

SUPPLEMENTARY FILE 1: Search Strategies

GDS screening accuracy

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Search strategy peer reviewed:

Database searches conducted:

Reference/related list searches conducted

Search Terms		
GDS* Geriatric Depression Scale*		
Search Terms:		
SCREENING ACCURACY		
Medline “filter”	PsycINFO “filter”	Web of Science “filter”
Mass Screening/ Psychiatric Status Rating Scales/ Predictive Value of Tests/ Reproducibility of Results/ Exp “Sensitivity and Specificity”/ Psychometrics/ Prevalence/ Reference Values/ Reference Standards/ Exp Diagnostic Errors/ Mental Disorders/diagnosis Mood Disorders/diagnosis Depressive Disorder/diagnosis Depressive Disorder, Major/diagnosis Depression, Postpartum/diagnosis Depression/diagnosis validation studies.pt. comparative study.pt screen*.af. prevalence.af. predictive value*.af.	Diagnosis/ Medical Diagnosis/ Psychodiagnosis/ Misdiagnosis/ Screening/ Health Screening/ Screening Tests/ Prediction/ Cutting Scores/ Psychometrics/ Test Validity/ screen*.af. predictive value*.af. detect*.ti. sensitiv*.ti. valid*.ti. revalid*.ti. accur*.ti. psychometric*.ti. specificit*.ab. cut?off*.ab. cut* score*.ab. cut?point*.ab.	TS= screen* prevalence “predictive value*” detect* sensitiv* valid* revalid* predict* accur* psychometric* identif* specificit* cutoff* “cut off*” “cut* score*” cutpoint* “cut point*” “threshold score*” “reference standard*” “reference test*” “index test*” “gold standard”

detect*.ti.	threshold score*.ab.
sensitiv*.ti.	reference standard*.ab.
valid*.ti.	reference test*.ab.
revalid*.ti.	index test*.ab
predict*.ti.	gold standard.ab.
accura*.ti.	
psychometric*.ti.	Psychological Assessment/
identif*.ti	Psychiatric Evaluation/
specificit*.ab.	Testing/
cut?off*.ab.	Test Interpretation/
cut* score*.ab.	Rating Scales/
cut?point*.ab.	prevalence.af.
threshold score*.ab.	predict*.ti.
reference standard*.ab.	identif*.ti
reference test*.ab.	
index test*.ab.	
gold standard.ab.	

Diagnostic accuracy (prediction) filters:

Some diagnostic accuracy terms were adapted from the following 2 hedges, demonstrated to be the two best strategies in [Geersing GJ, Bouwmeester W, Zuithoff P, Spijker R, Leeflang M, Moons K. Search filters for finding prognostic and diagnostic prediction studies in medline to enhance systematic reviews. PLoS One; 2012;7(2):e32844]:

Ingui BJ, Rogers MA (2001) Searching for clinical prediction rules in MEDLINE. J Am Med Inform Assoc 8: 391–397.

Wong SS, Wilczynski NL, Haynes RB, Ramkissoonsingh R (2003) Developing optimal search strategies for detecting sound clinical prediction studies in MEDLINE. AMIA Annu Symp Proc 728–732.

Searches conducted: <July 16, 2018>

Platform	Databases(s)	Results	Saved (account)	Remarks
OvidSP	Ovid MEDLINE(R), Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid OLDMEDLINE(R) 1946 to Present (MEDLINE search)	2960	DepressionSR/ depress	Screening Accuracy— Rebuild AND GDS
	PsycInfo	5686		
Clarivate	Web of Science	4166		
Total database search results in EndNote		12812		
Total deduplicated in EndNote				

De-Duplication using RefWorks: July 25th, 2018

Platform	Database(s)	Results (No. Of Citations)	After de-Duplication (No. of citations)	Saved (account)	Remarks
OvidSP	Ovid MEDLINE(R), Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid OLDMEDLINE(R) 1946 to Present (MEDLINE search)	2960	2940 (Refworks shows 2972, which is not possible. Must be some error in RefWorks. 2940 was obtained by subtracting the no. of citation in psycInfo and WoS from the Total no. of citations)	DepressionSR/ depress	Screening Accuracy— Rebuild AND GDS
	PsycInfo	5686	4648		
Clarivate	Web of Science	4166	1876		

Total database search results in EndNote	12812	9464 (9496, if you calculate using 2972)		
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NOTE: When the citations were uploaded onto the DEPRESSD – GDS account on Distiller SR, Distiller detected the overlap in citations between the different databases (i.e. MEDLINE, Psycinfo and WoS), which RefWorks was not able to detect (which had lead to the 2972 no. of citations in the MEDLINE folder in RefWorks and total number of citations to 9496) and skipped them. So the Total number of citation uploaded on DEPRESSD-GDS on Distiller is 9464.

NOTE: 30/07/2018 - De-Duplication - Before De-duplication in DistillerSR - 9464 citations.114 additional duplicates were removed by DistillerSR, leaving 9350 unique citations.

Web of Science

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*")
AND

TS=(GDS* OR “Geriatric Depression Scale*”)

PsycInfo

- 1 geriatric depression scale*.mp. 8643
- 2 GDS*.mp. 1741
- 3 1 or 2 9118
- 4 Diagnosis/ 38494
- 5 Medical Diagnosis/ 6672
- 6 Psychodiagnosis/ 11207
- 7 Misdiagnosis/ 515
- 8 Screening/ 8719
- 9 Health Screening/ 2931
- 10 Screening Tests/ 4974
- 11 Prediction/ 14366

12 Cutting Scores/	303
13 Psychometrics/	51843
14 Test Validity/	62121
15 screen*.af.	246719
16 predictive value*.af.	30082
17 detect*.ti.	14839
18 sensitiv*.ti.	15767
19 valid*.ti.	41010
20 revalid*.ti.	47
21 accura*.ti.	7580
22 psychometric*.ti.	11717
23 specificit*.ab.	30160
24 cut?off*.ab.	5626
25 cut* score*.ab.	2594
26 cut?point*.ab.	265
27 threshold score*.ab.	174
28 reference standard*.ab.	502
29 reference test*.ab.	90
30 index test*.ab.	73
31 gold standard.ab.	4174
32 or/4-31	453786
33 3 and 32	5686

MEDLINE

- 1 Geriatric depression scale*.af.
- 2 GDS*.af.
- 3 1 or 2
- 4 Mass Screening/
- 5 Psychiatric Status Rating Scales/
- 6 "Predictive Value of Tests"/
- 7 "Reproducibility of Results"/
- 8 exp "Sensitivity and Specificity"/
- 9 Psychometrics/
- 10 Prevalence/
- 11 Reference Values/

- 12 Reference Standards/
- 13 exp Diagnostic Errors/
- 14 validation studies.pt.
- 15 comparative study.pt.
- 16 screen*.af.
- 17 prevalence.af.
- 18 predictive value*.af.
- 19 detect*.ti.
- 20 sensitiv*.ti.
- 21 valid*.ti.
- 22 revalid*.ti.
- 23 predict*.ti.
- 24 accura*.ti.
- 25 psychometric*.ti.
- 26 identif*.ti.
- 27 specificit*.ab.
- 28 cut?off*.ab.
- 29 cut* score*.ab.
- 30 cut?point*.ab.
- 31 threshold score*.ab.
- 32 reference standard*.ab.
- 33 reference test*.ab.
- 34 index test*.ab.
- 35 gold standard.ab.
- 36 Mental disorders/di, pc
- 37 Mood disorders/di, pc
- 38 depressive disorder/di, pc
- 39 depressive disorder, major/di, pc
- 40 depression, postpartum/di, pc
- 41 depression/di, pc
- 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 or 19 or 20 or 21
- 42 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
- 43 3 and 42