## Database searches

• Ovid MEDLINE Search-1, (1946 to November 04, 2019), n = 2439

• Ovid MEDLINE Search-2, (1946 to March 16, 2020), n = 1518 [937 new]

• Ovid Embase (1974 to 2020 Week 19), n = 1734

• Ovid PsycINFO (1806 to May Week 1 2020), n = 1148

• Cochrane Library, (Issue 5 of 12, 2020), n = 1121

• Theses databases 8 May 2020), n = 4

Total=7964

Duplicates removed=2599

Records to screen, n = 5365 (3376 already screened (MEDLINE searches))

New records to screen (May 2020), n = 1989

Search strategies

Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily <1946 to November 04, 2019>

Search Strategy: Search-1

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1 DEPRESSION/ (112826)

2 DEPRESSIVE DISORDER/ (71437)

3 DEPRESSIVE DISORDER, MAJOR/ (28737)

4 DEPRESSION, POSTPARTUM/ (5217)

5 DEPRESSIVE DISORDER, TREATMENT-RESISTANT/ (1119)

6 (depress\* adj3 (acute or clinical\* or diagnos\* or disorder\* or major or unipolar or illness or scale\* or score\* or adult\* or patient\* or participant\* or people or inpatient\* or in-patient\* or outpatient\* or out-patient\*)).ti,ab,kf. (154965)

7 (depress\* and (Beck\* or BDI\* or DSM\* or (Statistical Manual adj2 Mental Disorders) or Hamilton or HAM-D or HAMD or MADRS or (International Classification adj2 Disease?) or ICD-10 or ICD10 or ICD-9 or ICD9 or PHQ-9 or PHQ9 or patient health questionnaire or GDS or EPDS)).ab. (48479)

8 "with depressi\*".ab. (25604)

9 (depressi\* or depressed).ti. (138888)

10 (depress\* adj3 (postnatal\* or post-natal\* or postpartum\* or post-partum\* or pregnan\*)).ti,ab,kf. (8195)

11 (depress\* adj3 (refractor\* or resistan\* or chronic\* or persist\*)).ti,ab,kf. (11891)

12 (depress\* and ((antidepress\* or anti-depress\* or SSRI\* or SNRI\* or serotonin or medication\* or psychotropic or treatment\*) adj2 (fail\* or no\* respon\* or nonrespon\* or non-respon\* or unrespon\* or un-respon\*))).ti,ab,kf. (1539)

13 or/1-12 (298517)

14 (recurr\* or relaps\* or remiss\* or remitt\*).ti,ab,kf,hw. (900693)

15 13 and 14 (20579)

16 ((recurr\* or reoccur\* or re-occur\* or new episode or another episode or relaps\* or re-emerg\* or resurg\* or re-surg\* or reappear\* or re-appear\* or flare-up) adj5 depress\*).ti,ab,kf. (5822)

17 ((remiss\* or remitt\* or recover\*) adj5 depress\*).ti,ab,kf. (6368)

18 or/15-17 (24010)

19 (Prognosis/ or Decision Support Techniques/) and (Algorithms/ or Logistic Models/ or Risk Assessment/) (45685)

20 ((prognos\* or predict\* or decision\*) and (algorithm? or model\* or rule? or risk? or outcome?)).ti,kf,hw. (410679)

21 ((prognos\* or predict\* or decision\*) adj3 (algorith? or model\* or rule? or risk? or outcome?)).ab. (251570)

22 clinical prediction.mp. (2545)

23 ((prognos\* or predict\* or decision\*) and (history or variable\* or criteria or scor\* or characteristic\* or finding\* or factor\*)).ti,kf,hw. (324146)

24 ((prognos\* or predict\* or decision\*) adj3 (history or variable\* or criteria or scor\* or characteristic\* or finding\* or factor\*)).ab. (236647)

25 or/19-24 (838079)

26 18 and 25 (2455)

27 (exp animals/ or exp models, animal/) not humans.sh. (4641658)

28 (mice or mouse or murine or rat or rats or rodent\* or animal model\*).ti. (1421140)

29 26 not (27 or 28) (2450)

30 (comment or letter or editorial or news).sh. (1962401)

31 29 not 30 (2439)

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Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily <1946 to March 16, 2020>

Search Strategy: Search-2

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1 \*mood disorders/ or \*depression/ or \*depressive disorder/ or \*depression, postpartum/ or \*depressive disorder, major/ or \*depressive disorder, treatment-resistant/ (153536)

2 (depress\* or ((mood\* or affective) adj disorder\*)).ti. (154316)

3 limit 2 to ("in data review" or in process or publisher) (8097)

4 1 or 3 (161633)

5 exp \*Recurrence/ or \*Secondary Prevention/ or \*Disease Progression/ (12919)

6 (predict\* adj5 (longterm or long term or recurr\* or reoccur\* or re-occur\* or new episode or another episode or relaps\* or remission or re-emerg\* or resurg\* or re-surg\* or reappear\* or re-appear\* or flare-up or ((future or repeat\* or subsequent\*) adj2 (depress\* or episode?)) or ((clinical or depress\* or illness) adj2 course) or ((remain\* or stay\*) adj (free or well or without depress\*)) or (sustain\* adj (recovery or remission)) or (future adj2 respon\*))).ti,ab,kf. (47610)

7 5 or 6 (60278)

8 (algorithm? or decision tree? or model\* or prognos\* or risk? or predictors or probabilit\* or ((protective or risk or sex or socioeconomic or time) adj factors)).ti,ab,kf,hw. (7782682)

9 4 and 7 and 8 (1362)

10 ((predict\* adj3 (future or subsequent) adj3 (respon\* or nonrespon\* or treatment outcome?)) and depress\*).ti,ab,kf. (67)

11 predict\*.ti. and ((recurr\* or relaps\*) adj3 (probabilit\* or likelihood? or rate? or risk?)).ti,ab,kf. and depress\*.ti,kf,hw. (153)

12 predict\*.ab. /freq=2 and ((recurr\* or relaps\*) adj3 (probabilit\* or likelihood? or rate? or risk?)).ti,ab,kf. and depress\*.ti,kf,hw. (227)

13 or/9-12 (1532)

14 (exp animals/ or exp models, animal/) not humans.sh. (4680637)

15 (mice or mouse or murine or rat or rats or rodent\* or animal model\*).ti. (1436358)

16 (comment or letter or editorial or news).sh. (2003836)

17 or/14-16 (6850921)

18 13 not 17 (1518)

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Ovid Embase <1974 to 2020 Week 19>

Search Strategy:

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1 \*depression/ or chronic depression/ or late life depression/ or major depression/ or "mixed anxiety and depression"/ or exp perinatal depression/ or post-stroke depression/ or recurrent brief depression/ or treatment resistant depression/ (204720)

2 (depress\* adj3 (acute or clinical\* or diagnos\* or disorder\* or major or unipolar or illness or scale\* or score\* or adult\* or patient\* or participant\* or people or inpatient\* or in-patient\* or outpatient\* or out-patient\*)).ti,ab,kw. (229377)

3 (depress\* and (Beck\* or BDI\* or DSM\* or (Statistical Manual adj2 Mental Disorders) or Hamilton or HAM-D or HAMD or MADRS or (International Classification adj2 Disease?) or ICD-10 or ICD10 or ICD-9 or ICD9 or PHQ-9 or PHQ9 or patient health questionnaire or GDS or EPDS)).ab. (80479)

4 "with depressi\*".ab. (38096)

5 (depressi\* or depressed).ti. (179033)

6 (depress\* adj3 (postnatal\* or post-natal\* or postpartum\* or post-partum\* or pregnan\*)).ti,ab,kw. (11865)

7 (depress\* adj3 (refractor\* or resistan\* or chronic\* or persist\*)).ti,ab,kw. (17689)

8 or/1-7 (366616)

9 (recurr\* or relaps\* or remiss\*).ti,ab,kw,hw. (1428856)

10 (longterm or long term or recurr\* or reoccur\* or re-occur\* or new episode or another episode or re-emerg\* or resurg\* or re-surg\* or reappear\* or re-appear\* or flare-up or ((future or repeat\* or subsequent\*) adj2 (depress\* or episode?)) or ((clinical or depress\* or illness) adj2 course) or ((remain\* or stay\*) adj (free or well or without depress\*)) or (sustain\* adj (recovery or remission)) or (future adj2 respon\*)).ti,ab,kw. (1980780)

11 (recover\* adj5 depress\*).ti,ab,kw. (4130)

12 or/9-11 (2505910)

13 8 and 12 (54304)

14 prognostic index/ (47)

15 (prognosis/ or prognostic assessment/ or prediction/ or predictor variable/) and (algorithm/ or statistical model/ or risk assessment/) (84998)

16 ((prognos\* or predicti\* or probabilit\* or decision?) and (algorithm? or model? or tool? or risk assessment?)).ti,kw. (55679)

17 prediction/ and recurrent disease/ (3181)

18 (8 and 14) or (13 and (15 or 16 or 17)) (553)

19 depressi\*.ti. and (recurr\* or relaps\* or remiss\* or recovery).ti,hw. and ((predicti\* or predictor? or probability or prognostic).ti,kw,hw. or ((predicti\* or predictor? or probability or prognostic) adj (index or model or tool)).ab.) and (follow up or followup or followed or months or longterm or long term).mp. (520)

20 depressi\*.ti. and ((predicti\* or predictor? or probability or prognostic) adj3 (recurr\* or re-occur\* or relaps\* or remiss\* or recovery)).ab. and (follow up or followup or followed or months or longterm or long term).mp. (346)

21 predict\*.ti. and ((recurr\* or relaps\*) adj3 (probabilit\* or likelihood? or rate? or risk?)).ti,ab,kw. and depress\*.ti,kw,hw. (268)

22 or/18-21 (1347)

23 predict\*.ab. /freq=2 and ((recurr\* or relaps\*) and (probabilit\* or likelihood? or rate? or risk?)).ti,ab,kw. and depress\*.ti,kw,hw. (1038)

24 ((prognos\* or predict\* or decision\*) and (algorithm? or model\* or rule? or tool? or risk? or outcome?)).ti,kw,hw. (848336)

25 ((prognos\* or predict\* or decision\*) and (history or variable\* or criteria or scor\* or characteristic\* or finding\* or factor\*)).ti,kw,hw. (574927)

26 ((prognos\* or predict\* or decision\*) adj3 (algorith? or model\* or rule? or tool? or risk? or outcome?)).ab. (411074)

27 ((prognos\* or predict\* or decision\*) adj3 (history or variable\* or criteria or scor\* or characteristic\* or finding\* or factor\*)).ab. (376282)

28 "decision tree"/ (12592)

29 or/23-28 (1468888)

30 13 and 29 (6371)

31 limit 30 to exclude medline journals (446)

32 22 or 31 (1734)

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Ovid APA PsycInfo <1806 to May Week 1 2020>

Search Strategy:

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1 (depression or depressive disorder?).hw,id. (167436)

2 (depress\* adj3 (acute or clinical\* or diagnos\* or disorder\* or major or unipolar or illness or scale\* or score\* or adult\* or patient\* or participant\* or people or inpatient\* or in-patient\* or outpatient\* or out-patient\*)).ti,ab,id. (141555)

3 (depress\* and (Beck\* or BDI\* or DSM\* or (Statistical Manual adj2 Mental Disorders) or Hamilton or HAM-D or HAMD or MADRS or (International Classification adj2 Disease?) or ICD-10 or ICD10 or ICD-9 or ICD9 or PHQ-9 or PHQ9 or patient health questionnaire or GDS or EPDS)).ab. (45623)

4 "with depressi\*".ab. (23223)

5 (depressi\* or depressed).ti. (112230)

6 (depress\* adj3 (postnatal\* or post-natal\* or postpartum\* or post-partum\* or pregnan\*)).ti,ab,id. (6619)

7 (depress\* adj3 (refractor\* or resistan\* or chronic\* or persist\*)).ti,ab,id. (10062)

8 or/1-7 (221741)

9 (recurr\* or relaps\* or remiss\* or recovery).ti,ab,id,hw. (135977)

10 (longterm or long term or recurr\* or reoccur\* or re-occur\* or new episode or another episode or re-emerg\* or resurg\* or re-surg\* or reappear\* or re-appear\* or flare-up or ((future or repeat\* or subsequent\*) adj2 (depress\* or episode?)) or ((clinical or depress\* or illness) adj2 course) or ((remain\* or stay\*) adj (free or well or without depress\*)) or (sustain\* adj (recovery or remission)) or (future adj2 respon\*)).ti,ab,id. (181037)

11 or/9-10 (273220)

12 8 and 11 (32711)

13 (prognos\* or predicti\*).hw,id. and (algorithms/ or models/ or risk assessment/ or risk factors/ or at risk populations/ or \*treatment outcomes/) (7659)

14 ((prognos\* or predicti\* or probabilit\* or decision?) and (algorithm? or model? or tool? or risk)).ti,id. (24658)

15 (prediction and (recurrent depression or ((relapse or remission or recovery) adj disorders))).hw. (402)

16 ((decision trees or prognosis) and recurrence).mh. (652)

17 12 and (13 or 14 or 15 or 16) (539)

18 depressi\*.ti. and (recurr\* or relaps\* or remiss\* or recovery).ti,hw. and ((predicti\* or predictor? or probability or prognostic).ti,id,hw. or ((predicti\* or predictor? or probability or prognostic) adj (index or model or tool)).ab.) and (follow up or followup or followed or months or longterm or long term).mp. (168)

19 depressi\*.ti. and ((predicti\* or predictor? or probability or prognostic) adj3 (recurr\* or re-occur\* or relaps\* or remiss\* or recovery)).ab. and (follow up or followup or followed or months or longterm or long term).mp. (225)

20 predict\*.ti. and ((recurr\* or relaps\*) adj3 (probabilit\* or likelihood? or rate? or risk?)).ti,ab,id. and depress\*.ti,id,hw. (135)

21 predict\*.ab. /freq=2 and ((recurr\* or relaps\*) and (probabilit\* or likelihood? or rate? or risk?)).ti,ab,id. and depress\*.ti,id,hw. (481)

22 or/17-21 (1148)

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Cochrane Library, Issue 5 of 12, 2020

#1 (depression or depressive):kw 39486

#2 (depress\* near/3 (acute or clinical\* or diagnos\* or disorder\* or major or unipolar or illness or scale\* or score\* or adult\* or patient\* or participant\* or people or inpatient\* or in-patient\* or outpatient\* or out-patient\*)):ti,ab 37753

#3 (depress\* and (Beck\* or BDI\* or DSM\* or (Statistical Manual and Mental Disorders) or Hamilton or HAM-D or HAMD or MADRS or (International Classification and Disease\*) or ICD-10 or ICD10 or ICD-9 or ICD9 or PHQ-9 or PHQ9 or patient health questionnaire or GDS or EPDS)):ab 19009

#4 (with next depressi\*):ab 3851

#5 (depressi\* or depressed):ti 28545

#6 (depress\* near/3 (postnatal\* or post-natal\* or postpartum\* or post-partum\* or pregnan\*)):ti,ab 1671

#7 (depress\* near/3 (refractor\* or resistan\* or chronic\* or persist\*)):ti,ab 2896

#8 (#1 or #2 or #3 or #4 or #15 or #6 or #7) 63071

#9 (recurr\* or relaps\* or remiss\* or recovery):ti,ab,kw 163236

#10 (longterm or "long term" or recurr\* or reoccur\* or re-occur\* or “new episode” or “another episode” or re-emerg\* or resurg\* or re-surg\* or reappear\* or re-appear\* or flare-up):ti,ab,kw 154244

#11 ((future or repeat\* or subsequent\*) near/2 (depress\* or episode\*)):ti,ab,kw 726

#12 ((clinical or depress\* or illness) near/2 course):ti,ab,kw 3212

#13 ((remain\* or stay\*) next (free or well or without depress\*)):ti,ab,kw 1272

#14 (future near/2 respon\*):ti,ab,kw 159

#15 (#9 or #10 or #11 or #12 or #13 or #14) 243893

#16 #8 and #15 13670

#17 ((prognos\* or predicti\* or probabilit\* or decision or decisions) and (algorithm\* or model\* or index or score or scores or tool\* or risk or risks or rule or rules or tree\*)):kw,ti 22750

#18 ((prognos\* or predict\* or decision\*) and (history or variable\* or criteria or characteristic\* or finding\* or factor\* or outcome or outcomes)):ti,kw 28633

#19 ((prognos\* or predicti\* or probabilit\* or decision or decisions) near (algorithm\* or model\* or index or score or scores or tool\* or risk or risks or rule or rules or tree\*)):ab and depress\*:ti 235

#20 ((prognos\* or predict\* or decision\*) near (history or variable\* or criteria or characteristic\* or finding\* or factor\* or outcome or outcomes)):ab and depress\*:ti 864

#21 (predicti\* near/3 (recurren\* or relapse or remission or recovery)):ti,ab 786

#22 (#17 or #18 or #19 or #20 or #21) 40389

#23 (#16 and #22) 1056

#24 depressi\*:ti and (recurr\* or relaps\* or remiss\* or recovery):ti,kw and ((predicti\* or predictor\* or probability or prognostic):ti,kw or ((predicti\* or predictor\* or probability or prognostic) next (index or model or tool)):ab) and (follow up or followup or followed or months or longterm or long term):ti,ab,kw 93

#25 depressi\*:ti and ((predicti\* or predictor\* or probability or prognostic) near (recurr\* or re-occur\* or relaps\* or remiss\* or recovery)):ab and ("follow up" or followup or followed or months or longterm or "long term”):ti,ab,kw 117

#26 (#23 or #24 or #25) 1121

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