

Appendix 2 - Data extraction form adapted from the framework of Hayden et al.

Eligibility criteria for the title and abstract screening phase

Inclusion criteria

Study design	Assessment	Comment
Is it: [1] A cohort study (prospective or retrospective) [2] A case-control or nested case-control [3] A cross-sectional study	Yes No Unclear	
Population		
[1] Adults aged ≥ 18 years [2] Patients are high users of health care [2] Patients accrue high health care costs Including: high cost patients, high users, distressed high users/utilisers of care, frequent attenders in primary care, secondary care, frequent attenders at an emergency department NB: Please answer YES if patients with anxiety/depression are a subgroup; please answer YES if mixed age population.	Yes No Unclear	
Comparators		
[1] Comparison group includes non-high use OR non-high cost patients [2] Comparison group includes frequent/high users without anxiety/depression	Yes No Unclear	
Outcome		
Did the study report any of the following outcomes: [1] Prevalence of anxiety/depression in high users/high cost patients [2] Odds Ratio of use of care between depressed/anxious vs non-depressed/anxious participants	Yes No Unclear	
Final decision (please tick)	Include Exclude Unclear	

Exclusion criteria

Reasons for exclusion of study from review (please circle where appropriate)	
Study design	[1] Clinical trial [2] Case study [3] Qualitative study
Population	Age: <18 All specific medical specialties/illnesses including: [1] Paediatric patients [2] Palliative care [3] Obstetrics [4] Transplant [5] Neurodegenerative disease [6] Oral, maxillofacial, dentistry [7] Nephrology [8] Infectious diseases [9] Virology and HIV/AIDS [10] Physiotherapy [11] Cosmetic surgery

	[12] Psychiatry/mental health services [13] Specific diseases e.g. diabetes, cardiovascular
Intervention	[1] Randomised clinical trial [2] Interventions in populations who are not high use/cost [3] Screening/diagnosis/treatment evaluations
Comparator	Studies without non-high cost/non-high users of health care
Outcomes	Relevant outcomes not assessed: [1] No anxiety/depression assessment [2] No assessment of health use OR cost
Other	Duplicate publication Other (explain)

Eligibility criteria for Full Text	
Satisfaction of eligibility criteria above	Yes No Unclear
Cost studies will include patients either in the top 1%, 5% 10% and 20% of most costly patients.	Yes No Unclear
Studies of general health care use will include patients in the top 1%, 5%, 10% or 20% of health care use.	Yes No Unclear
Studies in primary care will either include patients with 10 or more visits per year or those patients in the top 10% of use	Yes No Unclear
Studies of ED will include patients with at least 4 visits per annum.	Yes No Unclear

Organisation

Organisational aspect	Exclude	Include
Reviewer/date:	Checked by:	
Author/Year		
Journal/Source		
Country of origin		
Publication type	Full text/Abstract/Book chapter/progress report/ Other – please specify	
Fate	Decision: pending/Checked reference/Use for discussion/Exclude without listing/Exclude with listing Other – please specify	
Notes		

Data extraction template for full-text articles

General study characteristics	
Location of study Please specify country, type of health care system, health care setting (primary/secondary care/ED/all settings)	
Study aims	Reported/Not reported
Date of recruitment	From _____ to _____ Median (range):# Mean:#
Length of follow-up of outcome of interest + length of follow-up of study	From _____ to _____ Median (range):# Mean (standard deviation):#
Outcome definition	[1] Anxiety or depression or both Median (range):# Mean (standard deviation):# [2] Health care use Median (range):# Mean (standard deviation):# [3] Health care cost Median (range):# Mean (standard deviation):#
Outcome measurement	Did the study report measurements for any of the following outcomes: [1] Prevalence of anxiety/depression <ul style="list-style-type: none"> ➤ Specify measures of central tendency and variation) ➤ Specify instrument and range (e.g. PHQ-9, GAD-7, SCID, etc.) ➤ Is it self-report? ➤ Is it standardised? ➤ Is it validated to context? ➤ Is it a standardised clinical interview ➤ Is it a clinical interview with diagnosis according to recognised diagnostic system [2] Magnitude of cost or use of health care associated with the presence of anxiety/depression. Consider: <ul style="list-style-type: none"> ➤ Frequency and range of scheduled contacts in primary care, secondary care or ED ➤ Cost, range, of contacts in above settings ➤ Frequency and range of inpatient admissions ➤ Cost, range, currency of inpatient admissions
Covariates/Confounders considered (please detail)	[1] Did the study report measurements used to report: <ul style="list-style-type: none"> ➤ Patient characteristics and contexts associated with high service use/costs among patients with anxiety depression? <i>Please consider patient demographic (e.g. age, ethnicity, gender, homelessness) and clinical factors (e.g. anxiety/depression management, physical comorbidities)</i>
Relationship between outcome and relevant covariates/confounders	Is the relationship statistically significant? Yes/No <i>If Yes:</i> OR/mean difference (95% confidence intervals):# <i>If No, offer reason:</i> Low powered or inconclusive study A true negative study

	Other reasons (please specify)
Power calculation	Yes/No/Not reported Calculated sample size:# Sample size achieved: Yes/No
Funding	Unclear Not reported Please state where reported
Conflict of interest statement	Yes/No/Not reported

Observational study characteristics	
Sample size	
Number of excluded patients	
Recruitment method	
Type of observational study	Cohort studies (prospective/retrospective) Case-control studies/nested case-control Cross-sectional studies
Are groups comparable	Yes/No If No, please specify
Any confounders considered?	Yes/No If Yes, specify which If No, please specify
Analyses	
Drop-outs stated	Yes/No If Yes: number in each group

Patient characteristics			
Notes: Any relationship with outcomes? Yes/No/Not reported If Yes, please state statistical parameters and significance level where appropriate	Exposure (i.e. High use/cost)	Control (Low use/cost)	Comments
Number of patients			
Country			
Age mean/median (standard deviation/range)			
Ethnicity (Number, %)			
Sex (Number, %)	Male: Female:	Male: Female:	
Homelessness specified in study? Yes/No			
No of patients recruited			
No of patients allocated			
No of patients evaluated			
No of drop-outs			
Reasons for drop-out			
Definition of anxiety/depression in the groups:			

[1] Via standardised questionnaire (validated or not) semi-structured or clinical interview? <i>Please specify</i> [2] Definition of high/low ranges or diagnosis (yes/no) [3] Is anxiety/depression managed? Yes/No			
Clinical status at recruitment : [1] Comorbidities Yes/No <i>If yes, please state</i> Number:			
Adverse event? Yes/No <i>If Yes, please detail</i>			

Outcome details

The following table can be copied for every relevant outcome assessed (please fill out fields only where applicable)

Outcome assessed	
Definition of each outcome	
Time of assessment of each outcome	
Timing of assessment	
Length of follow up for each outcome	
Method of measurement	
No of patients evaluated for each outcome, as stated above	
Confounding variables were considered (e.g. age, gender, ethnicity, homelessness, physical comorbidities, managed depression) <i>Please list all</i>	
How were the confounding variables controlled?	

Methodological quality summary					
Reviewer/Date:			Checked by:		
Contents (please refer to tables below for guidance)	Yes	Partly	No	Unsure	Comments
Study participation					
Study attrition					
Measurement of outcome					
Analytical approach					
Specify confounding variables measurements (e.g. age, gender, ethnicity, homelessness, physical comorbidities, managed depression)					

Specify method of controlling for confounding variables				
Summary	Low risk of bias	Moderate risk of bias	High risk of bias	
Remarks:				