

Supplementary Online Content

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eAppendix. Search strategy

eTable 1. Study quality ratings

eTable 2. Characteristics of 57 included studies

This supplementary material has been provided by the authors to give readers additional information about their work.

eAppendix. Search strategy

Source	Search strategy
1. MEDLINE	1-Depression/
	2-Psychiatric.mp.
	3-Depressed.mp.
	4-exp Mental Disorders/
	5-exp Mental Health/
	6-exp Mood Disorders/
	7-exp Mental Health Services/
	8-exp Depressive Disorder/
	9-exp Depressive Disorder, Major/
	10-1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9
	11-exp Mild Cognitive Impairment/
	12- Cognitive Impairment.mp.
	13-Cognitive impairment no dementia.mp,
	14-CIND.mp
	15- 11 or 12 or 13 or 14
	16-exp Prevalence/
	17- 10 and 15 and 16
2. Embase	1-exp mental disease/
	2-exp emotional disorder/
	3-exp mood disorder/
	4-exp mental health/
	5-exp mental health care/
	6-exp depression/
	7-exp major affective disorder/
	8-exp minor affective disorder/
	9-Depressive.mp.
	10-Depressed.mp.
	11-Psychiatric.mp.
	12-exp major depression/
	13-1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 10 or 11 or 12
	14-exp mild cognitive impairment/
	15-Cognitive impairment.mp.
	16-Cognitive Impairment no dementia.mp.
	17-CIND.mp.
	18-14 or 15 or 16 or 17
	19-exp prevalence/
	20-13 and 18 and 19
3. PsycINFO	1-exp Mental Disorders/
	2-exp Affective Disorders/
	3-exp "Depression (Emotion)"/

4-exp Mental Health/
5-exp Major Depression/
6-Depression.mp.
7-Depressive.mp.
8-Depressed.mp.
9-Psychiatric.mp.
10-1 0r 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9
11-exp Cognitive Impairment/
12-cognitive dysfunction.mp.
13-cognitive function.mp.
14-exp Presenile Dementia/
15-11 or 12 or 13 or 14
16-exp Epidemiology/ or prevalence.mp.
17- 10 and 15 and 16

4. Google

1-Depression
2-Depressive
3-MCI
4-CIND

eTable 1. Study quality ratings

Legend

* CD: Cannot determine; NR: Not reported; NA: Not applicable

Author, Year	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Overall
Baiyewu, 2012	Yes	Yes	NR	Yes	No	Yes	Yes	No	Yes	Yes	Yes	NR	NR	Good
Brodaty, 2012	Yes	Yes	NR	Yes	No	Yes	Yes	No	Yes	No	Yes	NR	Yes	Good
Chan, 2003	Yes	Yes	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes	NR	NR	Good
Chan, 2010	Yes	Yes	NR	Yes	No	No	NA	No	Yes	No	Yes	NR	NA	Fair
Chao, 2014	Yes	Yes	NR	Yes	No	No	NA	No	Yes	No	Yes	NR	NA	Fair
Chiu, 2007	Yes	Yes	Yes	Yes	No	No	NA	No	Yes	No	Yes	NR	NA	Fair
Colenda, 2010	Yes	Yes	CD	Yes	No	Yes	CD	No	Yes	No	Yes	NR	CD	Fair
Di Iulio, 2010	Yes	Yes	NR	Yes	No	No	NA	Yes	Yes	No	Yes	NR	NA	Fair
Dlugaj, 2015	Yes	Yes	CD	Yes	No	No	NA	Yes	Yes	No	Yes	NR	NA	Fair
Edwards, 2009	Yes	Yes	NR	Yes	No	No	NA	No	Yes	No	No	NR	NA	Poor
Elfgren, 2010	Yes	Yes	Yes	Yes	No	No	NA	No	Yes	No	Yes	NR	Yes	Fair
Feldman, 2004	Yes	Yes	NR	Yes	No	No	NA	No	Yes	No	Yes	NR	NA	Fair
Feng, 2009	Yes	Yes	CD	Yes	No	No	NA	No	Yes	No	Yes	NR	NA	Fair
Fernandez-Martinez, 2010	Yes	Yes	NR	Yes	No	No	NA	No	Yes	No	Yes	NR	NA	Fair
Forrester, 2015	Yes	Yes	NR	Yes	No	Yes	NA	No	Yes	Yes	Yes	NR	NA	Fair
Gabryelewicz, 2004	Yes	Yes	Yes	Yes	No	No	NA	No	Yes	No	Yes	NR	NA	Fair
Gallagher, 2010	Yes	Yes	NR	Yes	No	No	NA	NA	Yes	No	Yes	NR	NA	Fair
Gallassi, 2008	Yes	Yes	NR	Yes	No	No	NA	No	Yes	No	Yes	NR	NA	Fair
Hinton, 2003	Yes	Yes	Yes	Yes	No	NR	NR	No	Yes	Yes	Yes	NR	NR	Fair
Hudon, 2008	Yes	Yes	NR	Yes	No	No	NA	No	Yes	No	Yes	NR	NA	Fair
Juarez-Cedillo, 2012	Yes	Yes	CD	Yes	Yes	No	NA	No	Yes	No	Yes	NR	NA	Fair
Kim, 2015	Yes	No	NR	Yes	No	NR	Yes	No	Yes	No	Yes	No	NR	Fair
Kosteniuk, 2014	Yes	Yes	NR	Yes	No	No	NA	No	Yes	No	Yes	NR	NA	Fair

Kumar, 2006	Yes	Yes	NR	CD	No	CD	N/A	No	Yes	CD	Yes	NR	NR	Poor
Lach, 2010	Yes	Yes	N/A	Yes	No	No	N/A	Yes	Yes	No	Yes	NR	N/A	Fair
Lam, 2007	Yes	Yes	CD	Yes	No	No	N/A	No	Yes	No	Yes	NR	N/A	Fair
Lee, 2008	Yes	Yes	NR	Yes	No	No	N/A	Yes	Yes	No	Yes	NR	N/A	Fair
Lehrner, 2014	Yes	Yes	NR	Yes	No	No	N/A	No	Yes	No	Yes	NR	N/A	Fair
Li, 2001	Yes	Yes	NR	Yes	No	No	N/A	No	Yes	No	Yes	NR	N/A	Fair
Lopez, 2005	Yes	Yes	NR	Yes	No	No	N/A	Yes	Yes	No	Yes	NR	N/A	Fair
Lopez-Anton, 2015	Yes	Yes	Yes	Yes	No	No	N/A	Yes	Yes	No	Yes	NR	N/A	Fair
Luppa, 2012	Yes	Yes	Yes	Yes	No	CD	N/A	No	Yes	CD	Yes	NR	NR	Fair
Lyketsos, 2002	Yes	Yes	NR	Yes	No	No	N/A	No	Yes	No	Yes	NR	Yes	Fair
Modrego, 2004	Yes	Yes	NR	Yes	No	No	N/A	No	Yes	No	Yes	NR	N/A	Fair
Moretti, 2013	Yes	No	Yes	Yes	No	CD	N/A	Yes	Yes	No	CD	NR	NR	Fair
Muangpaisan, 2008	Yes	Yes	NR	Yes	No	No	N/A	No	Yes	No	Yes	NR	N/A	Fair
O'Bryant, 2013	Yes	Yes	NR	No	No	No	N/A	N/A	Yes	No	Yes	NR	N/A	Poor
Okura, 2010	Yes	Yes	NR	Yes	No	No	N/A	No	Yes	No	Yes	NR	N/A	Fair
Palmer, 2007	Yes	Yes	NR	Yes	No	CD	N/A	Yes	Yes	No	Yes	NR	NR	Fair
Palmer, 2010	Yes	Yes	Yes	Yes	No	No	N/A	No	Yes	No	Yes	NR	N/A	Fair
Peters, 2012	Yes	Yes	Yes	Yes	No	No	N/A	Yes	Yes	No	Yes	NR	No	Fair
Pink, 2015	Yes	Yes	CD	Yes	No	No	N/A	No	Yes	No	Yes	NR	N/A	Fair
Potvin, 2012	Yes	Yes	Yes	Yes	No	No	N/A	No	Yes	No	Yes	NR	N/A	Fair
Ravaglia, 2008	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	No	Yes	NR	No	Good
Richard, 2013	Yes	Yes	CD	Yes	No	No	N/A	Yes	Yes	No	Yes	NR	No	Fair
Rozzini, 2007	Yes	Yes	NR	Yes	No	No	N/A	Yes	Yes	No	Yes	NR	N/A	Fair
Serra, 2010	Yes	Yes	NR	Yes	No	No	N/A	No	Yes	No	Yes	NR	N/A	Fair
Snowden, 2014	Yes	Yes	CD	Yes	No	CD	No	No	Yes	CD	Yes	NR	CD	Poor
Solfrizzi, 2007	Yes	Yes	Yes	Yes	No	No	N/A	No	Yes	No	Yes	NR	No	Fair
sTatsch, 2006	Yes	Yes	Yes	Yes	Yes	CD	N/A	No	Yes	No	Yes	NR	N/A	Fair
van der Linde, 2010	Yes	Yes	Yes	Yes	No	CD	N/A	Yes	Yes	CD	Yes	NR	CD	Fair
Van der Musselle	Yes	Yes	NR	Yes	No	No	N/A	No	Yes	No	Yes	NR	N/A	Fair

	s	s		s			A		s				A	
Vaughan, 2009	Yes	Yes	N/A	Yes	No	No	N/A	No	Yes	No	Yes	NR	N/A	Fair
Chilovi, 2009	Yes	Yes	NR	Yes	No	No	N/A	No	Yes	No	Yes	NR	N/A	Fair
Weyerer, 2008	Yes	Yes	Yes	Yes	No	No	N/A	No	Yes	No	Yes	NR	N/A	Fair
Yaffe, 2011	Yes	Yes	CD	Yes	No	CD	N/A	No	Yes	CD	Yes	NR	No	Fair
Zhang, 2012	Yes	Yes	NR	Yes	No	No	N/A	No	Yes	No	Yes	NR	N/A	Poor

eTable 2. Characteristics of 57 included studies

Legend

BDI	Beck Depression Interview
CES-D	Centre for Epidemiological Studies Depression Scale
GDS	Geriatric Depression Scale
PHQ	Patient Health Questionnaire
BEHAVE AD	Behavioral Pathology in Alzheimer's Disease
CPRS	Comprehensive Psychopathological Rating Scale
NPI	Neuropsychiatric Interview
CSDD	Cornell Scale for Depression in Dementia
HDRS	Hamilton Depression Rating Scale
MADRS	Montgomery-Asberg Depression Rating Scale
CAMDEX	Cambridge Mental Disorders for the Elderly Examination
DSM	Diagnostic and Statistical Manual of Mental Disorders
SCID	Structured Clinic Interview for DSM
SSI	Structured and Semi-Structured Interview

Note: NR= not reported

Author, Year	Country, Continent	Number of participants	Mean age of all participants (years)	MCI Diagnosis	Prevalence of Depression by MCI type	Diagnosis of Depression	Referral Source
Baiyewu, 2012	Nigeria, Africa	53	80.9	CIND		NPI	Community-Based
Brody, 2012	Australia, Australia	319	79.0	Peterson		NPI	Community-Based
Chan, 2003	USA, North America	121	78.4	Standardized Neuropsychological Testing		NPI	Community-Based
Chan, 2010	Hong Kong, Asia	338	73.7	Peterson		NPI	Community-Based
Chao, 2014	USA, North America	49	NR	Peterson		GDS	Clinic-Based
Chilovi, 2009	Italy, Europe	124	NR	Winblad		SCID & DSM	Clinic-Based
Chiu, 2007	Taiwan, Asia	41	69.5	CIND		NPI	Clinic-Based
Colenda, 2010	USA, North America	215	NR	Peterson		DSM	Community-Based
Di Iulio, 2010	Italy, Europe	126	70.1	Peterson	aMCI: 29.3, naMCI: 44.1	NPI	Clinic-Based
Dlugaj, 2015	Germany, Europe	583	66.3	Winblad	aMCI: 19.4, naMCI: 13.9	CES-D	Community-Based
Edwards, 2009	USA, North America	521	NR	Peterson	aMCI: 40.6, naMCI: 18.9	DSM	Clinic-Based
Elfgren, 2010	Sweden, Europe	22	61.3	Peterson		MADRS	Clinic-Based
Feldman, 2004	Canada, North America	593	70.6	CDR		NPI	Clinic-Based
Feng, 2009	Singapore, Asia	133	68.4	CDR		NPI	Community-Based
Fernández-Martínez, 2010	Spain, Europe	91	74.2	Peterson	aMCI: 33	NPI	Clinic-Based
Forrester, 2015	USA, North America	419	79.4	Peterson		NPI	Clinic-Based
Gabryelewicz, 2004	Poland, Europe	102	70.0	Peterson	aMCI: 46.1	MADRS	Clinic-Based
Gallagher, 2011	Ireland, Europe	161	73.7	Peterson		BEHAVE-AD	Clinic-Based
Gallassi, 2008	Italy, Europe	49	71.1	Winblad		NPI	Clinic-

							Based
Hinton, 2003	USA, North America	57	53.2	CIND		NPI	Community-Based
Hudon, 2008	Canada, North America	44	65.1	Peterson	aMCI: 40.9	GDS	Clinic-Based
Juarez-Cedillo, 2012	Mexico, North America	190	75.3	Peterson	aMCI: 10.2, naMCI: 25.0	CES-D	Community-Based
Kim, 2015	Republic of Korea, Asia	590	NR	Peterson	aMCI: 51.4	GDS	Clinic-Based
Kosteniuk, 2014	Canada, North America	51	69.8	Peterson		CES-D	Clinic-Based
Kumar, 2006	Australia, Australia	29	62.7	Peterson	aMCI: 20.6	PHQ	Community-Based
Lach, 2010	USA, North America	57	78.9	CDR		DSM	Clinic-Based
Lam, 2007	Hong Kong, Asia	195	78.8	CDR		NPI	Community-Based
Lee, 2008	Republic of Korea, Asia	382	72.3	Peterson	aMCI: 18.8, naMCI: 20.3	NPI	Clinic-Based
Lehrner, 2014	Austria, Europe	215	NR	Peterson		BDI	Clinic-Based
Li, 2001	USA, North America	21	68.7	Peterson	aMCI: 28.6	HDRS	Clinic-Based
Lopez-Anton, 2015	Spain, Europe	323	73.5	Peterson	aMCI: 58.0, naMCI: 51.0	SSI	Community-Based
Lopez, 2005	USA, North America	228	70.1	Peterson		SSI & DSM	Clinic-Based
Luppa, 2012	Germany, Europe	156	NR	Winblad		CES-D	Community-Based
Lyketsos, 2002	USA, North America	320	75.0	Standardized Neuropsychological Testing		NPI	Community-Based
Modrego, 2004	Spain, Europe	114	72.8	Peterson		DSM	Clinic-Based
Moretti, 2013	Italy, Europe	1941	NR	Winblad		SSI	Community-Based
Muangpaisan, 2008	Thailand, Asia	77	66.3	Peterson		NPI	Clinic-Based
O'Bryant, 2013	USA, North America	164	NR	Peterson		GDS	Community-Based
Okura, 2010	USA, North America	238	NR	CIND		NPI	Community-Based
Palmer, 2007	Sweden, Europe	47	NR	Winblad		CPRS	Community-Based
Palmer, 2010	Italy, Europe	131	70.8	Peterson	aMCI: 35.3,	SCID	Clinic-Based

					naMCI: 36.7		
Peters, 2012	USA, North America	479	83.3	CIND		NPI	Community-Based
Pink, 2015	USA, North America	332	NR	Peterson		NPI	Community-Based
Potvin, 2012	Canada, North America	234	74.4	CDR		SSI & DSM	Community-Based
Ravaglia, 2008	Italy, Europe	72	78.1	Winblad		GDS	Community-Based
Richard, 2013	USA, North America	429	NR	Peterson		CES-D	Community-Based
Rozzini, 2008	Italy, Europe	150	71.6	Peterson		NPI	Clinic-Based
Serra, 2010	Italy, Europe	19	73.3	Peterson	aMCI: 52	NPI	Clinic-Based
Snowden, 2014	USA, North America	7096	74.3	Peterson		GDS	Clinic-Based
Solfrizzi, 2007	Italy, Europe	139	80.8	Peterson		GDS	Community-Based
Tatsch, 2006	Brazil, South America	25	71.8	CIND		NPI	Community-Based
Van der Linde, 2010	England and Wales, Europe	389	73.8	Peterson		CAMDEX	Community-Based
Van der Mussele, 2014	Belgium, Europe	183	72.0	Peterson		BEHAVE AD CSDD	Clinic-Based
Vaughn, 2009	USA, North America	80	62.1	Winblad		GDS	Clinic-Based
Weyerer, 2008	Germany, Europe	817	NR	Winblad	aMCI: 17.8, naMCI: 10.6	GDS	Community-Based
Yaffe, 2011	USA, North America	301	88.5	Peterson		GDS	Community-Based
Zhang, 2012	China, Asia	38	71.0	Peterson		NPI	Clinic-Based