**Supplementary Material**

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**Supplementary Methods A.** **Complete search strategies**

**Ovid Medline All**

|  |  |
| --- | --- |
| 1 | HADS\*.af. |
| 2 | "Hospital Anxiety and Depression".af. |
| 3 | "Hospital Depression Scale".af. |
| 4 | "Hospital Anxiety Scale".af. |
| 5 | or/1-4 |
| 6 | Mass Screening/ |
| 7 | Psychiatric Status Rating Scales/ |
| 8 | "Predictive Value of Tests"/ |
| 9 | "Reproducibility of Results"/ |
| 10 | exp "Sensitivity and Specificity"/ |
| 11 | Psychometrics/ |
| 12 | Prevalence/ |
| 13 | Reference Values/ |
| 14 | Reference Standards/ |
| 15 | exp Diagnostic Errors/ |
| 16 | validation studies.pt. |
| 17 | comparative study.pt. |
| 18 | screen\*.af. |
| 19 | prevalence.af. |
| 20 | predictive value\*.af. |
| 21 | detect\*.ti. |
| 22 | sensitiv\*.ti. |
| 23 | valid\*.ti. |
| 24 | revalid\*.ti. |
| 25 | predict\*.ti. |
| 26 | accura\*.ti. |
| 27 | psychometric\*.ti. |
| 28 | identif\*.ti. |
| 29 | specificit\*.ab. |
| 30 | cut?off\*.ab. |
| 31 | cut\* score\*.ab. |
| 32 | cut?point\*.ab. |
| 33 | threshold score\*.ab. |
| 34 | reference standard\*.ab. |
| 35 | reference test\*.ab. |
| 36 | index test\*.ab. |
| 37 | gold standard.ab. |
| 38 | Mental disorders/di, pc |
| 39 | Mood disorders/di, pc |
| 40 | depressive disorder/di, pc |
| 41 | depressive disorder, major/di, pc |
| 42 | depression, postpartum/di, pc |
| 43 | depression/di, pc |
| 44 | 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 or 41 or 42 or 43 |
| 45 | 5 and 44 |

**PsycInfo (Ovid)**

|  |  |
| --- | --- |
| 1 | HADS\*.af. |
| 2 | "Hospital Anxiety and Depression".af. |
| 3 | "Hospital Depression Scale".af. |
| 4 | "Hospital Anxiety Scale".af. |
| 5 | or/1-4 |
| 6 | Diagnosis/ |
| 7 | Medical Diagnosis/ |
| 8 | Psychodiagnosis/ |
| 9 | Misdiagnosis/ |
| 10 | Screening/ |
| 11 | Health Screening/ |
| 12 | Screening Tests/ |
| 13 | Prediction/ |
| 14 | Cutting Scores/ |
| 15 | Psychometrics/ |
| 16 | Test Validity/ |
| 17 | screen\*.af. |
| 18 | predictive value\*.af. |
| 19 | detect\*.ti. |
| 20 | sensitiv\*.ti. |
| 21 | valid\*.ti. |
| 22 | revalid\*.ti. |
| 23 | accura\*.ti. |
| 24 | psychometric\*.ti. |
| 25 | specificit\*.ab. |
| 26 | cut?off\*.ab. |
| 27 | cut\* score\*.ab. |
| 28 | cut?point\*.ab. |
| 29 | threshold score\*.ab. |
| 30 | reference standard\*.ab. |
| 31 | reference test\*.ab. |
| 32 | index test\*.ab. |
| 33 | gold standard.ab. |
| 34 | or/6-33 |
| 35 | 5 and 34 |

**Web of Science Databases**=SCI-EXPANDED, SSCI, A&HCI

#1. TS=(HADS\* OR "Hospital Anxiety and Depression" OR “Hospital anxiety scale” OR “Hospital depression scale”)

#2. TS=(screen\* OR prevalence OR “predictive value\*” OR detect\* OR sensitiv\* OR valid\* OR revalid\* OR predict\* OR accura\* OR psychometric\* OR identif\* OR specificit\* OR cutoff\* OR “cut off\*” OR “cut\* score\*” OR cutpoint\* OR “cut point\*” OR “threshold score\*” OR “reference standard\*” OR “reference test\*” OR “index test\*” OR “gold standard” OR “reliab\*”)

#2 AND #1

**Supplementary Methods B. QUADAS-2 Coding manual for primary studies included in the present study**

**Domain 1: Participant Selection**

1. **Signalling question 1 – Was a consecutive or random sample of patients enrolled?:** Code as “yes” if a consecutive or random sample of participants were recruited for the study and the percentage of eligible participants who participate is ≥75%. If the study indicates that consecutive or random participants were recruited, but does not give an indication of the total number of eligible participants and how many agreed to participate in the study, this should be rated “unclear”. If the percentage of eligible participants included in the study was between ≥50% and <75%, then this should also be marked as “unclear”. If a very low rate of eligible participants (<50%) were included in the study, this should be coded “no.” In “Notes”, please provide the relevant numbers and percentages used to make a determination. If a convenience sample of participants was recruited for the study or if the study was a case-control design, code as “no”.
2. **Signalling question 2 – Was a case-control design avoided?:** Code as “yes” if the study did not employ a case-control design. Code as “no” if the study used a case-control design.
3. **Signalling question 3 – Did the study avoid inappropriate exclusions?:** Inappropriate exclusions refer to situations where an important part of the screening population was excluded from the study based on characteristics that could be related to screening results. Code as “yes” if the study does not inappropriately exclude participants. Code as “no” if the study inappropriately excludes participants.
4. **Overall risk of bias**: Rate as “low”, “High”, or “unclear” as described in QUADAS-2. Please indicate factors in decision in “Notes”. NOTE: if signalling question 1 was coded “Unclear” the overall risk of bias is either a) Unclear, in cases where the denominator is not specified, or the percentage cannot be calculated, or method of participant selection is unclear OR b) Low, in cases where the percentage can be calculated, and is between 50-75%. If signalling question 1 is a “no” and signalling questions 2 and 3 are both “yes” then the risk of bias is coded “Unclear”.
5. **Applicability concerns:** Code as “low” if study excluded participants who were already diagnosed or treated for depression or if the study included these patients, but they can be excluded using the individual patient data. Also code as “low” if the study did not exclude participants already diagnosed with depression and the overall percentage of these participants is low (e.g., ≤ 2.0% of total participants), even if there is not a variable to exclude them. Code “unclear” if the study did not exclude participants already diagnosed or treated for depression and it is not known how many diagnosed and treated patients were included or if the percentage is moderate (e.g., >2.0% but ≤ 5.0%). Code “High” if already diagnosed and treated patients are included and make up > 5.0% of the total sample and there is not a variable to exclude them. Please see aggregated study information sheet to code this.

**Domain 2: Index Test**

1. **Signalling question 1 - Were the index test results interpreted without the knowledge of the results of the reference standard?:** Code this item as “N/A” for all studies, as the index test is scored and does not require interpretation.
2. **Signalling question 2 - If a threshold was used, was it pre-specified?:** Code this item as “N/A” for all studies, as individual participant data allows for testing at all thresholds/cut-offs.
3. **Overall risk of bias:** Rate this item as “low” for all studies since the interpretation of the index test is fully automated in scoring self-report depressive symptom questionnaires and the individual participant data allows for testing at all thresholds/cut-offs.
4. **Applicability concerns:** Code “low” if the standard language version of the index test was used or if a translated version was used with an appropriate translation and back-translation process, or a translated version is located online. Code “unclear” if a translated version was used and it is not clear what steps were taken to ensure the quality of the translation or if only forward translation was used.

**Domain 3: Reference Standard**

1. **Signalling question 1 – Is the reference standard likely to correctly classify the condition?:** This question will be coded as “yes” for all studies because the use of a validated semi- or fully-structured psychiatric interview to assess participants for a DSM or ICD diagnosis of MDD/MDE is an eligibility requirement.
2. **Signalling question 2 – Were the reference standard results interpreted without knowledge of the results of the index test?:** Code as “yes” if the person administering the diagnostic interview was blinded to the participant’s score on the index test, or if the diagnostic interview was administered before the index test. Code as “no” if the person administering the diagnostic interview was not blinded or was aware of the participant’s score on the index test. Code as “unclear” if the study does not indicate whether blinding occurred and we cannot ascertain whether blinding occurred.
3. **Study-specific Signalling question 3 – Did a qualified person administer the reference standard?:** ecific clinical training is required. For semi-structured interviews, this will be coded “yes” if a trained mental health diagnostician administered the clinical interview (e.g., psychiatrist, psychologist, clinician, social worker, general practitioner, psychiatric nurse) or if non-clinicians who have comprehensive diagnostic experience and documented adequate training administered the clinical interview (e.g. trained doctoral student, research assistant, nurse, nurse practitioner, advanced practice nurse). Code “no” if individuals without the required training administered the reference standard (e.g,. student, research assistant, nurse without documented extensive training necessary). Code “unclear” if the characteristics of personnel who administered the diagnostic interview cannot be ascertained or if a vague description of training is provided (e.g., trained research assistants with no additional information). If the name of the interviewer is provided in the article, but no credentials are listed, then code based on credentials retrieved online for the interviewer.

**Fully structured**: CIDI, DIS, CIS-R

**Semi-structured**: SCID, SCAN, DISH, CIS

**MINI**

1. **Overall risk of bias:** The coding of this item should consider blinding of the person administering the diagnostic interview to the participant’s score on the index test and the qualifications of individuals administering the reference standard interview.
2. **Applicability concerns:** This item will be coded as “low” for most standard language studies, since the use of a validated semi- or fully structured psychiatric interview to assess participants for a DSM or ICD diagnosis of MDD/MDE is an eligibility requirement. For translated versions of a validated reference standard, code “low” if a translated version was used with an appropriate translation and back-translation process, or a translated version is located online. Code “unclear” if a translated version was used and it is not clear what steps were taken to ensure the quality of the translation or if only forward translation was used.

**Domain 4: Flow and Timing**

1. **Signalling question 1 – Was there an appropriate interval between index test and reference standard?:** Only patient data with two weeks or less between the index text and reference standard are included. Thus, code “yes” if index test and reference standard were administered within a week of each other. Code “unclear” if the period was greater than one week (but less than two weeks) or if the timing cannot be ascertained beyond knowing that it was < 2 weeks. Note that this item may be coded differently for different patients from the same study. Please see aggregated study information sheet to code this.
2. **Signalling question 2 – Did all patients receive a reference standard?:** This will typically be coded “yes”. If a portion of positive and negative screens receive the reference standard, and the patients selected were chosen randomly, code “yes”. If non-random selection based on clinical factors or the index test determined whether or not patients received a reference standard, then code “unclear” or “no”. An example of all patients not receiving a reference standard would occur, for instance, if patients who endorsed suicidality on the index test were referred for evaluation and did not receive the reference standard interview.
3. **Signalling question 3 – Did all patients receive the same reference standard?:** This question will typically be coded as “yes” for all studies, since the reference standard is almost always consistent within each study.
4. **Signalling question 4 – Were all patients included in the analysis?:** When coding for this question, compare the number of participants who received the index test to the number of participants who received the reference standard. Code as “yes” if at least 90% of participants who received the index test also received the reference standard, or vice versa, and were included in analyses. Code as “unclear” if this difference is ≥ 80%, but < 90% or if it cannot be determined. Code as “no” if it is < 80%. If the study used randomly selected patients for either the index test or the reference standard, do not count the participants who did not receive the reference standard for that reason as missing. In “Notes”, please provide the relevant numbers and percentages used to make a determination.
5. **Overall risk of bias:** Rate as “low”, “High”, or “unclear” risk of bias. Given that questions 2 and 3 will typically be coded as "yes", use the following rules to code the overall risk of bias:

**SQ1 = UNCLEAR and SQ4 = YES:**code as UNCLEAR risk of bias **SQ1 = UNCLEAR and SQ4 = UNCLEAR:**code as UNCLEAR risk of bias **SQ1 = UNCLEAR and SQ4 = NO:**code as HIGH risk of bias if the % in SQ4 is <50% and code as UNCLEAR risk of bias if the % in SQ4 is >=50% **SQ1 = YES and SQ4 = UNCLEAR:**code as UNCLEAR risk of bias **SQ1 = YES and SQ4 = YES:** code as LOW risk of bias  
**SQ1 = YES and SQ4 = NO:** code as HIGH risk of bias if the % in SQ4 is <50% and code as UNCLEAR risk of bias if the % in SQ4 is >=50%

**Note**: If “IPD” was selected for signalling question 1, and the overall risk of bias rating depends on the individual patient rating in signalling question 1, then rate as “IPD” and indicate which participants should receive which bias rating (for example, participants administered the reference standard within 1 week are rated as “low”, whereas those administered the reference standard within 1-2 weeks are rated as “unclear”).

Please indicate factors in decision in “Notes”.



**Supplementary Figure A.** Flow diagram of study selection process



**Supplementary Figure B.** ROC curves for HADS-D and HADS-T among studies that used a semi-structured reference standard.



**Supplementary Figure C.** Forest plot of the difference in sensitivity and specificity estimates at the optimal cutoff (HADS-D: ≥7; HADS-T: ≥15) among studies that used a semi-structured reference standard a (N Studies = 58b; N Participants = 10,311; N major depression = 1,034)c;

a τ2 for the difference of sensitivity and specificity were both <0.001.

b The reference numbers refer to Supplementary Material References.

**c** The studies were sorted by the sum of difference in sensitivity and difference in specificity in descending order.

**Supplementary Table A.** **Reasons for exclusion for all articles excluded at full-text level (N = 330)**

|  |  |
| --- | --- |
| **Reference** | **Reason for Exclusion** |
| Abberger B, Haschke A, Tully PJ, Forkmann T, Berger J, Wirtz M, Bengel J, Baumeister H. Development and validation of parallel short forms PaSA-cardio for the assessment of general anxiety in cardiovascular rehabilitation patients using Rasch analysis. Rasch analysis Clinical rehabilitation. 2017;31:104. | No major depression |
| Abd Rashid R, Irnee WA, Ahmad Zahari M, Amer Nordin AS, Sulaiman AH, Robson N, Peters H, Said MA,Harun N, Rahim A, Habil H. Validity and reliability study of Hospital Anxiety Depression Scale (HADS) in heroin addicts population in Malaysia. International Journal of Neuropsychopharmacology. 2010;13:48. | Could not determine eligibility |
| Aben I, Lodder J, Honig A, Lousberg R, Boreas A, Verhey F. Focal or generalized vascular brain damage and vulnerability to depression after stroke: A 1-year prospective follow-up study. International Psychogeriatrics. 2006;18:19. | > 2 weeks between HADS and diagnostic interview |
| Aben I, Verhey F, Strik JJ, Lousberg R, Lodder J, Honig A. A comparative study into the one year cumulative incidence of depression after stroke and myocardial infarction. Journal of Neurology, Neurosurgery & Psychiatry. 2003;74:581. | Sample selected for known distress, mental health diagnosis, or psychiatric setting |
| Abiodun OA. A validity study of the Hospital Anxiety and Depression Scale in general hospital units and a community sample in Nigeria. British Journal of Psychiatry. 1994;165:669. | No validated interview to assess major depression |
| Affleck AG, Stewart AM. The Hospital Anxiety and Depression Scale is a screening measure of general distress. British Journal of Dermatology. 2018;179:544. | No original data |
| Akgul Ceyhun H, Kirpinar I. Psychiatric diagnoses in patients with renal transplantation or dialysis made due to end stage renal disease. Anadolu Psikiyatri Dergisi-Anatolian Journal of Psychiatry. 2019;20:426. | Could not determine eligibility |
| Akizuki N, Akechi T, Nakanishi T, Yoshikawa E, Okamura M, Nakano T, Murakami Y, Uchitomi Y. Development of a brief screening interview for adjustment disorders and major depression in patients with cancer. Cancer. 2003;97:2605. | No validated interview to assess major depression |
| Akizuki N, Yamawaki S, Akechi T, Nakano T, Uchitomi Y. Development of an Impact Thermometer for use in combination with the Distress Thermometer as a brief screening tool for adjustment disorders and/or major depression in cancer patients. Journal of Pain & Symptom Management. 2005;29:91. | No validated interview to assess major depression |
| Alamri Y. The Arabic Hospital Anxiety and Depression Scale. Chronic Respiratory Disease. 2017;14:100. | No major depression |
| Alexander S, Palmer C, Stone PC. Evaluation of screening instruments for depression and anxiety in breast cancer survivors. Breast Cancer Research & Treatment. 2010;122:573. | Could not determine eligibility |
| Aloba O, Ojeleye O, Aloba T. The psychometric characteristics of the 4-item Suicidal Behaviors Questionnaire-Revised (SBQ-R) as a screening tool in a non-clinical sample of Nigerian university students. Asian Journal of Psychiatry. 2017;26:46. | No major depression |
| Al-Salihy Z, Rahim T,Mitchell A, Mahmud M, Muhyaldin A. Which is the Optimal Depression Rating Scale for Psychiatrists? a Diagnostic Validity Comparison of Hospital Anxiety and Depression Scale(hads) and Psychiatric Judgement Against the Mini. European Psychiatry. 2011;26:#pages#. | Sample selected for known distress, mental health diagnosis, or psychiatric setting |
| Al-Salihy Z, Rahim TA, Mahmud MQ, Muhyaldin AS, Mitchell AJ. The diagnostic validity of depression scales and clinical judgement in the Kurdistan region of Iraq. International Psychiatry. 2012;9:96. | Sample selected for known distress, mental health diagnosis, or psychiatric setting |
| Ambler N, Rumsey N, Harcourt D, Khan F, Cawthorn F, Barker.J Specialist nurse counsellor interventions at the time of diagnosis of breast cancer: comparing 'advocacy' with a conventional approach. Journal of advanced nursing. 1999;29:445. | No major depression |
| Ambrocio GP, Santiaguel J. Anxiety and Depression among Diagnosed Tb Patients Seen at the up-Pgh Using the Validated Filipino Version of the Hospital Anxiety Depression Score (Hads-P). Respirology. 2016;21:15. | No major depression |
| Anastasiadou D, Parks M, Brugnera A, Sepulveda AR, Graell M. Psychiatric comorbidity and maternal distress among adolescent eating disorder patients: a comparison with substance use disorder patients. Eating Behaviors. 2017;24:74. | No adults |
| Andersson G, Carlbring P, Kaldo V, Ström L. Screening of psychiatric disorders via the Internet. A pilot study with tinnitus patients. Nordic Journal of Psychiatry. 2004;58:287. | No validated interview to assess major depression |
| Andryschenko AV, Drobizhev MY, Dobrovolsky AV. A comporative validation of the scale CES-D, BDI, HADS(d) in diagnosis of depressive disorders in general medical practice. Zhurnal Nevropatologii i Psikhiatrii Imeni S S Korsakova. 2003;103:11. | No validated interview to assess major depression |
| Arapaslan B, Soykan A, Soykan C, Kumbasar H. Cross-sectional assessment of psychiatric disorders in renal transplantation patients in Turkey: a preliminary study. Transplantation proceedings. 2004;36:1419. | > 2 weeks between HADS and diagnostic interview |
| Årestedt K, Israelsson J, Herlitz J, Bremer A. Psychometric properties of the Hospital Anxiety and Depression scale among patients surviving sudden cardiac arrest. Resuscitation. 2015;96:141. | No major depression |
| Arrieta O, Angulo LP, Nunez-Valencia C, Dorantes-Gallareta Y, Macedo EO, Martinez-Lopez D, Alvarado S, Corona-Cruz JF, Onate-Ocana LF. Association of depression and anxiety on quality of life, treatment adherence, and prognosis in patients with advanced non-small cell lung cancer. Annals of Surgical Oncology. 2013;20:1941. | Could not determine eligibility |
| Aslan S, Ersoy R, Kuruoglu AC, Karakoc A, Cakir N. Psychiatric symptoms and diagnoses in thyroid disorders: A cross-sectional study. International Journal of Psychiatry in Clinical Practice. 2005;9:187. | Could not determine eligibility |
| Atesci FC, Oguzhanoglu NK, Baltalarli B, Karadag F, Ozdel O, Karagoz N. Psychiatric disorders in cancer patients and associated factors. Turk Psikiyatri Dergisi. 2003;14:145. | Could not determine eligibility |
| Axford J, Butt A, Heron C, Hammond J, Morgan J, Alavi A, Bolton J, Bland M. Prevalence of anxiety and depression in osteoarthritis: use of the Hospital Anxiety and Depression Scale as a screening tool. Clinical rheumatology. 2010;29:1277. | No validated interview to assess major depression |
| Azad N, Gondal M, Abbas N. Frequency of depression and anxiety in patients attending a rheumatology clinic. Jcpsp, Journal of the College of Physicians & Surgeons - Pakistan. 2008;18:569. | No validated interview to assess major depression |
| Badru OA, Ogunlesi AO, Ogunwale A, Abdulmalik JO, Yusuf OB. Prevalence of generalized anxiety disorder and major depression among correctional officers in a Nigerian prison. Journal of Forensic Psychiatry & Psychology. 2018;29:509. | No HADS |
| Barczak P, Kane N, Andrews S, Congdon AM, Clay JC, Betts T. Patterns of psychiatric morbidity in a genito-urinary clinic. A validation of the Hospital Anxiety Depression scale (HAD). British Journal of Psychiatry. 1988;152:698. | Could not determine eligibility |
| Barker-Collo S, Jones A, Jones K, Theadom A, Dowell A, Starkey N, Feigin VL. Prevalence, natural course and predictors of depression 1 year following traumatic brain injury from a population-based study in New Zealand. Brain Injury. 2015;29:859. | No validated interview to assess major depression |
| Barreto FJN, Garcia FD, Prado PHT, Rocha PMB, Las Casas NS, Vallt FB, Correa H, Neves MCL. Childhood trauma and factors associated with depression among inpatients with cardiovascular disease. World Journal of Psychiatry. 2017;7:106. | No major depression |
| Batmaz S, Kocbiyik S, Yuncu OA. Cognitive reactivity in depressed outpatients: How different is severe depression?. Journal of Rational-Emotive and Cognitive-Behavior Therapy. 2017;35:173. | Sample selected for known distress, mental health diagnosis, or psychiatric setting |
| Batmaz S, Yuncu OA, Kocbiyik S. Assessing Negative Automatic Thoughts: Psychometric Properties of the Turkish Version of the Cognition Checklist. Iranian Journal of Psychiatry & Behavioral Sciences. 2015;9:e3444. | Sample selected for known distress, mental health diagnosis, or psychiatric setting |
| Been SK, Schade A, Bassant N, Kastelijns M, Pogany K, Verbon A. Anxiety, depression and treatment adherence among HIV-infected migrants. AIDS Care. 2019;31:979. | Sample selected for known distress, mental health diagnosis, or psychiatric setting |
| Bell G, Reinstein DZ, Rajiyah G, Rosser R. Psychiatric screening of admissions to an accident and emergency ward. The British Journal of Psychiatry. 1991;158:554. | No validated interview to assess major depression |
| Bener A, Ghuloum S, Abou-Saleh MT. Prevalence, symptom patterns and comorbidity of anxiety and depressive disorders in primary care in Qatar. Social Psychiatry & Psychiatric Epidemiology. 2012;47:439. | No validated interview to assess major depression |
| Benvenuti P, Ferrara M, Niccolai C, Valoriani V, Cox JL. The Edinburgh postnatal depression scale: validation for an Italian sample. Journal of affective disorders. 1999; 53:137. | No HADS |
| Berard RM, Boermeester F, Viljoen G. Depressive disorders in an out-patient oncology setting: prevalence, assessment, and management. Psycho-oncology. 1998;7:112. | No validated interview to assess major depression |
| Berard RM, Boermeester F. Psychiatric symptomatology in adolescents with cancer. Pediatric Hematology & Oncology. 1998;15:211. | No adults |
| Berg SK, Herning M, Svendsen JH, Christensen AV, Thygesen LC. The Screen-ICD trial. Screening for anxiety and cognitive therapy intervention for patients with implanted cardioverter defibrillator (ICD): a randomised controlled trial protocol. BMJ Open. 2016;6:e013186. | No original data |
| Bleichhardt G, Timmer B, Rief W. Predictors for short- and long-term outcome in patients with somatoform disorders after cognitive-behavioral therapy. Zeitschrift fur Klinische Psychologie, Psychiatrie und Psychotherapie. 2005;53:40. | No validated interview to assess major depression |
| Boath E, Cox J, Lewis M, Jones P, Pryce A. When the cradle falls: the treatment of postnatal depression in a psychiatric day hospital compared with routine primary care. Journal of affective disorders. 1999;53:143. | Sample selected for known distress, mental health diagnosis, or psychiatric setting |
| Bodlund O, Andersson SO, Mallon L. Effects of consulting psychiatrist in primary care. 1-year follow-up of diagnosing and treating anxiety and depression. Scandinavian journal of primary health care. 1999;17:153. | No validated interview to assess major depression |
| Bodlund O. Anxiety and depression as a hidden problem in primary health care. Only one case in four identified. Lakartidningen. 1997;94:4612. | No major depression |
| Bokma WA, Batelaan NM, Beek AM, Boenink AD, Smit JH, van Balkom AJ. Feasibility and outcome of the implementation of a screening program for panic disorder in noncardiac chest pain patients in cardiac emergency department routine care. General hospital psychiatry. 2015;37:485. | Sample selected for known distress, mental health diagnosis, or psychiatric setting |
| Bosch M, McKenzie JE, Ponsford JL, Turner S, Chau M, Tavender EJ, Knott JC, Gruen RL, Francis JJ, Brennan SE, Pearce A, O'Connor D, Mortimer D, Grimshaw JM, Rosenfeld JV, Meares S, Smyth T, Michie S, Green SE. Evaluation of a targeted, theory-informed implementation intervention designed to increase uptake of emergency management recommendations regarding adult patients with mild traumatic brain injury: results of the NET cluster randomised trial. Implementation Science. 2019;14:4. | No major depression |
| Botega NJ, Bio MR, Zomignani MA, Garcia Jr C, Pereira WA. Mood disorders among inpatients in ambulatory and validation of the anxiety and depression scale HAD. Revista de saude publica. 1995;29:355. | No major depression |
| Botega NJ, de Azevedo RC, Mauro ML, Mitsuushi GN, Fanger PC, Lima DD, Gaspar KC, da Silva VF. Factors associated with suicide ideation among medically and surgically hospitalized patients. General hospital psychiatry. 2010;32:396. | No major depression |
| Botega NJ, Ponde MP, Medeiros P, Lima MG, Guerreiro CA. Validation of the Hospital Anxiety and Depression Scale in ambulatory epileptic patients. Jornal brasileiro de psiquiatria. 1998;47:285. | No validated interview to assess major depression |
| Brier MJ, Chambless DL, Lee L, Mao JJ. Development and validation of the Penn Arthralgia Aging Scale among breast cancer survivors.Cancer. 2015; 121:2808. | No major depression |
| Brown RG, Landau S, Hindle JV, Playfer J, Samuel M, Wilson KC, Hurt CS, Anderson RJ, Carnell J, Dickinson L, Gibson G. Depression and anxiety related subtypes in Parkinson's disease. Journal of Neurology, Neurosurgery & Psychiatry. 2011; 82:803. | No major depression |
| Buszewicz M, Cape J, Serfaty M, Shafran R, Kabir T, Tyrer P, Clarke CS, Nazareth I. Pilot of a randomised controlled trial of the selective serotonin reuptake inhibitor sertraline versus cognitive behavioural therapy for anxiety symptoms in people with generalised anxiety disorder who have failed to respond to low-intensity psychological treatments as defined by the National Institute for Health and Care Excellence guidelines. Health technology assessment. 2017;21:1. | Sample selected for known distress, mental health diagnosis, or psychiatric setting |
| Cabrera V, Martin-Aragon M, del Carmen Terol M, Nunez R, de los Angeles Pastor M. Hospital Anxiety and depression Scale (HADS) in fibromyalgia: Sensitivity and specificity analysis. Terapia Psicologica. 2015;33:181. | No major depression |
| Calleo J, Williams JR, Amspoker AB, Swearingen L, Hirsch ES, Anderson K, Goldstein SR, Grill S, Lehmann S, Little JT, Margolis RL, Palanci J, Pontone GM, Weiss H, Rabins P, Marsh L. Application of depression rating scales in patients with Parkinson's disease with and without co-occurring anxiety. Journal of Parkinson's Disease. 2013;3:603. | No HADS |
| Cardona-Castrillon GP, Isaza R, Zapata-Soto AP, Franco JG, Gonzalez-Berrio C, Tamayo-Diaz CP. The comorbidity of major depressive disorder, dysthymic disorder and anxiety disorders with migraine. Revista de neurologia. 2007;45:272. | No validated interview to assess major depression |
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| Suárez‐Mendoza AA, Cardiel MH, Caballero‐Uribe CV, Ortega‐Soto HA, Márquez‐Marin M. Psychiatric and social outcome following liver transplantation for alcoholic liver disease: a controlled study. Journal of psychosomatic research. 1999;46:359. | Could not determine eligibility |
| Swedish Council on Health Technology Assessment. Case Finding, Diagnosis and Follow-Up of Patients with Affective Disorders. Stockholm: Swedish Council on Health Technology Assessment (SBU); 2012. SBU report no 212. | No original data |
| Tang WK, Lau CG, Mok V, Ungvari GS, Wong KS. The impact of pain on health-related quality of life 3 months after stroke. Topics in Stroke Rehabilitation. 2015;22:194. | Could not determine eligibility |
| Tang WK, Morgan CJ, Lau GC, Liang HJ, Tang A, Ungvari GS. Psychiatric Morbidity in Ketamine Users Attending Counselling and Youth Outreach Services. Substance Abuse. 2015;36:67. | Sample selected for known distress, mental health diagnosis, or psychiatric setting |
| Tang YF, Shi SX, Lu W, Chen Y, Wang QQ, Zhu YY, Cheng LN. Prenatal psychological prevention trial on postpartum anxiety and depression. Chinese Mental Health Journal. 2009;23:83. | Sample selected for known distress, mental health diagnosis, or psychiatric setting |
| Tao WW, Cai XT, Shen J, Shi XG, Wang Y. Hypoechogenicity of brainstem raphe correlates with depression in migraine patients. Journal of Headache and Pain. 2019;20:6. | Could not determine eligibility |
| Terluin B, Brouwers EP, van Marwijk HW, Verhaak P, van der Horst HE. Detecting depressive and anxiety disorders in distressed patients in primary care; comparative diagnostic accuracy of the Four-Dimensional Symptom Questionnaire (4DSQ) and the Hospital Anxiety and Depression Scale (HADS). BMC Family Practice. 2009;10:58. | Sample selected for known distress, mental health diagnosis, or psychiatric setting |
| TH Chen, SP Chang, CF Tsai, KD Juang. Prevalence of depressive and anxiety disorders in an assisted reproductive technique clinic. Human Reproduction. 2004;19:2313. | Could not determine eligibility |
| Thalén-Lindström AM, Glimelius BG, Johansson BB. Identification of Distress in Oncology Patients A Comparison of the Hospital Anxiety and Depression Scale and a Thorough Clinical Assessment. Cancer nursing. 2016;39:E31. | No validated interview to assess major depression |
| Thompson AGB, Sheldon R, Poole N, Varela R, White S, Jones P, Mulley C, Berg A, Blain CRV, Agrawal N. A new way of rapidly screening for depression in multiple sclerosis using Emotional Thermometers Acta neuropsychiatrica. 2019;31:151. | No validated interview to assess major depression |
| Thompson WM, Harris B,Lazarus J, Richards C. A comparison of the performance of rating scales used in the diagnosis of postnatal depression. Acta Psychiatrica Scandinavica. 1998;98:224. | No validated interview to assess major depression |
| Torta R, Siri I, Caldera P. Sertraline effectiveness and safety in depressed oncological patients. Supportive Care in Cancer. 2008;16:83. | Sample selected for known distress, mental health diagnosis, or psychiatric setting |
| Tostes MA, Chalub M,Botega NJ. The quality of life of HIV-infected women is associated with psychiatric morbidity. AIDS care. 2004;16:177. | No major depression |
| Traeger L, Braun IM, Greer JA, Temel JS, Cashavelly B, Pirl WF. Parsing depression from fatigue in patients with cancer using the fatigue symptom inventory. Journal of Pain & Symptom Management. 2011;42:52. | No validated interview to assess major depression |
| Tribbick D, Salzberg M, Ftanou M, Connell WR, Macrae F, Kamm MA, Bates GW, Cunningham G, Austin DW, Knowles SR. Prevalence of mental health disorders in inflammatory bowel disease: an Australian outpatient cohort. Clinical & Experimental Gastroenterology. 2015;8:197. | No validated interview to assess major depression |
| Trinca F, Infante P, Dinis R, Inácio M, Bravo E, Caravana J, et al. Depression and quality of life in patients with breast cancer undergoing chemotherapy and monoclonal antibodies. Ecancer. 2019;13:937. | No validated interview to assess major depression |
| Turrina C, Fiorazzo A, Turano A, Cacciani P, Regini C, Castelli F, Sacchetti E. Depressive disorders and personality variables in HIV positive and negative intravenous drug-users. Journal of affective disorders. 2001;65:45. | Sample selected for known distress, mental health diagnosis, or psychiatric setting |
| Upadhyaya AK, Stanley I. Hospital anxiety depression scale. British Journal of General Practice. 1993;43:349. | Could not determine eligibility |
| Upadhyaya AK, Stanley I. Detection of depression in primary care: comparison of two self-administered scales. International journal of geriatric psychiatry. 1997;12:35. | Could not determine eligibility |
| van der Aa BP, Krijnen-de Bruin E, van Rens GH, Twisk JW, van Nispen RM. Watchful waiting for subthreshold depression and anxiety in visually impaired older adults. Quality of Life Research. 2015;24:2885. | No HADS |
| van der Zwaan GL, van Dijk SE, Adriaanse MC, van Marwijk HW, van Tulder MW, Pols AD, Bosmans JE. Diagnostic accuracy of the Patient Health Questionnaire-9 for assessment of depression in type II diabetes mellitus and/or coronary heart disease in primary care. Journal of affective disorders. 2016. ;190:68 | No HADS |
| van Tol‐Geerdink JJ, Leer JW, Wijburg CJ, van Oort IM, Vergunst H, van Lin EJ, Witjes JA, Stalmeier PF. Does a decision aid for prostate cancer affect different aspects of decisional regret, assessed with new regret scales? A randomized, controlled trial. Health Expectations. 2016;19:459. | No major depression |
| Vasquez V, Novarro N, Valdes RA, Britton GB. Factors associated to depression in renal transplant recipients in Panama. Indian Journal of Psychiatry. 2013;55:273. | No major depression |
| Vedana L, Baiardi P, Sommaruga M, Galli M, Neri M, Pedretti RF, Tramarin R, Bertolotti G. Clinical validation of an anxiety and depression screening test for intensive in-hospital rehabilitation. Monaldi Archives for Chest Disease. 2002;58:101. | No validated interview to assess major depression |
| Velosa T, Caldeira S, Capelas ML. Depression and spiritual distress in adult palliative patients: a cross-sectional study. Religions. 2017;8:156. | No validated interview to assess major depression |
| Visser E, Gosens T, Den Oudsten B, De Vries J. Physical Trauma Patients with Symptoms of an Acute and Posttraumatic Stress Disorder: Protocol for an Observational Prospective Cohort Study. JMIR Research Protocols. 2018;7:e88. | No original data |
| Walker J, Hansen CH, Martin P, Symeonides S, Ramessur R, Murray G, Sharpe M. Prevalence, associations, and adequacy of treatment of major depression in patients with cancer: a cross-sectional analysis of routinely collected clinical data. Lancet Psychiatry. 2014;1:343. | Sample selected for known distress, mental health diagnosis, or psychiatric setting |
| Wang GL, Hsu SH, Feng AC, Chiu CY, Shen JF, Lin YJ, Cheng CC. The HADS and the DT for screening psychosocial distress of cancer patients in Taiwan. Psycho-oncology. 2011;20:639. | No validated interview to assess major depression |
| Wang Y, Bu T, Yan P, Yao H. Comparison of Incidence and Risk of Depression in Recipients of Renal Transplantation and Patients Undergoing Hemodialysis in China. Transplantation Proceedings. 2018;50:3449. | Could not determine eligibility |
| Watanabe N, Horikoshi M, Shinmei I, Oe Y, Narisawa T, Kumachi M, Matsuoka Y, Hamazaki K, Furukawa TA. Brief mindfulness-based stress management program for a better mental state in working populations - Happy Nurse Project: A randomized controlled trial. Journal of affective disorders. 2019;251:186. | No validated interview to assess major depression |
| Watanabe N, Matsuoka Y, Kumachi M, Hamazaki K, Horikoshi M, Furukawa TA. Omega-3 fatty acids for a better mental state in working populations-Happy Nurse Project: A 52-week randomized controlled trial. Journal of psychiatric research. 2018;102:72. | No validated interview to assess major depression |
| Watrowski R, Rohde A. Psychological well-being of gynecologic and obstetric patients: a validation of the 12-item Well-Being Questionnaire (W-BQ12). Wiener klinische Wochenschrift. 2014;126:524. | No major depression |
| Watson TM, Ford E, Worthington E, Lincoln NB. Validation of mood measures for people with multiple sclerosis. International Journal of Ms Care. 2014;16:105. | Could not determine eligibility |
| Weddell RA, Wood RL. Exploration of correlates of self-reported personality change after moderate-severe traumatic brain injury. Brain Injury. 2016;30:1362. | No HADS |
| Wetterborg D, Långström N, Andersson G, Enebrink P. Borderline personality disorder: Prevalence and psychiatric comorbidity among male offenders on probation in Sweden. Comprehensive psychiatry. 2015;62:63. | Sample selected for known distress, mental health diagnosis, or psychiatric setting |
| White RE, Pickering A,Spathis GS. Mood disorder and chronic hypercalcemia. Journal of psychosomatic research. 1996;41:343. | No validated interview to assess major depression |
| Wichowicz HM, Wieczorek D. Screening post-stroke depression using the Hospital Anxiety and Depression Scale. Psychiatria polska. 2011;45:505. | No validated interview to assess major depression |
| Wiegard K, Albert US, Zemlin C, Lubbe D, Kleiber C, Kolb-Niemann B, Schade-Brittinger C, Wagner U, Herrmann-Lingen C. Psychological distress of breast cancer patients: screening and patients' request for psycho-oncological care as indicators of health-related quality of life. Psychotherapie, Psychosomatik, medizinische Psychologie. 2012;62:129. | No validated interview to assess major depression |
| Wilkinson PR, Wolfe CD, Warburton FG, Rudd AG, Howard RS, Ross-Russell RW, Beech R. Longer term quality of life and outcome in stroke patients: is the Barthel index alone an adequate measure of outcome?. Quality in Health Care. 1997;6:125. | No major depression |
| Wilson CS, Nassar SL, Ottomanelli L, Barnett SD, Njoh E. Gender differences in depression among veterans with spinal cord injury. Rehabilitation psychology. 2018;63:221. | No HADS |
| Wingenfeld K, Riedesel K, Petrovic Z, Philippsen C, Meyer B, Rose M, Grabe HJ, Barnow S, Löwe B, Spitzer C. Impact of childhood trauma, alexithymia, dissociation, and emotion suppression on emotional Stroop task. Journal of psychosomatic research. 2011;70:53. | Sample selected for known distress, mental health diagnosis, or psychiatric setting |
| Yahia S, El-Hadidy MA, El-Gilany AH, Anwar R, Darwish A, Mansour AK. Predictors of anxiety and depression in Egyptian thalassemic patients: a single center study. International journal of hematology. 2013;97:604. | No adults |
| Yahya F, Othman Z. Validation of the Malay version of Hospital Anxiety and Depression Scale (HADS) in Hospital Universiti Sains Malaysia. Int Med J. 2015;22:80. | Could not determine eligibility |
| Yakut E, Uguz F, Aydogan S, Bayman MG, Gezginc K. The course and clinical correlates of obsessive-compulsive disorder during the postpartum period: A naturalistic observational study. Journal of affective disorders. 2019;254:69. | No major depression |
| Yanartas O, Biçakci E, Kani HT, Banzragch M, Senkal Z, Kuscu KM, Atug O, Imeryuz N, Akin H. Contribution of the 'Hospital Anxiety and Depression Scale' for the Prediction of Psychiatric Disorder Diagnosis in IBD Outpatient Clinics and the Results of the Treatment. Gastroenterology. 2015;148:S840. | Sample selected for known distress, mental health diagnosis, or psychiatric setting |
| Yanartas O, Kani HT, Bicakci E, Kilic I, Banzragch M, Acikel C, Atug O, Kuscu K, Imeryuz N, Akin H.The effects of psychiatric treatment on depression, anxiety, quality of life, and sexual dysfunction in patients with inflammatory bowel disease. Neuropsychiatric Disease & Treatment. 2016;12:673. | Sample selected for known distress, mental health diagnosis, or psychiatric setting |
| Yanatas O, Kani HT, Banzragch M, Bicakci E, Kuscu K, Atug O, Imeryuz N, Akin H. Effectiveness of "Hospital Anxiety and Depression Scale" for the screening of the psychiatric treatment need in outpatients with Inflammatory Bowel Diseases. Journal of Crohns & Colitis. 2015;9:S132. | Sample selected for known distress, mental health diagnosis, or psychiatric setting |
| Yuan J, Ding R, Wang L, Sheng L, Li J, Hu D. Screening for depression in acute coronary syndrome patients: A comparison of Patient Health Questionnaire-9 versus Hospital Anxiety and Depression Scale-Depression. Journal of psychosomatic research. 2019;121:24. | Could not determine eligibility |
| Zendron M, Zequi SC, Guimaraes GC, Lourenco MTC. Assessment of suicidal behavior and factors associated with a diagnosis of prostate cancer. Clinics. 2018;73:e441. | No major depression |
| Zhou Y, Cao Z, Yang M, Xi X, Guo Y, Fang M, Cheng L, Du Y. Comorbid generalized anxiety disorder and its association with quality of life in patients with major depressive disorder. Scientific reports. 2017;7:40511. | Sample selected for known distress, mental health diagnosis, or psychiatric setting |
| Zingano BdL, Guarnieri R, Diaz AP, Schwarzbold ML, Wolf P, Lin K, Walz R. Hospital Anxiety and Depression Scale-Anxiety subscale (HADS-A) and The State-Trait Anxiety Inventory (STAI) accuracy for anxiety disorders detection in drug-resistant mesial temporal lobe epilepsy patients. Journal of affective disorders. 2019;246:452. | No validated interview to assess major depression |
| Zwolińska-Kloc M, Zabel M, Czajkowski K, Ostasz-Ważny J, Kokoszka A. Relations between gestational diabetes and postpartum depressive disorders and symptoms. Archives of Psychiatry and Psychotherapy. 2017;19:43. | Could not determine eligibility |

**Supplementary Table B1. Characteristics of eligible primary studies that provide data for the present study (N = 98)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **First Author, Year** | **Country** | **Recruited Population** | **Diagnostic Interview** | **Classification System** | **Total N** | **Major Depression N (%)** |
|
| **Semi-structured Interviews** | | | | | | |
| Akechi, 20061 | Japan | Outpatients with cancer in palliative care setting | SCID | DSM-IIIR | 223 | 17 (8) |
| Amoozegar, 20172a | Canada | Patients with migraine | SCID | DSM-IV | 102 | 51 (50) |
| Beraldi, 20143 | Germany | Patients with haemato-oncological | SCID | DSM-IV | 120 | 10 (8) |
| Bernstein, 20184 | Canada | Patients with Inflammatory Bowel Disease | SCID | DSM-IV | 247 | 21 (9) |
| Braeken, 20105 | Netherlands | Patients with cancer treated with radiotherapy | SCID | DSM-IV | 13 | 1 (8) |
| Can, 20186 | Turkey | Patients in waiting list and after 1 year of transplantation | SCID | DSM-IV | 142 | 7 (5) |
| Cukor, 20087 | USA | Patients with end stage renal disease (ESRD) | SCID | DSM-IV | 70 | 14 (20) |
| Da Rocha e Silva, 20138 | Brazil | Patients with stroke | SCID | DSM-IV | 47 | 14 (30) |
| De Souza, 20099 | UK | Outpatients with Huntington’s disease | SCAN | ICD-10 | 50 | 12 (24) |
| Dorow, 201710 | Germany | Elderly primary care patients | SCID | DSM-IV | 1154 | 50 (4) |
| Ferentinos, 201111 | Greece | Patients with amyotrophic lateral sclerosis (ALS) | SCID | DSM-IV | 36 | 8 (22) |
| Fiest, 201412 | Canada | Patients with epilepsy | SCID | DSM-V | 180 | 30 (17) |
| Fischer, 201413 | Germany | Patients with heart failure | SCID | DSM-IV | 194 | 11 (6) |
| Gagnon, 200514 | Canada | Elderly patients who fell in previous 12 months | SCID | DSM-IV | 108 | 14 (13) |
| Golden, 200615 | Ireland | Outpatients with Hepatitis C | SCID | DSM-IV | 86 | 7 (8) |
| Gould, 201116 | Australia | Patients with traumatic brain injury (TBI) | SCID | DSM-IV | 189 | 15 (8) |
| Hitchon, 201917 | Canada | Patients with rheumatoid arthritis | SCID | DSM-IV | 153 | 17 (11) |
| Honarmand, 200918 | Canada | Patients with multiple sclerosis | SCID | DSM-IV | 140 | 9 (6) |
| Huey, 201819 | Malaysia | Palliative Care Patients | SCID | DSM-IV | 237 | 22 (9) |
| Jackson, 202120a | Australia | Patients with obstructive sleep apnea | SCID | DSM-IV | 52 | 7 (13) |
| Juliao, 201321 | Portugal | Patients with advanced disease | SCID | DSM-IV | 75 | 31 (41) |
| Keller, 200422 | Germany | Inpatients with cancer at the department of surgery | SCID | DSM-IV | 76 | 4 (5) |
| Kjaergaard, 201423 | Norway | Healthy population | SCID | DSM-IV | 357 | 20 (6) |
| Kugaya, 200024 | Japan | Inpatients with cancer | SCID | DSM-III | 81 | 3 (4) |
| Lambert, 201525 | Australia | Patients with cancer | SCID | DSM-IV | 164 | 25 (15) |
| Lee, 201626 | Taiwan | Patients with head and neck cancer | SCID | DSM-IV | 106 | 5 (5) |
| Lee, 201727 | Taiwan | Caregivers of patients with head and neck cancer | SCID | DSM-IV | 143 | 6 (4) |
| Love, 200228 | Australia | Outpatients with breast cancer | MILP | DSM-IV | 302 | 28 (9) |
| Love, 200429 | Australia | Outpatients with breast cancer | MILP | DSM-IV | 227 | 16 (7) |
| Löwe, 200230 | Germany | Patients visiting the medical outpatient clinics | SCID | DSM-IV | 497 | 64 (13) |
| Marrie, 201831 | Canada | Patients with multiple sclerosis | SCID | DSM-IV | 252 | 26 (10) |
| Meyer, 200832 | Germany | Spouses of patients with total laryngectomy | SCID | DSM-IV | 102 | 4 (4) |
| Michopoulos, 201033 | Greece | Elderly inpatients | SCID | DSM-IV | 194 | 27 (14) |
| O'Rourke, 199834 | UK | Patients with stroke | SADS | DSM-IV | 56 | 9 (16) |
| Öztürk, 201335 | Turkey | Patients with acne | SCID | DSM-IV | 45 | 7 (16) |
| Patten, 201536 | Canada | Patients with multiple sclerosis | SCID | DSM-IV | 42 | 20 (48) |
| Pintor, 200637b | Spain | Patients on the waiting list for heart transplantation | SCID | DSM-IV | 73 | 13 (18) |
| Prisnie, 201638 | Canada | Patients with stroke | SCID | DSM-IV | 116 | 11 (9) |
| Rooney, 201339 | UK | Adults with cerebral glioma | SCID | DSM-IV | 133 | 15 (11) |
| Ryan, 201240 | Ireland | Patients with advanced cancer | SCID | DSM-IV | 203 | 8 (4) |
| Sanchez-Gistau, 201241 | Spain | Patients with epilepsy | SCID | DSM-IV | 296 | 35 (12) |
| Sánchez, 201242b | Spain | Patients had cardiac tranplatation | SCID | DSM-IV | 22 | 3 (14) |
| Sánchez, 201443 | Spain | Heart transplantation candidates | SCID | DSM-IV | 120 | 8 (7) |
| Sanchez, Unpublisheda | Spain | Inpatients with epilepsy | SCID | DSM-IV | 394 | 40 (10) |
| Saracino, 201744 | USA | Outpatients with cancer | SCID | DSM-IV | 196 | 6 (3) |
| Schellekens, 201645 | Netherlands | Lung cancer patients and their partners | SCID | DSM-IV | 151 | 13 (9) |
| Schwarzbold, 201446 | Brazil | Patients with severe traumatic brain injury (TBI) | SCID | DSM-IV | 44 | 14 (32) |
| Sia, 201847a | Australia | General community | SCID | DSM-IV | 798 | 54 (7) |
| Simard, 201548 | Canada | Patients with cancer in non-medical setting | SCID | DSM-IV | 60 | 7 (12) |
| Singer, 200849 | Germany | Patients with laryngeal cancer | SCID | DSM-IV | 141 | 8 (6) |
| Singer, 200950 | UK | Patients with cancer in acute care | SCID | DSM-IV | 580 | 55 (9) |
| Stone, 200451 | UK | Outpatients after stroke | SCID | DSM-IV | 35 | 4 (11) |
| Tung, 201552 | Hong Kong, China | Patients with diabetes | SCID | DSM-IV | 136 | 33 (24) |
| Turner, 201253 | Australia | Patients after stroke | SCID | DSM-IV | 72 | 13 (18) |
| Turner, unpublisheda | Australia | Patients from cardiac rehabilitation | SCID | DSM-IV | 52 | 4 (8) |
| Walker, 200754 | UK | Patients with cancer | SCID | DSM-IV | 361 | 30 (8) |
| Walterfang, 200755 | Australia | Patients with adrenomyeloneuropathy | SCID | DSM-IV | 10 | 1 (10) |
| Wong, 201556 | Hong Kong, China | Patients with knee osteoarthritis | SCID | DSM-IV | 114 | 33 (29) |
| **Fully Structured Interviews** | | | | | | |
| Al-Asmi, 201157 | Oman | Patients with epilepsy | CIDI | ICD-10 | 140 | 37 (26) |
| Costa-Requena, 201358 | Spain | Outpatients with cancer | DIS / C-DIS | DSM-III | 194 | 11 (6) |
| Grassi, 200959 | Italy, Spain, Portugal and Switzerland | Cancer patients with early and stable disease | CIDI | ICD-10 | 301 | 11 (4) |
| Hahn, 200660 | Germany | Patients with chronic illness | CIDI | DSM-IV | 206 | 18 (9) |
| Harter, 200661 | Germany | Patients with musculoskeletal, cardiovascular, and cancer diseases | CIDI | DSM-IV | 513 | 28 (5) |
| Hartung, 201762a | Germany | Patients with cancer | CIDI | ICD-10 | 1413 | 89 (6) |
| Patel, 201063 | Australia | Patients with breast cancer | CIDI | DSM-IV | 52 | 5 (10) |
| Patel, 201164 | Australia | Patients diagnosed with colorectal cancer | CIDI | DSM-IV | 92 | 7 (8) |
| Senturk, 200765 | Turkey | Outpatients with leprosy | CIDI | DSM-III | 59 | 6 (10) |
| **Mini International Neuropsychiatric Interviews (MINI)** | | | | | | |
| Bayón-Pérez, 201666 | Spain | Patients with HIV | MINI | DSM-IV | 113 | 24 (21) |
| Beck, 201667 | Singapore | Patients with cancer | MINI | DSM-IV | 313 | 53 (17) |
| Bunevicius, 200768 | Lithuania | Primary care patients | MINI | DSM-IV | 997 | 152 (15) |
| Bunevicius, 201269 | Lithuania | Patients with coronary artery disease | MINI | DSM-IV | 517 | 56 (11) |
| Butnoriene, 201470 | Lithuania | Primary care-based community sample | MINI | DSM-IV | 1115 | 201 (18) |
| Chen, 201071 | Taiwan | Patients on hemodialysis | MINI | DSM-IV | 195 | 47 (24) |
| Cheung, 201172 | New Zealand | Elderly outpatients with chronic obstructive pulmonary disease | MINI | DSM-IV | 55 | 1 (2) |
| Consoli, 200673 | France | Patients with psoriasis | MINI | DSM-IV | 93 | 15 (16) |
| De la Torre, 201674 | Argentina | Patients hospitalized for a general medical illness | MINI | DSM-IV | 256 | 69 (27) |
| de Oliveira, 201475 | Brazil | Patients with epilepsy | MINI | DSM-IV | 126 | 35 (28) |
| Douven, 201676 | Netherlands | Patients with stroke | MINI | DSM-IV | 247 | 13 (5) |
| Drabe, 200877 | Switzerland | Wives of men with long-term head and neck cancer | MINI | DSM-IV | 62 | 3 (5) |
| Fabregas, 201478 | Brazil | Patients with Hepatitis C | MINI | DSM-IV | 105 | 33 (31) |
| Gandy, 201279 | Australia | People with epilepsy | MINI | DSM-IV | 147 | 35 (24) |
| Jang, 201280 | Korea | Patients with breast cancer | MINI | DSM-IV | 309 | 11 (4) |
| Kang, 201381 | Korea | Patients with recent ischemic stroke | MINI | DSM-IV | 423 | 36 (9) |
| Law, 201482 | Australia | Patients with suspected obstructive sleep apnea | MINI | DSM-IV | 100 | 30 (30) |
| Lees, 201383 | UK | Patients after stroke | MINI | DSM-IV & ICD-10 | 65 | 11 (17) |
| Loosman, 201084 | Netherlands | Patients with end-stage renal disease | MINI | DSM-IV | 28 | 8 (29) |
| Massardo, 201585b | Chile | Outpatients with systemic lupus erythematosus | MINI | DSM-IV | 128 | 28 (22) |
| Matsuoka, 200986 | Japan | Patients with physical injury | MINI | DSM-IV | 153 | 26 (17) |
| McFarlane, 200987 | Australia | Patients with traumatic injury | MINI | DSM-IV | 860 | 130 (15) |
| Pedroso, 201688a | Brazil | Patients with acute ischemic stroke | MINI | DSM-IV | 48 | 9 (19) |
| Phan, 201689 | Australia | Patients with chronic obstructive pulmonary disease (COPD) | MINI | DSM-IV | 47 | 6 (13) |
| Reme, 201490 | Norway | Patients with chronic low back pain | MINI | DSM-IV | 540 | 17 (3) |
| Soyseth, 201691 | Norway | Patients evaluated for lung transplantation | MINI | DSM-IV | 95 | 9 (9) |
| Stafford, 200792 | Australia | Patients with coronary artery disease | MINI | DSM-IV | 193 | 35 (18) |
| Stafford, 201493 | Australia | Women with breast or gynecologic cancer | MINI | DSM-IV | 100 | 17 (17) |
| Sultan, 200994 | France | Patients with diabetes | MINI | DSM-IV | 292 | 30 (10) |
| Tiringer, 200895 | Hungary | Outpatients in residential cardiac rehabilitation | MINI | DSM-IV | 143 | 9 (6) |
| Yamashita, 201796 | Japan | Patients with acute coronary syndrome | MINI | DSM-IV | 98 | 5 (5) |

a Unpublished studies at time of the electronic search

b Studies that did not come up in our search

**Abbreviations**: DSM: Diagnostic and Statistical Manual of Mental Disorders; ICD: International Classification of Diseases; UK: United Kingdom; USA: United States of America.

**Supplementary Table B2. Characteristics of eligible primary studies that did not provide data for the present study (N = 77)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **First Author, Journal, Year** | **Country** | **Recruited Population** | **Diagnostic Interview** | **Classification System** | **Total N** | **Major Depression** |
| **N (%)** |
| Annagur, Pain Med, 201497 | Turkey | Patients with chronic pain | SCID | DSM-IV | 162 | 56 (35) |
| Atesci, Support Care Cancer, 200498 | Turkey | Patients with cancer | SCID | DSM-IV | 117 | 16 (14) |
| Balaban, Noro Psikiyatr Ars, 201799 | Turkey | Hemodialysis patients | SCID | DSM-IV | 93 | 19 (20) |
| Chan, Int J Rheum Dis, 2017100 | Hong Kong, China | Patients with spondyloarthritis | SCID | DSM-IV | 160 | 17 (11) |
| Chaturvedi, J Psychosom Res, 1998101 | UK | Patients with cancer and disease and symptom-free controls | PAS | DSM-III-R | 81 | NR |
| Clarke, Int J Psychiatry Med, 1993102 | Australia | General hospital patients | SCID | DSM-III-R | 179 | 22 (12) |
| Constantini, Support Care Cancer, 1999103 | Italy | Patients with cancer | SCID | DSM-III-R | 132 | 13 (10) |
| Fritzsche, Psychosoc Med, 2005104 | Germany | Medically ill inpatients | Mini-DIPS | ICD-10 | 294 | 21 (7) |
| Ganzini, BMJ, 2008105 | USA | Patients with terminally ill | SCID | DSM-IV | 58 | 12 (21) |
| Goebel, Support Care Cancer, 2011106 | Germany | Patients with brain tumor | SCID | DSM-IV | 26 | 0 (0) |
| Goy, J Pain Symptom Manage, 2011107 | USA | Hospice patients | SCID | DSM-IV | 88 | NR |
| Haworth, Int J Geriatr Psychiatry, 2007108 | UK | Outpatients with chronic heart failure | SCID | DSM-IV | 88 | 13 (15) |
| Healey, Int J Geriatr Psychiatry, 2008109 | UK | Older stroke survivor patients | SCID | DSM-IV | 49 | 7 (14) |
| Henderson, J Psychosom Res, 2005110 | UK | Patients with chronic fatigue syndrome | SCID | DSM-III-R | 61 | 19 (31) |
| Henningsen, J Nerv Ment Dis, 2005111 | Germany | Patients with medically unexplained somatic symptoms | SCID | DSM-IV | 186 | 50 (27) |
| Henry, Head Neck, 2017112 | Canada | Patients with head and neck cancer | SCID | DSM-IV | 219 | 13 (9) |
| Hosaka, Int J Psychiatry Clin Pract, 1999113 | Japan | Patients with otolaryngology | SCID | DSM-IV | 100 | 10 (10) |
| Kallestad, J Psychosom Res, 2015114 | Norway | Patients with chronic fatigue | SCID | DSM-IV | 122 | NR |
| Katz, Psychooncology, 2004115 | Canada | Patients with head and neck cancer | SADS | DSM-IV | 60 | 3 (5) |
| Krespi Boothby, Türk Psikiyatri Dergisi, 2010116 | England | Patients with breast cancer | SADS | DSM-IV | 255 | 22 (9) |
| Leong Abdullah, IMJM, 2019117 | Malaysia | Traumatic brain injury patients | SCID | DSM-IV | 101 | NR |
| Lloyd-Williams, J Pain Symptom Manage, 2001118 | UK | Advanced metastatic cancer patients | PSE | ICD-10 | 100 | NR |
| Mehnert, Psychooncology, 2007119 | Germany | Patients with breast cancer | SCID | DSM-IV | 127 | 6 (5) |
| Morasso, Eur J Cancer, 2001120 | Italy | Patients with breast cancer | SCID | DSM-III-R | 113 | 13 (12) |
| Navines, J Affect Disord, 2012121 | Spain | Patients with chronic Hepatitis C | SCID | DSM-IV | 500 | 32 (6) |
| Nilges, Schmerz, 2015122 | Germany | Patients with chronic pain | SCID | DSM-IV | 100 | 26 (26) |
| Ozalp, Psychooncology, 2008123 | Turkey | Patients with breast cancer | SCID | DSM-IV | 204 | 17 (8) |
| Poole, Gen Hosp Psychiatry, 2006124 | UK | Patients with cardiomyopathy | SCID | DSM-III-R | 115 | 18 (16) |
| Preljevic, Gen Hosp Psychiatry, 2013125 | Norway | Patients with dialysis | SCID | DSM-IV | 109 | 16 (15) |
| Reckert, Z Psychosom Med Psychother, 2013126 | Germany | Patients in hemodialysis (end-stage renal disease) | SCID | DSM-IV | 52 | 9 (17) |
| Rusu, Scand J Pain, 2016127 | UK | Patients with chronic pain | SCID | DSM-IV | 78 | 28 (36) |
| Saheeb, Niger J Clin Pract, 2005128 | Nigeria | Patients with temporomandibular joint pain and dysfunction and controls | PAS | DSM-III-R | 48 | 1 (2) |
| Silverstone, J Psychosom Res, 1996129 | UK | Emergency medical patients | SCAN | DSM-IV | 153 | 24 (16) |
| Strik, Psychosomatics, 2001130 | Netherlands | Patients with myocardial infarction | SCID | DSM-IV | 179 | 23 (13) |
| Tang, Aging Ment Health, 2004131 | China | Geriatric post-stroke patients | SCID | DSM-III-R | 100 | 8 (8) |
| Tung, Hong Kong J Psychiatry, 2009132 | China | Patients with irritable bowel syndrome | SCID | DSM-IV | 99 | NR |
| Vaeroy, Nord J Psychiatry, 2003133 | Norway | General surgical inpatients | SCID | DSM-III-R | 108 | 14 (13) |
| Warmenhoven, J Affect Disord, 2012134 | Netherlands | Patients with advanced cancer | SCAN | DSM-IV | 64 | 2 (3) |
| Westhoff-Bleck, J Affect Disord, 2016135 | Germany | Patients with congenital heart disease | SCID | DSM-IV | 150 | 37 (25) |
| Wiglusz, Epilepsy Behav, 2016136 | Poland | Patients with epilepsy | SCID | DSM-IV-TR | 96 | 21 (22) |
| Wilkinson, J R Coll Gen Pract, 1988137 | UK | Patients attending general practitioners | SCID | DSM-III | 100 | 14 (14) |
| Wong, East Asian Arch Psychiatry, 2013138 | China | Patients with Graves' opthalmopathy | SCID | DSM-IV | 124 | 8 (6) |
| Zoger, Psychosomatics, 2006139 | Sweden | Patients with tinnitus | SCID | DSM-III-R | 224 | 101 (45) |
| Al-Adawi, Brain Injury, 2007140 | Oman | Patients with TBI | CIDI | ICD-10 | 67 | 38 (57) |
| Azah, Int Med J, 2005141 | Malaysia | Patients attending primary health care services | CIDI | ICD-10 | 180 | 30 (17) |
| Haddad, PLoS One, 2013142 | UK | Patients with coronary heart disease | CIS-R | ICD-10 | 730 | 11 (2) |
| Jenkins, Psychosomatics, 1994143 | UK | Adult bone marrow transplant recipients | CIDI | Unclear | 28 | 5 (18) |
| Le Fevre, Palliat Med, 1999144 | UK | Palliative care inpatients | CIS-R | ICD-10 | 79 | 14 (18) |
| Lepine, Acta psychiat belg, 1986145 | France | Internal medicine patients | CIDI | DSM-III | 120 | 35 (29) |
| Martucci, Psychol Med, 1999146 | Italy | General medical and surgical ward patients | CIDI | ICD-10 | 363 | NR |
| Morriss, J R Soc Med, 1998147 | UK | Chronic fatigue syndrome patients | CIS-R | DSM-III-R | 136 | 14 (10) |
| Parker, Acta Psychiatr Scand, 2002148 | Australia | Medically ill patients | CIDI | DSM-IV | 97 | 16 (16) |
| Parker, Aust N Z J Psychiatry, 2001149 | Australia | Medically ill patients | CIDI | Unclear | 28 | 6 (21) |
| Tschorn, Psychiatr Prax, 2019150 | Germany | Patients with coronary heart disease | CIDI | DSM-IV | 682 | 58 (9) |
| Zirke, Qual Life Res, 2013151 | Germany | Patients with chronic tinnitus | CIDI | ICD-10 | 100 | NR |
| Baby, Ind Psychiatry J, 2018152 | India | Limb amputation patients | MINI | ICD-10 | 100 | 20 (20) |
| Baguelin-Pinaud, L’Encéphale, 2009153 | France | Renal transplant patients | MINI | DSM-IV | 60 | 8 (13) |
| Baker, Ann Am Thorac Soc, 2018154 | USA | Patients with chronic obstructive pulmonary disease | MINI | DSM-V | 220 | 54 (25) |
| Baubet, Presse Med, 2010155 | France | Patients with systemic sclerosis | MINI | DSM-IV | 100 | 19 (19) |
| Buganza‐Torio, Aliment Pharmacol Ther, 2019156 | Canada | Cirrhosis patients | MINI | Unclear | 305 | 55 (18) |
| Castro, Rev Bras Anestesiol, 2006157 | Brazil | Patients with chronic pain | MINI | DSM-IV | 91 | NR |
| Cruzado, Support Care Cancer, 2018158 | Spain | Cancer patients | MINI | DSM-IV | 232 | NR |
| Ellouze, Tunis Med, 2017159 | Tunisia | Patients with Type 2 diabetes | MINI | DSM-IV | 100 | 31 (31) |
| Hosaka, Psychiatry Clin Neurosci, 1996160 | Japan | Cancer and medically ill patients | MINI | DSM-IV | 100 | NR |
| Hosseinzadeh, Gastroenterol Hepatol Bed Bench, 2011161 | Iran | Patients with chronic constipation | MINI | DSM-IV and ICD-10 | 54 | 18 (33) |
| Jarpa, Lupus, 2011162 | Chile | Patients with systemic lupus erythematosus | MINI | DSM-IV | 83 | 18 (22) |
| Kanzaki, Acta Otolaryngol, 2015163 | Japan | Patients with dizziness and Ménière’s disease | MINI | Unclear | 138 | 19 (14) |
| Kuijpers, Eur J Cardiovasc Prev Rehabil, 2007164 | Netherlands | Patients with non-cardiac chest pain | MINI | DSM-IV | 410 | NR |
| Kwan, Semin Arthritis Rheum, 2019165 | Canada | Patients with systemic lupus erythematosus | MINI | DSM-V | 159 | 23 (15) |
| Maia, Rev Assoc Med Bras, 2014166 | Brazil | Patients with Type-1 diabetes | MINI | Unclear | 110 | 9 (8) |
| Manzanera, Annales Médico Psychologiques, 2003167 | France | Patients with cancer | MINI | DSM-IV | 54 | 7 (13) |
| Mitchell, Aust N Z J Psychiatry, 2011168 | Iraq | Patients with primary depression and non-depressed subjects | MINI | DSM-IV | 400 | NR |
| Orge, PLoS One, 2015169 | Brazil | Patients with bladder symptoms | MINI | Unclear | 172 | NR |
| Risnes, Psychosomatics, 2013170 | Norway | Cardio-respiratory failure patients | MINI | DSM-IV | 28 | NR |
| Sumari-de Boer, Trop Med Int. Health, 2018171 | Tanzania | Patients with HIV | MINI | DSM-IV & ICD-10 | 215 | 6 (3) |
| Telles-Correia, Transplant Proc, 2009172 | Portugal | Liver transplant patients | MINI | DSM-IV | 100 | 25 (25) |
| Yang, Compr Psychiatry, 2014173 | China | Psycho-cardiological outpatients | MINI | DSM-IV | 100 | 38 (38) |

**Abbreviations:** DSM: Diagnostic and Statistical Manual of Mental Disorders; ICD: International Classification of Diseases; NR: Not Reported. UK: United Kingdom; USA: United States of America

**Supplementary Table C. QUADAS-2 ratings for each primary study included in the present study**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Domain 1: Participant Selection** | | | | | **Domain 2: Index Text** | | | | **Domain 3: Reference Standard** | | | | | **Domain 4: FLow and Timing** | | | | |
| **First Author, Year** | **SQ1** | **SQ2** | **SQ3** | **RoB** | **AC** | **SQ1** | **SQ2** | **RoB** | **AC** | **SQ1** | **SQ2** | **SQ3** | **RoB** | **AC** | **SQ1** | **SQ2** | **SQ3** | **SQ4** | **RoB** |
| **Semi-Structured Interviews** | | | | | | | | | | | | | | | | | | | |
| Akechi, 20061 | Yes | Yes | Yes | Low | U/C | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | U/C | Yes | Yes | Yes | Yes | Low |
| Amoozegar, 20172a | U/C | Yes | Yes | Low | Low | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | Low | U/C | Yes | Yes | No | U/C |
| Beraldi, 20143 | U/C | Yes | Yes | U/C | Low | N/A | N/A | Low | Low | Yes | U/C | U/C | U/C | Low | Yes | Yes | Yes | Yes | Low |
| Bernstein, 20184 | U/C | Yes | Yes | U/C | U/C | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | Low | Yes | Yes | Yes | Yes | Low |
| Braeken, 20105 | No | Yes | Yes | U/C | U/C | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | U/C | IPDb | Yes | Yes | Yes | IPDb |
| Can, 20186 | U/C | Yes | Yes | U/C | U/C | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | Low | Yes | Yes | Yes | Yes | Low |
| Cukor, 20087 | U/C | Yes | Yes | High | U/C | N/A | N/A | Low | U/C | Yes | U/C | U/C | U/C | U/C | U/C | Yes | Yes | Yes | U/C |
| Da Rocha e Silva, 20138 | U/C | Yes | Yes | U/C | U/C | N/A | N/A | Low | U/C | Yes | U/C | U/C | U/C | U/C | Yes | Yes | Yes | Yes | Low |
| De Souza, 20099 | U/C | Yes | Yes | U/C | Low | N/A | N/A | Low | Low | Yes | U/C | Yes | Low | Low | Yes | Yes | Yes | Yes | Low |
| Dorow, 201710 | Yes | Yes | Yes | Low | Low | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | Low | Yes | Yes | Yes | Yes | Low |
| Ferentinos, 201111 | U/C | Yes | Yes | U/C | Low | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | Low | Yes | Yes | Yes | Yes | Low |
| Fiest, 201412 | U/C | Yes | Yes | Low | Low | N/A | N/A | Low | Low | Yes | Yes | U/C | U/C | Low | U/C | Yes | Yes | No | U/C |
| Fischer, 201413 | U/C | Yes | Yes | U/C | Low | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | Low | U/C | Yes | Yes | Yes | U/C |
| Gagnon, 200514 | Yes | Yes | Yes | Low | Low | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | Low | Yes | Yes | Yes | Yes | Low |
| Golden, 200615 | Yes | Yes | Yes | Low | U/C | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | Low | Yes | Yes | Yes | Yes | Low |
| Gould, 201116 | U/C | Yes | Yes | U/C | U/C | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | Low | Yes | Yes | Yes | Yes | Low |
| Hitchon, 201917 | U/C | Yes | Yes | U/C | U/C | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | Low | U/C | Yes | Yes | Yes | U/C |
| Honarmand, 200918 | U/C | Yes | Yes | U/C | Low | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | Low | Yes | Yes | Yes | Yes | Low |
| Huey, 201819 | U/C | Yes | Yes | U/C | U/C | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | U/C | Yes | Yes | Yes | Yes | Low |
| Jackson, 202120a | U/C | Yes | No | High | High | N/A | N/A | Low | Low | Yes | U/C | U/C | U/C | Low | IPDb | Yes | Yes | Yes | IPDb |
| Juliao, 201321 | U/C | Yes | Yes | Low | Low | N/A | N/A | Low | Low | Yes | U/C | U/C | U/C | U/C | Yes | Yes | Yes | Yes | Low |
| Keller, 200422 | Yes | Yes | Yes | Low | Low | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | Low | U/C | No | Yes | No | High |
| Kjaergaard, 201423 | No | Yes | Yes | U/C | Low | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | U/C | Yes | Yes | Yes | Yes | Low |
| Kugaya, 200024 | Yes | Yes | Yes | Low | U/C | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | U/C | U/C | Yes | Yes | Yes | U/C |
| Lambert, 201525 | No | Yes | Yes | U/C | U/C | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | Low | Yes | Yes | Yes | Yes | Low |
| Lee, 201626 | Yes | Yes | Yes | Low | U/C | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | U/C | U/C | Yes | Yes | Yes | U/C |
| Lee, 201727 | Yes | Yes | Yes | Low | Low | N/A | N/A | Low | U/C | Yes | Yes | Yes | Low | U/C | U/C | Yes | Yes | Yes | U/C |
| Love, 200228 | U/C | Yes | Yes | U/C | Low | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | U/C | U/C | Yes | Yes | Yes | U/C |
| Love, 200429 | No | Yes | Yes | U/C | U/C | N/A | N/A | Low | Low | Yes | Yes | Yes | U/C | Low | U/C | Yes | Yes | Yes | U/C |
| Löwe, 200230 | Yes | Yes | Yes | Low | High | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | Low | Yes | Yes | Yes | Yes | Low |
| Marrie, 201831 | U/C | Yes | Yes | U/C | U/C | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | Low | Yes | Yes | Yes | Yes | Low |
| Meyer, 200832 | Yes | Yes | Yes | Low | U/C | N/A | N/A | Low | Low | Yes | U/C | U/C | U/C | Low | Yes | Yes | Yes | Yes | Low |
| Michopoulos, 201033 | No | Yes | Yes | U/C | Low | N/A | N/A | Low | U/C | Yes | U/C | Yes | U/C | U/C | Yes | Yes | Yes | Yes | Low |
| O'Rourke, 199834 | Yes | Yes | Yes | Low | Low | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | Low | IPDb | Yes | Yes | Yes | IPDb |
| Öztürk, 201335 | U/C | Yes | Yes | U/C | Low | N/A | N/A | Low | Low | Yes | Yes | U/C | U/C | Low | Yes | Yes | Yes | Yes | Low |
| Patten, 201536 | No | Yes | Yes | U/C | Low | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | Low | U/C | Yes | Yes | Yes | U/C |
| Pintor, 200637c | U/C | Yes | Yes | U/C | Low | N/A | N/A | Low | Low | Yes | U/C | U/C | U/C | U/C | Yes | Yes | Yes | Yes | Low |
| Prisnie, 201638 | Yes | Yes | Yes | Low | U/C | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | Low | U/C | Yes | Yes | No | U/C |
| Rooney, 201339 | U/C | Yes | Yes | U/C | Low | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | Low | Yes | Yes | Yes | U/C | U/C |
| Ryan, 201240 | Yes | Yes | Yes | Low | Low | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | Low | Yes | Yes | Yes | Yes | Low |
| Sanchez-Gistau, 201241 | U/C | Yes | Yes | Low | Low | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | Low | Yes | Yes | Yes | Yes | Low |
| Sánchez, 201242c | Yes | Yes | Yes | Low | Low | N/A | N/A | Low | Low | Yes | U/C | U/C | U/C | U/C | Yes | Yes | Yes | Yes | Low |
| Sánchez, 201443 | U/C | Yes | Yes | U/C | U/C | N/A | N/A | Low | Low | Yes | U/C | U/C | U/C | Low | Yes | Yes | Yes | Yes | Low |
| Sanchez, Unpublisheda | U/C | Yes | Yes | U/C | Low | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | U/C | Yes | Yes | Yes | Yes | Low |
| Saracino, 201744 | U/C | Yes | Yes | U/C | U/C | N/A | N/A | Low | Low | Yes | Yes | U/C | U/C | Low | Yes | Yes | Yes | Yes | Low |
| Schellekens, 201645 | No | Yes | Yes | U/C | U/C | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | U/C | U/C | Yes | Yes | Yes | U/C |
| Schwarzbold, 201446 | U/C | Yes | Yes | Low | Low | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | Low | Yes | Yes | Yes | Yes | Low |
| Sia, 201847a | Yes | Yes | Yes | Low | U/C | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | Low | U/C | Yes | Yes | Yes | U/C |
| Simard, 201548 | U/C | Yes | Yes | Low | Low | N/A | N/A | Low | U/C | Yes | Yes | Yes | Low | U/C | Yes | Yes | Yes | Yes | Low |
| Singer, 200849 | Yes | Yes | Yes | Low | Low | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | Low | U/C | U/C | Yes | U/C | U/C |
| Singer, 200950 | U/C | Yes | Yes | U/C | U/C | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | Low | Yes | Yes | Yes | No | High |
| Stone, 200451 | U/C | Yes | Yes | Low | U/C | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | Low | U/C | Yes | Yes | No | High |
| Tung, 201552 | Yes | Yes | Yes | Low | Low | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | Low | Yes | Yes | Yes | Yes | Low |
| Turner, 201253 | U/C | Yes | Yes | Low | Low | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | Low | Yes | Yes | Yes | Yes | Low |
| Turner, unpublisheda | U/C | Yes | Yes | U/C | U/C | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | Low | Yes | Yes | Yes | Yes | Low |
| Walker, 200754 | Yes | Yes | Yes | Low | U/C | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | Low | U/C | Yes | Yes | U/C | U/C |
| Walterfang, 200755 | U/C | Yes | Yes | U/C | Low | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | Low | U/C | Yes | Yes | Yes | Low |
| Wong, 201556 | Yes | Yes | Yes | Low | U/C | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | Low | Yes | Yes | Yes | Yes | Low |
| **Fully-structured Interviews** | | | | | | | | | | | | | | | | | | | |
| Al-Asmi, 201157 | Yes | Yes | Yes | Low | Low | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | Low | U/C | Yes | Yes | Yes | U/C |
| Costa-Requena, 201358 | Yes | Yes | Yes | Low | Low | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | Low | Yes | No | Yes | No | U/C |
| Grassi, 200959 | Yes | Yes | Yes | Low | U/C | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | U/C | Yes | Yes | Yes | Yes | Low |
| Hahn, 200660 | U/C | Yes | Yes | U/C | U/C | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | Low | U/C | Yes | Yes | Yes | U/C |
| Harter, 200661 | U/C | Yes | Yes | U/C | U/C | N/A | N/A | Low | U/C | Yes | U/C | Yes | U/C | U/C | U/C | Yes | Yes | Yes | U/C |
| Hartung, 201762a | No | Yes | Yes | U/C | Low | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | U/C | IPDb | Yes | Yes | No | U/C |
| Patel, 201063 | Yes | Yes | Yes | Low | U/C | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | Low | IPDb | Yes | Yes | No | U/C |
| Patel, 201164 | U/C | Yes | Yes | U/C | U/C | N/A | N/A | Low | Low | Yes | U/C | Yes | Low | Low | Yes | Yes | Yes | Yes | Low |
| Senturk, 200765 | Yes | Yes | Yes | Low | Low | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | Low | U/C | Yes | Yes | Yes | U/C |
| **Mini International Neuropsychiatric Interview (MINI)** | | | | | | | | | | | | | | | | | | | |
| Bayón-Pérez, 201666 | U/C | Yes | Yes | U/C | Low | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | U/C | U/C | Yes | Yes | Yes | U/C |
| Beck, 201667 | Yes | Yes | Yes | Low | U/C | N/A | N/A | Low | Low | Yes | U/C | U/C | U/C | Low | Yes | Yes | Yes | Yes | Low |
| Bunevicius, 200768 | Yes | Yes | Yes | Low | Low | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | U/C | Yes | Yes | Yes | Yes | Low |
| Bunevicius, 201269 | Yes | Yes | Yes | Low | Low | N/A | N/A | Low | U/C | Yes | Yes | Yes | Low | U/C | Yes | Yes | Yes | Yes | Low |
| Butnoriene, 201470 | U/C | Yes | Yes | Low | U/C | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | U/C | Yes | Yes | Yes | Yes | Low |
| Chen, 201071 | U/C | Yes | Yes | U/C | Low | N/A | N/A | Low | U/C | Yes | U/C | Yes | U/C | Low | Yes | Yes | Yes | Yes | Low |
| Cheung, 201172 | Yes | Yes | Yes | Low | U/C | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | Low | Yes | Yes | Yes | Yes | Low |
| Consoli, 200673 | Yes | Yes | Yes | Low | Low | N/A | N/A | Low | U/C | Yes | U/C | Yes | U/C | U/C | U/C | Yes | Yes | Yes | U/C |
| De la Torre, 201674 | No | Yes | Yes | U/C | Low | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | Low | Yes | Yes | Yes | Yes | Low |
| de Oliveira, 201475 | U/C | Yes | Yes | U/C | Low | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | U/C | U/C | Yes | Yes | Yes | U/C |
| Douven, 201676 | U/C | Yes | Yes | U/C | Low | N/A | N/A | Low | U/C | Yes | Yes | Yes | Low | Low | Yes | Yes | Yes | Yes | Low |
| Drabe, 200877 | U/C | Yes | Yes | Low | Low | N/A | N/A | Low | U/C | Yes | U/C | Yes | U/C | U/C | U/C | Yes | Yes | Yes | U/C |
| Fabregas, 201478 | U/C | Yes | Yes | U/C | Low | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | Low | Yes | Yes | Yes | Yes | Low |
| Gandy, 201279 | Yes | Yes | Yes | Low | Low | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | Low | Yes | Yes | Yes | Yes | Low |
| Jang, 201280 | Yes | Yes | Yes | Low | Low | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | Low | Yes | Yes | Yes | Yes | Low |
| Kang, 201381 | Yes | Yes | Yes | Low | Low | N/A | N/A | Low | U/C | Yes | Yes | Yes | Low | U/C | Yes | Yes | Yes | Yes | Low |
| Law, 201482 | Yes | Yes | Yes | Low | High | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | Low | U/C | Yes | Yes | Yes | U/C |
| Lees, 201383 | U/C | Yes | Yes | Low | Low | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | Low | U/C | Yes | Yes | Yes | U/C |
| Loosman, 201084 | No | Yes | Yes | U/C | Low | N/A | N/A | Low | U/C | Yes | Yes | Yes | Low | Low | Yes | Yes | Yes | Yes | Low |
| Massardo, 201585c | U/C | Yes | Yes | U/C | U/C | N/A | N/A | Low | U/C | Yes | U/C | Yes | U/C | Low | Yes | Yes | Yes | Yes | Low |
| Matsuoka, 200986 | Yes | Yes | Yes | Low | Low | N/A | N/A | Low | U/C | Yes | U/C | Yes | U/C | Low | IPDb | Yes | Yes | Yes | IPDb |
| McFarlane, 200987 | U/C | Yes | Yes | U/C | Low | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | Low | U/C | Yes | Yes | Yes | U/C |
| Pedroso, 201688a | U/C | Yes | Yes | U/C | U/C | N/A | N/A | Low | U/C | Yes | U/C | Yes | U/C | Low | Yes | Yes | Yes | Yes | Low |
| Phan, 201689 | U/C | Yes | Yes | Low | U/C | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | Low | Yes | Yes | Yes | Yes | Low |
| Reme, 201490 | Yes | Yes | Yes | Low | Low | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | Low | Yes | Yes | Yes | Yes | Low |
| Soyseth, 201691 | Yes | Yes | Yes | Low | U/C | N/A | N/A | Low | U/C | Yes | U/C | Yes | U/C | U/C | Yes | Yes | Yes | Yes | Low |
| Stafford, 200792 | No | Yes | Yes | U/C | Low | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | Low | Yes | Yes | Yes | Yes | Low |
| Stafford, 201493 | U/C | Yes | Yes | U/C | Low | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | Low | Yes | Yes | Yes | Yes | Low |
| Sultan, 200994 | Yes | Yes | Yes | Low | Low | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | Low | Yes | Yes | Yes | Yes | Low |
| Tiringer, 200895 | Yes | Yes | Yes | Low | Low | N/A | N/A | Low | Low | Yes | Yes | Yes | Low | Low | IPDb | Yes | Yes | No | High |
| Yamashita, 201796 | U/C | Yes | Yes | Low | Low | N/A | N/A | Low | Low | Yes | U/C | Yes | U/C | Low | Yes | Yes | Yes | Yes | Low |

**Abbreviations**: AC: acceptability concern, RoB: risk of bias, SQ: signalling question, N/A: not applicable; U/C: Unclear

a Was unpublished at the time of electronic database search

b Rating varies at the individual participant level

c Did not come up in the electronic database search and contributed by collaborating authors

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **HADS-Da** | | | | | | | **HADS-T** | | | | | | **HADS-T – HADS-D** | | | | |
| **Cutoff** | **Sensitivity** | **95% CI** | **Specificity** | | **95% CI** | **Cutoff** | | **Sensitivity** | **95% CI** | **Specificity** | **95% CI** | **Sensitivity** | | **95% CI** | **Specificity** | **95% CI** |
| 5 | 0.92 | (0.88, 0.95) | 0.61 | (0.57, 0.65) | | 11 | | 0.93 | (0.89, 0.95) | 0.62 | (0.58, 0.66) | 0.01 | | (-0.03, 0.04) | 0.01 | (-0.01, 0.04) |
| 6 | 0.89 | (0.84, 0.92) | 0.69 | (0.65, 0.73) | | 13 | | 0.88 | (0.83, 0.91) | 0.71 | (0.68, 0.75) | -0.01 | | (-0.05, 0.02) | 0.02 | (0.00, 0.04) |
| 7b | 0.82 | (0.77, 0.87) | 0.78 | (0.74, 0.81) | | 15c | | 0.80 | (0.75, 0.84) | 0.79 | (0.76, 0.82) | -0.02 | | (-0.08, 0.03) | 0.01 | (-0.00, 0.04) |
| 8 | 0.74 | (0.68, 0.79) | 0.84 | (0.81, 0.86) | | 17 | | 0.72 | (0.67, 0.77) | 0.86 | (0.84, 0.88) | -0.02 | | (-0.08, 0.04) | 0.02 | (0.01, 0.04) |
| 9 | 0.63 | (0.57, 0.69) | 0.88 | (0.86, 0.90) | | 19 | | 0.59 | (0.53, 0.64) | 0.91 | (0.89, 0.93) | -0.04 | | (-0.11, 0.02) | 0.03 | (0.01, 0.04) |
| 10 | 0.54 | (0.48, 0.59) | 0.92 | (0.90, 0.94) | | 21 | | 0.46 | (0.41, 0.52) | 0.94 | (0.93, 0.95) | -0.08 | | (-0.15, -0.01) | 0.02 | (0.01, 0.03) |
| 11 | 0.43 | (0.37, 0.50) | 0.94 | (0.93, 0.96) | | 23 | | 0.35 | (0.30, 0.40) | 0.96 | (0.95, 0.97) | -0.08 | | (-0.15, -0.02) | 0.02 | (0.01, 0.03) |

**Supplementary Table D1.** Comparison of sensitivity and specificity estimates between HADS-D and HADS-T among studies that used a semi-structured reference standard

a N Studies = 58; N Participants = 10,311; N major depression = 1,034

b The cutoff minimizes the values of the distance to the top-left corner of the ROC curvesfor HADS-D.

c The cutoff minimized the values of the distance to the top-left corner of the ROC curvesfor HADS-T was ≥ 14, but in order to be consistent with the overall analysis, we kept the same sets of paired cutoffs for comparison.

CI: confidence interval

**Supplementary Table D2.** Comparison of sensitivity and specificity estimates between HADS-D and HADS-T for pairs of optimal cutoffs and cutoffs close to the optimal cutoffs among studies that used a semi-structured reference standard via individual-level model

|  |  |  |  |
| --- | --- | --- | --- |
| **HADS-D**a | **HADS-T** | **HADS-T – HADS-D** | |
| **Cutoff** | **Cutoff** | **Sensitivity** | **Specificity** |
| 5 | 11 | 0.02 (-0.01, 0.04) | 0.01 (-0.01, 0.03) |
| 6 | 13 | 0.01 (-0.01, 0.03) | 0.02 (0.00, 0.04) |
| 7b | 15c | -0.01 (-0.04, 0.02) | 0.02 (0.00, 0.04) |
| 8 | 17 | -0.01 (-0.04, 0.03) | 0.03 (0.02, 0.05) |
| 9 | 19 | -0.03 (-0.07, 0.01) | 0.03 (0.02, 0.05) |
| 10 | 21 | -0.07 (-0.11, -0.02) | 0.03 (0.02, 0.04) |
| 11 | 23 | -0.08 (-0.12, -0.03) | 0.03 (0.01, 0.04) |

a N Participants = 10,311; N major depression = 1,034

b The cutoff minimizes the values of the distance to the top-left corner of the ROC curvesfor HADS-D.

c The cutoff minimized the values of the distance to the top-left corner of the ROC curvesfor HADS-T was ≥ 14, but in order to be consistent with the overall analysis, we kept the same sets of paired cutoffs for comparison.

**Supplementary Table D3.** Comparison of sensitivity and specificity estimates between HADS-D and HADS-T among studies that used a semi-structured reference standard and that participants recruited from inpatient care setting

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **HADS-Da** | | | | | | | **HADS-T** | | | | | | **HADS-T – HADS-D** | | | | |
| **Cutoff** | **Sensitivity** | **95% CI** | **Specificity** | | **95% CI** | **Cutoff** | | **Sensitivity** | **95% CI** | **Specificity** | **95% CI** | **Sensitivity** | | **95% CI** | **Specificity** | **95% CI** |
| 5 | 0.93 | (0.86, 0.96) | 0.49 | (0.41, 0.57) | | 11 | | 0.95 | (0.86, 0.98) | 0.56 | (0.48, 0.64) | 0.02 | | (-0.04, 0.06) | 0.07 | (0.02, 0.12) |
| 6 | 0.92 | (0.83, 0.96) | 0.59 | (0.5, 0.67) | | 13 | | 0.89 | (0.82, 0.94) | 0.67 | (0.59, 0.74) | -0.03 | | (-0.09, 0.05) | 0.08 | (0.04, 0.14) |
| 7b | 0.86 | (0.77, 0.92) | 0.69 | (0.59, 0.77) | | 15c | | 0.84 | (0.77, 0.89) | 0.77 | (0.69, 0.84) | -0.02 | | (-0.10, 0.07) | 0.08 | (0.04, 0.14) |
| 8 | 0.80 | (0.72, 0.86) | 0.76 | (0.68, 0.83) | | 17 | | 0.77 | (0.69, 0.84) | 0.84 | (0.77, 0.89) | -0.03 | | (-0.16, 0.10) | 0.08 | (0.03, 0.13) |
| 9 | 0.72 | (0.64, 0.79) | 0.83 | (0.75, 0.88) | | 19 | | 0.64 | (0.56, 0.71) | 0.89 | (0.83, 0.93) | -0.08 | | (-0.21, 0.04) | 0.06 | (0.03, 0.10) |
| 10 | 0.66 | (0.57, 0.73) | 0.88 | (0.81, 0.92) | | 21 | | 0.55 | (0.47, 0.62) | 0.94 | (0.89, 0.96) | -0.11 | | (-0.22, 0.00) | 0.06 | (0.03, 0.10) |
| 11 | 0.56 | (0.45, 0.65) | 0.91 | (0.85, 0.95) | | 23 | | 0.43 | (0.36, 0.51) | 0.96 | (0.92, 0.98) | -0.13 | | (-0.25, 0.01) | 0.05 | (0.01, 0.08) |

a N Studies = 18; N Participants = 2,601; N major depression = 266

b The cutoff minimizes the values of the distance to the top-left corner of the ROC curvesfor HADS-D.

c The cutoff minimized the values of the distance to the top-left corner of the ROC curvesfor HADS-T was ≥ 16, but in order to be consistent with the overall analysis, we kept the same sets of paired cutoffs for comparison.

CI: confidence interval

**Supplementary Table D4.** Comparison of sensitivity and specificity estimates between HADS-D and HADS-T among studies that used a semi-structured reference standard and that participants recruited from outpatient care setting

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **HADS-Da** | | | | | | | **HADS-T** | | | | | | **HADS-T – HADS-D** | | | | |
| **Cutoff** | **Sensitivity** | **95% CI** | **Specificity** | | **95% CI** | **Cutoff** | | **Sensitivity** | **95% CI** | **Specificity** | **95% CI** | **Sensitivity** | | **95% CI** | **Specificity** | **95% CI** |
| 5 | 0.93 | (0.87, 0.96) | 0.64 | (0.59, 0.67) | | 11 | | 0.93 | (0.88, 0.95) | 0.63 | (0.59, 0.67) | 0.00 | | (-0.04, 0.04) | -0.01 | (-0.03, 0.03) |
| 6 | 0.89 | (0.82, 0.93) | 0.72 | (0.68, 0.75) | | 13 | | 0.88 | (0.82, 0.92) | 0.72 | (0.68, 0.75) | -0.01 | | (-0.06, 0.04) | 0.00 | (-0.02, 0.03) |
| 7b | 0.83 | (0.75, 0.89) | 0.79 | (0.76, 0.82) | | 15c | | 0.79 | (0.73, 0.85) | 0.80 | (0.77, 0.82) | -0.04 | | (-0.12, 0.04) | 0.01 | (-0.01, 0.03) |
| 8 | 0.73 | (0.64, 0.79) | 0.85 | (0.82, 0.87) | | 17 | | 0.72 | (0.65, 0.79) | 0.86 | (0.84, 0.88) | -0.01 | | (-0.09, 0.08) | 0.01 | (0.00, 0.04) |
| 9 | 0.61 | (0.53, 0.69) | 0.89 | (0.87, 0.91) | | 19 | | 0.58 | (0.51, 0.66) | 0.91 | (0.90, 0.93) | -0.03 | | (-0.12, 0.05) | 0.02 | (0.01, 0.04) |
| 10 | 0.51 | (0.44, 0.58) | 0.93 | (0.91, 0.94) | | 21 | | 0.44 | (0.37, 0.52) | 0.94 | (0.93, 0.95) | -0.07 | | (-0.15, 0.01) | 0.01 | (-0.00, 0.03) |
| 11 | 0.41 | (0.34, 0.49) | 0.95 | (0.94, 0.96) | | 23 | | 0.34 | (0.28, 0.40) | 0.96 | (0.95, 0.97) | -0.07 | | (-0.16, -0.01) | 0.01 | (0.00, 0.02) |

a N Studies = 37; N Participants = 6,176; N major depression = 654

b The cutoff minimizes the values of the distance to the top-left corner of the ROC curvesfor HADS-D.

c The cutoff minimized the values of the distance to the top-left corner of the ROC curvesfor HADS-T was ≥ 14, but in order to be consistent with the overall analysis, we kept the same sets of paired cutoffs for comparison.

CI: confidence interval

**Supplementary Table E.** Comparison of sensitivity and specificity estimates between HADS-D and HADS-T for pairs of optimal cutoffs and cutoffs close to the optimal cutoffs among participants from cancer studies

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **HADS-Da** | | | | | | | **HADS-T** | | | | | | **HADS-T – HADS-D** | | | | |
| **Cutoff** | **Sensitivity** | **95% CI** | **Specificity** | | **95% CI** | **Cutoff** | | **Sensitivity** | **95% CI** | **Specificity** | **95% CI** | **Sensitivity** | | **95% CI** | **Specificity** | **95% CI** |
| 5 | 0.86 | (0.82, 0.89) | 0.63 | (0.57, 0.68) | | 11 | | 0.91 | (0.87, 0.93) | 0.65 | (0.59, 0.71) | 0.05 | | (-0.00, 0.10) | 0.02 | (-0.01, 0.05) |
| 6 | 0.82 | (0.77, 0.85) | 0.72 | (0.67, 0.76) | | 13 | | 0.85 | (0.80, 0.89) | 0.73 | (0.68, 0.78) | 0.03 | | (-0.03, 0.07) | 0.01 | (-0.01, 0.04) |
| 7b | 0.77 | (0.71, 0.83) | 0.79 | (0.75, 0.83) | | 15c | | 0.79 | (0.74, 0.83) | 0.81 | (0.76, 0.84) | 0.02 | | (-0.05, 0.07) | 0.02 | (-0.01, 0.04) |
| 8 | 0.66 | (0.58, 0.72) | 0.85 | (0.81, 0.88) | | 17 | | 0.70 | (0.62, 0.78) | 0.87 | (0.84, 0.90) | 0.03 | | (-0.01, 0.17) | 0.02 | (0.01, 0.05) |
| 9 | 0.55 | (0.47, 0.63) | 0.90 | (0.87, 0.92) | | 19 | | 0.55 | (0.48, 0.61) | 0.92 | (0.90, 0.94) | 0.00 | | (-0.07, 0.09) | 0.02 | (0.01, 0.04) |
| 10 | 0.48 | (0.40, 0.57) | 0.93 | (0.90, 0.95) | | 21 | | 0.43 | (0.37, 0.49) | 0.95 | (0.93, 0.96) | -0.05 | | (-0.13, 0.03) | 0.02 | (0.00, 0.04) |
| 11 | 0.36 | (0.28, 0.45) | 0.95 | (0.93, 0.96) | | 23 | | 0.35 | (0.29, 0.42) | 0.97 | (0.95, 0.98) | -0.01 | | (-0.08, 0.07) | 0.02 | (0.00, 0.03) |

a N Studies = 23; N Participants = 5,608; N major depression = 420

b The cutoff minimizes the values of the distance to the top-left corner of the ROC curvesfor HADS-D.

c The cutoff minimizes the values of the distance to the top-left corner of the ROC curvesfor HADS-T.

CI: confidence interval

**Supplementary Table F1. Coefficients and p-values for one-stage meta-regressions assessing interactions between subgrouping variables and logit(sensitivity) and logit(1 – specificity), among studies used a semi-structured reference standard**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cutoff** | **5** | | **6** | | **7** | | **8** | | **9** | | **10** | | **11** | | **12** | | **13** | | **14** | | **15** | |
|  | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** |
| d0a | -0.234 | 0.347 | -0.573 | 0.023 | -0.905 | 0.001 | -1.309 | 0.000 | -1.740 | 0.000 | -1.957 | 0.000 | -2.484 | 0.000 | -2.941 | 0.000 | -3.177 | 0.000 | -3.441 | 0.000 | -3.825 | 0.000 |
| d0age | 0.005 | 0.014 | 0.004 | 0.033 | 0.002 | 0.274 | 0.002 | 0.401 | 0.002 | 0.532 | 0.000 | 0.941 | 0.001 | 0.729 | 0.005 | 0.204 | 0.005 | 0.300 | 0.006 | 0.317 | 0.013 | 0.064 |
| d0maleb | -0.085 | 0.110 | -0.078 | 0.159 | -0.062 | 0.293 | -0.091 | 0.155 | -0.075 | 0.298 | -0.122 | 0.135 | -0.034 | 0.719 | 0.011 | 0.918 | -0.022 | 0.868 | 0.028 | 0.862 | -0.284 | 0.176 |
| d0setting.outc | -0.176 | 0.639 | -0.158 | 0.676 | -0.262 | 0.529 | -0.494 | 0.251 | -0.129 | 0.768 | -0.194 | 0.705 | -0.413 | 0.480 | -0.676 | 0.326 | -0.170 | 0.801 | 0.379 | 0.601 | -0.285 | 0.798 |
| d0setting.nond | -0.611 | 0.000 | -0.562 | 0.000 | -0.534 | 0.002 | -0.510 | 0.002 | -0.468 | 0.009 | -0.571 | 0.006 | -0.532 | 0.013 | -0.617 | 0.007 | -0.733 | 0.001 | -0.845 | 0.004 | -1.379 | 0.000 |
| d0setting.mixe | -1.447 | 0.000 | -1.534 | 0.000 | -1.651 | 0.000 | -1.894 | 0.000 | -1.733 | 0.000 | -2.001 | 0.000 | -2.032 | 0.000 | -1.998 | 0.000 | -2.377 | 0.000 | -2.301 | 0.002 | -3.467 | 0.002 |
| d0cancerf | -0.718 | 0.082 | -0.851 | 0.040 | -0.868 | 0.056 | -0.907 | 0.040 | -0.703 | 0.127 | -0.935 | 0.089 | -0.841 | 0.129 | -1.373 | 0.026 | -1.195 | 0.055 | -1.714 | 0.057 | -2.153 | 0.067 |
| d0.Q.D1.Bg | -0.219 | 0.193 | -0.253 | 0.137 | -0.321 | 0.085 | -0.162 | 0.374 | -0.019 | 0.922 | 0.050 | 0.823 | 0.098 | 0.671 | -0.091 | 0.707 | -0.063 | 0.807 | -0.202 | 0.549 | -0.215 | 0.593 |
| d0.Q.D2.Ah | 0.102 | 0.509 | 0.095 | 0.540 | 0.080 | 0.635 | 0.065 | 0.689 | 0.045 | 0.793 | 0.071 | 0.720 | 0.084 | 0.675 | 0.118 | 0.563 | 0.073 | 0.727 | -0.110 | 0.681 | -0.256 | 0.426 |
| d0.Q.D3.Ai | -0.153 | 0.626 | -0.164 | 0.603 | -0.077 | 0.825 | 0.096 | 0.772 | 0.279 | 0.417 | 0.295 | 0.467 | 0.282 | 0.492 | 0.392 | 0.348 | 0.201 | 0.630 | 0.059 | 0.915 | 0.407 | 0.499 |
| d0.Q.D3.Bj | 0.074 | 0.707 | 0.142 | 0.470 | 0.099 | 0.643 | 0.211 | 0.303 | 0.187 | 0.382 | 0.115 | 0.646 | 0.162 | 0.514 | 0.260 | 0.302 | 0.321 | 0.196 | 0.146 | 0.658 | 0.305 | 0.409 |
| d0.Q.D4.Bk | 0.088 | 0.588 | 0.033 | 0.841 | 0.034 | 0.849 | 0.069 | 0.690 | 0.060 | 0.743 | 0.024 | 0.909 | -0.008 | 0.970 | -0.104 | 0.651 | -0.199 | 0.400 | -0.300 | 0.320 | -0.580 | 0.125 |
| d1l | -0.053 | 0.751 | -0.099 | 0.556 | -0.051 | 0.783 | -0.105 | 0.557 | -0.143 | 0.447 | -0.128 | 0.561 | -0.119 | 0.593 | -0.267 | 0.251 | -0.267 | 0.268 | -0.421 | 0.185 | -0.430 | 0.272 |
| d1age | 2.824 | 0.000 | 2.709 | 0.000 | 2.134 | 0.002 | 1.567 | 0.005 | 0.643 | 0.217 | 0.276 | 0.543 | 0.139 | 0.774 | -0.372 | 0.450 | -1.454 | 0.004 | -2.192 | 0.000 | -2.264 | 0.000 |
| d1male | 0.012 | 0.160 | 0.011 | 0.171 | 0.010 | 0.175 | 0.012 | 0.062 | 0.013 | 0.024 | 0.013 | 0.010 | 0.007 | 0.174 | 0.007 | 0.220 | 0.011 | 0.045 | 0.011 | 0.073 | 0.009 | 0.206 |
| d1setting.out | 0.057 | 0.811 | 0.269 | 0.220 | 0.117 | 0.542 | 0.102 | 0.560 | 0.159 | 0.328 | 0.108 | 0.476 | 0.115 | 0.453 | 0.195 | 0.213 | 0.283 | 0.085 | 0.481 | 0.006 | 0.256 | 0.193 |
| d1setting.non | 2.001 | 0.112 | 1.370 | 0.168 | 0.449 | 0.569 | 0.621 | 0.344 | 0.374 | 0.532 | 0.023 | 0.965 | -0.078 | 0.889 | -0.172 | 0.759 | 0.005 | 0.993 | 0.496 | 0.393 | -0.116 | 0.862 |
| d1setting.mix | -0.719 | 0.131 | -0.878 | 0.054 | -0.696 | 0.086 | -0.694 | 0.035 | -0.598 | 0.050 | -0.731 | 0.005 | -0.594 | 0.031 | -0.545 | 0.049 | -0.281 | 0.296 | -0.180 | 0.531 | -0.254 | 0.403 |
| d1cancer | -2.179 | 0.003 | -2.337 | 0.001 | -2.319 | 0.001 | -2.121 | 0.000 | -1.855 | 0.001 | -2.077 | 0.000 | -2.470 | 0.000 | -2.581 | 0.000 | -2.476 | 0.000 | -2.141 | 0.006 | -2.903 | 0.009 |
| d1.Q.D1.B | -0.513 | 0.612 | -0.374 | 0.694 | -0.786 | 0.369 | -0.662 | 0.357 | -0.792 | 0.249 | -0.776 | 0.184 | -0.459 | 0.469 | -0.699 | 0.277 | -0.921 | 0.179 | -0.761 | 0.306 | -0.752 | 0.347 |
| d1.Q.D2.A | -0.442 | 0.360 | -0.287 | 0.527 | -0.432 | 0.306 | -0.567 | 0.108 | -0.432 | 0.197 | -0.287 | 0.320 | -0.235 | 0.451 | -0.121 | 0.699 | -0.095 | 0.762 | -0.063 | 0.853 | 0.315 | 0.379 |
| d1.Q.D3.A | -0.098 | 0.806 | -0.514 | 0.179 | -0.398 | 0.265 | -0.544 | 0.065 | -0.240 | 0.389 | -0.425 | 0.076 | -0.467 | 0.068 | -0.335 | 0.188 | -0.302 | 0.236 | -0.220 | 0.420 | -0.270 | 0.355 |
| d1.Q.D3.B | -0.866 | 0.243 | -0.399 | 0.575 | -0.044 | 0.950 | -0.476 | 0.407 | -0.742 | 0.184 | -0.461 | 0.340 | 0.019 | 0.971 | 0.043 | 0.934 | -0.265 | 0.611 | -0.410 | 0.464 | -0.114 | 0.846 |
| d1.Q.D4.B | -0.177 | 0.726 | -0.329 | 0.488 | -0.228 | 0.614 | 0.017 | 0.963 | 0.071 | 0.842 | 0.026 | 0.930 | -0.167 | 0.608 | -0.038 | 0.905 | 0.296 | 0.350 | 0.359 | 0.288 | 0.449 | 0.198 |

ad0 corresponds to the model coefficient for logit(1 – specificity)

bmale refers to the model coefficient for comparison of male vs. female

coutp refers to the model coefficient for comparison of outpatient specialty care setting vs. inpatient specialty care setting

cnonmed refers to the model coefficient for comparison of non-medical care setting vs. inpatient specialty care setting

emix refers to the model coefficient for comparison of Inpatient/outpatient mixed setting vs. inpatient specialty care setting

fcancer refers to the model coefficient for comparison of participants diagnosed with cancer vs. participants not diagnosed with cancer

gQ.D1.B refers to the model coefficient for comparison of participants had “low” rating on QUADAS-2 Domain 1-Overall risk of bias vs. “unclear” or “high”.

hQ.D2.A refers to the model coefficient for comparison of participants had “low” rating on QUADAS-2 Domain 2-Applicability concerns vs. “unclear” or “high”.

iQ.D3.A refers to the model coefficient for comparison of participants had “low” rating on QUADAS-2 Domain 3-Applicability concerns vs. “unclear” or “high”.

jQ.D3.B refers to the model coefficient for comparison of participants had “low” rating on QUADAS-2 Domain 3-Overall risk of bias vs. “unclear” or “high”.

kQ.D4.B refers to the model coefficient for comparison of participants had “low” rating on QUADAS-2 Domain 4-Overall risk of bias vs. “unclear” or “high”.

ld1 corresponds to the model coefficient for logit(sensitivity)

**Supplementary Table F2. Coefficients and p-values for one-stage meta-regressions assessing interactions between subgrouping variables and logit(sensitivity) and logit(1 – specificity), among studies used a fully structured reference standard**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cutoff** | **5** | | **6** | | **7** | | **8** | | **9** | | **10** | | **11** | | **12** | | **13** | | **14** | | **15** | |
|  | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** |
| d0a | -1.738 | 0.035 | -1.929 | 0.017 | -2.076 | 0.000 | -3.667 | 0.000 | -3.763 | 0.001 | -4.410 | 0.000 | -5.347 | 0.000 | -5.445 | 0.000 | -5.161 | 0.004 | -18.024 | 0.992 | -18.185 | 0.992 |
| d0age | -0.003 | 0.287 | -0.001 | 0.839 | -0.001 | 0.848 | 0.000 | 0.964 | 0.002 | 0.528 | 0.002 | 0.558 | 0.001 | 0.840 | -0.004 | 0.448 | -0.007 | 0.248 | -0.004 | 0.592 | 0.010 | 0.330 |
| d0maleb | -0.223 | 0.001 | -0.232 | 0.001 | -0.270 | 0.000 | -0.285 | 0.000 | -0.290 | 0.001 | -0.209 | 0.029 | -0.198 | 0.066 | -0.279 | 0.029 | -0.100 | 0.508 | -0.159 | 0.393 | -0.190 | 0.438 |
| d0setting.outc | 0.881 | 0.284 | 0.791 | 0.318 | 0.483 | 0.321 | 1.122 | 0.192 | 1.073 | 0.303 | 0.951 | 0.155 | 1.009 | 0.233 | 0.500 | 0.633 | -0.189 | 0.890 | -14.415 | 0.993 | -13.855 | 0.993 |
| d0cancerd | -0.045 | 0.583 | 0.001 | 0.987 | -0.005 | 0.958 | -0.012 | 0.900 | -0.058 | 0.587 | -0.054 | 0.656 | -0.160 | 0.236 | -0.054 | 0.737 | 0.011 | 0.956 | -0.411 | 0.080 | -0.493 | 0.137 |
| d0.Q.D1.Be | -8.461 | 0.654 | -8.251 | 0.480 | -10.412 | 0.810 | -4.026 | 0.025 | -3.068 | 0.092 | -2.515 | 0.099 | -1.116 | 0.474 | -9.097 | 0.898 | -7.938 | 0.991 | -34.717 | 1.000 | -27.370 | 1.000 |
| d0.Q.D3.Af | 0.247 | 0.619 | -0.004 | 0.994 | 0.294 | 0.292 | 0.551 | 0.345 | 0.104 | 0.882 | 0.648 | 0.169 | 0.930 | 0.150 | 0.320 | 0.697 | 0.267 | 0.777 | -13.479 | 0.993 | -13.106 | 0.994 |
| d0.Q.D3.Bg | 0.883 | 0.068 | 0.876 | 0.063 | 0.556 | 0.045 | 1.350 | 0.018 | 1.249 | 0.073 | 0.904 | 0.059 | 1.174 | 0.077 | 0.683 | 0.416 | 0.672 | 0.485 | -13.504 | 0.993 | -13.428 | 0.993 |
| d0.Q.D4.Bh | 1.372 | 0.007 | 1.353 | 0.008 | 0.934 | 0.001 | 2.085 | 0.002 | 2.129 | 0.010 | 1.640 | 0.002 | 2.156 | 0.006 | 2.542 | 0.018 | 2.028 | 0.082 | 28.763 | 0.991 | 27.688 | 0.991 |
| d1i | 2.317 | 0.000 | 2.219 | 0.001 | 1.923 | 0.000 | 3.402 | 0.000 | 3.061 | 0.003 | 2.829 | 0.001 | 3.504 | 0.006 | 3.380 | 0.021 | 2.808 | 0.108 | 15.545 | 0.993 | 15.082 | 0.994 |
| d1age | -0.595 | 0.238 | -0.718 | 0.159 | -0.413 | 0.131 | -1.456 | 0.025 | -1.338 | 0.101 | -0.694 | 0.148 | -0.978 | 0.146 | -0.315 | 0.711 | -0.332 | 0.733 | 13.330 | 0.993 | 12.600 | 0.994 |
| d1male | 15.672 | 0.677 | 16.074 | 0.489 | 17.465 | 0.840 | 3.455 | 0.049 | 2.238 | 0.202 | 0.553 | 0.678 | -1.460 | 0.287 | -1.616 | 0.322 | -2.769 | 0.128 | -4.146 | 1.000 | -24.091 | 1.000 |
| d1setting.out | 0.012 | 0.514 | -0.006 | 0.730 | -0.001 | 0.937 | 0.012 | 0.375 | 0.016 | 0.203 | 0.003 | 0.791 | 0.003 | 0.817 | -0.004 | 0.776 | 0.000 | 0.990 | 0.022 | 0.246 | 0.038 | 0.153 |
| d1cancer | 0.140 | 0.768 | 0.119 | 0.780 | 0.372 | 0.333 | 0.282 | 0.405 | 0.269 | 0.367 | 0.609 | 0.031 | 0.397 | 0.165 | 0.634 | 0.044 | 0.599 | 0.079 | 1.671 | 0.000 | 1.760 | 0.004 |
| d1.Q.D1.B | -0.037 | 0.944 | 0.104 | 0.829 | -0.246 | 0.557 | -0.190 | 0.630 | 0.014 | 0.969 | 0.209 | 0.561 | 0.559 | 0.136 | 0.477 | 0.254 | 0.605 | 0.205 | 0.950 | 0.102 | 1.874 | 0.058 |
| d1.Q.D3.A | -8.723 | 0.644 | -8.547 | 0.463 | -9.226 | 0.831 | -3.508 | 0.003 | -2.806 | 0.017 | -1.245 | 0.148 | -1.064 | 0.255 | -7.896 | 0.911 | -7.744 | 0.992 | -10.277 | 1.000 | -1.384 | 1.000 |
| d1.Q.D3.B | -7.461 | 0.692 | -7.667 | 0.510 | -9.154 | 0.832 | -1.839 | 0.071 | -1.781 | 0.088 | -1.173 | 0.152 | -0.359 | 0.689 | -7.835 | 0.912 | -7.170 | 0.992 | -10.060 | 1.000 | -1.144 | 1.000 |
| d1.Q.D4.B | -6.147 | 0.744 | -5.781 | 0.620 | -6.483 | 0.881 | -0.226 | 0.824 | -0.080 | 0.940 | 0.010 | 0.990 | 0.746 | 0.398 | 7.613 | 0.915 | 7.483 | 0.992 | 9.332 | 1.000 | 0.143 | 1.000 |

ad0 corresponds to the model coefficient for logit(1 – specificity)

bmale refers to the model coefficient for comparison of male vs. female

coutp refers to the model coefficient for comparison of outpatient specialty care setting vs. inpatient specialty care setting

dcancer refers to the model coefficient for comparison of participants diagnosed with cancer vs. participants not diagnosed with cancer

eQ.D1.B refers to the model coefficient for comparison of participants had “low” rating on QUADAS-2 Domain 1-Overall risk of bias vs. “unclear” or “high”.

fQ.D3.A refers to the model coefficient for comparison of participants had “low” rating on QUADAS-2 Domain 3-Applicability concerns vs. “unclear” or “high”.

gQ.D3.B refers to the model coefficient for comparison of participants had “low” rating on QUADAS-2 Domain 3-Overall risk of bias vs. “unclear” or “high”.

hQ.D4.B refers to the model coefficient for comparison of participants had “low” rating on QUADAS-2 Domain 4-Overall risk of bias vs. “unclear” or “high”.

id1 corresponds to the model coefficient for logit(sensitivity)

**Supplementary Table F3. Coefficients and p-values for one-stage meta-regressions assessing interactions between subgrouping variables and logit(sensitivity) and logit(1 – specificity), among studies used the MINI**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cutoff** | **5** | | **6** | | **7** | | **8** | | **9** | | **10** | | **11** | | **12** | | **13** | | **14** | | **15** | |
|  | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** |
| d0a | -0.631 | 0.001 | -1.134 | 0.000 | -1.737 | 0.000 | -2.215 | 0.000 | -2.847 | 0.000 | -3.127 | 0.000 | -3.696 | 0.000 | -3.935 | 0.000 | -4.234 | 0.000 | -4.665 | 0.000 | -4.835 | 0.000 |
| d0age | 0.008 | 0.000 | 0.008 | 0.000 | 0.010 | 0.000 | 0.010 | 0.000 | 0.013 | 0.000 | 0.011 | 0.005 | 0.014 | 0.002 | 0.012 | 0.032 | 0.011 | 0.088 | 0.011 | 0.162 | 0.007 | 0.494 |
| d0maleb | -0.301 | 0.000 | -0.259 | 0.000 | -0.238 | 0.000 | -0.300 | 0.000 | -0.460 | 0.000 | -0.481 | 0.000 | -0.636 | 0.000 | -0.693 | 0.000 | -0.808 | 0.000 | -0.729 | 0.001 | -0.558 | 0.038 |
| d0setting.outc | 0.055 | 0.844 | 0.080 | 0.788 | 0.113 | 0.697 | 0.088 | 0.784 | -0.253 | 0.524 | -0.052 | 0.901 | -0.266 | 0.569 | 0.052 | 0.926 | 0.393 | 0.537 | 0.794 | 0.261 | 1.383 | 0.101 |
| d0setting.nond | 0.028 | 0.854 | -0.083 | 0.613 | -0.078 | 0.627 | -0.102 | 0.566 | -0.095 | 0.654 | -0.142 | 0.531 | -0.217 | 0.375 | -0.315 | 0.306 | -0.767 | 0.041 | -0.989 | 0.031 | -1.209 | 0.043 |
| d0setting.mixe | 0.111 | 0.645 | 0.034 | 0.897 | 0.136 | 0.587 | 0.051 | 0.850 | -0.021 | 0.949 | 0.102 | 0.762 | 0.216 | 0.538 | -0.031 | 0.946 | -0.375 | 0.478 | -0.328 | 0.587 | -1.102 | 0.223 |
| d0cancerf | -0.502 | 0.242 | -0.694 | 0.136 | -0.809 | 0.091 | -0.912 | 0.098 | -0.918 | 0.158 | -1.138 | 0.128 | -2.043 | 0.064 | -1.611 | 0.166 | -1.237 | 0.298 | -11.535 | 0.892 | -11.042 | 0.960 |
| d0.Q.D1.Bg | -0.177 | 0.434 | -0.092 | 0.715 | -0.249 | 0.313 | -0.192 | 0.479 | -0.312 | 0.342 | -0.567 | 0.113 | -0.626 | 0.112 | -0.869 | 0.087 | -1.367 | 0.027 | -1.104 | 0.099 | -1.674 | 0.087 |
| d0.Q.D2.Ah | -0.160 | 0.353 | 0.036 | 0.845 | 0.081 | 0.653 | 0.131 | 0.507 | 0.201 | 0.397 | 0.312 | 0.221 | 0.483 | 0.081 | 0.377 | 0.276 | 0.330 | 0.419 | 0.299 | 0.533 | 0.237 | 0.693 |
| d0.Q.D3.Ai | -0.200 | 0.184 | -0.187 | 0.248 | -0.153 | 0.325 | -0.080 | 0.638 | -0.122 | 0.551 | -0.134 | 0.533 | -0.112 | 0.617 | -0.204 | 0.472 | -0.081 | 0.801 | -0.067 | 0.858 | 0.027 | 0.954 |
| d0.Q.D3.Bj | -0.116 | 0.467 | -0.065 | 0.707 | -0.046 | 0.782 | -0.094 | 0.609 | -0.030 | 0.890 | 0.048 | 0.837 | 0.122 | 0.625 | -0.039 | 0.903 | -0.219 | 0.560 | -0.324 | 0.453 | -0.412 | 0.433 |
| d0.Q.D4.Bk | -0.015 | 0.914 | -0.109 | 0.481 | -0.006 | 0.968 | 0.004 | 0.983 | 0.050 | 0.797 | 0.145 | 0.481 | 0.159 | 0.468 | 0.256 | 0.349 | 0.458 | 0.144 | 0.648 | 0.077 | 0.554 | 0.226 |
| d1l | 0.072 | 0.655 | 0.057 | 0.742 | 0.123 | 0.468 | 0.217 | 0.233 | 0.343 | 0.116 | 0.192 | 0.409 | 0.100 | 0.690 | 0.193 | 0.539 | 0.053 | 0.883 | -0.020 | 0.961 | -0.398 | 0.477 |
| d1age | 1.609 | 0.006 | 1.225 | 0.010 | 0.453 | 0.309 | -0.274 | 0.529 | -0.920 | 0.027 | -1.407 | 0.001 | -1.633 | 0.000 | -2.375 | 0.000 | -2.950 | 0.000 | -3.744 | 0.000 | -3.879 | 0.000 |
| d1male | 0.007 | 0.339 | 0.008 | 0.196 | 0.011 | 0.066 | 0.015 | 0.008 | 0.017 | 0.001 | 0.017 | 0.001 | 0.016 | 0.005 | 0.019 | 0.001 | 0.019 | 0.002 | 0.024 | 0.001 | 0.019 | 0.018 |
| d1setting.out | 0.081 | 0.698 | -0.112 | 0.529 | -0.265 | 0.093 | -0.219 | 0.135 | -0.206 | 0.136 | -0.206 | 0.132 | -0.073 | 0.601 | 0.042 | 0.774 | -0.108 | 0.498 | -0.036 | 0.835 | 0.106 | 0.587 |
| d1setting.non | -0.245 | 0.684 | 0.191 | 0.700 | 0.296 | 0.540 | 0.338 | 0.487 | 0.103 | 0.816 | 0.185 | 0.669 | 0.462 | 0.289 | 0.270 | 0.564 | -0.024 | 0.962 | -0.137 | 0.797 | -0.306 | 0.616 |
| d1setting.mix | 0.244 | 0.516 | 0.072 | 0.804 | 0.159 | 0.582 | 0.220 | 0.448 | 0.112 | 0.675 | -0.108 | 0.681 | -0.314 | 0.242 | -0.137 | 0.640 | -0.050 | 0.877 | 0.156 | 0.649 | -0.012 | 0.974 |
| d1cancer | -0.505 | 0.414 | -0.790 | 0.115 | -0.741 | 0.137 | -0.347 | 0.500 | -0.486 | 0.322 | -0.374 | 0.448 | -0.062 | 0.900 | 0.297 | 0.575 | 0.500 | 0.376 | 0.184 | 0.771 | 0.167 | 0.813 |
| d1.Q.D1.B | -1.439 | 0.106 | -1.086 | 0.128 | -0.633 | 0.385 | -0.445 | 0.559 | -1.402 | 0.073 | -1.341 | 0.102 | -2.220 | 0.054 | -1.860 | 0.114 | -1.508 | 0.206 | -0.850 | 0.479 | -0.427 | 0.730 |
| d1.Q.D2.A | 0.090 | 0.882 | -0.008 | 0.987 | 0.288 | 0.571 | 0.015 | 0.976 | 0.249 | 0.581 | 0.392 | 0.377 | 0.615 | 0.171 | 0.948 | 0.049 | 0.809 | 0.114 | 0.511 | 0.342 | 0.599 | 0.303 |
| d1.Q.D3.A | 0.308 | 0.453 | -0.003 | 0.993 | -0.072 | 0.815 | 0.004 | 0.989 | 0.130 | 0.653 | 0.173 | 0.542 | 0.124 | 0.668 | 0.300 | 0.344 | 0.493 | 0.156 | 0.374 | 0.302 | 0.380 | 0.351 |
| d1.Q.D3.B | -0.408 | 0.234 | -0.265 | 0.314 | -0.070 | 0.793 | -0.159 | 0.558 | -0.003 | 0.992 | 0.183 | 0.461 | 0.289 | 0.248 | 0.244 | 0.371 | 0.175 | 0.550 | 0.169 | 0.586 | 0.148 | 0.657 |
| d1.Q.D4.B | -0.243 | 0.516 | -0.307 | 0.290 | -0.274 | 0.339 | -0.229 | 0.439 | -0.182 | 0.508 | -0.102 | 0.707 | -0.196 | 0.480 | -0.343 | 0.269 | -0.150 | 0.654 | -0.033 | 0.921 | 0.173 | 0.639 |

ad0 corresponds to the model coefficient for logit(1 – specificity)

bmale refers to the model coefficient for comparison of male vs. female

coutp refers to the model coefficient for comparison of outpatient specialty care setting vs. inpatient specialty care setting

cnonmed refers to the model coefficient for comparison of non-medical care setting vs. inpatient specialty care setting

emix refers to the model coefficient for comparison of Inpatient/outpatient mixed setting vs. inpatient specialty care setting

fcancer refers to the model coefficient for comparison of participants diagnosed with cancer vs. participants not diagnosed with cancer

gQ.D1.B refers to the model coefficient for comparison of participants had “low” rating on QUADAS-2 Domain 1-Overall risk of bias vs. “unclear” or “high”.

hQ.D2.A refers to the model coefficient for comparison of participants had “low” rating on QUADAS-2 Domain 2-Applicability concerns vs. “unclear” or “high”.

iQ.D3.A refers to the model coefficient for comparison of participants had “low” rating on QUADAS-2 Domain 3-Applicability concerns vs. “unclear” or “high”.

jQ.D3.B refers to the model coefficient for comparison of participants had “low” rating on QUADAS-2 Domain 3-Overall risk of bias vs. “unclear” or “high”.

kQ.D4.B refers to the model coefficient for comparison of participants had “low” rating on QUADAS-2 Domain 4-Overall risk of bias vs. “unclear” or “high”.

ld1 corresponds to the model coefficient for logit(sensitivity)

**Supplementary Table G1. Coefficients and p-values for one-stage meta-regressions assessing interactions between subgrouping variables, countries, and logit(sensitivity) and logit(1 – specificity), among countries had > 500 participants and studies used a semi-structured reference standard**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cutoff** | **5** | | **6** | | **7** | | **8** | | **9** | | **10** | | **11** | | **12** | | **13** | | **14** | | **15** | |
|  | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** |
| d0a | -0.679 | 0.001 | -1.074 | 0.000 | -1.359 | 0.000 | -1.609 | 0.000 | -2.074 | 0.000 | -2.313 | 0.000 | -2.901 | 0.000 | -3.568 | 0.000 | -3.794 | 0.000 | -3.396 | 0.000 | -4.386 | 0.000 |
| d0age | 0.005 | 0.008 | 0.005 | 0.023 | 0.002 | 0.374 | 0.000 | 0.862 | 0.001 | 0.674 | -0.003 | 0.342 | -0.001 | 0.739 | 0.005 | 0.262 | 0.004 | 0.543 | -0.003 | 0.621 | 0.014 | 0.119 |
| d0maleb | -0.087 | 0.144 | -0.099 | 0.111 | -0.086 | 0.204 | -0.125 | 0.091 | -0.086 | 0.302 | -0.113 | 0.237 | -0.003 | 0.976 | 0.090 | 0.497 | 0.087 | 0.585 | 0.163 | 0.404 | -0.289 | 0.284 |
| d0setting.outc | -0.196 | 0.084 | -0.201 | 0.092 | -0.181 | 0.172 | -0.210 | 0.109 | -0.162 | 0.288 | -0.143 | 0.389 | -0.123 | 0.525 | -0.247 | 0.304 | -0.338 | 0.214 | -0.651 | 0.082 | -1.400 | 0.054 |
| d0setting.nond | -0.317 | 0.206 | -0.370 | 0.166 | -0.250 | 0.390 | -0.534 | 0.076 | -0.395 | 0.264 | -0.571 | 0.159 | -0.304 | 0.509 | -0.147 | 0.797 | -0.214 | 0.749 | -0.476 | 0.549 | -0.857 | 0.517 |
| d0setting.mixe | -0.251 | 0.277 | -0.397 | 0.103 | -0.384 | 0.153 | -0.457 | 0.097 | -0.280 | 0.373 | -0.397 | 0.261 | -0.348 | 0.392 | -0.920 | 0.080 | -0.768 | 0.175 | -1.431 | 0.085 | -1.471 | 0.243 |
| d0cancerf | 0.013 | 0.930 | -0.058 | 0.710 | -0.194 | 0.252 | -0.140 | 0.415 | 0.023 | 0.907 | -0.098 | 0.647 | -0.012 | 0.962 | -0.338 | 0.281 | -0.222 | 0.531 | -0.778 | 0.129 | -1.303 | 0.213 |
| d0.Q.D1.Bg | 0.088 | 0.449 | 0.171 | 0.160 | 0.179 | 0.174 | 0.177 | 0.184 | 0.098 | 0.524 | 0.173 | 0.292 | 0.144 | 0.439 | 0.266 | 0.226 | 0.260 | 0.298 | 0.022 | 0.940 | -0.394 | 0.329 |
| d0.Q.D2.Ah | -1.135 | 0.055 | -0.782 | 0.216 | -1.296 | 0.127 | -0.675 | 0.428 | -0.513 | 0.566 | -0.281 | 0.807 | -0.442 | 0.711 | 0.044 | 0.973 | -16.222 | 0.903 | -14.972 | 0.997 | -14.004 | 0.997 |
| d0.Q.D3.Ai | -0.213 | 0.241 | -0.220 | 0.247 | -0.224 | 0.280 | -0.243 | 0.242 | -0.315 | 0.192 | -0.422 | 0.106 | -0.223 | 0.443 | -0.316 | 0.378 | -0.404 | 0.306 | -0.855 | 0.107 | -0.716 | 0.452 |
| d0.Q.D3.Bj | -0.207 | 0.083 | -0.243 | 0.052 | -0.323 | 0.019 | -0.343 | 0.013 | -0.348 | 0.029 | -0.452 | 0.008 | -0.558 | 0.005 | -0.830 | 0.001 | -0.905 | 0.001 | -1.277 | 0.000 | -1.994 | 0.001 |
| d0.Q.D4.Bk | -0.231 | 0.049 | -0.187 | 0.127 | -0.156 | 0.244 | -0.176 | 0.196 | -0.261 | 0.099 | -0.174 | 0.301 | -0.176 | 0.362 | -0.223 | 0.347 | -0.273 | 0.319 | -0.202 | 0.547 | -0.194 | 0.746 |
| d0Germanyl | 0.697 | 0.000 | 0.718 | 0.000 | 0.892 | 0.000 | 0.928 | 0.000 | 0.906 | 0.000 | 1.166 | 0.000 | 1.262 | 0.000 | 1.386 | 0.000 | 1.287 | 0.000 | 1.565 | 0.000 | 2.364 | 0.000 |
| d0Spain | 0.377 | 0.039 | 0.467 | 0.014 | 0.478 | 0.022 | 0.585 | 0.005 | 0.691 | 0.004 | 0.830 | 0.001 | 0.924 | 0.002 | 1.412 | 0.000 | 1.460 | 0.000 | 1.725 | 0.000 | 2.658 | 0.002 |
| d0Norway | -1.035 | 0.009 | -1.296 | 0.003 | -1.681 | 0.001 | -1.539 | 0.005 | -1.586 | 0.015 | -1.812 | 0.037 | -2.475 | 0.032 | -2.336 | 0.056 | -16.623 | 0.957 | -15.693 | 0.992 | -14.974 | 0.992 |
| d0Japan | 1.304 | 0.000 | 1.402 | 0.000 | 1.639 | 0.000 | 1.721 | 0.000 | 1.562 | 0.000 | 2.089 | 0.000 | 1.634 | 0.000 | 1.946 | 0.001 | 1.952 | 0.003 | 2.934 | 0.001 | 3.352 | 0.060 |
| d1m | 3.269 | 0.000 | 2.409 | 0.001 | 1.819 | 0.005 | 0.932 | 0.118 | 0.108 | 0.852 | -0.241 | 0.643 | -0.090 | 0.852 | -0.713 | 0.161 | -1.319 | 0.020 | -1.879 | 0.001 | -2.031 | 0.001 |
| d1age | -0.003 | 0.698 | 0.001 | 0.866 | -0.003 | 0.685 | 0.008 | 0.266 | 0.010 | 0.141 | 0.006 | 0.293 | -0.002 | 0.733 | -0.002 | 0.771 | -0.001 | 0.927 | -0.006 | 0.362 | -0.004 | 0.602 |
| d1male | -0.014 | 0.959 | 0.297 | 0.244 | 0.085 | 0.693 | 0.055 | 0.781 | 0.142 | 0.442 | 0.067 | 0.701 | 0.005 | 0.977 | 0.011 | 0.951 | 0.091 | 0.631 | 0.362 | 0.078 | 0.174 | 0.447 |
| d1setting.out | -0.211 | 0.580 | -0.005 | 0.988 | 0.076 | 0.798 | -0.001 | 0.997 | 0.041 | 0.876 | -0.127 | 0.600 | -0.033 | 0.891 | -0.049 | 0.847 | -0.012 | 0.964 | 0.116 | 0.696 | -0.092 | 0.778 |
| d1setting.non | -0.874 | 0.138 | -1.039 | 0.068 | -1.082 | 0.031 | -1.163 | 0.013 | -1.146 | 0.016 | -1.320 | 0.003 | -1.257 | 0.006 | -1.546 | 0.006 | -1.467 | 0.023 | -1.328 | 0.064 | -2.026 | 0.068 |
| d1setting.mix | 0.554 | 0.425 | 0.607 | 0.322 | 0.147 | 0.767 | 0.047 | 0.920 | -0.128 | 0.779 | -0.203 | 0.639 | 0.000 | 0.999 | -0.248 | 0.611 | -0.611 | 0.285 | -0.445 | 0.470 | -0.592 | 0.398 |
| d1cancer | 0.418 | 0.395 | 0.411 | 0.355 | 0.027 | 0.945 | -0.147 | 0.677 | -0.385 | 0.255 | -0.471 | 0.138 | -0.555 | 0.077 | -0.699 | 0.039 | -0.552 | 0.123 | -0.707 | 0.067 | -0.498 | 0.246 |
| d1.Q.D1.B | -0.665 | 0.108 | -0.806 | 0.034 | -0.399 | 0.243 | -0.439 | 0.165 | -0.092 | 0.760 | -0.032 | 0.908 | -0.130 | 0.620 | 0.210 | 0.444 | 0.232 | 0.418 | 0.420 | 0.166 | 0.394 | 0.240 |
| d1.Q.D2.A | -3.330 | 0.023 | -2.686 | 0.060 | -1.044 | 0.446 | -0.514 | 0.702 | 0.150 | 0.912 | 0.968 | 0.464 | -12.405 | 0.989 | -13.475 | 0.996 | -16.532 | 0.949 | -16.036 | 0.999 | -15.623 | 0.999 |
| d1.Q.D3.A | -1.056 | 0.023 | -1.110 | 0.008 | -1.360 | 0.000 | -1.408 | 0.000 | -1.194 | 0.002 | -1.151 | 0.002 | -1.147 | 0.002 | -1.040 | 0.011 | -0.700 | 0.102 | -0.430 | 0.343 | -0.243 | 0.636 |
| d1.Q.D3.B | -0.634 | 0.083 | -0.260 | 0.432 | -0.174 | 0.555 | -0.269 | 0.321 | -0.032 | 0.900 | 0.103 | 0.668 | -0.011 | 0.962 | 0.033 | 0.895 | 0.102 | 0.703 | 0.183 | 0.522 | 0.158 | 0.632 |
| d1.Q.D4.B | -0.529 | 0.164 | -0.406 | 0.239 | 0.007 | 0.981 | 0.121 | 0.658 | 0.124 | 0.638 | 0.370 | 0.130 | 0.218 | 0.353 | 0.267 | 0.289 | 0.195 | 0.461 | 0.359 | 0.197 | 0.062 | 0.842 |
| d1Germany | 0.699 | 0.088 | 0.312 | 0.388 | 0.448 | 0.141 | 0.551 | 0.051 | 0.641 | 0.017 | 0.721 | 0.003 | 0.836 | 0.000 | 0.945 | 0.000 | 1.060 | 0.000 | 1.147 | 0.000 | 1.117 | 0.000 |
| d1Spain | 0.412 | 0.474 | 0.436 | 0.422 | 0.815 | 0.093 | 1.360 | 0.003 | 0.863 | 0.035 | 0.895 | 0.015 | 0.843 | 0.017 | 0.591 | 0.108 | 0.510 | 0.187 | 0.320 | 0.445 | 0.141 | 0.772 |
| d1Norway | 0.589 | 0.520 | 0.884 | 0.297 | 0.761 | 0.337 | 1.084 | 0.171 | 0.752 | 0.364 | 0.241 | 0.801 | -12.854 | 0.981 | -14.402 | 0.992 | -17.283 | 0.954 | -17.073 | 0.998 | -16.488 | 0.998 |
| d1Japan | 0.190 | 0.858 | -0.062 | 0.947 | 1.366 | 0.124 | 1.873 | 0.031 | 2.467 | 0.005 | 2.892 | 0.000 | 2.514 | 0.001 | 2.946 | 0.000 | 2.523 | 0.002 | 2.595 | 0.002 | 2.548 | 0.004 |

ad0 corresponds to the model coefficient for logit(1 – specificity)

bmale refers to the model coefficient for comparison of male vs. female

coutp refers to the model coefficient for comparison of outpatient specialty care setting vs. inpatient specialty care setting

cnonmed refers to the model coefficient for comparison of non-medical care setting vs. inpatient specialty care setting

emix refers to the model coefficient for comparison of Inpatient/outpatient mixed setting vs. inpatient specialty care setting

fcancer refers to the model coefficient for comparison of participants diagnosed with cancer vs. participants not diagnosed with cancer

gQ.D1.B refers to the model coefficient for comparison of participants had “low” rating on QUADAS-2 Domain 1-Overall risk of bias vs. “unclear” or “high”.

hQ.D2.A refers to the model coefficient for comparison of participants had “low” rating on QUADAS-2 Domain 2-Applicability concerns vs. “unclear” or “high”.

iQ.D3.A refers to the model coefficient for comparison of participants had “low” rating on QUADAS-2 Domain 3-Applicability concerns vs. “unclear” or “high”.

jQ.D3.B refers to the model coefficient for comparison of participants had “low” rating on QUADAS-2 Domain 3-Overall risk of bias vs. “unclear” or “high”.

kQ.D4.B refers to the model coefficient for comparison of participants had “low” rating on QUADAS-2 Domain 4-Overall risk of bias vs. “unclear” or “high”.

lAll country variables refer to the model coefficient for comparison of that country vs. English speaking countries (including Australia and UK here).

md1 corresponds to the model coefficient for logit(sensitivity)

**Supplementary Table G2. Coefficients and p-values for one-stage meta-regressions assessing interactions between subgrouping variables, countries, and logit(sensitivity) and logit(1 – specificity), among countries had > 500 participants and studies used the MINI**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cutoff** | **5** | | **6** | | **7** | | **8** | | **9** | | **10** | | **11** | | **12** | | **13** | | **14** | | **15** | |
|  | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** |
| d0a | -0.494 | 0.233 | -1.021 | 0.016 | -1.900 | 0.000 | -2.657 | 0.000 | -3.109 | 0.000 | -3.272 | 0.000 | -3.123 | 0.000 | -3.331 | 0.001 | -3.585 | 0.002 | -7.301 | 0.000 | -7.337 | 0.001 |
| d0age | 0.007 | 0.003 | 0.008 | 0.003 | 0.012 | 0.000 | 0.014 | 0.000 | 0.017 | 0.000 | 0.016 | 0.001 | 0.015 | 0.007 | 0.015 | 0.025 | 0.014 | 0.096 | 0.019 | 0.047 | 0.020 | 0.106 |
| d0maleb | -0.282 | 0.000 | -0.271 | 0.000 | -0.230 | 0.003 | -0.300 | 0.001 | -0.430 | 0.000 | -0.435 | 0.000 | -0.666 | 0.000 | -0.751 | 0.000 | -0.922 | 0.000 | -0.816 | 0.001 | -0.559 | 0.076 |
| d0setting.outc | -0.130 | 0.678 | -0.255 | 0.423 | -0.164 | 0.621 | -0.056 | 0.884 | -0.195 | 0.660 | -0.398 | 0.432 | -0.936 | 0.170 | -1.145 | 0.150 | -1.462 | 0.110 | -1.741 | 0.218 | -1.690 | 0.228 |
| d0cancerf | -1.261 | 0.123 | -1.113 | 0.176 | -1.928 | 0.019 | -1.992 | 0.032 | -2.272 | 0.031 | -2.431 | 0.043 | -3.472 | 0.038 | -16.209 | 0.982 | -18.200 | 0.763 | -21.077 | 0.986 | -22.480 | 0.805 |
| d0.Q.D1.Bg | -0.770 | 0.009 | -0.614 | 0.040 | -0.530 | 0.081 | -0.419 | 0.232 | -0.758 | 0.064 | -0.748 | 0.102 | -1.078 | 0.073 | -1.305 | 0.065 | -1.335 | 0.105 | -3.046 | 0.093 | -3.463 | 0.066 |
| d0.Q.D2.Ah | 0.235 | 0.527 | 0.290 | 0.455 | 0.391 | 0.337 | 0.260 | 0.583 | 0.268 | 0.640 | 0.349 | 0.589 | 1.094 | 0.235 | 0.885 | 0.412 | 0.586 | 0.630 | 1.492 | 0.405 | 1.639 | 0.364 |
| d0.Q.D3.Ai | -1.473 | 0.037 | -1.304 | 0.071 | -1.772 | 0.018 | -1.545 | 0.071 | -1.672 | 0.097 | -1.920 | 0.098 | -3.395 | 0.047 | -15.884 | 0.982 | -17.034 | 0.778 | -18.962 | 0.987 | -20.053 | 0.826 |
| d0.Q.D3.Bj | 0.288 | 0.300 | 0.241 | 0.392 | 0.535 | 0.058 | 0.582 | 0.068 | 0.599 | 0.096 | 0.579 | 0.155 | 0.711 | 0.176 | 0.782 | 0.188 | 0.965 | 0.158 | 3.032 | 0.087 | 2.801 | 0.124 |
| d0.Q.D4.Bk | 0.262 | 0.377 | 0.289 | 0.339 | 0.302 | 0.329 | 0.421 | 0.236 | 0.720 | 0.077 | 0.446 | 0.345 | 0.147 | 0.816 | 0.169 | 0.814 | 0.265 | 0.747 | 3.224 | 0.066 | 3.048 | 0.086 |
| d0Lithuanial | 1.040 | 0.092 | 0.938 | 0.133 | 1.331 | 0.036 | 1.261 | 0.083 | 1.304 | 0.121 | 1.424 | 0.141 | 2.331 | 0.097 | 14.700 | 0.983 | 15.692 | 0.795 | 18.622 | 0.987 | 19.282 | 0.833 |
| d0Spain | 1.364 | 0.165 | 1.137 | 0.264 | 1.486 | 0.166 | 1.005 | 0.423 | 1.466 | 0.322 | 2.392 | 0.154 | 5.082 | 0.034 | 17.528 | 0.980 | 6.183 | 0.957 | 10.366 | 0.994 | 9.933 | 0.941 |
| d0Norway | 0.100 | 0.833 | 0.129 | 0.787 | 0.321 | 0.505 | 0.499 | 0.369 | 0.414 | 0.510 | 0.275 | 0.693 | -0.286 | 0.746 | -0.514 | 0.604 | -0.843 | 0.444 | 2.467 | 0.214 | 1.500 | 0.471 |
| d0Korea | 0.922 | 0.219 | 0.803 | 0.287 | 1.466 | 0.055 | 1.608 | 0.066 | 1.674 | 0.091 | 1.711 | 0.128 | 1.995 | 0.199 | 14.485 | 0.984 | 16.223 | 0.788 | 20.481 | 0.986 | 20.970 | 0.818 |
| d0Japan | -1.263 | 0.039 | -1.316 | 0.040 | -1.606 | 0.019 | -1.405 | 0.075 | -1.778 | 0.062 | -1.776 | 0.102 | -2.940 | 0.069 | -2.986 | 0.110 | -2.516 | 0.213 | -1.997 | 0.494 | -2.048 | 0.488 |
| d1m | -0.174 | 0.876 | -0.407 | 0.647 | -0.682 | 0.378 | -0.953 | 0.215 | -2.769 | 0.000 | -2.434 | 0.001 | -2.719 | 0.001 | -3.596 | 0.000 | -4.265 | 0.000 | -4.155 | 0.000 | -3.734 | 0.002 |
| d1age | 0.030 | 0.010 | 0.018 | 0.059 | 0.020 | 0.014 | 0.026 | 0.000 | 0.031 | 0.000 | 0.026 | 0.000 | 0.021 | 0.003 | 0.025 | 0.001 | 0.026 | 0.002 | 0.028 | 0.002 | 0.023 | 0.022 |
| d1male | -0.038 | 0.896 | -0.394 | 0.102 | -0.536 | 0.010 | -0.450 | 0.019 | -0.304 | 0.090 | -0.295 | 0.093 | -0.091 | 0.612 | 0.126 | 0.509 | -0.105 | 0.611 | -0.127 | 0.566 | 0.000 | 0.999 |
| d1setting.out | 1.122 | 0.141 | 1.215 | 0.054 | 0.876 | 0.118 | 0.663 | 0.237 | 1.433 | 0.010 | 0.791 | 0.156 | 0.711 | 0.259 | 0.815 | 0.235 | 0.865 | 0.260 | 0.652 | 0.385 | -0.130 | 0.878 |
| d1cancer | -19.487 | 0.811 | -4.897 | 0.022 | -4.330 | 0.019 | -6.569 | 0.001 | -6.924 | 0.000 | -6.231 | 0.000 | -6.143 | 0.001 | -20.767 | 0.992 | -22.796 | 0.330 | -21.095 | 0.995 | -23.112 | 0.685 |
| d1.Q.D1.B | -0.766 | 0.388 | -0.158 | 0.803 | -0.548 | 0.303 | -1.006 | 0.065 | -0.565 | 0.266 | -0.648 | 0.182 | -0.669 | 0.187 | -0.374 | 0.478 | 0.100 | 0.863 | -0.319 | 0.575 | -0.748 | 0.282 |
| d1.Q.D2.A | 0.424 | 0.740 | -0.878 | 0.376 | -0.979 | 0.226 | -0.425 | 0.584 | -0.349 | 0.623 | 0.248 | 0.709 | -0.028 | 0.968 | -0.070 | 0.922 | 0.030 | 0.968 | 0.059 | 0.939 | 0.678 | 0.459 |
| d1.Q.D3.A | -17.516 | 0.830 | -2.638 | 0.178 | -1.647 | 0.315 | -3.512 | 0.038 | -3.772 | 0.017 | -3.780 | 0.012 | -3.696 | 0.024 | -19.295 | 0.993 | -21.116 | 0.366 | -19.219 | 0.996 | -21.579 | 0.705 |
| d1.Q.D3.B | 2.256 | 0.036 | 1.126 | 0.134 | 1.094 | 0.087 | 1.517 | 0.022 | 2.118 | 0.001 | 2.083 | 0.001 | 1.693 | 0.004 | 1.748 | 0.003 | 1.786 | 0.004 | 1.776 | 0.003 | 1.532 | 0.018 |
| d1.Q.D4.B | -0.121 | 0.895 | 0.821 | 0.230 | 0.908 | 0.111 | 0.433 | 0.437 | 0.541 | 0.289 | -0.001 | 0.998 | 0.235 | 0.653 | 0.246 | 0.651 | 0.230 | 0.701 | 0.259 | 0.662 | 0.128 | 0.857 |
| d1Lithuania | 16.091 | 0.844 | 2.808 | 0.043 | 1.693 | 0.162 | 2.619 | 0.044 | 3.194 | 0.010 | 2.633 | 0.031 | 2.950 | 0.042 | 18.730 | 0.993 | 20.855 | 0.372 | 18.619 | 0.996 | 20.769 | 0.715 |
| d1Spain | 18.700 | 0.819 | 2.356 | 0.381 | 1.784 | 0.421 | 4.115 | 0.064 | 4.037 | 0.050 | 4.639 | 0.017 | 3.651 | 0.079 | 19.068 | 0.993 | 20.720 | 0.376 | 19.247 | 0.996 | 22.649 | 0.691 |
| d1Norway | 13.601 | 0.868 | 1.804 | 0.109 | 1.181 | 0.206 | 0.861 | 0.352 | 1.929 | 0.028 | 1.291 | 0.135 | 1.499 | 0.117 | 2.215 | 0.030 | 2.623 | 0.020 | 1.479 | 0.200 | 1.238 | 0.321 |
| d1Korea | 17.458 | 0.830 | 4.816 | 0.003 | 3.928 | 0.007 | 4.507 | 0.003 | 5.843 | 0.000 | 5.078 | 0.001 | 5.536 | 0.001 | 20.823 | 0.992 | 23.001 | 0.326 | 20.566 | 0.995 | 21.847 | 0.701 |
| d1Japan | -0.559 | 0.835 | 2.065 | 0.318 | 1.254 | 0.445 | -0.467 | 0.764 | -0.197 | 0.890 | -1.351 | 0.303 | -0.626 | 0.634 | -0.353 | 0.793 | -0.089 | 0.951 | -0.479 | 0.739 | -1.202 | 0.488 |

ad0 corresponds to the model coefficient for logit(1 – specificity)

bmale refers to the model coefficient for comparison of male vs. female

coutp refers to the model coefficient for comparison of outpatient specialty care setting vs. inpatient specialty care setting

cnonmed refers to the model coefficient for comparison of non-medical care setting vs. inpatient specialty care setting

emix refers to the model coefficient for comparison of Inpatient/outpatient mixed setting vs. inpatient specialty care setting

fcancer refers to the model coefficient for comparison of participants diagnosed with cancer vs. participants not diagnosed with cancer

gQ.D1.B refers to the model coefficient for comparison of participants had “low” rating on QUADAS-2 Domain 1-Overall risk of bias vs. “unclear” or “high”.

hQ.D2.A refers to the model coefficient for comparison of participants had “low” rating on QUADAS-2 Domain 2-Applicability concerns vs. “unclear” or “high”.

iQ.D3.A refers to the model coefficient for comparison of participants had “low” rating on QUADAS-2 Domain 3-Applicability concerns vs. “unclear” or “high”.

jQ.D3.B refers to the model coefficient for comparison of participants had “low” rating on QUADAS-2 Domain 3-Overall risk of bias vs. “unclear” or “high”.

kQ.D4.B refers to the model coefficient for comparison of participants had “low” rating on QUADAS-2 Domain 4-Overall risk of bias vs. “unclear” or “high”.

lAll country variables refer to the model coefficient for comparison of that country vs. English speaking countries (including Australia, English speaking Canada, and UK here).

md1 corresponds to the model coefficient for logit(sensitivity)

**Supplementary Table H1.** Comparison of sensitivity and specificity estimates between HADS-D and HADS-T for pairs of optimal cutoffs and cutoffs close to the optimal cutoffs among participants from Germanya

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **HADS-Da** | | | | | | | **HADS-T** | | | | | | **HADS-T – HADS-D** | | | | |
| **Cutoff** | **Sensitivity** | **95% CI** | **Specificity** | | **95% CI** | **Cutoff** | | **Sensitivity** | **95% CI** | **Specificity** | **95% CI** | **Sensitivity** | | **95% CI** | **Specificity** | **95% CI** |
| 5 | 0.93 | (0.88, 0.96) | 0.48 | (0.43, 0.53) | | 11 | | 0.95 | (0.91, 0.98) | 0.50 | (0.43, 0.57) | 0.02 | | (-0.02, 0.05) | 0.02 | (-0.02, 0.06) |
| 6 | 0.90 | (0.85, 0.94) | 0.58 | (0.53, 0.63) | | 13 | | 0.93 | (0.88, 0.96) | 0.60 | (0.53, 0.66) | 0.03 | | (-0.02, 0.08) | 0.03 | (-0.03, 0.05) |
| 7b | 0.86 | (0.79, 0.91) | 0.67 | (0.62, 0.71) | | 15 | | 0.89 | (0.84, 0.93) | 0.70 | (0.63, 0.75) | 0.03 | | (-0.05, 0.09) | 0.03 | (-0.00, 0.06) |
| 8 | 0.82 | (0.75, 0.87) | 0.74 | (0.70, 0.78) | | 17 | | 0.87 | (0.77, 0.93) | 0.79 | (0.74, 0.83) | 0.05 | | (-0.04, 0.15) | 0.05 | (0.02, 0.07) |
| 9 | 0.75 | (0.66, 0.82) | 0.81 | (0.77, 0.84) | | 19 | | 0.77 | (0.67, 0.85) | 0.85 | (0.8, 0.89) | 0.02 | | (-0.07, 0.10) | 0.04 | (0.01, 0.07) |
| 10 | 0.66 | (0.57, 0.73) | 0.85 | (0.82, 0.88) | | 21 | | 0.63 | (0.53, 0.72) | 0.90 | (0.85, 0.93) | -0.03 | | (-0.10, 0.04) | 0.05 | (0.02, 0.07) |
| 11 | 0.57 | (0.47, 0.67) | 0.89 | (0.87, 0.91) | | 23 | | 0.51 | (0.4, 0.61) | 0.93 | (0.9, 0.96) | -0.06 | | (-0.17, 0.01) | 0.04 | (0.03, 0.06) |

a N Studies = 11; N Participants = 4949; N major depression = 336

b The cutoff minimized the values of the distance to the top-left corner of the ROC curvesfor HADS-T was ≥ 8, but in order to be consistent with the overall analysis, we kept the same sets of paired cutoffs for comparison.

c The cutoff minimized the values of the distance to the top-left corner of the ROC curvesfor HADS-T was ≥ 18, but in order to be consistent with the overall analysis, we kept the same sets of paired cutoffs for comparison.

**Supplementary Table H2.** Comparison of sensitivity and specificity estimates between HADS-D and HADS-T for pairs of optimal cutoffs and cutoffs close to the optimal cutoffs among participants from Spaina

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **HADS-Da** | | | | | | | **HADS-T** | | | | | | **HADS-T – HADS-D** | | | | |
| **Cutoff** | **Sensitivity** | **95% CI** | **Specificity** | | **95% CI** | **Cutoff** | | **Sensitivity** | **95% CI** | **Specificity** | **95% CI** | **Sensitivity** | | **95% CI** | **Specificity** | **95% CI** |
| 5 | 0.89 | (0.75, 0.96) | 0.59 | (0.50, 0.68) | | 11 | | 0.89 | (0.82, 0.94) | 0.54 | (0.45, 0.63) | 0.00 | | (-0.08, 0.10) | -0.05 | (-0.10, 0.00) |
| 6 | 0.87 | (0.70, 0.95) | 0.68 | (0.59, 0.76) | | 13 | | 0.85 | (0.76, 0.91) | 0.68 | (0.58, 0.77) | -0.02 | | (-0.15, 0.15) | 0.00 | (-0.05, 0.07) |
| 7b | 0.84 | (0.64, 0.94) | 0.77 | (0.69, 0.84) | | 15c | | 0.75 | (0.67, 0.82) | 0.79 | (0.67, 0.88) | -0.09 | | (-0.28, 0.11) | 0.02 | (-0.03, 0.13) |
| 8 | 0.76 | (0.54, 0.90) | 0.83 | (0.76, 0.88) | | 17 | | 0.65 | (0.57, 0.73) | 0.84 | (0.75, 0.9) | -0.09 | | (-0.37, 0.13) | 0.01 | (-0.03, 0.08) |
| 9 | 0.65 | (0.50, 0.78) | 0.87 | (0.81, 0.91) | | 19 | | 0.52 | (0.4, 0.65) | 0.87 | (0.82, 0.91) | -0.13 | | (-0.34, 0.14) | 0.00 | (-0.03, 0.04) |
| 10 | 0.55 | (0.41, 0.68) | 0.91 | (0.87, 0.94) | | 21 | | 0.38 | (0.25, 0.54) | 0.92 | (0.88, 0.95) | -0.17 | | (-0.38, 0.10) | 0.01 | (-0.02, 0.04) |
| 11 | 0.41 | (0.24, 0.60) | 0.93 | (0.90, 0.95) | | 23 | | 0.29 | (0.19, 0.42) | 0.94 | (0.91, 0.97) | -0.12 | | (-0.33, 0.16) | 0.01 | (-0.01, 0.03) |

a N Studies = 8; N Participants = 1277; N major depression = 135

b The cutoff minimizes the values of the distance to the top-left corner of the ROC curvesfor HADS-D.

c The cutoff minimized the values of the distance to the top-left corner of the ROC curvesfor HADS-T was ≥ 14, but in order to be consistent with the overall analysis, we kept the same sets of paired cutoffs for comparison.

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