Oral blood glucose lowering drugs 225 12% A10BA Biguanides 190 10% A10BA02 Metformin 190 10% A10BB Sulfonamides, urea derivatives 109 5.7% A10BB01 Glibenclamide 43 2.3% A10BB09 Gliclazide 66 3.5% Unspecified oral blood glucose lowering drugs 11 <1%			
A10B Oral blood glucose lowering drugs A10BA Biguanides 190 10% A10BA02 Metformin 190 10% A10BB Sulfonamides, urea derivatives 109 5.7% A10BB01 Glibenclamide 43 2.3% A10BB09 Gliclazide 66 3.5% Unspecified oral blood glucose lowering drugs Unspecified treatment for diabetes 11 411 < 1% A11 - A12 Vitamin and mineral supplements 212 11% B BLOOD AND BLOOD FORMING ORGANS 370 19%			
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A10BB01 Glibenclamide 43 2.3% A10BB09 Gliclazide 66 3.5% Unspecified oral blood glucose lowering drugs 11 <1% Unspecified treatment for diabetes 18 <1% A11 – A12 Vitamin and mineral supplements 212 11% B BLOOD AND BLOOD FORMING ORGANS 370 19%	A10BA02 Metformin	190	10%
A10BB01 Glibenclamide 43 2.3% A10BB09 Gliclazide 66 3.5% Unspecified oral blood glucose lowering drugs 11 <1% Unspecified treatment for diabetes 18 <1% A11 – A12 Vitamin and mineral supplements 212 11% B BLOOD AND BLOOD FORMING ORGANS 370 19%	A LOBB Sulfonamides urea derivatives	109	5.7%
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B BLOOD AND BLOOD FORMING ORGANS 370 19%			<1%
	Unspecified treatment for diabetes	18	
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B01AB Heparin group 36 1.9%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents	212 370 305 305	19% 16% 16%
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	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AA03 Warfarin B01AB Heparin group	370 305 305 57 57 36	19% 16% 16% 3.0% 3.0% 1.9%
1.	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AA03 Warfarin B01AB Heparin group B01AB01 Heparin	370 305 305 57 57 36 13	19% 16% 16% 3.0% 3.0% 1.9% <1%
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B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins	212 370 305 305 57 57 36 13 23 238	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13%
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01AC04 Clopidogrel	212 370 305 305 57 57 36 13 23 238 10	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1%
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01AC04 Clopidogrel	212 370 305 305 57 57 36 13 23 238 10	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1%
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01AC04 Clopidogrel B01AC06 Acetylsalicylic acid	212 370 305 305 57 57 36 13 23 238 10 238	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% 13%
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01AC04 Clopidogrel B01AC06 Acetylsalicylic acid B01AD Enzymes	212 370 305 305 57 57 36 13 23 238 10 238 7	19% 16% 16% 3.0% 3.0% 1.9% <11% 13% <1%
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AA03 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01AC04 Clopidogrel B01AC06 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase	212 370 305 305 57 57 36 13 23 238 10 238 7	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1%
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AA03 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01AC04 Clopidogrel B01AC06 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antihaemorrhagics	212 370 305 305 57 57 36 13 23 238 10 238 7 7	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1%
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AA03 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01AC04 Clopidogrel B01AC06 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antihaemorrhagics	212 370 305 305 57 57 36 13 23 238 10 238 7 7	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1%
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AA03 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01AC04 Clopidogrel B01AC06 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antifiberinolytics	212 370 305 305 57 57 36 13 23 238 10 238 7 7	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1%
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01ACO4 Clopidogrel B01ACO6 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antihaemorrhagics B02A Amino acids	212 370 305 305 57 57 36 13 23 238 10 238 7 7	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <1%
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AA03 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01AC Clopidogrel B01AC04 Clopidogrel B01AC06 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antifibrinolytics B02AA Amino acids B02AA Amino acids B02AA02 Tranexamic acid	212 370 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01AC Of Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antihaemorrhagics B02A Amino acids B02AA Amino acids B02AAO2 Tranexamic acid B03B Vitamin K and other haemostatics	212 370 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4 5	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01ACO4 Clopidogrel B01ACO6 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antihaemorrhagics B02A Amino acids B02AA Amino acids B02B Vitamin K and other haemostatics B02B Vitamin K and other haemostatics B02B Vitamin K	212 370 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4 5 5	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01ACO4 Clopidogrel B01ACO6 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antihaemorrhagics B02A Amino acids B02AA Amino acids B02B Vitamin K and other haemostatics B02B Vitamin K and other haemostatics B02B Vitamin K	212 370 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4 5 5	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01AC Clopidogrel B01ACO4 Clopidogrel B01ACO6 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antihaemorrhagics B02A Amino acids B02AA Amino acids B02BAO2 Tranexamic acid B02B Vitamin K and other haemostatics B02BA Vitamin K B02BAO1 Phytomenadione	212 370 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4 5 5 5 5	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01AA Nitamin K antagonists B01AA Vitamin K antagonists B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01AC Platelet aggregation inhibitors, excl. heparins B01AC Enzymes B01AD01 Streptokinase B02 Antihaemorrhagics B02A Antifibrinolytics B02AA Antifibrinolytics B02BA Vitamin K and other haemostatics B02BA Vitamin K B02BA O1 Phytomenadione B03 Anti-anaemic preparations	212 370 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4 5 5 5 77	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01AA Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01ACO4 Clopidogrel B01ACO6 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antihaemorrhagics B02A Amino acids B02AA Amino acids B02BA Vitamin K and other haemostatics B02BA Vitamin K B02BA01 Phytomenadione B03 Anti-anaemic preparations B03A Iron preparations	212 370 305 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4 5 5 5 77 55	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01AA Antithrombotic agents B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01ACO4 Clopidogrel B01ACO6 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antihaemorrhagics B02AA Amino acids B02AA Amino acids B02B Vitamin K and other haemostatics B02BAO1 Phytomenadione B03 Anti-anaemic preparations B03A Iron preparations B03A Iron preparations B03AA Iron bivalent, oral preparations	212 370 305 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4 5 5 5 77 55 54	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01AA Antithrombotic agents B01AA Vitamin K antagonists B01AA Vitamin K antagonists B01ABO1 Heparin B01ABO1 Heparin B01ABO5 Enoxaparin B01ACO4 Platelet aggregation inhibitors, excl. heparins B01ACO4 Clopidogrel B01ACO6 Acetylsalicylic acid B01AD Enzymes B01ADD1 Streptokinase B02 Antihaemorrhagics B02A Amino acids B02AA Amino acids B02AAO2 Tranexamic acid B02B Vitamin K and other haemostatics B02BAO1 Phytomenadione B03 Anti-anaemic preparations B03AA Iron bivalent, oral preparations B03AAO7 Ferrous sulfate	212 370 305 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4 5 5 5 77 55 54 54	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <21% <21%
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01ACO4 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01AA Antithrombotic agents B01AA Vitamin K antagonists B01AAO Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01ACO4 Clopidogrel B01ACO6 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antifibrinolytics B02A Antifibrinolytics B02AA Amino acids B02AAO2 Tranexamic acid B02B Vitamin K and other haemostatics B02BAO1 Phytomenadione B03 Anti-anaemic preparations B03A Iron bivalent, oral preparations B03AAO7 Ferrous sulfate B03AD Iron in combination with folic acid	212 370 305 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4 5 5 5 77 55 54 54 2	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <21% <21%
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01AA Antithrombotic agents B01AA Vitamin K antagonists B01AAO Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01ACO4 Clopidogrel B01ACO6 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antifibrinolytics B02A Antifibrinolytics B02AA Amino acids B02AAO2 Tranexamic acid B02B Vitamin K and other haemostatics B02BAO1 Phytomenadione B03 Anti-anaemic preparations B03A Iron bivalent, oral preparations B03AAO7 Ferrous sulfate B03AD Iron in combination with folic acid	212 370 305 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4 5 5 5 77 55 54 54 2	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <21% <21%
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01ACO4 Clopidogrel 10 <1%	B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB0 Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Clopidogrel B01AC04 Clopidogrel B01AC06 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antihaemorrhagics B02A Antifibrinolytics B02AA Amino acids B02AA Of Tranexamic acid B02B Vitamin K and other haemostatics B02BA Vitamin K B02BA Of Phytomenadione B03 Anti-anaemic preparations B03A Iron preparations B03AA Of Ferrous sulfate B03AD 10 no in combination with folic acid B03AD02 Ferrous fumarate	212 370 305 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4 5 5 5 77 55 54 54 2 2	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01ACO4 Clopidogrel 10 <1%	B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01AC Platelet aggregation inhibitors, excl. heparins B01AC Clopidogrel B01ACO4 Clopidogrel B01ACO6 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antihaemorrhagics B02A Antifibrinolytics B02AA Amino acids B02AA Amino acids B02AA Amino acids B02BA Vitamin K and other haemostatics B02BA Vitamin K B02BAO1 Phytomenadione B03 Anti-anaemic preparations B03A Iron preparations B03A Iron bivalent, oral preparations B03AD Iron in combination with folic acid B03AD02 Ferrous sulfate B03AD02 Ferrous fumarate B03B Vitamin B12 and folic acid	212 370 305 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4 5 5 5 77 55 54 54 54	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
ROLA Antithrombotic agents	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS	212 370	19%
· · · · · · · · · · · · · · · · · · ·	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents	212 370 305	19% 16%
· ·	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents	212 370 305 305	19% 16% 16%
B01AA03 Warfarin 57 3.0%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents	212 370 305 305	19% 16% 16%
	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists	370 305 305 57	19% 16% 16% 3.0%
	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AA03 Warfarin	370 305 305 57 57	19% 16% 16% 3.0% 3.0%
B01AB01 Heparin 13 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AA03 Warfarin	370 305 305 57 57	19% 16% 16% 3.0% 3.0%
	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AA03 Warfarin B01AB Heparin group	370 305 305 57 57 36	19% 16% 16% 3.0% 3.0% 1.9%
1.	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AA03 Warfarin B01AB Heparin group B01AB01 Heparin	370 305 305 57 57 36 13	19% 16% 16% 3.0% 3.0% 1.9% <1%
B01AB05 Enoxaparin 23 1.2%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AA03 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin	212 370 305 305 57 57 36 13 23	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2%
B01AB05 Enoxaparin 23 1.2%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AA03 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin	212 370 305 305 57 57 36 13 23	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2%
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins	212 370 305 305 57 57 36 13 23 238	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13%
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01AC04 Clopidogrel	212 370 305 305 57 57 36 13 23 238 10	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1%
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01AC04 Clopidogrel B01AC06 Acetylsalicylic acid	212 370 305 305 57 57 36 13 23 238 10 238	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% 13%
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01AC04 Clopidogrel B01AC06 Acetylsalicylic acid	212 370 305 305 57 57 36 13 23 238 10 238	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% 13%
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01AC04 Clopidogrel B01AC06 Acetylsalicylic acid B01AD Enzymes	212 370 305 305 57 57 36 13 23 238 10 238 7	19% 16% 16% 3.0% 3.0% 1.9% <11% 13% <1%
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01AC04 Clopidogrel B01AC06 Acetylsalicylic acid B01AD Enzymes	212 370 305 305 57 57 36 13 23 238 10 238 7	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1%
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AA03 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01AC04 Clopidogrel B01AC06 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase	212 370 305 305 57 57 36 13 23 238 10 238 7	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1%
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AA03 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01AC04 Clopidogrel B01AC06 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antihaemorrhagics	212 370 305 305 57 57 36 13 23 238 10 238 7 7	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1%
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AA03 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01AC04 Clopidogrel B01AC06 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antihaemorrhagics	212 370 305 305 57 57 36 13 23 238 10 238 7 7	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1%
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AA03 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01AC04 Clopidogrel B01AC06 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antifiberinolytics	212 370 305 305 57 57 36 13 23 238 10 238 7 7	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1%
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01ACO4 Clopidogrel B01ACO6 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antihaemorrhagics B02A Amino acids	212 370 305 305 57 57 36 13 23 238 10 238 7 7	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <1%
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01ACO4 Clopidogrel B01ACO6 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antihaemorrhagics B02A Amino acids	212 370 305 305 57 57 36 13 23 238 10 238 7 7	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <1%
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AA03 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01AC Clopidogrel B01AC04 Clopidogrel B01AC06 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antifibrinolytics B02AA Amino acids B02AA Amino acids B02AA02 Tranexamic acid	212 370 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AA03 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01AC Clopidogrel B01AC04 Clopidogrel B01AC06 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antifibrinolytics B02AA Amino acids B02AA Amino acids B02AA02 Tranexamic acid	212 370 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01AC Of Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antihaemorrhagics B02A Amino acids B02AA Amino acids B02AAO2 Tranexamic acid B03B Vitamin K and other haemostatics	212 370 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4 5	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01AC Of Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antihaemorrhagics B02A Amino acids B02AA Amino acids B02AAO2 Tranexamic acid B03B Vitamin K and other haemostatics	212 370 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4 5	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01AC Of Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antihaemorrhagics B02A Amino acids B02AA Amino acids B02AAO2 Tranexamic acid B03B Vitamin K and other haemostatics	212 370 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4 5	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01ACO4 Clopidogrel B01ACO6 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antihaemorrhagics B02A Amino acids B02AA Amino acids B02B Vitamin K and other haemostatics B02B Vitamin K and other haemostatics B02B Vitamin K	212 370 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4 5 5	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01ACO4 Clopidogrel B01ACO6 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antihaemorrhagics B02A Amino acids B02AA Amino acids B02B Vitamin K and other haemostatics B02B Vitamin K and other haemostatics B02B Vitamin K	212 370 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4 5 5	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01AC Clopidogrel B01ACO4 Clopidogrel B01ACO6 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antihaemorrhagics B02A Amino acids B02AA Amino acids B02BAO2 Tranexamic acid B02B Vitamin K and other haemostatics B02BA Vitamin K B02BAO1 Phytomenadione	212 370 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4 5 5 5 5	19% 16% 16% 3.0% 3.0% 3.9% <1.9% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01AA Nitamin K antagonists B01AA Vitamin K antagonists B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01AC Platelet aggregation inhibitors, excl. heparins B01AC Enzymes B01AD01 Streptokinase B02 Antihaemorrhagics B02A Antifibrinolytics B02AA Antifibrinolytics B02BA Vitamin K and other haemostatics B02BA Vitamin K B02BA O1 Phytomenadione B03 Anti-anaemic preparations	212 370 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4 5 5 5 77	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01AA Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01ACO4 Clopidogrel B01ACO6 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antihaemorrhagics B02A Amino acids B02AA Amino acids B02BA Vitamin K and other haemostatics B02BA Vitamin K B02BA01 Phytomenadione B03 Anti-anaemic preparations B03A Iron preparations	212 370 305 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4 5 5 5 77 55	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01AA Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01ACO4 Clopidogrel B01ACO6 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antihaemorrhagics B02A Amino acids B02AA Amino acids B02BA Vitamin K and other haemostatics B02BA Vitamin K B02BA01 Phytomenadione B03 Anti-anaemic preparations B03A Iron preparations	212 370 305 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4 5 5 5 77 55	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01AA Antithrombotic agents B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01ACO4 Clopidogrel B01ACO6 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antihaemorrhagics B02AA Amino acids B02AA Amino acids B02B Vitamin K and other haemostatics B02BAO1 Phytomenadione B03 Anti-anaemic preparations B03A Iron preparations B03A Iron preparations B03AA Iron bivalent, oral preparations	212 370 305 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4 5 5 5 77 55 54	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01AA Antithrombotic agents B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01ACO4 Clopidogrel B01ACO6 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antihaemorrhagics B02AA Amino acids B02AA Amino acids B02B Vitamin K and other haemostatics B02BAO1 Phytomenadione B03 Anti-anaemic preparations B03A Iron preparations B03A Iron preparations B03AA Iron bivalent, oral preparations	212 370 305 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4 5 5 5 77 55 54 54	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01AA Antithrombotic agents B01AA Vitamin K antagonists B01AA Vitamin K antagonists B01ABO1 Heparin B01ABO1 Heparin B01ABO5 Enoxaparin B01ACO4 Platelet aggregation inhibitors, excl. heparins B01ACO4 Clopidogrel B01ACO6 Acetylsalicylic acid B01AD Enzymes B01ADD1 Streptokinase B02 Antihaemorrhagics B02A Amino acids B02AA Amino acids B02AAO2 Tranexamic acid B02B Vitamin K and other haemostatics B02BAO1 Phytomenadione B03 Anti-anaemic preparations B03AA Iron bivalent, oral preparations B03AAO7 Ferrous sulfate	212 370 305 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4 5 5 5 77 55 54 54	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <1% <2.1% <2.1% <2.1% <2.1% <2.1% <2.1% <2.1% <2.1% <2.1% <2.1% <2.1% <2.1% <2.1% <2.1% <2.2% <2.2% <2.2% <2.2% <2.2% <2.2% <2.2% <2.2%
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01AA Antithrombotic agents B01AA Vitamin K antagonists B01AAO Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01ACO4 Clopidogrel B01ACO6 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antifibrinolytics B02A Antifibrinolytics B02AA Amino acids B02AAO2 Tranexamic acid B02B Vitamin K and other haemostatics B02BAO1 Phytomenadione B03 Anti-anaemic preparations B03A Iron bivalent, oral preparations B03AAO7 Ferrous sulfate B03AD Iron in combination with folic acid	212 370 305 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4 5 5 5 77 55 54 54 2	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <21% <21%
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	A11 – A12 Vitamin and mineral supplements B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01AA Antithrombotic agents B01AA Vitamin K antagonists B01AAO Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01ACO4 Clopidogrel B01ACO6 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antifibrinolytics B02A Antifibrinolytics B02AA Amino acids B02AAO2 Tranexamic acid B02B Vitamin K and other haemostatics B02BAO1 Phytomenadione B03 Anti-anaemic preparations B03A Iron bivalent, oral preparations B03AAO7 Ferrous sulfate B03AD Iron in combination with folic acid	212 370 305 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4 5 5 5 77 55 54 54 2	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <21% <21%
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB0 Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Clopidogrel B01AC04 Clopidogrel B01AC06 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antihaemorrhagics B02A Antifibrinolytics B02AA Amino acids B02AA Of Tranexamic acid B02B Vitamin K and other haemostatics B02BA Vitamin K B02BA Of Phytomenadione B03 Anti-anaemic preparations B03A Iron preparations B03AA Of Ferrous sulfate B03AD 10 no in combination with folic acid B03AD02 Ferrous fumarate	212 370 305 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4 5 5 5 77 55 54 54 2 2	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <21% <21%
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01AC04 Clopidogrel 10 <1%	B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB0 Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Clopidogrel B01AC04 Clopidogrel B01AC06 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antihaemorrhagics B02A Antifibrinolytics B02AA Amino acids B02AA Of Tranexamic acid B02B Vitamin K and other haemostatics B02BA Vitamin K B02BA Of Phytomenadione B03 Anti-anaemic preparations B03A Iron preparations B03AA Of Ferrous sulfate B03AD 10 no in combination with folic acid B03AD02 Ferrous fumarate	212 370 305 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4 5 5 5 77 55 54 54 2 2	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <21% <21%
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01ACO4 Clopidogrel 10 <1%	B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01AC Platelet aggregation inhibitors, excl. heparins B01AC Clopidogrel B01ACO4 Clopidogrel B01ACO6 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antihaemorrhagics B02A Antifibrinolytics B02AA Amino acids B02AA Amino acids B02AA Amino acids B02BA Vitamin K and other haemostatics B02BA Vitamin K B02BAO1 Phytomenadione B03 Anti-anaemic preparations B03A Iron preparations B03A Iron bivalent, oral preparations B03AD Iron in combination with folic acid B03AD02 Ferrous sulfate B03AD02 Ferrous fumarate B03B Vitamin B12 and folic acid	212 370 305 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4 5 5 5 77 55 54 54 54	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1
B01AB05 Enoxaparin 23 1.2% B01AC Platelet aggregation inhibitors, excl. heparins 238 13% B01ACO4 Clopidogrel 10 <1%	B BLOOD AND BLOOD FORMING ORGANS B01 Antithrombotic agents B01A Antithrombotic agents B01AA Vitamin K antagonists B01AAO3 Warfarin B01AB Heparin group B01AB01 Heparin B01AB05 Enoxaparin B01AC Platelet aggregation inhibitors, excl. heparins B01AC Platelet aggregation inhibitors, excl. heparins B01AC Clopidogrel B01ACO4 Clopidogrel B01ACO6 Acetylsalicylic acid B01AD Enzymes B01AD01 Streptokinase B02 Antihaemorrhagics B02A Antifibrinolytics B02AA Amino acids B02AA Amino acids B02AA Amino acids B02BA Vitamin K and other haemostatics B02BA Vitamin K B02BAO1 Phytomenadione B03 Anti-anaemic preparations B03A Iron preparations B03A Iron bivalent, oral preparations B03AD Iron in combination with folic acid B03AD02 Ferrous sulfate B03AD02 Ferrous fumarate B03B Vitamin B12 and folic acid	212 370 305 305 305 57 57 36 13 23 238 10 238 7 7 9 4 4 4 5 5 5 77 55 54 54 54	19% 16% 16% 3.0% 3.0% 1.9% <1% 1.2% 13% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1

Poor Lot G	2	10/
B03BA01 Cyanocobalamin	3	<1%
B03BB Folic acid and derivatives	48	2.5%
B03BB01 Folic acid	48	2.5%
B03X Other anti-anaemic preparations	2	<1%
B03XA Other anti-anaemic preparations	2	<1%
B03XA01 Erythropoietin	2	<1%
B05 Blood substitutes and perfusion solutions	12	<1%
B05B IV solutions	5	<1%
B05BA Solutions for parenteral nutrition	5	<1%
B05BA03 Carbohydrate solutions for parenteral nutrition	5	<1%
B05C Irrigating solutions	4	<1%
B05CX Other irrigating solutions	4	<1%
B05CX01 Glucose	4	<1%
B05X IV Solution additives	4	<1%
	4	
B05XA Electrolyte solutions		<1%
B05XA01 Potassium chloride	2	<1%
B05XA02 Sodium bicarbonate	2	<1%
C CARDIOVASCULAR SYSTEM	765	40%
G01 G 11 11	122	7.00
C01 Cardiac therapy	133	7.0%
C01A Cardiac glycosides	40	2.1%
C01AA Digitalis glycosides	40	2.1%
C01AA05 Digoxin	40	2.1%
C01B Anti-arrhythmics, class I and III	7	<1%
C01BA Anti-arrhythmics, class Ia	1	<1%
C01BA03 Disopyramide	1	<1%
C01BD Anti-arrhythmics, class III	6	<1%
C01BD01 Amiodarone	6	<1%
C01C Cardiac stimulants, excl. cardiac glycosides	2	<1%
	2	
C01CA Adrenergic and dopaminergic agents		<1%
C01CA24 Epinephrine	2	<1%
C01D Vasodilators used in cardiac diseases	85	4.5%
C01DA Organic nitrates	85	4.5%
C01DA02 Glyceryl trinitrate	5	<1%
C01DA08 Isosorbide dinitrate	67	3.5%
C01DA14 Isosorbide mononitrate	26	1.4%
Unspecified nitrates	2	<1%
C01E Other cardiac preparations	2	<1%
C01EB Other cardiac preparations	2	<1%
C01EB10 Adenosine	1	<1%
C01EB17 Ivabradine	1	<1%
CoTED1/ Ivadiaume	1	<170
C02 Antihypertensives	35	1.8%
C02A Antiadrenergic agents, centrally acting	2	<1%
C02AB Methyldopa	2	<1%
C02AB01 Methyldopa (levorotatory)	2	<1%
C02C Antiadrenergic agents, peripherally acting	17	<1%
C02CA Alpha-adrenoreceptor antagonists	17	<1%
C02CA01 Prazosin	3	<1%
C02CA04 Doxazosin	14	<1%
C02D Arteriolar smooth muscle, agents acting on	22	1.2%
C02DB Hydrazinophthalazine derivatives	21	1.1%
C02DB02 Hydralazine	21	1.1%
C02DC Pyrimidine derivatives	1	<1%
C02DC01 Minoxidil	1	<1%
C03 Diuretics	559	29%
C03A Low-ceiling diuretics, thiazides	262	14%
C03AA Thiazides, plain	260	14%
C03AA03 Hydrochlorothiazide	260	14%
C03AB Thiazides and potassium in combination	2	<1%
C03AB03 Hydrochlorothiazide and potassium	2	<1%
C03B Low-ceiling diuretics, excl. thiazides	1	<1%
CO3B Sulfonamides, plain	1	<1%
C03BA11 Indapamide	1	<1%

C03C High-ceiling diuretics	327	17%
C03CA Sulfonamides, plain	327	17%
C03CA01 Furosemide	327	17%
C03D Potassium-sparing agents	80	4.2%
C03DA Aldosterone antagonists	79	4.1%
C03DA01 Spironolactone	79	4.1%
C03DB Other potassium-sparing agents	1	<1%
C03DB01 Amiloride	1	<1%
Unspecified diuretics	2	<1%
onspective didicties	L	\1 70
C05 Vasoprotectives	1	<1%
C05A Anti-haemorrhoidals for topical use	1	<1%
C05AX Other anti-haemorrhoidals for topical use	1	<1%
•		
C05AX02 Bismuth preparations, combinations	1	<1%
CO7 Data blooking agents	186	9.8%
C07 Beta-blocking agents		
C07A Beta-blocking agents	186	9.8%
C07AA Beta-blocking agents, non-selective	6	<1%
C07AA05 Propranolol	6	<1%
C07AB Beta-blocking agents, selective	134	7.0%
C07AB03 Atenolol	132	6.9%
	2	
C07AB07 Bisoprolol		<1%
C07AG Alpha- and beta-blocking agents	48	2.5%
C07AG02 Carvedilol	48	2.5%
C08 Calcium channel blockers	240	13%
C08C Selective calcium channel blockers with mainly vascular effects	230	12%
C08CA Dihydropyridine derivatives	230	12%
C08CA01 Amlodipine	187	9.8%
C08CA05 Nifedipine	44	2.3%
<u>.</u>		
C08D Selective calcium channel blockers with direct cardiac effects	10	<1%
C08DA Phenylalkylamine derivatives	9	<1%
C08DA01 Verapamil	9	<1%
C08DB Benzothiazepine derivatives	1	<1%
C08DB01 Diltiazem	1	<1%
Cooper Dinazeni	1	\1 70
C09 Agents acting on the renin-angiotensin system	386	20%
C09A ACE-inhibitors, plain	369	19%
*		19%
C09AA ACE-inhibitors, plain	369	
C09AA01 Captopril	6	<1%
C09AA02 Enalapril	246	13%
C09AA04 Perindopril	117	6.1%
C09B ACE-inhibitors, combinations	4	<1%
C09BA ACE-inhibitors and diuretics	4	<1%
C09BA03 Lisinopril and diuretics	1	<1%
C09BA04 Perindopril and diuretics	3	<1%
C09C Angiotensin II antagonists, plain	14	<1%
C09CA Angiotensin II antagonists, plain	14	<1%
C09CA01 Losartan	13	<1%
C09CA03 Valsartan	1	<1%
C09D Angiotensin II antagonists, combinations	1	<1%
C09DA Angiotensin II antagonists and diuretics	1	<1%
C09DA07 Telmisartan and diuretics	1	<1%
	-	
C10 Serum lipid reducing agents	223	12%
C10 Serum lipid reducing agents C10A Cholesterol and triglyceride reducers		12% 12%
	223	
C10A Cholesterol and triglyceride reducers C10AA HMG-coA reductase inhibitors	223 220 217	12% 11%
C10A Cholesterol and triglyceride reducers C10AA HMG-coA reductase inhibitors C10AA01 Simvastatin	223 220 217 208	12% 11% 11%
C10A Cholesterol and triglyceride reducers C10AA HMG-coA reductase inhibitors C10AA01 Simvastatin C10AA05 Atorvastatin	223 220 217 208 6	12% 11% 11% <1%
C10A Cholesterol and triglyceride reducers C10AA HMG-coA reductase inhibitors C10AA01 Simvastatin C10AA05 Atorvastatin Unspecified statins	223 220 217 208 6 3	12% 11% 11% <1% <1%
C10A Cholesterol and triglyceride reducers C10AA HMG-coA reductase inhibitors C10AA01 Simvastatin C10AA05 Atorvastatin Unspecified statins C10AB Fibrates	223 220 217 208 6 3	12% 11% 11% <1% <1% <1%
C10A Cholesterol and triglyceride reducers C10AA HMG-coA reductase inhibitors C10AA01 Simvastatin C10AA05 Atorvastatin Unspecified statins	223 220 217 208 6 3	12% 11% 11% <1% <1%
C10A Cholesterol and triglyceride reducers C10AA HMG-coA reductase inhibitors C10AA01 Simvastatin C10AA05 Atorvastatin Unspecified statins C10AB Fibrates	223 220 217 208 6 3	12% 11% 11% <1% <1% <1%
C10A Cholesterol and triglyceride reducers C10AA HMG-coA reductase inhibitors C10AA01 Simvastatin C10AA05 Atorvastatin Unspecified statins C10AB Fibrates C10AB02 Bezafibrate C10AC Bile acid sequestrants	223 220 217 208 6 3 1 1	12% 11% 11% <1% <1% <1% <1% <1%
C10A Cholesterol and triglyceride reducers C10AA HMG-coA reductase inhibitors C10AA01 Simvastatin C10AA05 Atorvastatin Unspecified statins C10AB Fibrates C10AB02 Bezafibrate C10AC Bile acid sequestrants C10AC01 Cholestyramine	223 220 217 208 6 3 1 1 2 2	12% 11% 11% <1% <1% <1% <1% <1%
C10A Cholesterol and triglyceride reducers C10AA HMG-coA reductase inhibitors C10AA01 Simvastatin C10AA05 Atorvastatin Unspecified statins C10AB Fibrates C10AB02 Bezafibrate C10AC Bile acid sequestrants	223 220 217 208 6 3 1 1	12% 11% 11% <1% <1% <1% <1% <1%
C10A Cholesterol and triglyceride reducers C10AA HMG-coA reductase inhibitors C10AA01 Simvastatin C10AA05 Atorvastatin Unspecified statins C10AB Fibrates C10AB02 Bezafibrate C10AC Bile acid sequestrants C10AC01 Cholestyramine	223 220 217 208 6 3 1 1 2 2	12% 11% 11% <1% <1% <1% <1% <1% <1%

D DERMATOLOGICALS	14	<1%
D01 Antifungals for dermatological use	5	<1%
D01A Antifungals for topical use	3	<1%
D01AC Imidazole and triazole derivatives	2	<1%
D01AC01 Clotrimazole	2	<1%
D01AE Other antifungals for topical use	1	<1%
D01AE02 Methylrosaniline (Gentian violet)	1	<1%
D01B Antifungals for systemic use	2	<1%
D01BA Antifungals for systemic use	2	<1%
D01BA01 Griseofulvin	2	<1%
D02 Emollients and protectives	3	<1%
D02A Emollients and protectives	3	<1%
D02AB Zinc products	1	<1%
D02AX Other emollients and protectives	2	<1%
D07 Corticosteroids, dermatological preparations	4	<1%
D07A Corticosteroids, plain	4	<1%
D07AA Corticosteroids, weak (Group I)	1	<1%
D07AA02 Hydrocortisone	1 3	<1%
D07AC Corticosteroids, potent (Group III) D07AC01 Betamethasone	3	<1%
D07AC01 Betamethasone D07AD Corticosteroids, very potent (Group IV)	1	<1% <1%
D07AD Controsteroids, very potent (Group IV) D07AD01 Clobetasol	1	<1%
DO/ADOT Clotetasof	1	<170
D08 Antiseptics and disinfectants	2	<1%
D08A Antiseptics and disinfectants	2	<1%
D08AG Iodine products	1	<1%
D08AG02 Povidone-iodine	1	<1%
D08AX Other antiseptics and disinfectants	1	<1%
D08AX06 Potassium permanganate	1	<1%
G GENITO-URINARY SYSTEM AND SEX HORMONES	21	1.1%
G02 Other gynaecologicals	2	<1%
G02A Oxytocics	1	<1%
G02AB Ergot alkaloids	1	<1%
G02AB03 Ergometrine	1	<1%
G02C Other gynaecologicals	1	<1%
G02CB Prolactine inhibitors	1	<1%
G02CB01 Bromocriptine	1	<1%
CO2 Say beginning and modulators of the conital quature	10	-10/
G03 Sex hormones and modulators of the genital system G03A Hormonal contraceptives for systemic use	9	<1% <1%
G03AA Progestogens and oestrogens, fixed combinations	2	<1%
G03AA07 Levonorgestrel and oestrogen	2	<1%
G03AC Progestogens	5	<1%
G03AC01 Norethisterone	1	<1%
G03AC06 Medroxyprogesterone	4	<1%
Unspecified hormonal contraceptives	2	<1%
Unspecified sex hormones	1	<1%
G04 Urologicals	9	<1%
G04B Other urologicals, incl. antispasmodics	3	<1%
G04BD Urinary antispasmodics G04BD04 Oxybutynin	3	<1%
G04C Drugs used in benign prostatic hypertrophy	8	<1% <1%
	8	
G04CA Alpha-adrenoreceptor antagonists G04CA02 Tamsulosin	8	<1% <1%
00+CA02 Tallisulosiii	o	<170
H SYSTEMIC HORMONAL PREPARATIONS, EXCL. SEX HORMONES AND INSULINS	142	7.5%
H01 Pituitary and hypothalamic hormones and analogues	1	<1%
H01C Hypothalamic hormones	1	<1%
H01CB Antigrowth hormone	1	<1%
H01CB01 Somatostatin	1	<1%

H02 Corticosteroids for systemic use	118	6.2%
H02A Corticosteroids for systemic use, plain	118	6.2%
H02AB Glucocorticoids	118	6.2%
H02AB01 Betamethasone	1	<1%
H02AB02 Dexamethasone	4	<1%
H02AB04 Methylprednisolone	3	<1%
H02AB06 Prednisolone	4	<1%
H02AB07 Prednisone	97	5.1%
H02AB09 Hydrocortisone	23	1.2%
1102/11307 Lydrocoldsone	23	1.270
H03 Thyroid therapy	27	1.4%
H03A Thyroid preparations	23	1.2%
H03AA Thyroid hormones	23	1.2%
H03AA01 Levothyroxine sodium	23	1.2%
H03AA03 Combinations of levothyroxine and liothyronine	1	<1%
H03B Antithyroid preparations	4	<1%
H03BB Sulfur-containing imidazole derivatives	4	<1%
H03BB01 Carbimazole	4	<1%
J ANTI-INFECTIVES FOR SYSTEMIC USE	559	29%
J01 Antibacterials for systemic use	240	13%
J01A Tetracyclines	11	<1%
J01AA Tetracyclines	11	<1%
J01AA02 Doxycycline	11	<1%
J01C Beta-lactam antibacterials, penicillins	101	5.3%
J01CA Penicillins with extended spectrum	59	3.1%
J01CA01 Ampicillin	6	<1%
J01CA04 Amoxicillin	52	2.7%
J01CA12 Piperacillin	1	<1%
J01CE Beta-lactamase sensitive penicillins	6	<1%
J01CE01 Benzylpenicillin	4	<1%
J01CE02 Phenoxymethylpenicillin	2	<1%
J01CF Beta-lactamase resistant penicillins	8	<1%
J01CF02 Cloxacillin	4	<1%
J01CF05 Flucloxacillin	4	<1%
J01CG Beta-lactamase inhibitors	1	<1%
J01CG02 Tazobactam	1	<1%
J01CR Combinations of penicillins, incl. beta-lactamase inhibitors	39	2.0%
J01CR02 Amoxicillin and enzyme inhibitor	39	2.0%
J01CR05 Piperacillin and enzyme inhibitor	1	<1%
Unspecified penicillins	1	<1%
J01D Other beta-lactam antibacterials	57	3.0%
J01DC Second-generation cephalosporins	5	<1%
J01DC02 Cefuroxime	5	<1%
J01DD Third-generation cephalosporins	52	2.7%
J01DD01 Cefotaxime	1	<1%
J01DD04 Ceftriaxone	50	2.6%
J01DD08 Cefixime	1	<1%
J01DH Carbapenems	1	<1%
J01DH03 Ertapenem	1	<1%
J01E Sulfonamides and trimethoprim	68	3.6%
J01EE Combinations of sulfonamides and trimethoprim, incl. derivatives	68	3.6%
J01EE01 Sulfamethoxazole and trimethoprim	68	3.6%
J01F Macrolides, lincosamides and streptogramins	15	<1%
J01FA Macrolides	13	<1%
J01FA01 Erythromycin	6	<1%
J01FA09 Clarithromycin	4	<1%
J01FA10 Azithromycin	3	<1%
J01FA15 Azitnomycin	1	<1%
J01FF Lincosamides	2	<1%
J01FF Lincosanindes J01FF01 Clindamycin	2 2	<1% <1%
J01FF01 Clindamycin J01G Aminoglycoside antibacterials	8	<1% <1%
J01GB Other aminoglycosides	8	<1%
J01GB03 Gentamicin	4	<1%

J01GB04 Kanamycin	4	<1%
J01M Quinolone antibacterials	23	1.2%
J01MA Fluoroquinolones	23	1.2%
J01MA01 Ofloxacin	1	<1%
J01MA01 Onoxacin J01MA02 Ciprofloxacin	17	<1%
J01MA14 Moxifloxacin	5	<1%
J01X Other antibacterials	1	<1%
	1	<1%
J01XB Polymyxins J01XB01 Colistin	1	
	13	<1% <1%
Unspecified antibacterials	15	<1%
J02 Antimycotics for systemic use	26	1.4%
J02A Antimycotics for systemic use	26	1.4%
J02AC Triazole derivatives	26	1.4%
J02AC01 Fluconazole	25	1.3%
J02AC02 Itraconazole	1	<1%
J04 Antimycobacterials	198	10%
J04A Drugs for treatment of tuberculosis	198	10%
J04AB Antibiotics	179	9.4%
J04AB02 Rifampicin	179	9.4%
J04AC Hydrazides	187	9.4%
J04AC01 Isoniazid	187	9.8%
J04AC01 Isolilazid J04AD Thiocarbamide derivatives	4	9.8% <1%
J04AD03 Ethionamide	4	<1%
J04AK Other drugs for treatment of tuberculosis	138	7.2%
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J04AK01 Pyrazinamide J04AK02 Ethambutol	134 134	7.0% 7.0%
J04AK02 Editalibutor J04AK03 Terizidone	4	
	4	<1%
Unspecified treatment for tuberculosis	1	<1%
J04B Drugs for treatment of lepra		<1%
J04BA Drugs for treatment of lepra	1	<1% <1%
IOAD A OO D		
J04BA02 Dapsone	1	<1%
J04BA02 Dapsone J05 Antivirals for systemic use	320	17%
J05 Antivirals for systemic use J05A Direct-acting antivirals		
J05 Antivirals for systemic use	320	17%
J05 Antivirals for systemic use J05A Direct-acting antivirals	320 320	17% 17%
J05 Antivirals for systemic use J05A Direct-acting antivirals J05AB Nucleosides and nucleotides, excl. reverse transcriptase inhibitors	320 320 6	17% 17% <1%
J05 Antivirals for systemic use J05A Direct-acting antivirals J05AB Nucleosides and nucleotides, excl. reverse transcriptase inhibitors J05AB01 Aciclovir	320 320 6 6	17% 17% <1% <1%
J05 Antivirals for systemic use J05A Direct-acting antivirals J05AB Nucleosides and nucleotides, excl. reverse transcriptase inhibitors J05AB01 Aciclovir J05AE Protease inhibitors	320 320 6 6 20	17% 17% <1% <1% 1.1%
J05 Antivirals for systemic use J05A Direct-acting antivirals J05AB Nucleosides and nucleotides, excl. reverse transcriptase inhibitors J05AB01 Aciclovir J05AE Protease inhibitors J05AE08 Atazanavir	320 320 6 6 20	17% 17% <1% <1% 1.1% <1%
J05 Antivirals for systemic use J05A Direct-acting antivirals J05AB Nucleosides and nucleotides, excl. reverse transcriptase inhibitors J05AB01 Aciclovir J05AE Protease inhibitors J05AE08 Atazanavir J05AE30 Lopinavir-ritonavir	320 320 6 6 20 1	17% 17% <1% <1% 1.1% <1%
J05 Antivirals for systemic use J05A Direct-acting antivirals J05AB Nucleosides and nucleotides, excl. reverse transcriptase inhibitors J05AB01 Aciclovir J05AE Protease inhibitors J05AE08 Atazanavir J05AE30 Lopinavir-ritonavir J05AF Nucleoside and nucleotide reverse transcriptase inhibitors	320 320 6 6 20 1 19 278	17% 17% <1% <1% 1.1% <1% <1% 15%
J05 Antivirals for systemic use J05A Direct-acting antivirals J05AB Nucleosides and nucleotides, excl. reverse transcriptase inhibitors J05AB01 Aciclovir J05AE Protease inhibitors J05AE08 Atazanavir J05AE30 Lopinavir-ritonavir J05AF Nucleoside and nucleotide reverse transcriptase inhibitors J05AF01 Zidovudine	320 320 6 6 20 1 19 278 28	17% 17% <1% <1% 1.1% <1% 1.5%
J05 Antivirals for systemic use J05A Direct-acting antivirals J05AB Nucleosides and nucleotides, excl. reverse transcriptase inhibitors J05AB01 Aciclovir J05AE Protease inhibitors J05AE08 Atazanavir J05AE30 Lopinavir-ritonavir J05AF Nucleoside and nucleotide reverse transcriptase inhibitors J05AF01 Zidovudine J05AF02 Didanosine	320 320 6 6 20 1 19 278 28	17% 17% <1% <1% <1% 1.1% <1% 51% <1% <4% 15% 1.5% <1%
J05 Antivirals for systemic use J05A Direct-acting antivirals J05AB Nucleosides and nucleotides, excl. reverse transcriptase inhibitors J05AB01 Aciclovir J05AE Protease inhibitors J05AE08 Atazanavir J05AE30 Lopinavir-ritonavir J05AF Nucleoside and nucleotide reverse transcriptase inhibitors J05AF01 Zidovudine J05AF02 Didanosine J05AF04 Stavudine	320 320 6 6 6 20 1 19 278 28 1	17% 17% <1% <1% <1.1% <1.1% <1.5% <1.5% <1.5% <1.9%
J05 Antivirals for systemic use J05A Direct-acting antivirals J05AB Nucleosides and nucleotides, excl. reverse transcriptase inhibitors J05AB01 Aciclovir J05AE Protease inhibitors J05AE08 Atazanavir J05AE30 Lopinavir-ritonavir J05AF Nucleoside and nucleotide reverse transcriptase inhibitors J05AF01 Zidovudine J05AF02 Didanosine J05AF04 Stavudine J05AF05 Lamivudine	320 320 6 6 20 1 19 278 28 1 37 213	17% 17% <1% <1% <1.1% <1.1% <1.5% <1.5% <1.5% <1.1%
J05 Antivirals for systemic use J05A Direct-acting antivirals J05AB Nucleosides and nucleotides, excl. reverse transcriptase inhibitors J05AB01 Aciclovir J05AE Protease inhibitors J05AE08 Atazanavir J05AE30 Lopinavir-ritonavir J05AF Nucleoside and nucleotide reverse transcriptase inhibitors J05AF01 Zidovudine J05AF02 Didanosine J05AF04 Stavudine J05AF05 Lamivudine J05AF06 Abacavir	320 320 6 6 6 20 1 19 278 28 1 37 213	17% 17% <1% <1% 1.1% <1% <1% 15% 15% 1.5% <1% 1.9%
J05A Direct-acting antivirals J05AB Nucleosides and nucleotides, excl. reverse transcriptase inhibitors J05AB01 Aciclovir J05AE Protease inhibitors J05AE08 Atazanavir J05AE30 Lopinavir-ritonavir J05AF Nucleoside and nucleotide reverse transcriptase inhibitors J05AF01 Zidovudine J05AF02 Didanosine J05AF04 Stavudine J05AF05 Lamivudine J05AF06 Abacavir J05AF07 Tenofovir disoproxil	320 320 6 6 6 20 1 19 278 28 1 37 213 9	17% 17% <1% <1% <1.1% <1.1% <1.5% <1.5% <1.5% <1.1% <1.9% <1.9% <1.9% <1.9%
J05 Antivirals for systemic use J05A Direct-acting antivirals J05AB Nucleosides and nucleotides, excl. reverse transcriptase inhibitors J05AB01 Aciclovir J05AE Protease inhibitors J05AE08 Atazanavir J05AE30 Lopinavir-ritonavir J05AF Nucleoside and nucleotide reverse transcriptase inhibitors J05AF01 Zidovudine J05AF02 Didanosine J05AF04 Stavudine J05AF05 Lamivudine J05AF06 Abacavir J05AF07 Tenofovir disoproxil J05AF09 Emtricitabine	320 320 6 6 6 20 1 19 278 28 1 37 213 9 207 62	17% 17% <1% <1% <1.1% <1.1% <1.5% <1.5% <1.5% <1.5% <1.9% 11.9% 11.9% 3.3%
J05A Direct-acting antivirals J05AB Nucleosides and nucleotides, excl. reverse transcriptase inhibitors J05AB01 Aciclovir J05AE Protease inhibitors J05AE08 Atazanavir J05AE30 Lopinavir-ritonavir J05AF Nucleoside and nucleotide reverse transcriptase inhibitors J05AF01 Zidovudine J05AF02 Didanosine J05AF04 Stavudine J05AF05 Lamivudine J05AF06 Abacavir J05AF07 Tenofovir disoproxil J05AF09 Emtricitabine J05AG Non-nucleoside reverse transcriptase inhibitors	320 320 6 6 6 20 1 19 278 28 1 37 213 9 207 62 255	17% 17% <1% <1% <1.1% <1.1% <1.5% <1.5% <1.5% <1.1% <1.5% <1.5% <1.3% <1.3%
J05A Direct-acting antivirals J05AB Nucleosides and nucleotides, excl. reverse transcriptase inhibitors J05AB01 Aciclovir J05AE Protease inhibitors J05AE08 Atazanavir J05AE30 Lopinavir-ritonavir J05AF Nucleoside and nucleotide reverse transcriptase inhibitors J05AF01 Zidovudine J05AF02 Didanosine J05AF04 Stavudine J05AF05 Lamivudine J05AF06 Abacavir J05AF07 Tenofovir disoproxil J05AF09 Emtricitabine J05AG Non-nucleoside reverse transcriptase inhibitors J05AG01 Nevirapine	320 320 6 6 6 20 1 1 19 278 28 1 37 213 9 207 62 255	17% 17% <1% <1% <1.1% <1% <1% <1.5% <1.5% <1.5% <1.5% <1.3% <1.3% <1.3% <1.3% <1.3%
J05A Direct-acting antivirals J05AB Nucleosides and nucleotides, excl. reverse transcriptase inhibitors J05AB01 Aciclovir J05AE Protease inhibitors J05AE08 Atazanavir J05AE30 Lopinavir-ritonavir J05AF Nucleoside and nucleotide reverse transcriptase inhibitors J05AF01 Zidovudine J05AF02 Didanosine J05AF04 Stavudine J05AF05 Lamivudine J05AF06 Abacavir J05AF07 Tenofovir disoproxil J05AF09 Emtricitabine J05AG01 Nevirapine J05AG01 Nevirapine J05AG03 Efavirenz	320 320 6 6 6 20 1 1 19 278 28 1 37 213 9 207 62 255 15 240	17% 17% <1% <1% 1.1% <1% <1% 15% 1.5% <1.5% 3.3% 13% <1% 13%
J05A Direct-acting antivirals J05AB Nucleosides and nucleotides, excl. reverse transcriptase inhibitors J05AB01 Aciclovir J05AE Protease inhibitors J05AE08 Atazanavir J05AE30 Lopinavir-ritonavir J05AF Nucleoside and nucleotide reverse transcriptase inhibitors J05AF01 Zidovudine J05AF02 Didanosine J05AF04 Stavudine J05AF05 Lamivudine J05AF06 Abacavir J05AF06 Abacavir J05AF07 Tenofovir disoproxil J05AF09 Emtricitabine J05AG01 Nevirapine J05AG03 Efavirenz J05AG03 Efavirenz	320 320 6 6 20 1 19 278 28 1 37 213 9 207 62 255 15 240 1	17% 17% <1% <1% <1.1% <1% <1% <1.5% <1.5% <1.5% <1.5% <1.9% 11.1% <1.3.3% <1.3.3% <1.3.3% <1.3.4% <1.3.4% <1.3.4% <1.3.4% <1.3.4% <1.3.4% <1.3.4% <1.3.4% <1.3.4% <1.3.4% <1.3.4% <1.3.4% <1.3.4% <1.3.4% <1.3.4% <1.3.4% <1.3.4% <1.3.4% <1.3.4% <1.3.4% <1.3.4% <1.3.4% <1.3.4% <1.3.4% <1.3.4% <1.3.4% <1.3.4% <1.3.4% <1.3.4% <1.3.4%
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J05A Antivirals for systemic use J05AB Direct-acting antivirals J05AB Nucleosides and nucleotides, excl. reverse transcriptase inhibitors J05AE Protease inhibitors J05AE08 Atazanavir J05AE08 Atazanavir J05AF01 Loinavir-ritonavir J05AF Nucleoside and nucleotide reverse transcriptase inhibitors J05AF01 Zidovudine J05AF02 Didanosine J05AF02 Didanosine J05AF04 Stavudine J05AF05 Lamivudine J05AF07 Tenofovir disoproxil J05AF07 Tenofovir disoproxil J05AF09 Emtricitabine J05AG01 Nevirapine J05AG03 Efavirenz J05AX Other antivirals J05AXO8 Raltegravir Unspecified antiretroviral therapy J07 Vaccines J07B Viral vaccines J07BB Influenza vaccines L ANTINEOPLASTIC AND IMMUNOMODULATING AGENTS L01 Antineoplastic agents	320 320 6 6 6 20 1 19 278 28 1 37 213 9 207 62 255 15 240 1 1 41 1 1	17% 17% 17% 18 18 1.1% 1.1% 15% 1.5% 1.5% 1.5% 1.4% 11% 11% 11% 11% 11% 11% 11% 11% 11% 1
J05 Antivirals for systemic use J05AB Nucleosides and nucleotides, excl. reverse transcriptase inhibitors J05ABO Nucleosides and nucleotides, excl. reverse transcriptase inhibitors J05ABO Aciclovir J05AE Protease inhibitors J05AE08 Atazanavir J05AE30 Lopinavir-ritonavir J05AF Nucleoside and nucleotide reverse transcriptase inhibitors J05AF01 Zidovudine J05AF02 Didanosine J05AF02 Didanosine J05AF05 Lamivudine J05AF05 Lamivudine J05AF06 Abacavir J05AF07 Tenofovir disoproxil J05AF07 Tenofovir disoproxil J05AG01 Nevirapine J05AG01 Nevirapine J05AG01 Nevirapine J05AG03 Efavirenz J05AX Other antivirals J05AX08 Raltegravir Unspecified antiretroviral therapy J07 Vaccines J07B Viral vaccines J07BB Influenza vaccines LANTINEOPLASTIC AND IMMUNOMODULATING AGENTS L01 Antineoplastic agents L01A Alkylating agents	320 320 6 6 6 20 1 19 278 28 1 37 213 9 207 62 255 15 240 1 1 1 1 1 1	17% 17% 17% 18 18 1.1% 1.1% 15% 1.5% 1.5% 1.5% 1.4% 11% 11% 1.4% 11% 13.4 13% 13% 13% 13% 13% 13% 13% 13% 13% 13%
J05A Antivirals for systemic use J05AD Direct-acting antivirals J05AB Nucleosides and nucleotides, excl. reverse transcriptase inhibitors J05ABO1 Aciclovir J05AE Protease inhibitors J05AE08 Atazanavir J05AE30 Lopinavir-ritonavir J05AF Nucleoside and nucleotide reverse transcriptase inhibitors J05AF01 Zidovudine J05AF02 Didanosine J05AF04 Stavudine J05AF05 Lamivudine J05AF05 Lamivudine J05AF06 Abacavir J05AF06 Abacavir J05AF07 Tenofovir disoproxil J05AF09 Emtricitabine J05AG01 Nevirapine J05AG01 Nevirapine J05AG03 Efavirenz J05AX Other antivirals J05AX Other antivirals J05AX08 Raltegravir Unspecified antiretroviral therapy J07 Vaccines J07B Viral vaccines J07B Influenza vaccines L ANTINEOPLASTIC AND IMMUNOMODULATING AGENTS L01A Alkylating agents L01A Alkylating agents L01AA Nitrogen mustard analogues	320 320 6 6 6 20 1 19 278 28 1 37 213 9 207 62 255 15 240 1 1 41 1 1 27	17% 17% 17% 18 18 1.1% 1.1% 15% 1.5% 1.5% 1.5% 1.4% 11% 13% 13% 13% 13% 13% 13% 13% 13% 13
J05 Antivirals for systemic use J05AB Nucleosides and nucleotides, excl. reverse transcriptase inhibitors J05ABO Nucleosides and nucleotides, excl. reverse transcriptase inhibitors J05ABO Aciclovir J05AE Protease inhibitors J05AE08 Atazanavir J05AE30 Lopinavir-ritonavir J05AF Nucleoside and nucleotide reverse transcriptase inhibitors J05AF01 Zidovudine J05AF02 Didanosine J05AF02 Didanosine J05AF05 Lamivudine J05AF05 Lamivudine J05AF06 Abacavir J05AF07 Tenofovir disoproxil J05AF07 Tenofovir disoproxil J05AG01 Nevirapine J05AG01 Nevirapine J05AG01 Nevirapine J05AG03 Efavirenz J05AX Other antivirals J05AX08 Raltegravir Unspecified antiretroviral therapy J07 Vaccines J07B Viral vaccines J07BB Influenza vaccines LANTINEOPLASTIC AND IMMUNOMODULATING AGENTS L01 Antineoplastic agents L01A Alkylating agents	320 320 6 6 6 20 1 19 278 28 1 37 213 9 207 62 255 15 240 1 1 1 1 1 1	17% 17% 17% 18 18 1.1% 1.1% 15% 1.5% 1.5% 1.5% 1.4% 11% 11% 1.4% 11% 13.4 13% 13% 13% 13% 13% 13% 13% 13% 13% 13%

L01XE Protein kinase inhibitors	2	<1%
L01XE01 Imatinib	2	<1%
Unspecified antineoplastic agents	3	<1%
L02 Endocrine therapy	2	<1%
L02B Hormone antagonists and related agents	2	<1%
L02BA Anti-oestrogens	2	<1%
L02BA01 Tamoxifen	2	<1%
TOAT	10	.10/
L04 Immunosuppressive agents L04A Immunosuppressive agents	19 19	<1% <1%
L04AA Selective immunosuppressive agents	1	<1%
L04AA06 Mycophenolic acid	1	<1%
L04AD Calcineurin inhibitors	3	<1%
L04AD01 Ciclosporin	1	<1%
L04AD02 Tacrolimus	2	<1%
L04AX Other immunosuppressive agents	16	<1%
L04AX01 Azathioprine	5	<1%
L04AX03 Methotrexate	11	<1%
M MUSCULO-SKELETAL SYSTEM	79	4.1%
M01 Anti-inflammatory and antirheumatic products	49	2.6%
M01A Anti-inflammatory and antirheumatic products, non-steroids M01AB Acetic acid derivatives and related substances	49 21	2.6%
M01AB01 Indometacin	6	1.1% <1%
M01AB05 Diclofenac	16	<1%
M01AE Propionic acid derivatives	22	1.2%
M01AE01 Ibuprofen	20	1.1%
M01AE02 Naproxen	1	<1%
M01AE51 Ibuprofen, combinations	2	<1%
M01AG Fenamates	1	<1%
M01AG01 Mefenamic acid	1	<1%
M01AH Coxibs	2	<1%
M01AH01 Celecoxib M01AH04 Parecoxib	1 1	<1%
Unspecified non-steroidal anti-inflammatories	6	<1% <1%
M02 Topical products for joint and muscular pain	7	<1%
M02A Topical products for joint and muscular pain	7	<1%
M02AA Anti-inflammatory preparations, non-steroids for topical use M02AA13 Ibuprofen	1 1	<1% <1%
M02AC Preparations with salicylic acid derivatives	5	<1%
Unspecified topical products for joint and muscular pain	1	<1%
M03 Muscle relaxants M03A Muscle relaxants, peripherally acting agents	4 1	<1% <1%
M03AB Choline derivatives	1	<1%
M03AB01 Suxamethonium	1	<1%
M03B Muscle relaxants, centrally acting agents	3	<1%
M03BX Other centrally acting agents	3	<1%
M03BX01 Baclofen	3	<1%
M04 Antigout preparations	22	1.2%
M04A Antigout preparations	22	1.2%
M04AA Preparations inhibiting uric acid production	18	<1%
M04AA01 Allopurinol	18	<1%
M04AC Preparations with no effect on uric acid metabolism	7	<1%
M04AC01 Colchicine	7	<1%
Unspecified antigout preparations	1	<1%
M05 Drugs for treatment of bone diseases	2	<1%
M05B Drugs affecting bone structure and mineralization	2	<1%
M05BA Bisphosphonates	2	<1%
M05BA04 Alendronic acid	2	<1%
N NERVOUS SYSTEM	427	22%
TIDAT OUD DIDEM	721	<i>22 /</i> 0

N02 Analgesics	228	12%
N02A Opioids	90	4.7%
N02AA Natural opium alkaloids	32	1.7%
N02AA01 Morphine	30	1.6%
N02AA08 Dihydrocodeine	2	<1%
N02AB Phenylpiperidine derivatives	2	<1%
N02AV Other prints	2	<1%
NO2AX Other opioids	65	3.4%
NO2AXO2 Tramadol	63	3.3%
NO2AX52 Tramadol, combinations	2 185	<1% 9.7%
N02B Other analgesics and antipyretics N02BE Anilides	185	9.7%
NO2BE01 Paracetamol	160	9.7% 8.4%
N02BE01 Paracetamol N02BE51 Paracetamol, combinations excl. psycholeptics	31	1.6%
N02BE71 Paracetamol, combinations with psycholeptics	2	<1%
Unspecified analgesics	6	<1%
	O	<170
N03 Anti-epileptics	139	7.3%
N03A Anti-epileptics	139	7.3%
N03AA Barbiturates and derivatives	3	<1%
N03AA02 Phenobarbital	3	<1%
N03AB Hydantoin derivatives	55	2.9%
N03AB02 Phenytoin	55	2.9%
N03AE Benzodiazepine derivatives	19	<1%
N03AE01 Clonazepam	19	<1%
N03AF Carboxamide derivatives	26	1.4%
N03AF01 Carbamazepine	26	1.4%
NO3AG Fatty acid derivatives	60 60	3.2%
NO3AG01 Valproic acid	5	3.2% <1%
N03AX Other anti-epileptics N03AX09 Lamotrigine	5	<1%
Unspecified anti-epileptics	7	<1%
Onspectifica and opinioptics	,	<1 /u
N04 Anti-Parkinson drugs	23	1.2%
N04A Anticholinergic agents	18	<1%
N04AB Ethers chemically close to antihistamines	18	<1%
N04AB02 Orphenadrine	18	<1%
N04B Dopaminergic agents	5	<1%
N04BA Dopa and dopa derivatives	5	<1%
N04BA02 Levodopa and decarboxylase inhibitor	5	<1%
N05 Psycholeptics	100	5.3%
N05A Antipsychotics	67	3.5%
N05AA Phenothiazines with aliphatic side-chain	6	<1%
N05AA01 Chlorpromazine	6	<1%
N05AB Phenothiazines with piperazine structure	7	<1%
N05AB02 Fluphenazine	3	<1%
N05AB04 Prochlorperazine	4	<1%
N05AD Butyrophenone derivatives	33	1.7%
N05AD01 Haloperidol	33	1.7%
N05AF Thioxanthene derivatives	6	<1%
N05AF01 Flupentixol	2	<1%
N05AF05 Zuclopenthixol	4	<1%
N05AH Diazepines, oxazepines and thiazepines	6	<1%
N05AH02 Clozapine	2	<1%
N05AN Lithium	4	<1%
N05AN Lithium N05AN01 Lithium	1 1	<1%
N05AX Other antipsychotics	111	<1% <1%
N05AX Other antipsychotics N05AX08 Risperidone	11	<1%
Unspecified antipsychotics	4	<1%
N05B Anxiolytics	40	2.1%
N05BA Benzodiazepine derivatives	40	2.1%
N05BA01 Diazepam	24	1.3%
N05BA04 Oxazepam	4	<1%
N05BA06 Lorazepam	13	<1%
4		

NOSC Hympotics and addition	0	-10/
N05C Hypnotics and sedatives N05CD Benzodiazepine derivatives	9 4	<1%
1		<1%
N05CD08 Midazolam	4	<1%
N05CF Benzodiazepine-related drugs	5	<1%
N05CF01 Zopiclone	4	<1%
N05CF02 Zolpidem	1	<1%
N06 Psychoanaleptics	63	3.3%
N06A Antidepressants	63	3.3%
NOGAA Non-selective monoamine reuptake inhibitors	45	2.4%
N06AA09 Amitriptyline	42	2.2%
Unspecified non-selective monoamine reuptake inhibitors	3	<1%
N06AB Selective serotonin reuptake inhibitors	13	<1%
N06AB03 Fluoxetine	9	<1%
N06AB04 Citalopram	5	<1%
N06AX Other antidepressants	3	<1%
N06AX03 Mianserin	2	<1%
N06AX16 Venlafaxine	1	<1%
Unspecified antidepressants	2	<1%
Onspecified undergressums	2	<170
N07 Other nervous system drugs	1	<1%
N07A Parasympathomimetics	1	<1%
N07AA Anticholinesterases	1	<1%
N07AA02 Pyridostigmine	1	<1%
	2	10/
Unspecified drugs acting on the nervous system	3	<1%
P ANTIPARASITIC PRODUCTS, INSECTICIDES AND REPELLENTS	36	1.9%
P01 Antiprotozoals	35	1.8%
P01A Agents against amoebiasis and other protozoal diseases	26	1.4%
P01AB Nitroimidazole derivatives	26	1.4%
P01AB01 Metronidazole	26	1.4%
P01B Antimalarials	9	<1%
P01BA Aminoquinolines	9	<1%
P01BA01 Chloroquine	9	<1%
101BA01 Cilioloquine	,	<1 /u
P03 Ectoparasiticides, incl. scabicides, insecticides and repellents	1	<1%
P03A Ectoparasiticides, incl. scabicides	1	<1%
P03AA Sulfur-containing products	1	<1%
Monosulfiram	1	<1%
R RESPIRATORY SYSTEM	219	12%
POLY I	-	10/
R01 Nasal preparations	7	<1%
R01A Decongestants and other nasal preparations for topical use	7	<1%
R01AA Sympathomimetics, plain	1	<1%
R01AA05 Oxymetazoline	1	<1%
R01AD Corticosteroids	6	<1%
R01AD01 Beclometasone	6	<1%
R02 Throat preparations	2	<1%
R02A Throat preparations	2	<1%
R02AA Antiseptics	2	<1%
R02AA20 Various throat antiseptics	2	<1%
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R03 Drugs for obstructive airway	194	10%
R03A Adrenergics, inhalants	149	7.8%
R03AA Alpha- and beta-adrenoreceptor agonists	1	<1%
R03AA01 Epinephrine	1	<1%
R03AC Selective beta-2-adrenoreceptor agonists	148	7.8%
R03AC02 Salbutamol	144	7.6%
R03AC04 Fenoterol	5	<1%
R03AC12 Salmeterol	3	<1%
R03AC13 Formoterol	8	<1%
Unspecified beta-adrenergic inhalant	1	<1%
R03AK Adrenergics and other drugs for obstructive airway diseases	1	<1%
R03AK06 Salmeterol and other drugs for obstructive airway diseases	1	<1%
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R03B Other drugs for obstructive airway diseases, inhalants	103	5.4%
R03BA Glucocorticoids	88	4.6%
R03BA01 Beclometasone	16	<1%
R03BA02 Budesonide	74	3.9%
Unspecified inhaled corticosteroid	1	<1%
R03BB Anticholinergics	36	1.9%
R03BB01 Ipratropium bromide	35	1.8%
R03BB04 Tiotropium bromide	1	<1%
R03C Adrenergics for systemic use	3	<1%
R03CC Selective beta-2-adrenoreceptor agonists	3	<1%
R03CC02 Salbutamol	3	<1%
R03D Other systemic drugs for obstructive airway diseases	67	3.5%
R03DA Xanthines	67	3.5%
R03DA04 Theophylline	64	3.4%
R03DA05 Aminophylline	2	<1%
R03DA54 Theophylline, combinations excl. psycholeptics	2	<1%
Unspecified treatment for obstructive airway diseases	28	1.5%
DOS Cough and cold appropriates	5	-10/
R05 Cough and cold preparations Unspecified cough and cold preparations	5 5	<1% <1%
Onspectment cough and cold preparations	3	<170
R06 Antihistamines for systemic use	29	1.5%
R06A Antihistamines for systemic use	29	1.5%
R06AA Aminoalkyl ethers	3	<1%
R06AA02 Diphenhydramine	3	<1%
R06AB Substituted alkylamines	14	<1%
R06AB04 Chlorphenamine	14	<1%
R06AD Phenothiazine derivatives	6	<1%
R06AD02 Promethazine	6	<1%
R06AE Piperazine derivatives	8	<1%
R06AE03 Cyclizine	2	<1%
R06AE07 Cetirizine	6	<1%
R06AX Other antihistamines for systemic use	1	<1%
R06AX13 Loratadine	1	<1%
Unspecified systemic antihistamines	1	<1%
S SENSORY ORGANS	8	<1%
SAI Onbthalmalogicals	8	<10/
S01 Ophthalmologicals S01C Anti-inflammatory agents and anti-infectives in combination	8 1	<1% <1%
S01CA Corticosteroids and anti-infectives in combination	1	<1%
S01CAO1 Dexamethasone and anti-infectives	1	
	3	<1% <1%
SOIE Antiglaucoma preparations and miotics	1	
S01EA Sympathomimetics in glaucoma therapy	1	<1%
S01EA05 Brimonidine	2	<1% <1%
S01ED Beta-blocking agents S01ED02 Betaxolol	1	<1%
S01ED51 Timolol, combinations S01K Surgical aids	1	<1% <1%
S01KA Viscoelastic substances	1	<1%
	1	
S01KA02 Hypromellose S01X Other ophthalmologicals	1	<1% <1%
S01X Other ophthalmological	1	<1%
S01XA20 Artificial tears and other indifferent preparations	1	<1%
Unspecified ophthalmologicals	4	<1%
Chspectned ophthalmologicals	7	\1 /0
V VARIOUS	4	<1%
V03 All Other therapeutic products	4	<1%
V03A All Other therapeutic products	4	<1%
V03AE Drugs for treatment of hyperkalaemia and hyperphosphataemia	4	<1%
V03AE01 Polystyrene sulfonate	4	<1%
ANV HEDDAL DDEDADATION	10	.10/
ANY HERBAL PREPARATION	10	<1%

SDC 6. Reason for admission, according to ICD-10 classification (n=1951 admissions).

ICD-10 Chapter / Code block	Count	Proportion
ADVERSE DRUG REACTIONS	164	8.4%
(various codes) Adverse drug reactions	164	8.4%
CERTAIN INFECTIOUS AND PARASITIC DISEASES	285	15%
A00-A09 Intestinal infectious diseases	49	2.5%
A15-A19 Tuberculosis	155	7.9%
A30-A49 Other bacterial diseases	16	<1%
A50-A64 Infections with a predominantly sexual mode of transmission	2	<1%
A80-A89 Viral infections of the central nervous system	6	<1%
B00-B09 Viral infections characterized by skin and mucous membrane lesions	1	<1%
B15-B19 Viral hepatitis	5 12	<1%
B20-B24 Human immunodeficiency virus [HIV] disease B35-B49 Mycoses	30	<1% 1.5%
B50-B64 Protozoal diseases	8	<1%
B65-B83 Helminthiases	1	<1%
Dos Dos Hemmanases	•	170
NEOPLASMS	53	2.7%
C15-C26 Malignant neoplasms of digestive organs	8	<1%
C30-C39 Malignant neoplasms of respiratory and intrathoracic organs	19	<1%
C45-C49 Malignant neoplasms of mesothelial and soft tissue	2	<1%
C50-C50 Malignant neoplasm of breast	1	<1%
C69-C72 Malignant neoplasms of eye, brain and other parts of the central nervous system	2	<1%
C73-C75 Malignant neoplasms of thyroid and other endocrine glands	1	<1%
C76-C80 Malignant neoplasms of ill-defined, secondary and unspecified sites	14	<1%
C81-C96 Malignant neoplasms, stated or presumed to be primary, of lymphoid, haematopoietic and related tissue	4	<1%
D00-D09 In situ neoplasms	1	<1%
D10-D36 Benign neoplasms	1	<1%
DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS; CERTAIN DISORDERS INVOLVING THE IMMUNE MECHANISM	35	1.8%
D50-D53 Nutritional anaemias	6	<1%
D55-D59 Haemolytic anaemias	2	<1%
D60-D64 Aplastic and other anaemias	18	<1%
D65-D69 Coagulation defects, purpura and other haemorrhagic conditions	7	<1%
D70-D77 Other diseases of blood and blood-forming organs	1	<1%
D80-D89 Certain disorders involving the immune mechanism	1	<1%
ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES	87	4.5%
E00-E07 Disorders of thyroid gland	1	<1%
E10-E14 Diabetes mellitus	62	3.2%
E15-E16 Other disorders of glucose regulation	4	<1%
E70-E90 Metabolic disorders	20	1.0%
MENTAL AND BEHAVIOURAL DISORDERS	106	5.4%
F00-F09 Organic, including symptomatic, mental disorders	26	1.3%
F10-F19 Mental and behavioural disorders due to psychoactive substance use	25	1.3%
F20-F29 Schizophrenia, schizotypal and delusional disorders	41	2.1%
F30-F39 Mood [affective] disorders	5	<1%
F40-F48 Neurotic, stress-related and somatoform disorders	9	<1%
DISEASES OF THE NERVOUS SYSTEM	115	5.9%
G00-G09 Inflammatory diseases of the central nervous system	19	<1%
G10-G14 Systemic atrophies primarily affecting the central nervous system	1	<1%
G20-G26 Extrapyramidal and movement disorders	1	<1%
G35-G37 Demyelinating diseases of the central nervous system	2	<1%
G40-G47 Episodic and paroxysmal disorders	68	3.5%
G50-G59 Nerve, nerve root and plexus disorders	1	<1%
G60-G64 Polyneuropathies and other disorders of the peripheral nervous system	3	<1%
G80-G83 Cerebral palsy and other paralytic syndromes	14	<1%
G90-G99 Other disorders of the nervous system	6	<1%

DISEASES OF THE EYE AND ADNEXA	3	<1%
H40-H42 Glaucoma	1	<1%
H46-H48 Disorders of optic nerve and visual pathways	1	<1%
H53-H54 Visual disturbances and blindness	1	<1%
DISEASES OF THE EAR AND MASTOID PROCESS	1	<1%
H65-H75 Diseases of middle ear and mastoid	1	<1%
DISEASES OF THE CIRCULATORY SYSTEM	496	25%
I05-I09 Chronic rheumatic heart diseases	2	<1%
I10-I15 Hypertensive diseases	30	1.5%
I20-I25 Ischaemic heart diseases	91	4.7%
I26-I28 Pulmonary heart disease and diseases of the pulmonary circulation	31	1.6%
I30-I52 Other forms of heart disease	151	7.7%
I60-I69 Cerebrovascular diseases	152	7.8%
I70-I79 Diseases of arteries, arterioles and capillaries	2	<1%
I80-H89 Diseases of veins, lymphatic vessels and lymph nodes	36	1.9%
I95-I99 Other and unspecified disorders of the cardiovascular system	1	<1%
DISEASES OF THE RESPIRATORY SYSTEM	313	16%
J00-J06 Acute upper respiratory infections	3	<1%
J09-J18 Influenza and pneumonia	117	6.0%
J20-J22 Other acute lower respiratory infections	40	2.1%
J40-J47 Chronic lower respiratory diseases	98	5.0%
J60-J70 Lung diseases due to external agents	2	<1%
J80-J84 Other respiratory diseases principally affecting the interstitium	23	1.2%
J85-J86 Suppurative and necrotic conditions of the lower respiratory tract	6	<1%
J90-J94 Other diseases of pleura	18	<1%
J95-J99 Other diseases of the respiratory system	6	<1%
DIGIT LODG OF THE DIGITAL STATES	20	2.00/
DISEASES OF THE DIGESTIVE SYSTEM	39	2.0%
K00-K14 Diseases of oral cavity, salivary glands and jaws K20-K31 Diseases of oesophagus, stomach and duodenum	1	<1% <1%
K55-K64 Other diseases of intestines	9	<1%
K65-K67 Diseases of peritoneum	4	<1%
K70-K77 Diseases of liver	13	<1%
K80-K87 Disorders of gallbladder, biliary tract and pancreas	2	<1%
K90-K93 Other diseases of the digestive	4	<1%
100 100 care are are are are are are are are are	·	1270
DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE	7	<1%
L00-L08 Infections of the skin and subcutaneous tissue	5	<1%
L10-L14 Bullous disorders	1	<1%
L80-L99 Other disorders of the skin and subcutaneous tissue	1	<1%
DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE	10	<1%
M15-M19 Arthropathies: Arthrosis	1	<1%
M20-M25 Arthropathies: Other joint disorders	1	<1%
M30-M36 Systemic connective tissue disorders	3	<1%
M50-M54 Dorsopathies: Other dorsopathy	2	<1%
M70-M79 Soft tissue disorders: Other soft tissue disorders	2	<1%
M91-M94 Osteopathies and chondropathies: chondropathies	1	<1%
DISEASES OF THE GENITOURINARY SYSTEM	61	3.1%
N00-N08 Glomerular diseases	7	<1%
N10-N16 Renal tubulo-interstitial diseases	4	<1%
N17-N19 Renal failure	30	1.5%
N20-N23 Urolithiasis	1	<1%
N30-N39 Other diseases of urinary system	19	<1%
		_
PREGNANCY, CHILDBIRTH AND THE PUERPERIUM	2	<1%
O00-O08 Pregnancy with abortive outcome	1	<1%
O10-O16 Oedema, proteinuria and hypertensive disorders in pregnancy, childbirth and puerperium	1	<1%
CONCENIENT MALEODMARIONG DEFORMATIONS AND SUBOMOSOMAL ADVODES A TORONGO.	-	4.0.7
CONGENITAL MALFORMATIONS, DEFORMATIONS AND CHROMOSOMAL ABNORMALITIES	3	<1%
Q20-Q28 Congenital malformations of the circulatory system Q60-Q64 Congenital malformations of the urinary system	2	<1% <1%
200-204 Congenital manormations of the utilitary system	1	<1%

SYMPTOMS, SIGNS AND ABNORMAL CLINICAL AND LABORATORY FINDINGS	94	4.8%
R00-R09 Symptoms and signs involving the circulatory and respiratory systems	18	<1%
R10-R19 Symptoms and signs involving the digestive system and abdomen	13	<1%
R40-R46 Symptoms and signs involving cognition, perception, emotional state and behaviour	16	<1%
R50-R69 General symptoms and signs	39	2.0%
R70-R79 Abnormal findings on examination of blood, without diagnosis	2	<1%
R90-R94 Abnormal findings on diagnostic imaging and on function studies, without diagnosis	6	<1%
INJURY, POISONING AND CERTAIN OTHER CONSEQUENCES OF EXTERNAL CAUSES	5	<1%
S00-S09 Injuries to the head	1	<1%
S70-S79 Injuries to the hip and thigh	2	<1%
T80-T88 Complications of surgical and medical care	2	<1%
EXTERNAL CAUSES OF MORBIDITY AND MORTALITY	65	3.3%
X40-X49 Accidents: Other external causes	1	<1%
X60-X84 Intentional self-harm	64	3.3%
FACTORS INFLUENCING HEALTH STATUS AND CONTACT WITH HEALTH SERVICES	7	<1%
Z00-Z13 Persons encountering health services for examination and investigation	1	<1%
Z40-Z54 Persons encountering health services for specific procedures and health care	4	<1%
Z70-Z76 Persons encountering health services in other circumstances	2	<1%
TOTAL	1951	100%

SDC 7. Summary of presentation of patients admitted for drug-induced renal impairment.

Case	Age, sex	HIV (CD4)	Presentation	Implicated drugs (duration of exposure)	Causality	Preventable
1†	40 M	Pos (70)	Creat = 1026, K = 6.8; baseline creat = 145 (3m ago). Urinary tract infection.	Tenofovir (unk)	Possible	Yes
2	56 F	Neg	Creat = 360, K = 4.0; no baseline available. Hypertension and previous CVA.	Spironolactone (>3w), enalapril (>3w), and furosemide (>3w)	Possible	Yes
3†	25 M	Pos (297)	Creat = 139, K = 5.5 and hypocalcaemia; baseline creat = 65 (2m ago). Kaposi sarcoma, pulmonary TB and chronic gastroenteritis.	Tenofovir (3m)	Possible	Yes
4	41 F	Pos (416)	Creat = 268, K = 3.2 and proteinuria; baseline creat = 67 (4m go). Biopsy: mild HIVAN, central sclerosing variant. Tenofovir (4m)		Possible	Yes
5†	49 M	Unk	Creat = 1038, K = 6.7; baseline not recorded, but known with chronic kidney disease, hypertension and diabetes.	Acetylsalicylic acid (unk), furosemide (unk), perindopril and HCTZ (unk), and valsartan (unk)	Possible	Yes
6†	30 M	Pos (unk)	Creat = 647, K = 5.0; no baseline available. Gastroenteritis, dehydration, lower respiratory tract infection	Tenofovir (2m or more)	Possible	No
7	42 M	Neg	Creat = 614, K = 4.5 and proteinuria. Biopsy: diabetic nodular glomerulosclerosis.	Enalapril (3d)	Probable	No
8	22 F	Pos (140)	Creat = 1337, K = 7.3 and proteinuria; baseline creat = 39 (3w ago). Suspected sepsis (raised inflammatory markers).	Tenofovir (3w)	Possible	No
9†	36 M	Pos (84)	Creat = 2300, K = 8.9 and proteinuria; baseline creat = 818 (5w ago). Chronic kidney disease previously attributed to HIVAN. Captopril (4w), furosemide (2. and HCTZ (2w)		Probable	Yes
10	32 M	Pos (31)	Creat = 303, K = 4.1 and proteinuria; baseline creat = 63 (3m ago). Pulmonary TB and chronic gastroenteritis. Tenofovir (2m)		Possible	No
11†	65 F	Unk	Creat = 1541, K = 4.5; baseline creat = 350 (14m ago). Hypertension, diabetes, previous CVA, cardiac failure, gastroenteritis.	Enalapril (>1y)	Possible	Yes
12	56 F	Unk	Creat = 360 , K = 4.0 ; no baseline available. Gastroenteritis and dehydration.	Amlodipine (>5y), atenolol (>5y), enalapril (>5y), furosemide (>2y), HCTZ (>5y), and hydralazine (>2y)	Possible	No
13	34 F	Pos (137)	Creat = 171, K = 2.2, phosphate low, chloride high, normal anion gap, acidosis; baseline creat = 68 (4m ago). TB meningitis.	Tenofovir (unk)	Possible	Yes
14†	43 F	Pos (103)	Creat = 1356, K = 5.2; no baseline available. Chronic gastroenteritis, dehydration.	Tenofovir (3m)	Possible	No
15	48 M	Unk	Creat = 807, K = 6.7 and proteinuria; baseline creat = 179 (18m ago). Type 2 diabetes, chronic kidney disease, gastroenteritis.	Spironolactone (unk), enalapril (unk), and furosemide (unk)	Possible	Yes
	-0.1-		Creat = 1249, K = 5.7 and proteinuria; baseline creat = 72 (1m	Rifampicin (4w)	Possible	No
16	69 M	Neg	ago). Biopsy: acute tubular necrosis on background mild diabetic changes. Pulmonary TB.	Enalapril (unk)	Possible	No
174	21 5	Pos	Creat = 822, K = 4.6; no baseline available. Epilepsy,	Co-amoxiclav (5d)	Possible	No
17†	31 F	(700)	schizophrenia, urinary tract infection.	Ibuprofen (5d)	Possible	No
18	28 F	Pos	Creat = 605, K = 2.8; baseline creat = 112 (10d ago). Pulmonary	Co-trimoxazole (unk)	Possible	No
10	20 Г	(218)	TB.	Tenofovir (for 2w, stopped 1m ago)	Possible	Yes
				Aciclovir (for 1w, 3w ago)	Possible	No
19†	34 M	Pos	Creat = 712, K = 6.7; baseline creat = 69 (11m ago). Kaposi	Co-amoxiclav (for 1w, 3w ago)	Possible	No
171	J- 1V1	(167)	sarcoma, vomiting.	Indometacin (for 1w, 3w ago)	Possible	No
				Tenofovir (unk)	Possible	No

Case	Age, sex	HIV (CD4)	Presentation	Implicated drugs (duration of exposure)	Causality	Preventable
20†	43 F	Pos	Creat = 1552, K = 8.3; baseline creat = 52 (10w ago). Recurrent	Co-trimoxazole (unk)	Possible	No
201	43 F	(46)	H. influenzae pneumonia, diarrhoea and vomiting.	Tenofovir (unk)	Possible	No
21†*	33 F	Pos (37)	Hepatorenal failure (mixed LI and AKI). Creat = 608, K = 5.6; baseline creat = 51 (1m ago). Pulmonary TB. Severe hypertension, CVA.	Rifampicin (5d)	Probable	No
22*	50 M	Pos (165)	Hepatorenal failure (cholestatic LI and AKI). Creat = 1133, K = 6.1; baseline creat = 75 (6m ago).	Enalapril (unk) (Could not exclude a potential role played by traditional remedies)	Possible	No
23†*	44 M	Pos (unk)	Hepatorenal failure (hepatocellular LI and AKI). Creat = 259, K = 6.5; baseline creat = 112 (10d ago). Depressed level of consciousness.	Co-trimoxazole (unk)	Possible	Yes
24*	34 M	Pos (208)	Hepatorenal failure (cholestatic LI and AKI). Creat = 907, K = 4.0; baseline creat = 81 (5m ago).	Co-trimoxazole (unk)	Probable	No

^{*} Case also included in Supplementary Table S7

AKI: acute kidney injury; CD4: CD4-cell count (cells / μ L); Creat: serum- creatinine concentration (μ mol/L); CVA: cerebrovascular accident; d/w/m/y: duration in days / weeks / months / years; F: female; HCTZ: hydrochlorothiazide; HIVAN: HIV-associated nephropathy; K: serum potassium concentration (mmol/L); LI: liver injury; M: male; neg: HIV-seronegative; pos: HIV-seropositive; TB: tuberculosis; unk: unknown

[†] Patient died (from any cause) during admission or 30-day follow-up period

SDC 8. Summary of presentation of patients admitted for drug-induced hypoglycaemia.

Case	Age, sex	HIV	BG	Renal impairment	Relevant co-morbidities	Implicated drugs (duration of exposure)	Causality	Preventable
25	54 F	Neg	1.4	Yes: Creat=400		Gliclazide (unk) & metformin (unk)	Certain	Yes
26	74 F	Unk	2	Yes: eGFR=32	?Nosocomial sepsis (WCC=10)	Insulin (>10y)	Certain	Yes
27	79 F	Unk	2.1	No		Gliclazide (3d) & metformin (>6m)	Certain	Yes
28	77 F	Unk	1.2	Yes: eGFR=40	Dementia	Gliclazide (unk)	Certain	Yes
29	56 F	Unk	2.2	Yes: Creat=200		Insulin (unk), gliclazide (unk) & metformin (unk)	Certain	Yes
30	52 F	Neg	1.2	Yes: Creat=190	WCC=23	Insulin (unk)	Certain	Yes
31	68 F	Unk	1.9	Yes: Creat=233		Glibenclamide (unk) & metformin (unk)	Certain	Yes
32	60 F	Unk	2.2	No		Glibenclamide (unk) & metformin (unk)	Certain	Yes
33	77 M	Unk	2.8	Yes: Creat=103	?UTI (CRP=37) Dementia	Insulin (unk), gliclazide (unk) & metformin (unk)	Certain	Yes
34†	74 F	Unk	1.7	Yes: Creat=131	Old CVA, repeat CVA, WCC=10, CRP=24	Insulin (unk) & metformin (unk)	Certain	No
35	56 F	Unk	NR	Yes: Creat=88	Gastroenteritis, pneumonia	Gliclazide (unk) & metformin (unk)	Certain	Yes
36	70 F	Unk	NR	Yes: Creat=97		Insulin (>6m)	Certain	Yes
37	55 M	Unk	NR	No	Pneumonia (WCC=13, CRP<5) Skipped a meal but used insulin	Insulin (unk), glibenclamide (unk) & metformin (unk)	Certain	Yes
38†	53 M	Unk	0.7	Yes: eGFR=25		Insulin (1w)	Certain	Yes
39	56 M	Unk	1.8	Yes: eGFR=6	WCC=17	Glibenclamide (1m)	Probable	Yes
40†	73 F	Unk	0.5	Yes: eGFR=31	Sepsis (fever, WCC=14, neutrophilia)	Insulin (>2y)	Probable	No
41	56 F	Unk	0.7	No		Insulin (unk)	Certain	No
42†	61 F	Unk	1.1	Yes: Creat=700	New CVA	Insulin (unk) & unspecified oral hypoglycaemic agents	Certain	No
43	60 M	Unk	2.1	Yes: eGFR=18		Insulin (unk)	Certain	Yes
44	60 F	Unk	2	Yes: eGFR=45	WCC=9, CRP=36	Insulin (>2y)	Certain	Yes
45	78 M	Neg	1.8	Yes: eGFR=53	Bedsores (WCC=10, CRP=63)	Gliclazide (2m) & metformin (2m)	Probable	No
46	63 M	Pos	1.3	Yes: eGFR=48		Insulin (unk)	Certain	Yes

[†]Patient died (from any cause) during admission or 30-day follow-up period

BG: blood glucose nadir as recorded in file (mmol/L); Creat: creatinine (μ mol/L); CRP: C-reactive protein (mg/L); CVA: cerebrovascular accident; d/w/m/y: duration in days/ weeks/ months/ years; eGFR: estimated glomerular filtration rate (as per laboratory report) (mL/min/1.73 m²); F: female; M: male; neg: HIV-seronegative; NR: not recorded; pos: HIV-seropositive; unk: unknown; UTI: urinary tract infection; WCC: white blood cell count (x10 9 /L)

SDC 9. Summary of presentation of patients admitted for drug-induced liver injury.

Case	Age, sex	HIV (CD4)	DILI classification at first presentation (t-bili:ALT:ALP)	Hepatic co-morbidity	Implicated drugs (duration of exposure)	Causality	Preventable
47	36 M	Pos (2)	Cholestatic liver injury (71:30:305)		Rifampicin (>4m)	Possible	No
48	57 F	Unk	Cholestatic liver injury (74:13:146)	Alcohol liver disease, portal hypertension and oesophageal varices. Hepatitis C.	Rifampicin (<3w)	Possible	No
49†	58 F	Pos (299)	Cholestatic liver injury (309:71:359)		Rifampicin (4m)	Possible	No
50†	36 F	Pos (unk)	Cholestatic liver injury (146:205:468)		Efavirenz (unk)	Possible	No
51†	34 M	Pos (599)	Cholestatic liver injury (118:93:134)	Abdominal MDR-TB but no bile duct obstruction	Rifampicin (2m)	Probable	No
52	34 M	Pos (54)	Cholestatic liver injury (53:47:169)		Rifampicin (2d)	Possible	No
	10.7	5 (10)	Cholestatic liver injury		Rifampicin (3w)	Possible	No
53	19 F	Pos (44)	(114:63:153)	Suspected IRIS	Co-trimoxazole (3w)	Possible	No
54†	29 F	Pos (85)	Cholestatic liver injury (157:63:223)		Rifampicin (2w)	Possible	No
55	38 F	Pos (100)	Cholestatic liver injury (16:355:973)		Efavirenz (unk)	Probable	No
56	20 F	Pos (36)	Cholestatic liver injury (87:76:438)		Rifampicin (6w)	Possible	No
					Rifampicin (6w)	Possible	No
57	19 M	Neg	Hepatocellular injury (35:968:88)		Isoniazid (6w)	Possible	No
					Pyrazinamide (6w)	Possible	No
58	47 F	Pos (342)	Hepatocellular injury		Erythromycin (course commenced 2w ago)	Possible	No
		(= !=)	(16:2237:356)		Nevirapine (unk)	Possible	No
					Rifampicin (4m)	Possible	No
59†	37 F	Pos (178)	Hepatocellular injury (164:1512:140)	Chronic Hepatitis B	Isoniazid (4m)	Possible	No
					Pyrazinamide (4m)	Possible	Yes

Case	Age, sex	HIV (CD4)	DILI classification at first presentation (t-bili:ALT:ALP)	Hepatic co-morbidity	Implicated drugs (duration of exposure)	Causality	Preventable
					Rifampicin (?5m)	Possible	No
CD	20 M	D (22)	Hepatocellular injury		Efavirenz (?1y)	Possible	No
60	30 M	Pos (33)	(92:960:448)		Isoniazid (?5m)	Possible	No
					Pyrazinamide (?5m)	Possible	No
C1	20 F	D (120)	Hepatocellular injury	Previous DILI. This admission for	Rifampicin (2w)	Possible	Yes
61	39 F		(unk:825:218)	repeat DILI during rechallenge.	Isoniazid (2w)	Possible	Yes
62	22 F	Pos (545)	Mixed liver injury (94:143:146)	Liver biopsy supports DILI	Efavirenz (6m)	Possible	No
21†*	33 F	Pos (37)	Hepatorenal failure (mixed LI and AKI) (58:225:204)		Rifampicin (5d)	Probable	No
22*	50 M	Pos (165)	Hepatorenal failure (cholestatic LI and AKI) (191:13:153)		Enalapril (unk) (Could not exclude a potential role played by traditional remedies)	Possible	No
23†*	44 M	Pos (unk)	Hepatorenal failure (hepatocellular LI and AKI) (73:558:124)	Chronic Hepatitis B	Co-trimoxazole (unk)	Possible	Yes
24*	34 M	Pos (208)	Hepatorenal failure (cholestatic LI and AKI) (174:25:110)		Co-trimoxazole (unk)	Probable	No

^{*} Case also included in Supplementary Table S5

AKI: acute kidney injury; ALP: alkaline phosphatase (IU/L); ALT: alanine transaminase (IU/L); CD4: CD4-cell count (cells / μ L); d/w/m/y: duration in days/ weeks/ months/ years; DILI: drug-induced liver injury; F: female; IRIS: immune reconstitution inflammatory syndrome; LI: liver injury; M: male; MDR-TB: multidrug-resistant tuberculosis; neg: HIV-seronegative; pos: HIV-seropositive; t-bili: total serum-bilirubin (μ mol/L); unk: unknown.

[†] Patient died (from any cause) during admission or 30-day follow-up period

SDC 10. Summary of presentation of patients admitted for drug-induced haemorrhage.

Case	Age, sex	HIV	Haemorrhage	Implicated drugs	Indication for warfarin	Causality	Preventable
63	70 F	Unk	Gingival bleeding	Warfarin (INR > 10)	DVT	Certain	Yes
64	56 F	Unk	Gastric haemorrhage	Warfarin (INR = 4.8)	Valve replacement	Certain	Yes
65	61 F	Unk	Gastric haemorrhage	Diclofenac		Probable	No
66	90 F	Unk	Gastrointestinal haemorrhage	Acetylsalicylic acid		Possible	No
67	79 F	Unk	Gastrointestinal haemorrhage	NSAIDs, unspecified		Possible	No
68	83 M	Unk	Gastritis haemorrhagic	Acetylsalicylic acid		Possible	No
69	62 F	Unk	Lower gastrointestinal haemorrhage	Warfarin (INR = 4.7)	Valvular disease	Probable	No
70	58 F	Unk	Haemoptysis	Warfarin (INR = 4.9)	Valve replacement	Probable	Yes
71	18 F	Pos	Haemoptysis	Warfarin (INR > 10)	Right ventricular thrombosis secondary to dilated cardiomyopathy	Certain	Yes
72	72 F	Unk	Haemoptysis	Warfarin (INR = 2.0)	Valvular disease	Possible	No
73	53 F	Neg	Epistaxis	NSAIDs, unspecified		Possible	No
74	77 F	Unk	Haemarthrosis	Warfarin (INR = 4.3)	DVT	Certain	Yes
75	87 F	Unk	Haematuria	Warfarin (INR > 10)	Atrial fibrillation	Certain	Yes
76	48 F	Unk	Retroperitoneal haemorrhage	Warfarin (INR = 1.5)	Valve replacement	Probable	Yes
77	40 F	Unk	Menorrhagia	Warfarin (INR > 10)	DVT	Certain	Yes
78	30 F	Pos	Menorrhagia	Warfarin (INR = 6.9)	DVT	Certain	Yes
79†	79 F	Unk	Cerebral haemorrhage	Warfarin (INR = 4.6)	DVT	Certain	Yes
80†	79 F	Unk	Haemorrhage intracranial	Warfarin (INR = 9.2)	Atrial fibrillation	Probable	Yes
81†	67 F	Pos	Subarachnoid haemorrhage	Acetylsalicylic acid		Possible	No

 $[\]dagger$ Patient died (from any cause) during admission or 30-day follow-up period

F: female; M: male; neg: HIV-seronegative; pos: HIV-seropositive; unk: unknown; INR: international normalised ratio; NSAIDs: non-steroidal antiinflammatories; DVT: deep venous thrombosis

SDC 11. Summary of presentation of patients admitted for drug-induced blood dyscrasias.

Case	Age, sex	HIV (CD4)	Adverse drug reaction	Implicated drugs	Causality	Preventable	
82	48 M	Pos (unk)	Anaemia	Zidovudine	Probable	Yes	
83	58 F	Pos (338)	Anaemia	Zidovudine	Possible	No	
84	55 M	Pos (206)	Anaemia macrocytic	Zidovudine and lamivudine	Probable	Yes	
85	33 F	Pos (11)	Anaemia normochromic normocytic	Zidovudine	Possible	No	
86†	29 F	Pos (16)	Aplastic anaemia	Co-trimoxazole	Certain	Yes	
87†	32 M	Pos (78)	Pancytopenia	Co-trimoxazole	Possible	No	
88	33 F	Pos (24)	Thrombocytopenia	Co-trimoxazole	Possible	No	
89	65 M	Pos (54)	Thrombocytopenia	Co-trimoxazole	Possible	No	
00	22 M	N	Thomas	Rifampicin	Probable	No	
90	23 M	M Neg	g Thrombocytopenia	Amoxicillin	Possible	No	
01	21 M	Pag (207)	Thomas	Rifampicin	Possible	No	
91	31 M	Pos (207)	Thrombocytopenia	Isoniazid	Possible	No	
92	26 M	Pos (622)	Thrombocytopenia	Valproic acid	Possible	No	
93†	60 M	Pos (331)	Neutropenia	Stavudine	Possible	No	
94	63 F	F Unk		Nautropopia	Allopurinol	Possible	No
74	03 F		Neutropenia	Colchicine	Possible	No	
95	70 F	Unk	Leukopenia	Methotrexate and chloroquine	Certain	No	

 $[\]dagger$ Patient died (from any cause) during admission or 30-day follow-up period

CD4: CD4-cell count (cells / μ L); F: female; M: male; neg: HIV-seronegative; pos: HIV-seropositive; unk: unknown;

SDC 12. Summary of presentation of patients admitted for other* Type A adverse drug reactions.

Case	Age, sex	HIV	Adverse drug reaction	Implicated drugs	Causality	Preventable
96	22 F	Neg	Cardiac failure	Carvedilol	Possible	No
97	67 F	Unk	Cardiac failure	Carvedilol	Possible	Yes
98	79 M	Unk	Cardiac failure	Atenolol	Probable	Yes
99	52 F	Neg	Cardiac failure	Propranolol	Probable	No
100	72 F	Unk	Cardiac failure	Amlodipine and atenolol	Possible	Yes
101	55 F	Unk	Cardiac failure	Nifedipine	Possible	No
102	84 F	Unk	Cardiac failure	Atenolol	Possible	No
103	51 F	Neg	Cardiac failure	Atenolol and diltiazem	Possible	Yes
104	75 F	Unk	Cardiac failure	Atenolol	Possible	No
105	83 F	Unk	Hypotension	Enalapril and furosemide	Possible	No
106	55 M	Unk	Hypotension	Carvedilol, enalapril, and furosemide	Probable	Yes
107	53 M	Unk	Hypotension	Enalapril and furosemide	Possible	No
108	88 F	Unk	Orthostatic hypotension	Amlodipine, enalapril, and hydrochlorothiazide	Possible	Yes
109	75 F	Unk	Syncope	Tramadol, clonazepam, furosemide, propranolol, phenytoin, and levodopa with decarboxylase inhibitor	Possible	Yes
110	75 F	Unk	Cerebrovascular accident	Amlodipine, atenolol, enalapril, and hydrochlorothiazide	Possible	Yes
111	55 F	Unk	Acute myocardial infarction	Tranexamic acid	Possible	No
112	36 F	Pos	Gastritis	Acetylsalicylic acid and paracetamol (combination formulation)	Probable	Yes
113	52 F	Pos	Vomiting	Tenofovir-lamivudine-efavirenz (fixed drug combination)	Possible	No
114	45 F	Neg	Vomiting	Metformin	Certain	No
115†	65 F	Pos	Diarrhoea	Lopinavir-ritonavir	Possible	No
116	65 F	Unk	Pneumonia	Prednisone	Possible	No
117†	19 M	Unk	Pneumonia	Tacrolimus and prednisone	Possible	No

Case	Age, sex	HIV	Adverse drug reaction	Implicated drugs	Causality	Preventable
118	56 F	Unk	Pneumonia	Imatinib	Possible	No
119	57 F	Neg	Pneumonia	Azathioprine and prednisone	Possible	No
120	18 M	Unk	Gastroenteritis	Ciclosporin	Probable	No
121†	76 F	Unk	Pyelonephritis acute	Chlorambucil and prednisone	Possible	No
122†	27 F	Pos	Pneumocystis jirovecii pneumonia	Prednisone	Possible	No
123	50 M	Unk	Diabetes mellitus	Prednisone	Possible	No
124	64 F	Unk	Diabetes mellitus	Hydrochlorothiazide and prednisone	Probable	Yes
125	69 F	Unk	Hypokalaemia	Furosemide	Certain	Yes
126†	56 F	Neg	Hypokalaemia	Hydrochlorothiazide	Possible	Yes
127	69 F	Unk	Hypokalaemia	Furosemide and prednisone	Certain	Yes
128	58 F	Unk	Hyperkalaemia	Enalapril	Probable	Yes
129	69 F	Pos	Hyponatraemia	Co-trimoxazole and hydrochlorothiazide	Probable	No
130	66 F	Unk	Hyponatraemia	Hydrochlorothiazide	Possible	No
131	47 F	Unk	Hyponatraemia	Hydrochlorothiazide	Possible	No
132†	53 M	Pos	Lactic acidosis	Stavudine	Possible	Yes
133†	61 F	Pos	Lactic acidosis	Stavudine	Probable	Yes
134	82 M	Unk	Asthenia	Digoxin	Certain	Yes
135	23 M	Unk	Confusional state	Phenytoin	Certain	Yes
136†	82 F	Unk	Confusional state	Tramadol	Possible	No
137†	89 F	Unk	Confusional state	Digoxin	Certain	Yes
138	43 F	Pos	Confusional state	Efavirenz	Possible	No
139	34 M	Pos	Confusional state	Efavirenz	Probable	No
140	62 F	Unk	Confusional state	Phenytoin	Certain	Yes
141	91 F	Unk	Confusional state	Tramadol, risperidone, and zopiclone	Probable	Yes
142	40 M	Unk	Confusional state	Phenobarbital and phenytoin	Probable	Yes

Mouton JP, Njuguna C, Kramer N, Stewart A, Mehta U, Blockman M, et al. Adverse drug reactions causing admission to medical wards: a cross-sectional survey at four hospitals in South Africa. Supplemental Digital Content

Case	Age, sex	HIV	Adverse drug reaction	Implicated drugs	Causality	Preventable
143†	39 F	Pos	Ataxia	Efavirenz	Possible	No
144	33 M	Unk	Ataxia	Phenytoin	Certain	Yes
145	36 M	Unk	Ataxia	Phenytoin	Certain	Yes
146	53 M	Unk	Loss of consciousness	Phenytoin	Probable	Yes
147	58 F	Unk	Generalised tonic-clonic seizure	Theophylline, chlorpromazine, and zuclopenthixol	Possible	No
148	65 M	Neg	Generalised tonic-clonic seizure	Theophylline	Possible	No
149	34 F	Pos	Optic neuritis	Ethambutol	Certain	Yes
150	34 F	Neg	Headache	Levonorgesterel and estrogen (combined oral contraceptive)	Possible	No
151	21 M	Unk	Hallucination	Phenytoin	Probable	Yes
152	29 M	Neg	Aggression	Phenytoin	Certain	Yes
153	40 F	Pos	Acute psychosis	Efavirenz	Possible	No
154†	44 F	Pos	Renal tubular disorder	Tenofovir	Possible	No
155	35 F	Pos	Renal tubular disorder	Kanamycin and tenofovir	Certain	Yes

^{*} Excludes patients admitted for drug-induced hypoglycaemia, drug-induced blood dyscrasias, drug-related haemorrhage, and drug-induced renal failure / impairment † Patient died (from any cause) during admission or 30-day follow-up period

 $F: female; \ M: \ male; \ neg: \ HIV-serone gative; \ pos: \ HIV-seropositive; \ unk: \ unknown$

SDC 13. Summary of presentation of patients admitted for other* Type B adverse reactions.

Case	Age, sex	HIV	Adverse Drug Reaction	Implicated Drugs	Causality	Preventable
156	69 F	Unk	Pancreatitis acute	Simvastatin	Possible	No
157	51 M	Pos	DRESS	Hydrochlorothiazide	Probable	No
158	22 F	Neg	DRESS	Phenytoin	Certain	No
159	72 M	Unk	DRESS	Phenytoin	Certain	No
160	38 F	Pos	DRESS	Rifampicin	Certain	No
161	58 M	Neg	Dermatitis exfoliative	Allopurinol	Possible	No
101	30 141		5 John Marie Chiefman C	Imatinib	Possible	No
				Co-trimoxazole	Possible	No
162	36 F	86 F Pos	Pos Stevens-Johnson syndrome	Unspecified ART	Possible	No
				Unspecified TBT	Possible	No
163	57 F	Unk	Angioedema	Perindopril	Certain	No
164	50 F	Unk	Interstitial lung disease	Methotrexate	Possible	No

 $^{^*}$ Excludes admissions for drug-induced liver injury, drug-induced renal impairment, and drug-induced blood dyscrasias \dagger No known deaths (from any cause) during admission or 30-day follow-up period

ART: antiretroviral treatment; DRESS: drug reaction with eosinophilia and systemic symptoms; F: female; neg: HIV-seronegative; pos: HIV-seropositive; M: male; TBT: tuberculosis treatment; unk: unknown

SDC 14. All ADRs causing admission (n=164), mapped to higher-level terms, higher-level groups, and system-organ classes, according to the MedDRA® taxonomy. Asterisks indicate preferred terms mapping to more than one heading.

Adverse Drug Reaction	Frequency	Proportion
Blood and lymphatic system disorders	14	8.5%
Anaemias, nonhaemolytic and marrow depression Anaemias Anaemia Anaemia, macrocytic (*) Anaemia, normochromic normocytic Marrow depression and hypoplastic anaemias Aplastic anaemia	6 4 2 1 1 2	3.6% 2.4% 1.2% <1% <1% 1.2% <1%
Pancytopaenia	1	<1%
Platelet disorders Thrombocytopaenias Thrombocytopaenia	5 5 5	3.1% 3.1% 3.1%
White blood cell disorders Leukopaenias Leukopaenia Neutropaenias Neutropaenia	3 1 1 2 2	1.8% <1% <1% 1.2% 1.2%
Cardiac disorders Heart failures	14 9	8.5% 5.5%
Heart failures Cardiac failure	9 9	5.5% 5.5%
Cardiac disorder signs and symptoms Cardiac signs and symptoms Haemoptysis (*) Syncope (*)	4 4 3 1	2.4% 2.4% 1.8% <1%
Coronary artery disorders Ischaemic coronary artery disorders Acute myocardial infarction (*)	1 1 1	<1% <1% <1%
Endocrine disorders	24	15%
Glucose metabolism disorders Hypoglycaemic conditions Hypoglycaemia (*) Diabetes mellitus Diabetes mellitus (*)	24 22 22 2 2 2	15% 13% 13% 1.2% 1.2%
Eye disorders	1	<1%
Ocular infections, irritations and inflammations Optic nerve infections and inflammation Optic neuritis (*)	1 1 1	<1% <1% <1%
Gastrointestinal disorders	14	8.5%
Gastrointestinal haemorrhages Non-site specific GI haemorrhage Gastrointestinal haemorrhage (*) Lower gastrointestinal haemorrhage (*) Gastric and oesophageal haemorrhages Gastric haemorrhage (*)	5 3 2 1 2 2	3.1% 1.8% 1.2% <1% 1.2% 1.2%
Gastrointestinal inflammatory conditions Gastritis (excl infective) Gastritis Gastritis haemorrhagic (*)	2 2 1 1	1.2% 1.2% <1% <1%

Gastrointestinal signs and symptoms	2	1.2%
Nausea and vomiting symptoms	2	1.2%
Vomiting	2	1.2%
vonning	2	1.270
Dental and gingival conditions	1	<1%
Gingival haemorrhages	1	<1%
Gingival bleeding (*)	1	<1%
Gingival bleeding (*)	1	<1 70
Exocrine pancreas conditions	1	<1%
Acute and chronic pancreatitis	1	<1%
Acute pancreatitis	1	<1%
Acute pancieatus	1	<170
Gastrointestinal infections	1	<1%
Gastromestinal infections Gastromestinal infections	1	<1%
Gastroenteritis (*)	1	<1%
Gastrointestinal motility and defaecation disorders	1	<1%
Diarrhoea (excl infective)	1	<1%
Diarrhoea	1	<1%
Peritoneal and retroperitoneal conditions	1	<1%
Peritoneal and retroperitoneal haemorrhage	1	<1%
Retroperitoneal haemorrhage (*)	1	<1%
General disorders and administration site conditions	4	2.4%
	-	_,,,,
General system disorders	4	2.4%
Gait disorders	3	1.8%
Ataxia (*)	3	1.8%
Asthenic conditions	1	<1%
Asthenia	1	<1%
Hepatobiliary disorders	20	12%
·		
Hepatic and hepatobiliary disorders	20	12%
Hepatocellular damage and hepatitis	16	9.8%
Cholestatic liver injury	10	6.1%
Hepatocellular injury	5	3.1%
Mixed liver injury	1	<1%
Hepatic failure and associated disorders	4	2.4%
Hepatorenal failure (*)	4	2.4%
Immune system disorders	8	4.9%
inimule system disorders	8	4.9 /0
Allergic conditions	7	4.3%
Allergies to foods, food additives, drugs and other chemicals	5	3.0%
	4	2.4%
Drug reaction with eosinophilia and systemic symptoms (*)		
Dermatitis exfoliative (*)	1	<1%
Allergic conditions	1	<1%
Stevens-Johnson syndrome (*)	1	<1%
Angioedemas	1	<1%
Angioedema (*)	1	<1%
Autoimmune disorders	1	<1%
Nervous system autoimmune disorders	1	<1%
Optic neuritis (*)	1	<1%
		4.007
Infections and infestations	8	4.9%
Infections - pathogen unspecified	6	3.7%
Lower respiratory tract and lung infections	4	2.4%
Pneumonia (*)	4	2.4%
Abdominal and gastrointestinal infections	1	<1%
Gastroenteritis (*)	1	<1%
Urinary tract infections	1	<1%
Pyelonephritis acute	1	<1%
V 1 1 X 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-	,3
Ancillary infectious topics	1	<1%
Inflammatory disorders following infection	1	<1%
Stevens-Johnson syndrome (*)	1	<1%
Sectors someone ()	1	<u>\1</u> /0
Fungal infectious disorders	1	<1%
$oldsymbol{arphi}$		

Pneumocystis infections Pneumocystis jirovecii pneumonia (*)	1 1	<1% <1%
Injury, poisoning and procedural complications	3	1.8%
Bone and joint injuries Bone and joint injuries Haemarthrosis (*)	1 1 1	<1% <1% <1%
Exposures, chemical injuries and poisoning Poisoning and toxicity Stevens-Johnson syndrome (*)	1 1 1	<1% <1% <1%
Injuries Cerebral injuries Subarachnoid haemorrhage (*)	1 1 1	<1% <1% <1%
Metabolism and nutrition disorders	34	21%
Glucose metabolism disorders Hypoglycaemic conditions Hypoglycaemia (*) Diabetes mellitus Diabetes mellitus (*)	24 22 22 2 2 2	15% 13% 13% 1.2% 1.2%
Electrolyte and fluid balance conditions Potassium imbalance Hypokalaemia Hyperkalaemia Sodium imbalance Hyponatraemia	7 4 3 1 3 3	4.3% 2.4% 1.8% <1% 1.8% 1.8%
Acid-base disorders Metabolic acidosis Lactic acidosis	2 2 2	1.2% 1.2% 1.2%
Vitamin-related disorders Vitamin deficiencies Anaemia macrocytic (*)	1 1 1	<1% <1% <1%
Musculoskeletal and connective tissue disorders	1	<1%
Joint disorders Arthropathies Haemarthrosis (*)	1 1 1	<1% <1% <1%
Nervous system disorders	22	13%
Neurological disorder Cortical dysfunction Confusional state (*) Coordination and balance disturbance Ataxia (*) Disturbances in consciousness Loss of consciousness Syncope (*)	13 8 8 3 3 2 1	7.9% 4.9% 4.9% 1.8% 1.2% <1%
CNS vascular disorder CNS haemorrhages and cerebrovascular accidents Cerebral haemorrhage (*) Cerebrovascular accident (*) Haemorrhage intracranial (*) Subarachnoid haemorrhage (*)	4 4 1 1 1	2.4% 2.4% <1% <1% <1% <1%
Seizures Generalised tonic-clonic seizures Generalised tonic-clonic seizure	2 2 2	1.2% 1.2% 1.2%
Cranial nerve disorders Optic nerve disorders Optic neuritis (*)	1 1 1	<1% <1% <1%
Headaches	1	<1%

Headaches		1	<1%
	Headache	1	<1%
Neuromuscular disorders Autonomic nervo	us system disorders Orthostatic hypotension (*)	1 1 1	<1% <1% <1%
Psychiatric disorders		11	6.7%
Deliria		8	4.9%
Confusion and di	Sorientation Confusional state (*)	8 8	4.9% 4.9%
Disturbances in thinking and perce Perception distur		1 1 1	<1% <1% <1%
Personality disorders and disturban		1	<1%
	cialisation disturbances Aggression	1	<1% <1% <1%
Schizophrenia and other psychotic		1	<1%
Psychotic disorde	r Acute psychosis	1 1	<1% <1%
Renal and urinary disorders		28	17%
Renal disorders (excl nephropathie		25	15%
Renal failure and	impairments Renal failure acute	24 13	15% 7.9%
	Renal failure	7	4.3%
Donal infactions	Hepatorenal failure (*) and inflammations	4	2.4%
Renai infections	Acute pyelonephritis	1	<1% <1%
Nephropathies		2	1.2%
	d tubular disorders	2	1.2%
Hair and the state of the state	Renal tubular disorder	2	1.2%
Urinary tract symptoms and signs Urinary abnorma	ities	1 1	<1% <1%
•	Haematuria (*)	1	<1%
Reproductive system and breast disorders		2	1.2%
Menstrual cycle and uterine bleeding		2	1.2%
Menstruation wit	h increased bleeding Menorrhagia	2 2	1.2% 1.2%
	•	2	1.270
Respiratory, thoracic and mediastinal disorde	rs	10	6.1%
Respiratory tract infections	Anna Air Gradiana	5	3.0%
Lower respiratory	Pneumonia (*)	4 4	2.4% 244%
Fungal lower resp	piratory tract infections	1	<1%
	Pneumocystis jirovecii pneumonia (*)	1	<1%
Respiratory disorders		3	1.8%
Coughing and ass	ociated symptoms Haemoptysis (*)	3 3	1.8% 1.8%
Lower respiratory tract disorders (e	• •	1	<1%
Parenchymal lung	g disorders	1	<1%
	Interstitial lung disease	1	<1%
Upper respiratory tract disorders (e	xcl infections)	1	<1%
Nasal disorders	Epistaxis (*)	1	<1% <1%
	r ···· · · · · /	•	1270
Skin and subcutaneous tissue disorders		7	4.3%
Epidermal and dermal conditions		6	3.7%
Dermatitis ascrib	ed to specific agent	4	2.4%

Drug reaction with eosinophilia and systemic symptoms (*)	4	2.4%
Bullous conditions	1	<1%
Stevens-Johnson syndrome (*) Exfoliative conditions	1 1	<1% <1%
Dermatitis exfoliative (*)	1	<1% <1%
Defination extonative (*)	1	<1 70
Angioedema and urticaria	1	<1%
Angioedemas	1	<1%
Angioedema (*)	1	<1%
Vascular disorders	24	15%
Vascular haemorrhagic disorders	17	10%
Gastrointestinal haemorrhages	7	4.3%
Gastric haemorrhage (*)	2	1.2%
Gastrointestinal haemorrhage (*)	2	1.2%
Gastritis haemorrhagic (*)	1	<1%
Gingival bleeding (*)	1	<1%
Lower gastrointestinal haemorrhage (*)	1	<1%
Haemorrhages	7	4.3%
Haemoptysis (*)	3	1.8%
Epistaxis (*)	1	<1%
Haemarthrosis (*)	1	<1%
Haematuria (*)	1	<1%
Retroperitoneal haemorrhage (*)	1	<1%
Nervous system haemorrhagic disorders	3	1.8%
Cerebral haemorrhage (*)	1	<1%
Haemorrhage intracranial (*)	1	<1%
Subarachnoid haemorrhage (*)	1	<1%
Decreased and nonspecific blood pressure disorders and shock	5	3.0%
Vascular hypotensive disorders	4	2.4%
Hypotension	3	1.8%
Orthostatic hypotension (*)	1	<1%
Circulatory collapse and shock	1	<1%
Syncope (*)	1	<1%
Arteriosclerosis, stenosis, vascular insufficiency and necrosis	1	<1%
Coronary necrosis and vascular insufficiency	1	<1%
Acute myocardial infarction (*)	1	<1%
Vascular disorders	1	<1%
Cerebrovascular and spinal vascular disorders	1	<1%
Cerebrovascular accident (*)	1	<1%

SDC 15. Drugs implicated in ADR-related admissions, by ATC-classification.

	Number of		admissions in was implicat	which the drued	ıg / drug
Dung closs / Dung	Type A ADRs (alone) ^a	Type A ADRs (comb) ^b	Type B ADRs (alone) ^c	Type B ADRs (comb) ^d	Total ^e
Drug class / Drug	(alone)	(comb)	(alone)	(comb)	Total
A ALIMENTARY TRACT AND METABOLISM	12	11			23
A10 Drugs used in diabetes	12	11			23
A10A Insulins and analogues	9	5			14
A10B Oral blood glucose lowering drugs	3	11			14
A10BA Biguanides A10BA02 Metformin	1	10			11
A10BA02 Metformin A10BB Sulfonamides, urea derivatives	1 1	10 9			11 11
A10BB 30Hohalindes, urea derivatives A10BB01 Glibenclamide	1	3			4
A10BB09 Gliclazide	1	6			7
Unspecified oral blood glucose lowering drugs	1	1			1
B BLOOD AND BLOOD FORMING OBCANS	17	1			10
B BLOOD AND BLOOD FORMING ORGANS		1			18
B01 Antithrombotic agents B01A Antithrombotic agents	16	1			17
ě	16 13	1			17
B01AA Vitamin K antagonists B01AA03 Warfarin	13				13
B01AC Platelet aggregation inhibitors, excl. heparins	3	1			13 4
B01AC06 Acetylsalicylic acid	3	1			4
		1			
B02 Antihaemorrhagics	1				1
B02A Antifibrinolytics	1				1
B02AA Amino acids	1				1
B02AA02 Tranexamic acid	1				1
C CARDIOVASCULAR SYSTEM	16	16	4	1	37
C01 Cardiac therapy	2				2
C01A Cardiac glycosides	2				2
C01AA Digitalis glycosides	2				2
C01AA05 Digoxin	2				2
C02 Antihypertensives		1			1
C02D Arteriolar smooth muscle, agents acting on		1			1
C02DB Hydrazinophthalazine derivatives		1			1
C02DB02 Hydralazine		1			1
C03 Diuretics	4	14	1		19
C03A Low-ceiling diuretics, thiazides	3	6	1		10
C03AA Thiazides, plain	3	6	1		10
C03AA03 Hydrochlorothiazide	3	6	1		10
C03C High-ceiling diuretics	1	10			11
C03CA Sulfonamides, plain	1	10			11
C03CA01 Furosemide	1	10			11
C03D Potassium-sparing agents		2			2
C03DA Aldosterone antagonists		2			2
C03DA01 Spironolactone		2			2
C07 Beta-blocking agents	6	6			12
C07A Beta-blocking agents	6	6			12
C07AA Beta-blocking agents, non-selective	1	1			2
C07AA05 Propranolol	1	1			2
C07AB Beta-blocking agents, selective	3	4			7
C07AB03 Atenolol	3	4			7
C07AG Alpha- and beta-blocking agents	2	1			3
C07AG02 Carvedilol	2	1			3
C08 Calcium channel blockers	1	5			6
C08C Selective calcium channel blockers with mainly vascular effects	1	4			5

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Number of ADR-related admissions in which the drug / drug class was implicated Type A Type A Type B Type B **ADRs ADRs ADRs ADRs** Drug class / Drug (alone)a (comb)b (alone)c (comb)d Total^e C08CA Dihydropyridine derivatives C08CA01 Amlodipine C08CA05 Nifedipine C08D Selective calcium channel blockers with direct cardiac effects C08DB Benzothiazepine derivatives C08DB01 Diltiazem C09 Agents acting on the renin-angiotensin system C09A ACE-inhibitors, plain C09AA ACE-inhibitors, plain C09AA01 Captopril C09AA02 Enalapril C09AA04 Perindopril C09B ACE-inhibitors, combinations C09BA ACE-inhibitors and diuretics C09BA04 Perindopril and diuretics C09C Angiotensin II antagonists, plain C09CA Angiotensin II antagonists, plain C09CA03 Valsartan C10 Serum lipid reducing agents C10A Cholesterol and triglyceride reducers C10AA HMG-coA reductase inhibitors C10AA01 Simvastatin G GENITO-URINARY SYSTEM AND SEX HORMONES G03 Sex hormones and modulators of the genital system G03A Hormonal contraceptives for systemic use G03AA Progestogens and oestrogens, fixed combinations G03AA07 Levonorgestrel and oestrogen H SYSTEMIC HORMONAL PREPARATIONS, EXCL. SEX HORMONES AND **INSULINS** H02 Corticosteroids for systemic use H02A Corticosteroids for systemic use, plain H02AB Glucocorticoids H02AB07 Prednisone J ANTI-INFECTIVES FOR SYSTEMIC USE J01 Antibacterials for systemic use J01C Beta-lactam antibacterials, penicillins J01CA Penicillins with extended spectrum J01CA04 Amoxicillin J01CR Combinations of penicillins, incl. beta-lactamase inhibitors J01CR02 Co-amoxiclay J01E Sulfonamides and trimethoprim J01EE Combinations of sulfonamides and trimethoprim, incl. derivatives J01EE01 Sulfamethoxazole and trimethoprim J01F Macrolides, lincosamides and streptogramins J01FA Macrolides J01FA01 Erythromycin J01G Aminoglycoside antibacterials J01GB Other aminoglycosides J01GB04 Kanamycin J04 Antimycobacterials J04A Drugs for treatment of tuberculosis

J04AB Antibiotics

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Number of ADR-related admissions in which the drug / drug class was implicated

Type A Type B Type A Type B **ADRs ADRs ADRs ADRs** Total^e Drug class / Drug (alone)a (comb)b (alone)c (comb)d J04AB02 Rifampicin J04AC Hydrazides J04AC01 Isoniazid J04AK Other drugs for treatment of tuberculosis J04AK01 Pyrazinamide J04AK02 Ethambutol Unspecified treatment for tuberculosis J05 Antivirals for systemic use J05A Direct-acting antivirals J05AB Nucleosides and nucleotides, excl. reverse transcriptase inhibitors J05AB01 Aciclovir J05AE Protease inhibitors J05AE30 Lopinavir-ritonavir J05AF Nucleoside and nucleotide reverse transcriptase inhibitors J05AF01 Zidovudine J05AF04 Stavudine J05AF05 Lamivudine J05AF07 Tenofovir disoproxil J05AF09 Emtricitabine J05AG Non-nucleoside reverse transcriptase inhibitors J05AG01 Nevirapine J05AG03 Efavirenz Unspecified antiretroviral therapy L ANTINEOPLASTIC AND IMMUNOMODULATING AGENTS L01 Antineoplastic agents L01A Alkylating agents L01AA Nitrogen mustard analogues L01AA02 Chlorambucil L01X Other antineoplastic agents L01XE Protein kinase inhibitors L01XE01 Imatinib

Eo il Eto i i Ettinopinie					
L04AX03 Methotrexate		1	1		2
M MUSCULO-SKELETAL SYSTEM	3			4	7
M01 Anti-inflammatory and antirheumatic products	3			2	5
M01A Anti-inflammatory and antirheumatic products, non-steroids	3			2	5
M01AB Acetic acid derivatives and related substances	1			1	2
M01AB01 Indometacin				1	1
M01AB05 Diclofenac	1				1
M01AE Propionic acid derivatives				1	1
M01AE01 Ibuprofen				1	1
Unspecified non-steroidal anti-inflammatories	2				2
M04 Antigout preparations				2	2
M04A Antigout preparations				2	2
M04AA Preparations inhibiting uric acid production				2	2
M04AA01 Allopurinol				2	2
M04AC Preparations with no effect on uric acid metabolism				1	1
M04AC01 Colchicine				1	1

L04 Immunosuppressive agents

L04A Immunosuppressive agents

L04AD Calcineurin inhibitors

L04AD01 Ciclosporin

L04AD02 Tacrolimus

L04AX01 Azathioprine

L04AX Other immunosuppressive agents

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Number of ADR-related admissions in which the drug / drug class was implicated

		ciass	was implicat	ea	
Drug class / Drug	Type A ADRs (alone) ^a	Type A ADRs (comb) ^b	Type B ADRs (alone) ^c	Type B ADRs (comb) ^d	Total ^e
N NERVOUS SYSTEM	9	4	3		16
N02 Analgesics	2	2			4
N02A Opioids	1	2			3
N02AX Other opioids	1	2			3
N02AX02 Tramadol	1	2			3
N02B Other analgesics and antipyretics	1	-			1
N02BE Anilides	1				1
N02BE51 Paracetamol, combinations excl. psycholeptics	1				1
N03 Anti-epileptics	7	2	3		12
N03A Anti-epileptics	7	2	3		12
N03AA Barbiturates and derivatives	,	1	2		1
N03AA02 Phenobarbital		1			1
N03AB Hydantoin derivatives	7	2	2		11
N03AB02 Phenytoin	7	2	2		11
N03AE Benzodiazepine derivatives	,	1	2		1
N03AE01 Clonazepam		1			1
N03AG Fatty acid derivatives		1	1		1
N03AG01 Valproic acid			1		1
N04 Anti-Parkinson drugs		1			1
N04B Dopaminergic agents		1			1
N04BA Dopa and dopa derivatives		1			1
N04BA02 Levodopa and decarboxylase inhibitor		1			1
N05 Psycholeptics		2			2
N05A Antipsychotics		2			2
N05AA Phenothiazines with aliphatic side-chain		1			1
N05AA01 Chlorpromazine		1			1
N05AF Thioxanthene derivatives		1			1
N05AF05 Zuclopenthixol		1			1
N05AX Other antipsychotics		1			1
N05AX08 Risperidone		1			1
N05C Hypnotics and sedatives		1			1
N05CF Benzodiazepine-related drugs		1			1
N05CF01 Zopiclone		1			1
P ANTIPARASITIC PRODUCTS, INSECTICIDES AND REPELLENTS		1			1
P01 Antiprotozoals		1			1
P01B Antimalarials		1			1
P01BA Aminoquinolines		1			1
P01BA01 Chloroquine		1			1
R RESPIRATORY SYSTEM	1	1			2
R03 Drugs for obstructive airway	1	1			2
R03D Other systemic drugs for obstructive airway diseases	1	1			2
R03DA Xanthines	1	1			2
R03DA Aantillies R03DA04 Theophylline	1	1			2
1000000 Incophymnic	1	1			<u> </u>

⁽a) Number of type A ADR-related admissions in which the drug / drug class was the sole implicated drug.
(b) Number of type A ADR-related admissions in which the drug / drug class was an implicated drug in combination with other drugs.
(c) Number of type B ADR-related admissions in which the drug / drug class was the sole implicated drug.

⁽d) Number of type B ADR-related admissions in which the drug / drug class was an implicated drug together with other implicated drugs.

⁽e) Total number of ADR-related admissions in which the drug / drug class was implicated.

SDC 16. Alternative generalized estimation equation model of associations with adverse drug reaction-related admission, including all admissions (n=1951 admissions in 1904 patients).

			Crude				
	n	OR	(95% CI)	Wald <i>P</i> value	OR	(95% CI)	Wald <i>P</i> value
Sex							
Male (referent)	864	1.00			1.00		
Female	1087	1.67	(1.19 to 2.35)	.003	1.57	(1.10 to 2.23)	.01
Agea	1951	1.06	(0.98 to 1.15)	.17	1.03	(0.92 to 1.15)	.65
HIV and ART							
HIV-negative/unknown (referent)	1378	1.00			1.00		
HIV-infected, not on ART	259	0.69	(0.38 to 1.25)	.22	1.04	(0.54 to 2.00)	.91
HIV-infected, on ART	314	2.43	(1.69 to 3.51)	<.001	2.02	(1.22 to 3.33)	.006
Anti-tuberculosis therapy							
Not on ATT (referent)	1764	1.00			1.00		
On ATT	187	2.41	(1.57 to 3.72)	<.001	1.24	(0.72 to 2.12)	.44
Drug count ^b	1951	1.23	(1.18 to 1.28)	<.001	1.17	(1.11 to 1.23)	<.001
Comorbidity score ^c	1951	1.34	(1.20 to 1.51)	<.001	1.24	(1.07 to 1.42)	.003

⁽a) Included in the model as a continuous variable. The reported odds ratio is for each 10-year increment.

ART: antiretroviral therapy, ATT: antituberculosis therapy, CI: confidence interval, OR: odds ratio.

⁽b) Included in the model as a continuous variable. The reported odds ratio is for each additional drug.

⁽c) Included in the model as a continuous variable. The reported odds ratio is for each additional point on the modified Charlson comorbidity score.

⁽d) Adjusted for other factors in the model.

SDC 17. Alternative generalized estimation equation model of associations with adverse drug reaction-related admission, excluding patients in whom no drug history was recorded in the medical records, as well as patients documented to have had zero drug exposure (n=1469 admissions in 1432 patients).

		Crude				Adjusted ^d			
	n	OR	(95% CI)	Wald <i>P</i> value	OR	(95% CI)	Wald <i>P</i> value		
Sex									
Male (referent)	603	1.00			1.00				
Female	866	1.47	(1.04 to 2.08)	.03	1.47	(1.04 to 2.09)	.03		
Agea	1469	1.00	(0.92 to 1.09)	.94	1.00	(0.90 to 1.12)	.96		
HIV and ART									
HIV-negative/unknown (referent)	1029	1.00			1.00				
HIV-infected, not on ART	126	1.10	(0.59 to 2.02)	.77	1.28	(0.65 to 2.52)	.48		
HIV-infected, on ART	314	1.76	(1.22 to 2.55)	.002	1.77	(1.09 to 2.85)	.02		
Anti-tuberculosis therapy									
Not on ATT (referent)	1282	1.00			1.00				
On ATT	187	1.69	(1.10 to 2.61)	.02	1.21	(0.73 to 2.00)	.46		
Drug count ^b	1469	1.15	(1.10 to 1.20)	<.001	1.11	(1.05 to 1.17)	<.001		
Comorbidity score ^c	1469	1.23	(1.09 to 1.39)	.001	1.22	(1.07 to 1.41)	.004		

⁽a) Included in the model as a continuous variable. The reported odds ratio is for each 10-year increment.

ART: antiretroviral therapy, ATT: antituberculosis therapy, CI: confidence interval, OR: odds ratio.

⁽b) Included in the model as a continuous variable. The reported odds ratio is for each additional drug.

⁽c) Included in the model as a continuous variable. The reported odds ratio is for each additional point on the modified Charlson comorbidity score.

⁽d) Adjusted for other factors in the model.

SDC 18. Summary of systematic reviews of studies determining the proportion of adult hospital admissions attributable to ADRs.

		Restrictions applied at search stage								Cubanana	Main	Selected other
Review	Databases	Publication Date	Language	Settings	ADR definition	Design	studies identified	patients/ admissions	Heterogeneity	Subgroup analyses?	outcome	outcomes
Einarson, 1993 ¹	Medline, Index Medicus, IPA	1966 to 1989	English only	No restriction	Cluff definition ² and non- compliance. Excluded overdose, intentional poisoning, abuse, intoxication.	No restriction reported.	37	69187 admissions	Not measured, but discussed range of study size and study duration.	Yes, for paediatric studies; and for non- compliance studies.	Median ADRad proportion of 37 studies is 4.9%, IQR 2.9% to 6.7%	Proportion of patients who die subsequent to ADRad (11 studies): 5.0% of ADRad patients; 0.3% of all admissions.
Muehlberger, 1997 ³	Medline, EMBASE, Toxline, SoMed, Geriatrics, Deutsche Bibliographie, Chemical Abstracts	1970 to 1996	English or German	No restriction	Authors' definition had to be largely consistent with WHO definition ⁴ .	No restriction.	25	160354 admissions / consultations/ patients	Not measured, but implied in design of the analysis.	Yes, by setting, and by study design.	Median ADRad proportion of 25 studies is 4.1%, IQR 2.5% to 5.9%	Selective study setting, and comprehensive detection design, resulted in higher ADRad proportions. For studies of medical inpatients, with comprehensive monitoring (n=12 studies, n=20037 admissions) median ADRad proportion is 5.8%, IQR 4.2% to 6.0%
Lazarou, 1998 ⁵	Medline, EMBASE, IPA, SCI, hand search	1966 to 1996	English (or English translation available)	Only US studies	WHO definition ⁴ only; excluded 'possible' ADRs.	Only prospective studies included.	21 (in ADRad analysis)	28017 patients (in ADRad analysis)	Not measured, but discussed.	Yes, for fatal ADRs.	Meta- analytic estimate 4.7% (95% CI 3.1% to 6.2%) admissions are ADRad.	Proportion of fatal ADRs (ADRad and ADR during inpatient stay): 0.32% of 46625 patients studied.
Wiffen, 2001 ⁶	Medline, EMBASE, IPA	1966 to 1999	No restriction	No restriction	No restriction, but excluded administration errors, non- compliance, overdose, abuse or therapeutic failure.	No restriction.	37 (in ADRad analysis)	133741 patients (in ADRad analysis)	Not measured, but implied.	Yes, by study design, geographical setting, clinical setting, and date.	Weighted mean ADRad proportion is 3.1% (CI not reported).	Subgroup analyses combine ADRad and ADRs in inpatients.

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		Restrictions applied at search stage								C1	Main	Selected other
Review	Databases	Publication Date	cation Language Settings ADR definition Design studies patients/ admissions Heterographics	Heterogeneity	Subgroup analyses?	outcome	outcomes					
Beijer, 2002 ⁷	Medline, Cochrane Library, hand search	1966 to 2000	Not reported	No restriction	WHO definition ⁴ . Excluded illicit drug use, abuse, therapeutic failure, overdose.	No restriction reported.	68	123794 admissions	Confirmed heterogeneity: smaller studies show higher proportions.	Yes, by age group, date of publication, geographical region, and by clinical setting.	Weighted mean ADRad proportion is 4.9% (95% CI 4.8% to 5.0%).	For studies of non-elderly (n=51 studies, n=116241admissions): weighted mean ADRad proportion is 4.1% (95% CI 4.0% to 4.2%).
Kongkaew, 2008 ⁸	CINAHL, EMBASE, Medline	To Aug 2007	No restriction	No restriction	WHO definition ⁴ or another ADR definition that mapped to it.	Only prospective studies included.	25	106586 admissions	Confirmed heterogeneity: I ² = 98.5%.	Yes, by age group, and by ADR detection method.	Median ADRad proportion is 5.3%, IQR 2.7% to 9.0%.	For studies of adults (n=10 studies, n=11477 patients): median ADRad proportion is 6.3%, IQR 3.9% to 9.0%.

ADR: adverse drug reaction; ADRad: admissions due to an adverse drug reaction; CI: confidence interval; CINAHL: Cumulative Index to Nursing and Allied Health Literature; EMBASE: Excerpta Medica Database; IPA: International Pharmaceutical Abstracts; IQR: interquartile range; SCI: Science Citation Index; WHO: World Health Organization

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