**Appendix:**

**Appendix 1: Search Strategy Terms used in the databases MEDLINE, EMBASE, PsycINFO, and Cochrane Databases for Systematic Reviews. The databases were searched from inception to April 25, 2021.**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Diagnostic Accuracy Terms** | **Depression Terms** | **MCI Terms** |
| **Keywords** | Valid  Screen  Tool  Questionnaire  Instrument  Test  Diagnostic Accuracy  Psychometric  Neuropsych  Inventory  Survey | Depress  Mood | Mild cognitive impairment  MCI  Neurocognitive disorder  Cognitive impairment no dementia  CIND |
| **MEDLINE Terms** | Mass Screening  Sensitivity and specificity  ROC Curve  Psychometrics  Surveys  Questionnaires  Psychological Tests  Neuropsychological Tests  Reproducibility of Results | Depression  Depression, Chemical  Depressive Disorder, Major  Depressive Disorder  Depressive Disorder, Treatment-Resistant  Mood Disorders | Cognitive Dysfunction |
| **EMbase Terms** | Mass Screening  Sensitivity and specificity  ROC Curve  Psychometrics  Surveys  Questionnaires  Psychological Tests  Neuropsychological Tests  Screening  Screening Test  Diagnostic Accuracy  Validity  Depression Assessment  Depression Inventory | Agitated depression  Atypical Depression  Depression  Late life Depression  Long term Depression  Major Depression  Endogenous Depression  Masked Depression  Reactive depression  Treatment resistant depression  Organic Depression  Mood Disorder | Mild Cognitive Impairment |
| **PsycINFO Terms** | Screening  Screening Test  Test Validity  Psychometrics  Decision Making  “Tool Use”  Questionnaires  Test reliability Test sensitivity | Atypical Depression  ‘Depression (Emotion)’  Endogenous Depression  Late life depression  Major Depression  Recurrent Depression  Treatment resistant depression | Cognitive impairment  Mood disorders |
| **Cochrane Database for Systematic Reviews** | Only Keywords | Only Keywords | Only Keywords |

**Appendix 2: Sources of Grey Literature Search**

|  |  |
| --- | --- |
| Mental Health Organizations | * CADTH * CCSMH * CMHA * Mental Health Canada * MHE-SME * Mental Health America * CAGP * EAGP * AAGP |
| Cognitive Sites | * Alzheimer.ca * Alzheimer-europe.org/ * Alz.org * Alzfdn.org/ |
| General Grey Databases | * Government of Canada * GreyNet International * SIGLE (System for Information on Grey Literature in Europe) |
| Search Engines | * TRIP database * Google Scholar |
| International | * Agency for Healthcare Research and Quality * World Health Organization |
| Thesis | * Centre for Resarch Libraries Foreign Dissertation * DART-Europe E-theses Portal * Electronic Theses Online Service (ETHOS) | British Library * Open Access Theses and Dissertations * Thesis Canada Portal |

**Appendix 3: The search lines used as part of a grey literature search of key sources. One of the following search combinations was used in each database outlined in Appendix 2.** **The search line was chosen based on whether the acquired number of articles generated were reasonable and precise.**

|  |
| --- |
| 1) mild cognitive impairment AND depression AND validity;  2) mild cognitive impairment AND depression AND accuracy;  3) mild cognitive impairment AND depression;  4) mild cognitive impairment AND depression AND diagnostic accuracy. |

**Appendix 4: The specific MEDLINE search used from inception to April 25, 2021.**

|  |  |  |
| --- | --- | --- |
| 1 | exp Mass Screening/ | 116582 |
|
| 2 | exp sensitivity/ and specificity/ | 327167 |
|
| 3 | exp ROC Curve/ | 47311 |
|
| 4 | exp Psychometrics/ | 67502 |
|
| 5 | exp surveys/ and questionnaires/ | 400775 |
|
| 6 | exp Psychological Tests/ or exp Neuropsychological Tests/ | 291526 |
|
| 7 | valid\*.kf,tw. | 608366 |
|
| 8 | screen\*.kf,tw. | 644428 |
|
| 9 | tool\*.kf,tw. | 599236 |
|
| 10 | Questionnaire\*.kf,tw. | 434427 |
|
| 11 | instrument\*.kf,tw. | 255948 |
|
| 12 | test\*.kf,tw. | 2854562 |
|
| 13 | Diagnostic Accuracy\*.kf,tw. | 36479 |
|
| 14 | Psychometric\*.kf,tw. | 40295 |
|
| 15 | neuropsych\*.kf,tw. | 76940 |
|
| 16 | inventory\*.kf,tw. | 68651 |
|
| 17 | survey\*.kf,tw. | 554901 |
|
| 18 | exp "Reproducibility of Results"/ | 358883 |
|
| 19 | 1 or 2 or 3 or 4 or 5 or 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 | 5470450 |
|
| 20 | exp depression/ or exp Depression, Chemical/ | 131396 |
|
| 21 | exp Depressive Disorder, Major/ or exp Depressive Disorder/ or exp Depressive Disorder, Treatment-Resistant/ | 99847 |
|
| 22 | exp Mood Disorders/ | 111697 |
|
| 23 | "depress\*".kf,tw. | 410475 |
|
| 24 | "mood\*".kf,tw. | 66573 |
|
| 25 | "mild cognitive impairment".kf,tw. | 13209 |
|
| 26 | "mci\*".kf,tw. | 17744 |
|
| 27 | neurocognitive disorder.kf,tw. | 591 |
|
| 28 | exp Cognitive Dysfunction/ | 8845 |
|
| 29 | cognitive impairment no dementia.kf,tw. | 216 |
|
| 30 | CIND.kf,tw. | 272 |
|
| 31 | 25 or 26 or 27 or 28 or 29 or 30 | 28163 |
|
| 32 | 20 or 21 or 22 or 23 or 24 | 513731 |
|
| 33 | 19 and 31 and 32 | 1796 |