Data Supplement for Cuijpers et al., Assessment of Whether Excess Mortality in Depression Is Generic or Specific: A Comprehensive Meta-Analysis of Community and Patient Studies. Am J Psychiatry (doi: 10.1176/appi.ajp.2013.13030325)

Appendix A. Detailed search string in PubMed

(("depressive disorder"[mesh terms]) or ("depressive"[all fields] and "disorder"[all fields]) or "depressive disorder"[all fields] or "depression"[all fields] or "depression"[mesh terms]) and (("mortality"[subheading] or "mortality"[all fields] or "mortality"[mesh terms]) or ("death"[mesh terms] or "death"[all fields]) or ("survival"[all fields] or "survival"[mesh terms])) AND ("Longitudinal Studies"[Mesh] OR "Prospective Studies"[Mesh] OR “follow-up” OR prospective OR survive OR prognostic)

Appendix B. References to earlier meta-analyses and systematic reviews examining the association between excess mortality and depression

Barth J, Schumacher M, Herrman-Lingen C. Depression as a risk factor for mortality in patients with coronary heart disease: A meta-analysis. Psychosom Med 2004; 66: 802–13.

Chida Y, Hamer M, Wardle J, Steptoe A. Do stress-related psychosocial factors contribute to cancer incidence and survival? Nat Clin Pract 2008; 5; 466-75.

Cuijpers P, Smit F (2002). Excess mortality in depression: a meta-analysis of community studies. J Affect Dis 2002; 72: 227-36.

Nicholson A, Kuper H, Hemingway H. Depression as an aetiologic and prognostic factor in coronary heart disease: a meta-analysis of 6362 events among 146 538 participants in 54 observational studies. Eur Heart J 2006; 27: 2763–74.

Pan A, Sun Q, Okereke OI, Rexrode KM, Hu FB. Depression and risk of stroke morbidity and mortality: a meta-analysis and systematic review. JAMA 2011; 306: 1241-9.

Pinquart M, Duberstein PR. Depression and cancer mortality: a meta-analysis. Psychol Med 2010; 40: 1797-810.

Saz P, Dewey ME. Depression, depressive symptoms and mortality in persons aged 65 and over living in the community: A systematic review of the literature. Int J Geriatr Psychiatry 2001; 16: 622-30.

Sørensen C, Friis-Hasché E, Haghfelt T, Bech P. Postmyocardial Infarction Mortality in Relation to Depression: A Systematic Critical Review. Psychother Psychosom 2005; 74: 69–80.

Van Melle JP, de Jonge P, Spijkerman TA, Tijssen JGP, Ormel J, van Veldhuisen DJ, van den Brink RH, van den Berg MP. Prognostic association of depression following myocardial infarction with mortality and cardiovascular events: A meta-analysis. Psychosom Med 2004; 66: 814–22.

Wulsin LR, Vaillant GE, Wells VE. A systematic review of the mortality of depression. Psychosom Med 1999; 61: 6–17.

Appendix C. Risk of bias assessment

Each study was rated (by two independent raters) on the following 13 items.

1. The source population is adequately described for key characteristics. Choose on of the following possibilities:
    1. A selected sample from the general population
    2. Patients with a heart disease
    3. Patients with cancer
    4. Patients with another somatic disorder
    5. Other clearly defined sample
    6. The source population is not clearly described

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2. The sampling frame and recruitment are adequately described:

2A. The participants are recruited through:
    1. the general population (with a clear description of the method)
    2. a medical setting, number of hospitals/institutes: ….
    3. another clearly described method
    4. a not clearly described method

2B. The period of inclusion is clearly defined (at least the years are indicated)
    1. True
    2. Not true

2C. The geographical location of recruitment is clearly indicated (e.g., the name and city of the hospital, the name of the area)
    1. True
    2. Not true

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3. Inclusion and exclusion criteria are clearly described:
    1. True
    2. Not true

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4. Is the study sample an adequate representation of the target population.
    1. Yes
    2 No

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5. The baseline study sample (individuals entering the study) is adequately described for key characteristics.
    1. Yes
    2. No

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6. Mortality data at follow-up are available for at least 90% of the baseline sample:
    1. True
    2. Not true
    3. Unclear

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7. Attempts to collect information on participants who dropped out of the study are described.
    1. Yes
    2. No dropout
    3. No
    4. Unclear

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8. Reasons for drop-out from baseline to follow-up are provided.
    1. Yes
    2. No dropout

3. No
4. Unclear

9. Participants who dropped out are adequately described for key characteristics (including at least the number of depressed people).
1. Yes
2. No dropout
3. No
4. Unclear

10.A. It is clearly reported what was done to assure the mortality status of participants.
1. True
2. Not true

10.B. The follow-up period for which mortality is measured is clearly described.
1. True
2. Not true

11.A. Have the following confounders been measured: Demographic variables
1. Yes
2. No

11.B. Have the following confounders been measured: One or more lifestyle variables (smoking, BMI, exercise)
1. Yes
2. No

11.C. Have the following confounders been measured: One or more illness-related variables (severeness of the illness, somatic comorbidity, characteristics of the illness, etc)
1. Yes
2. No

12. Have analyses been conducted to examine the influence of the confounders described in 11. on the association between depression and mortality (usually through multivariable analyses):
1. Yes, all thee groups of relevant confounders have been examined in multivariable analyses.
2. One or two groups of confounders has been examined in multivariable analyses
3. No confounders were included in the analyses
4. No confounders were reported in question 11.

13. The analyses have been conducted adequately. There are two possibilities:
- This is a prospective study in a population. In these studies survival analyses are conducted.
- This is a case-control study. In these studies logistic regression analyses have been conducted.

Have these analyses been conducted?
1. Yes
2. No

After the scoring the studies were rated on the main five main areas using the following rules

Q1. Study participation (item 1 -5)
The study sample represents the population of interest on key characteristics, sufficient to limit potential bias to the results.
- Yes (5 items are positive)
- Partly (3-4 items are positive)
- No (0-2 items are positive)

Item 1. This item is positive if one of the answers 1 – 5 is given (6 is negative)
Item 2. This item is positive if 2A to 2C are all positive (not 2A.4, 2B.2, or 2C.2)

Item 3. This item is positive when 1 is chosen
Item 4. This item is positive when 1 is chosen
Item 5. This item is positive when 1 is chosen

Q2. Study attrition (Item 6 – 9)

Loss to follow-up (from sample to study population) is not associated with key characteristics (i.e., the study data adequately represent the sample), sufficient to limit potential bias.

- Yes (4 items are positive)
- Partly (2-3 items are positive)
- No (0 or 1 items are positive)
- Unclear

Item 6. This item is positive when 1 is chosen
Item 7. This item is positive when 1 or 2 is chosen
Item 8. This item is positive when 1 or 2 is chosen
Item 9. This item is positive when 1 or 2 is chosen

Q3. Outcome measurement (item 10)

The outcome of interest is adequately measured in study participants to sufficiently limit potential bias.

- Yes (2 sub-items are positive)
- Partly (1 sub-item is positive)
- No (0 sub-items are positive)
- Unclear

Item 10.A. This item is positive when 1 is chosen
Item 10.B. This item is positive when 1 is chosen

Q4. Confounding measurement and account (item 11 -12)

Important potential confounders are appropriately accounted for, limiting potential bias with respect to the prognostic factor of interest.

- Yes (all 3 groups of confounders have been measured and accounted for; 11.A-C are positive and 12 has score 1)
- Partly (1-2 groups of confounders have been measured and accounted for; at least one of 11.A-C is positive, and 12 has score 2)
- No (all other ratings)

Item 11.A. This item is positive when 1 is chosen
Item 11.B. This item is positive when 1 is chosen
Item 11.C. This item is positive when 1 is chosen

Q5. Analysis (item 13)

The statistical analysis is appropriate for the design of the study, limiting potential for presentation of invalid results.

- Yes (adequate analyses)
- No
- Unsure

Item 13. This item is positive when 1 is chosen

Appendix D. Selected characteristics of included studies

	Patient group	*Recruitment*	*Definition of depression*	*Total N*	*% de-pressed*	*FU period* [a]	*Country*	*Quality* [b] *Q1*	*Q2*	*Q3*	*Q4*	*Q5*
Abbatecola, 2011	Patient admitted to geriatric hospitals	Patients admitted to hospital network	GDS-15 ≥ 10	1533	NR	2 yrs	ITALY	±	±	+	−	−
Adams, 2012	Patients with Chronic Heart Failure	All patients were invited	BDI≥19	985	29.9	12 yrs	US	±	+	+	±	+
Ahto, 2007	Community residents	All residents of community were invited	SDS ≥ 45	660	15.2	12	FINL	+	+	+	−	−
Akechi, 2009	Patients with non-small cell lung cancer	Consecutive patients in treatment center	MDD (SCID)	122	NR	2	JAPAN	+	+	±	±	+
Almagro, 2002	COPD patients	Consecutive patients hospitalized for COPD	Yesavage scale ≥ 11	135	NR	2	SPAIN	+	−	+	+	+
Almeida, 2010	Men (68-88)	Community	GDS-15 ≥ 7	5276	5.6	6	AUSTR	+	+	+	+	+
Amador, 2006	Mexican American men (65 and older)	Community sample (EPESE)	CES-D ≥ 16	1749	11.5	5	US	±	±	+	+	+
Ang, 2005	Patients with Rheumatoid Arthritis	Consecutive outpatients with RA	AIMS depression scale ≥ 4	1290	17.6	18	US	+	+	+	±	+
Anstey, 2002	Older community residents (≥ 70)	Selection from electoral roll	CES-D ≥ 16	1914	15.2	8	AUS	+	+	+	+	+
Arfken, 1999	Medically ill older adults (≥ 60)	Consecutive patients admitted to rehabilitation hospital	GDS ≥ 17	667	10.0	1	US	+	+	+	±	+
Ariaratnam, 2008	Newly diagnosed treatment-naive cancer patients	Patients from university hospital	Based on HADS (cut-off not reported)	78	NR	1,5	MAL	±	−	±	±	+
Aromaa, 1994	Adults (≥ 40)	Random community sample	Depressive disorder (PSE)	5355	5.4	6.6	FINL	±	+	+	−	+
Arrieta, 2012	Patients with Advanced Non-small Cell Lung Cancer	Consecutive patients	HADSD≥8	82	32.9	0.5 yrs	MEX	+	+	−	+	+
Arve, 1998	Older adults from one city (Turku)	Random community sample	DSM-III	847	2.7	5	FINL	±	+	+	−	+
Atlantis, 2011	Older adults (≥ 65)	Community	PAS-d ≥ 5	1000	7.4	12	AUS	+	+	+	+	+
Baker, 2001	Patients who underwent CABG surgery	Consecutive patients	DASS ≥ 10	158	15.2	2	AUS	±	+	+	±	−
Baldwin, 2006	Older patients (≥ 60) with late-onset depression, with matched controls	Referred patients to psychiatric services, and controls (spouses and responders to advertisements)	MDD (DSM-IV)	85	58.8	3.1	UK	−	+	+	−	−

	Patient group	Recruitment	Definition of depression	Total N	% de-pressed	FU period [a)]	Country	Quality [b)] Q1	Q2	Q3	Q4	Q5
Balogun, 2011	Older patients treated for chronic hemodialysis (≥ 65)	All patients in 4 treatment centers	GDS-15 ≥ 5	77	33.8	5	US	±	+	±	−	+
Barefoot, 1996	Coronary artery disease patients	Consecutive patients to University hospital	SDS ≥ 60	1250	11.2	15.2	US	±	±	+	−	+
Barry, 2008	Community dwelling older adults (≥ 70)	Members of a health plan	CES-D ≥ 20	754	13.3	6	US	+	−	+	−	−
Batterham, 2012	Older adults (> 70 years)	Community	GDAS≥4	865	13.0	17 yrs	AUSTR	±	+	+	±	+
Ben-Arie, 1990	Older adults (≥ 65 years)	Community sample	Depressive disorder (PSE)	150	15.3	3.5	S-AFR	±	±	±	−	−
Ben-Ezra, 2006	Older adults (75-94 years)	Random sample from population registry	CES-D ≥ 16	1316	54.6	12	ISR	+	+	+	±	+
Billig, 1988	Older patients (≥ 60 years) with hip fracture		MDD (DSM-III, diagnostic interview) + SDS ≥ 50 + GHQ-28 ≥ 5	35	33,3	0,5	US	±	±	±	−	−
Black, 1999	Mexican Americans over 65	Probability sample from 5 US states	CES-D ≥ 16	2489	23.6	2	US	+	−	±	±	−
Blazer, 1982	Older adults (≥ 65)	Representative sample from the general population in Durham County, North Carolina	OARS Depression scale (cut-off not given)	331	NR	2.5	US	+	+	+	+	−
Blumenthal, 2003	Patients undergoing CABG	patients scheduled for elective CABG surgery University Medical Center	CES-D ≥ 16	817	37.9	12	US	+	+	+	+	+
Borowicz, 2002	Patients for coronary artery bypass surgery	Hospitalized patients	CES-D ≥ 16	172	24,8	5	US	−	+	+	−	−
Boscarino, 2008	Men	Random sample of men who served in the US Army during the Vietman war	Lifetime depressive disorder (DIS)	4462	10.5	15	US	+	+	+	±	+
Bosworth, 1999	Patients with suspected or known coronary artery disease	Patients referred to medical center	CES-D ≥ 16	2885	NR	3.5	US	+	+	±	±	+
Bot, 2012	Older adults from the community	Patients from 4 hospitals were screened	Goldberg depression scale ≥ 4	2525	25.4	6.2	NL	±	±	+	+	+
Boulware, 2006	Incident dialysis patients (19-95s)	national prospective cohort study from 81 dialysis clinics	MHI-5 ≤ 52	917	24.1	2	US	+	+	+	+	+

	Patient group	Recruitment	Definition of depression	Total N	% de-pressed	FU period [a)]	Country	Quality [b)] Q1	Q2	Q3	Q4	Q5
Brill, 1992	Men	Men given at least one preventive medical examination	Depression scale of Clinical Analysis Questionnaire ≥ 5.5	406	21,2	NR	US	±	+	−	−	−
Bruce, 1994	Men and women older than 40	Random sample from the community	MDD (DIS)	3560	1.9	9	US	±	+	+	−	+
Bruce, 2005	Diabetes II patients	Diabetes patients from the general population	≥ 2 GHS symptoms of depression	1273	31.5	7.8	AU	+	+	+	+	+
Buccheri, 1998	Patients with bronchogenic carcinoma	Consecutive patients in specialist tertiary hospital	Zung Self-Rating Depression Scale ≥ 51	95	44.2	2	ITA	+	+	+	±	+
Bula, 2001	Older patients (≥ 75)	patients admitted to the internal medicine service of an academic medical center	GDS-15 ≥ 6	401	22.4	0,5	SWITS	±	+	+	±	+
Burack, 1993	Male HIV patients	Recruited from community (SFMHS study)	CES-D ≥ 16	330	19.7	5.5	US	+	−	+	±	+
Burg, 2003	Men who had Coronary Artery Bypass Graft Surgery (CABG)	consecutive male patients admitted for nonemergent CABG	BDI ≥ 10	89	28.1	2	US	+	+	+	−	−
Bush, 2001	Myocardial infarction patients	Consecutive patients admitted to hospital	MDD (SCID) and BDI ≥ 10	285	17.2	0.33	US	+	+	+	±	−
Butler, 2004	Dementia patients	Recruited through day centers and psychogeriatric unit	Depressive disorder (GMS)	166	NR	0,5	NW ZL	±	+	+	−	+
Callahan, 1998	Older adults (≥ 60)	Patients visiting their GP	CES-D ≥ 16	3767	16.2	3.75	US	+	+	+	+	+
Carney, 1988	Coronary artery disease patients	Recruited from patients undergoing cardiac catheterization	MDD (DIS)	52	17.3	1	US	±	−	+	−	−
Chen, 2011	Patients with advanced non-small cell lung cancer	Consecutive patients	HADS≥8	90	22.2	2.5 yrs	TAIWAN	±	+	±	+	+
Chilcot, 2011	end-stage renal disease patients	Incident patients from 3 renal centers	BDI-II ≥ 16	160	25.6	1.4	UK	+	±	+	−	+
Chung, 2009	Patients with heart failure	Recruited from outpatient clinics	BDI-II ≥ 14	166	33.1	4	US	±	+	+	−	+
Clausen, 2007	Older adults (≥ 60)	National representative household survey	MADRS > 20	372	6.8	0.57	BOTSW	+	±	+	±	−
Clouse, 2003	Women with diabetes	Random selection of patients from a diabetes registry	MDD (DIS; DSM-III)	76	21.1	10	US	+	±	+	−	−
Cohen, 2012	Patients with Renal Cell Carcinoma	Newly diagnosed patients	CESD≥16	217	23.0	7.5 yrs	US	+	+	±	±	+

	Patient group	*Recruitment*	*Definition of depression*	*Total N*	*% de-pressed*	*FU period* [a)]	*Country*	*Quality* [b)] *Q1*	*Q2*	*Q3*	*Q4*	*Q5*
Connerney, 2010	Coronary artery bypass surgery patients	Hospital patients	Current or past MDD (modified DIS), BDI ≥ 10	309	MDD: 20.4 BDI≥10: 28.2	10	US	+	+	+	+	+
Corruble, 2011	Patients with liver or kidney transplantation	Patients on waiting list	.	339	51.6	1.5 yrs	FRANCE	+	+	+	+	−
Corsonello, 2011	Chronic kidney disease patients	Patients participating in longitudinal study	GDS-15 (cut-off value not reported)	439	NR	1	Italy	±	+	+	−	+
Damen, 2013	patients treated with percutaneous coronary intervention	Consecutive hospital patients	HADS≥8	1234	26.3	7 yrs	NL	+	+	+	+	+
Davidson, 1988	Older adults (≥ 65)	Random community sample	Depressive disorder (GMS/AGECAT)	1054	11.2	3	UK	±	+	±	−	−
De Guevara, 2004	Older patients (≥ 60) with myocardial infarction or unstable angina	Patients admitted to coronary care unit	MDD (DSM-IV; interview by psychiatrist)	38	34.2	0,5	ARGENT	+	−	±	−	−
De la Camara, 2008	Older adults	Sample from general population	Depressive disorder (MDD, minD) according to AGECAT	663	6.6 (MDD)	4,5	SPAIN	−	−	±	−	−
De Schutter, 2011	Coronary heart disease patients	Retrospective patient sample	KSQ-d≥7	538	6.7	3 yrs	US	−	±	+	±	−
de Voogd, 2009A; 2009B	COPD patients	Patients referred for pulmonary rehabilitation	BDI ≥ 19	121	19.8	8.5	NL	+	+	+	+	+
Denollet, 1995	Patients who had experienced a myocardial infarction (45-60s)	Consecutive patients enrolled in a cardiac rehabilitation program	Scoring above the median on 2 depression subscales of the MBHI	105	46.7	3.8	BELG	±	+	+	−	−
Denollet, 1996	Patients who had experienced a myocardial infarction (31-79s)	Consecutive patients enrolled in a cardiac rehabilitation program	MBHI premorbid perssisism subscale ≥ 10 and cognitive depression subscale ≥ 12	303	41.9	7.9	BELG	+	+	+	−	−
Denollet, 2009	Women (46 -54 years)	Community sample (Eindhoven Perimenopausal Osteoporosis Study)	EDS ≥ 12	5073	NR	10	NL	+	+	+	+	+
Diefenthaeler, 2008	Chronic hemodialysis patients	All patients froma dialysis site	BDI ≥ 14	40	55.0	0.9	BRAS	+	+	±	±	+
Diez-Quevedo, 2012	Heart failure outpatients	Patients admitted to specialized outpatient center	GDS-4≥1	1017	41.7	5.4 yrs	SPAIN	±	+	+	+	+

	Patient group	Recruitment	Definition of depression	Total N	% de-pressed	FU period [a)]	Country	Quality [b)] Q1	Q2	Q3	Q4	Q5
Doyle, 2012	Patients with Acute Coronary Syndrome	Consecutive patients in hospitals		598	NR	8 yrs	Ireland	±	+	+	+	+
Drago, 2007	Patients with acute myocardial infarction	Consecutive patients admitted in coronary care unit for AMI	MDD	100	15.0	5	ITALY	±	−	+	−	+
Einwohner, 2004	Peritoneal dialysis patients	Patients from 3 dialysis centers	SDS ≥ 50	66	31.8	3	US	+	−	±	−	−
Engedal, 1996	Older adults (75 and older)	Community sample	DSM-III-R (Gurland algorithm)	334	15.9	3	NORW	+	+	+	+	−
Enzell, 1984	People born in 1905	Community sample	Positive respons to 5 questions indicating depression	4930	9.7	9	SWED	±	−	+	−	−
Espaulella, 2007	frail elderly patients admitted to post-acute care	Hospital patients	GDS-15 > 5	165	NR	0,5	SPAIN	±	±	+	+	+
Evans, 1993	Physically ill older inpatients	Random sample of acute admissions to a geriatric medical ward	Depressive disorder (GMS/AGECAT)	72	31.9	1	UK	−	±	±	−	−
Everson-Rose, 2004	Adults (25 and older)	Community sample	Highest 20% of CES-D score	3617	20.0	7,5	US	±	+	+	+	+
Faller, 2007	Patients with chronic heart failure	Consecutive patients to university hospital	Probable MDD and minD (based on PHQ-9)	231	MDD: 13.4 minD: 16.5 any: 29.9	2.8	GERM	±	+	+	±	+
Favaro, 2011	heart transplantation recipients	Hospital patients8,4	MDD (SCID)	107	8,4	8	Italy	+	+	±	+	+
Feng, 2012	Older Adults With Chronic Kidney Disease	Community sample	GDS-15≥5	362	13.0	4 yrs	SING	+	+	±	+	−
Ford, 1998	Male medical students	Follop-up of medical students	Self-report confirmed by clinicians	1190	11.1	37	US	+	+	+	+	+
Fortes, 2012	very elderly people	Reisdential home for the elderly	GDS-15≥7	147	42.2	10 yrs	ITALY	+	+	+	±	+
Frasure-Smith, 1995	patients hospitalized for myocardial infarction	Patients admitted to hospital	MDD (DIS) BDI ≥ 10	222	15.8	1,5	CA	+	+	+	+	−
Fredman, 1989	Adults	Community sample (ECA-Piedmont study)	MDD (DIS) and minD (DIS)	1606	2,7 (MDD) 2,6 (minD)	2	US	+	+	+	±	−
Fredman, 1999	Women	Community sample	CES-D ≥ 16	764	12,8	6	US	±	+	+	±	+
Freedland, 1991	Older congestive heart failure patients	Consecutive inpatients	MDD (DIS; DSM-III-R)	60	16.7	1	US	±	+	+	−	−

	Patient group	Recruitment	Definition of depression	Total N	% de-pressed	FU period [a)]	Country	Quality [b)] Q1	Q2	Q3	Q4	Q5
French, 2009	Women with HIV	Patients from 6 cities	CES-D ≥ 16	2792	52.9	10	US	−	+	+	+	+
Fu, 2003	Older adults	Community sample	CES-D ≥ 15	281	50.3	12	TAIW	+	+	+	±	+
Fuhrer, 1999	Older adults (65 and older)	Community sample	CES-D ≥ 17 in men and ≥ 23 in women	3777	13.9	5	FRANCE	+	+	+	+	+
Gale, 2012	Military service	Community sample	ICD	1095338	0.9	18.3	SWE	±	+	±	+	+
Gallo, 1997	Adults (50 and older)	Community sample (ECA Baltimore)	MDD (DIS) Nondysphoric depression Sadness	1612	MDD: 2.1 Nondysph : 5.9 Sadness: 11.4	13	US	+	−	±	±	+
Ganzini, 1997	Medically ill older adults (≥ 65)	Veterans recruited from inpatient and surgical units	MDD (as diagnosed by a psychiatrict) + GDS-30 ≥ 14	100	50.0	2.5	US	±	+	+	±	+
Grace, 2005	Patients with unstable angina pectoris and myocardial infarction	Patients from 12 coronary care units	BDI > 10	750	23.2	5		+	+	+	+	+
Gripp, 2007	Terminally ill cancer patients	Patients from Radiation Oncology Department of a University Hospital	HADS-D > 10	154	28,6	0,5	GERM	±	+	+	−	+
Groenvold, 2007	Primary breast cancer patients	Cancer treatment center	HADS-D ≥ 10	1588	NR	12,9	DENM	±	−	±	±	+
Grool, 2012	Patients With Lacunar Infarcts	Referrals to University hospital	lowest quartile on SF-36-MCS	1281	25.0	6 yrs	NL	±	+	+	+	+
Gudmundsson, 2012	patients hospitalized for chronic obstructive pulmonary disease	Hospital patients	HADSD	256	9.0	8.7 yrs	NORDIC C	±	+	+	+	+
Guerini, 2010	elderly patients after orthopaedic surgery of the lower limbs	elderly patients discharged from a rehabilitation unit	GDS-15 ≥ 11	222	5.9	1	Italy	±	+	+	±	−
Hamer, 2011	Older adults (≥ 65)	Community sample	GDS-15 ≥ 5	1007	20.9	9,2	UK	+	+	+	+	+
Haukkala, 2009	Adults (25-74)	Community sample	BDI-II > 12	7710	25.0	10-15	FINL	±	−	+	+	+
Havik, 2007	Heart transplantation patients	Patients who came for annual medical evaluation	BDI ≥ 10	147	24.5	5	NORW	+	+	+	+	+
Hayashi, 2007	Older patients (≥ 70 years)	Consecute patients in geriatric outpatient clinics	Depression according to DSM-IV, antidepressant prescription of GDS-15 ≥ 8	150	21.9	2,75	JAPAN	±	+	±	−	−
Hedayati, 2004	Congestive heart failure patients	Consecutive patients of cardiac treatment center	MDD (DIS) + BDI ≥ 10	326	14.1	1	US	+	+	+	±	−

	Patient group	Recruitment	Definition of depression	Total N	% de-pressed	FU period [a)]	Country	Quality [b)] Q1	Q2	Q3	Q4	Q5
Hedayati, 2010.	Chronic kidney disease patients	Consecutive outpatients	MDD (MINI)	267	21.0	1	US	+	+	+	±	+
Helmer, 1999	Older adults (≥ 65)	Community sample	CES-D ≥ 16 for men and ≥ 22 for women	3561	13.1	5	FRANCE	+	+	+	+	+
Henderson, 1997	Older adults (≥ 70 years)	Community sample	MDD and dysth (CIE/diagnostic interview; DSM-IV)	1045	3.1	3.6	AUSTR	+	±	−	−	−
Herrmann-Lingen, 2001	Medical inpatients	Consecutive patients of genral medical wards of university hospital	HADS-D > 8	575	21.7	1	GERM	±	+	+	+	+
Herrmann, 1998	Medical inpatients	Consecutive patients of genral medical wards of university hospital	HADS-D > 8	452	23.9	1.8	GERM	+	+	+	±	+
Hjaltadottir, 2011	nursing home residents	patients admitted to nursing home	DRS≥14	2194	2.4	3 yrs	ICEL	±	+	+	±	+
Ho, 2005	Patients undergoing cardiac valve surgery	Patients from 14 medical centers	MHI ≤ 52	648	29.2	0,5	US	±	−	+	±	−
Hoch, 1993	Patients with depression, dementia, mixed illnesses	Case control study; majority from geropsychiatric inpatient unit	MDD (SADS; DSM-III / RDC)	102	50.0	2	US	−	±	±	+	+
Holmes, 2000	Older hip fracture patients	Patients from 2 hospitals	Depressive disorder (GMS/AGECAT)	731	12.7	0,5	UK	+	+	+	±	+
Hosseini, 2011	Patients hospitalized for acute myocardial infarction	Consecutive patients in cardiac units in one province of Iran	BDI ≥ 10	540	65.6	2	Iran	+	+	±	+	−
Hughes, 2004	Patients with Parkinson's disease and control group	Case control study, with controls recruited from several sources	MADRS ≥ 20	140	33.6	11	UK	±	+	+	±	+
Imai, 2012	Older community dwelling adults	Community sample	GDS-15≥6	1600	34.4	4 yrs	JAP	−	−	+	±	+
Inouye, 1998	Oler hospitalized patients (≥ 70 years)	Consecutive patients at general medical wards of a hospital	GDS-15 ≥ 7	207	18.4	2	US	+	+	+	±	+
Ismail, 2007	Patients with their first diabetic foot ulcer	Recruiting from general population	MDD and minD (SCAN / DSM-IV)	253	MDD: 24.1 minD: 8.1	1.5	UK	+	+	+	+	+
Iversen, 2009	Adults (≥ 20 years)	Recruiting from general population	HADS-D ≥ 8	64109	10.9	10	NORW	+	−	±	+	+
Janzing, 1999	Dementia patients	Inhabitants of residential homes for the elderly	Depressive disorder and subthreshold (GMS/AGECAT)	73	DD: 15.1 Subthr: 28.8	1	NL	±	−	±	±	−

	Patient group	Recruitment	Definition of depression	Total N	% de-pressed	FU period [a)]	Country	Quality [b)] Q1	Q2	Q3	Q4	Q5
Jiang, 2001	Congestive heart failure patients	patients admitted to cardiology service at hospital	MDD (DIS) + BDI ≥ 10	374	MDD: 13.9 BDI ≥ 10: 16.3	1	US	+	+	+	−	+
Jiang, 2007	Congestive heart failure patients	patients admitted to cardiology service at hospital	MDD (DIS) + BDI ≥ 10	1006	30.0	2.7	US	+	+	+	±	+
Jorm, 1991	Older adults (≥ 70 years)	Community sample	MDD and dysphoric mood (GMS / DSM-III)	228	MDD: 14.5 dysphoric : 30.7	5	AUSTR	±	±	+	−	−
Joukamaa, 2001	Adults (≥ 30 years)	Community sample	Neurotic depression (PSE)	7217	4.7	16	FINL	+	−	+	±	+
Jubran, 2010	during weaning from prolonged mechanical ventilation	Patients from one hospital	Depressive disorder (DSM-IV)	336	42,3	NR	US	±	−	−	±	−
Junger, 2005	Congestive heart failure patients	Hospital patients	HADS-D ≥ 8	209	30.1	2.07	GERM	±	+	+	±	+
Kaplan, 2007	Adults	Community sample (Alameda county)	Depression scale ≥ 5	6928	NR	30	US	+	−	+	±	−
Karvonen-Gutierrez, 2008	Head and neck cancer patients	Patients from 4 hospitals	GDS (not clear which version) ≥ 4	495	47.8	6	US	±	+	+	+	+
Kato, 2009	Heart failure patients	Outpatients from hospital	CES-D ≥ 16	115	23.5	2	JAP	+	+	+	−	+
Katon, 2005	Patients with Type 2 Diabetes	Patients from HMO	PHQ-MDD, PHQ-minD	4154	PHQ-MDD: 12.0 PHQ-minD: 8.5	3	US	+	−	+	+	+
Katz, 1989	Nursing home residents	Inhabitants of long-term care units	MSQ ≥ 6 and MDD (SADS; DSM-III)	51	15.7	2.75	US	−	−	+	−	−
Kaufmann, 1999	Acute myocardial infarction patients	Consecutive patients in hospital	MDD (modified DIS)	331	28.0	1	US	+	−	±	±	−
Kawamura, 2007	Older adults (≥ 65 years)	Community sample	MDD or minD (RDC criteria)	920	17.2	15	JAP	±	±	+	±	−
Kerr, 2011	Adults (≥18)	Community sample (NAS 1984 and 1995); minorities oversampled	CESD ≥ 16	9994	17.9	16,5	US	+	−	+	±	+
Koenig, 1998	Inpatients admitted to hospital	Consecutive patients admitted to general medicine, cardiology and neurology services	MDD (DIS; DSM-IV) + CES-D ≥ 16 + HAMD ≥ 11; minD (DIS; DSM-IV)	542	29.0	0,9	US	+	−	±	±	+

	Patient group	*Recruitment*	*Definition of depression*	*Total N*	*% de-pressed*	*FU period* [a)]	*Country*	*Quality* [b)] *Q1*	*Q2*	*Q3*	*Q4*	*Q5*
Koenig, 1999	Hospitalized medically ill male veterans (20-39, and 65-102 years)	Consecutive admissions general medicine and neurology services of hospital	BCDRS ≥ 6; GDS-30 ≥ 8	1001	BCDRS: 20.7 GDS: 40.3	9	US	+	+	+	+	+
Kohler, 2013	older primary care patients (>75)	from 138 general practices	GDS-15≥6	2854	9.1	6 yrs	GERM	+	+	±	+	+
Kojima, 2010	Chronic Hemodialysis Patients	Patients from 3 clinics	BDI-II ≥ 14	230	43,0	5	JAP	+	−	+	+	+
Kopp, 2011	Adults (40-69)	Community sample (Hungarian Epidemiological Panel)	BDI-9 ≥ 25	2659	16,5	3,5	HUNG	+	−	+	±	+
Kouzis, 1995	Adults	Community sample (4 ECA sites)	MDD (DIS)	15567	NR	1	US	±	−	±	±	−
Krause, 2008	Patients with spinal cord injury	Patients treated for SCI in hospital	OAHMQ ≥ 11	1389	NR	8	US	+	+	+	±	+
Kronish, 2009	Patients with acute coronary syndrome	Hospitalized patients	MDD (m-DIS; DSM-IV)	457	10.6	1,5	US	+	−	+	−	+
Kuo, 2004	Older diabetes patients (≥ 65 years)	Medicare beneficiaries	3 core questions on depression	8949	21.4	2	US	+	±	+	+	−
Kuo, 2011	elderly with self-reported hypertension	Community sample	CESD17≥15	3736	16.8	18 yrs	TAIWAN	+	+	+	+	+
Kurdyak, 2008	Acute myocardial infarction patients	Patients discharged from 53 hospitals	BCDRS-9 ≥ 5	1941	25.5	1.5	CAN	+	−	±	+	+
Kuzuya, 2006	Older adults	Community sample	GDS-15 ≥ 6	1673	43.2	1.75	JAP	+	−	+	±	+
Lacson, 2012	incident hemodialysis patients	Patients admitted to medical center	SF-36-MH2	6415	20.7	1 yr	US	−	±	±	±	+
Ladwig, 2005	Adults (25-74 years)	Community sample	Zerssen symptom list	13793	26.3	11	GERM	±	−	±	+	+
Lane, 2001	Myocardial infarction patients	Hospitalized patients	BDI ≥ 10	288	30.9	3	UK	+	+	+	+	+
Lauzon, 2003	Myocardial infarction patients	Hospitalized patients from 10 hospitals	BDI ≥ 10	550	34.7	1	CAN	+	+	+	+	+
Lavretsky, 2010	Older adults (≥ 50 years)	Community and memory clinics	Symptoms of depression	498	16.2	12	US	−	−	−	±	+
Lesperance, 2000	patients with unstable angina who did not require coronary artery bypass surgery before hospital discharge.	Patients from the Montreal Heart Institute	BDI ≥ 10	430	41.4	1,5	CAN	+	+	+	+	+
Liebetrau, 2008	Older adults (85 years)	All 85 year old people in one city	MDD, DYS, Dep NOS (DSM-III-R; diagnostic interview)	494	18.8	3	SWE	+	+	±	+	+

	Patient group	Recruitment	Definition of depression	Total N	% de-pressed	FU period [a)]	Country	Quality [b)] Q1	Q2	Q3	Q4	Q5
Lindesay, 1989	Depressed older adults compared with community controls	Referred patients to psychogeraitric clinic	Depressive disorder (PSE; Feighner criteria)	324	38.3	4	UK	−	−	±	−	−
Lo, 2009	Parkinson's disease patients	Patients from HMO	UPDRS I,Q3 ≥ 2	464	12.1	1	US	+	+	+	±	+
Loberiza, 2002	Hematopoietic stemcell transplantation patients	Patients scheduled for transplantation in a hospital	Feeling depressed + four or more other symptoms	193	34,7	1	US	+	−	±	±	+
Lupon, 2008	Heart failure patients	Consecutive patients referred to cardiac unit	GDS-15 (cut-off not reported)	622	25.2	1	SP	±	+	+	−	+
Luukinen, 2003	Older adults (≥ 70 years)	Community sample	s-SDS ≥ 28	915	19.1	8	FINL	±	−	+	−	+
Luutonen, 2002	Acute myocardial infarction patients	Consecutive patients from 2 hospitals	BDI ≥ 10	85	21.2	1,5	FINL	±	−	±	−	−
Lyketsos, 1996	Male HIV patients without AIDS	Community volunteers	CES-D ≥ 16	1718	21.2	8	US	−	−	±	±	+
Mainio, 2006	Patients with brain tumor	Patients treated surgecally in hospital	BDI ≥ 10	74	21.6	12	FINL	±	+	+	±	+
Mallon, 2002	Adults (45-60 years)	Community sample	HADS-D ≥ 8	1870	13.1	12	SWE	+	+	+	+	+
Markkula, 2012	Adults living in the community	Community sample	CIDI	6372	5.6	8 yrs	FINL	+	+	+	+	+
Marzari, 2005	Older adults (≥ 65 years)	Community sample	GDS-30 ≥ 10	5632	NR	4	ITA	±	−	+	−	+
Mayne, 1996	Male HIV patients	Patients from study on men's health	CES-D ≥ 16	402	57.2	3	US	+	−	+	±	+
McCusker, 2006	Older medical inpatients (≥ 65 years)	Patients admitted to intensive care or cardiac units of 2 hospitals	MDD or minD (DIS; DSM-IV)	715	64.2	2.8	CAN	+	+	+	±	+
Mehta, 2003	Older adults (≥ 70 years)	Community sample (AHEAD)	CES-D-8 ≥ 3	6301	25.2	2	US	+	+	+	+	+
Mehta, 2013	Patients with coronary heart disease	patients undergoing surgery	MARDS>6	1648	39.8	1 yr	INDIA	−	−	−	±	−
Melkas, 2010	Acute ischemic stroke patients	Consecutive patients from hospital	Depressive disorders (SCAN; DSM-III-R)	257	38.5	12	FINL	+	+	+	±	+
Meller, 1999	Older adults (≥ 85 years)	Community sample	Depressive disorder (DSM-III-R)	358	NR	1	GERM	+	+	+	±	+
Miu, 2011	Community dwelling older adults	new attendances of a geriatric day hospital of a regional hospital in Hong Kong	GDS-15 ≥ 8	209	22.5	1	CHI	±	+	+	−	+
Mogga, 2006	Adults with MDD compared with non-depressed controls	Community sample	MDD (DSM-IV; CIDI)	600	50.0	3.7	ETH	+	±	±	−	−

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Mollica, 2001	Refugees from Bosnia	Inhabitants of efugee camp in Croatia	Indication of MDD based on HSCL (no formal diagnosis)	529	39.1	3	BOSN	±	+	+	±	−
Moraska, 2013	Heart failure patients	in- and outpatients	PHQ9≥10	402	11.0	1.6 yrs	US	+	+	+	±	+
Morgenstern, 2011	Stroke patients	patients presenting at medical center	PHQ9	669	NR	2 yrs	US	+	−	+	+	+
Morris, 1993A Am J Psychiatry	Stroke patients	Consecutive patients	MDD or minD (PSE / DSM-III)	91	40.7	10	US	+	−	+	+	−
Morris, 1993B, Austr Nw Zeal J Psychiatry	Stroke patients	Consecutive patients undergoing rehabilitation	MDD or minD (CIDI; DSM-III)	82	MDD: 15.9 minD: 25.6	1,25	AUSTR	+	−	+	−	−
Mroczek, 2007	Adult men	Community sample (Department of Veterans Affairs'Normative Aging Study)	SCL-90-D	1663	NR	18	US	−	−	+	±	+
Murphy, 1988	Older depressed patients compared with community controls	Patients referred to psychiatric services	Depressive disorder (PSE)	310	47.1	4	UK	±	+	+	±	−
Murphy, 2008	Adults	Community sample (Stirling county study)	Depressive disorder according to interview (no fomal diagnosis)	1079	5.2 (n=56)	40	UK	±	+	+	±	+
Murphy, 2013	Women with acute cardiac event	Hospital admissions	HADSD≥8	136	19.9	12 yrs	AUSTR	+	±	+	+	−
Mykletun, 2007	Adults (≥ 20 years)	Community sample	HADS-D ≥ 8	60280	4.8	4.4	NORW	±	−	+	+	+
Nabi, 2010	Civil servants (35-55)	Community sample	CESD ≥ 16	5936	14.9	5.6	UK	+	±	+	+	+
Nakaya, 2006	Lung cancer patients	Patients with postoperative cancer	MDD or minD (DSM-III-R; SCID)	229	5.7	5,75	JAP	+	−	±	+	+
Nakaya, 2008	Lung cancer patients	Patients enrolled in prospective study on lung cancer	HADS-D ≥ 8	1178	22.2	2.5	JAP	+	+	+	+	+
Ng, 2007	Patients with chronic obstructive pulmonary disease (COPD)	Consecutive hospital patients	HADS-D ≥ 8	376	44.4	1	SING	+	+	±	+	+
Nightingale, 2001	Older hip fracture patients	Hospital patients	Depressive disorder (GMS-AGECAT)	731	12.7	2	UK	±	+	+	±	+
Novak, 2010	Patients after kidney transplantation	Kidney transplant outpatient clinic	CES-D ≥ 18	840	22.3	5	HUNG	+	−	+	±	+
O'Connor, 1998	Nursing home residents	Residents from 11 homes	BDI	129	16.0	4	CAN	±	+	±	±	+
O'Connor, 2008	Patients with heart failure	Patients admitted to cardiology service	BDI ≥10	1006	30.0	2.7	US	+	+	+	±	+

	Patient group	Recruitment	Definition of depression	Total N	% de-pressed	FU period [a)]	Country	Quality [b)] Q1	Q2	Q3	Q4	Q5
Okura, 2011	Older adults (≥ 71) with cognitive impairmenti	Selected from community sample (ADAMS)	NPI (cut-off not reported)	537	25.0	5	US	+	−	+	±	+
Onitilo, 2006	Adults (25 - 74 years)	Community sample (NHANES)	CES-D ≥ 16	10025	25.3	8	US	±	+	+	+	+
Page-Shafer, 1996	HIV infected homosexual or bisexual men	recruited from census tracts with the highest incidence of AIDS (San Francisco Men's Health Study; SFMHS)	CES-D ≥ 16	395	45.8	8.5	US	+	±	+	+	+
Pan, 2011	Nurses (35-50)	Community survey (Nurses' Health Study)	MHI-5 score ≤ 52	78282	15.5	6	US	+	+	+	+	+
Papaioannou, 2013	Patients hospitalized for acute exacerbations of COPD	Hospital admissions	BDI≥19	230	39.0	1 yr	GREECE	+	+	±	+	±
Parakh, 2008	Hospitalized myocardial infarction patients	Patients with acute MI admitted to cardiology service at hospital	MDD and dysthymia (SCID; DSM-IV)	208	MDD: 10.3 Dysthymia: 3.2 BDI ≥ 10: 20.0	8	US	+	+	+	+	+
Parashar, 2006	Myocardial infarction patients	Patients from 19 cardiac centers	PHQ ≥ 10	1873	20.6	0,5	US	±	−	+	+	+
Parmelee, 1992	Nursing home and congregate apartment residents	Residents of one large facility	Algorithm based on sads an gds-30	898	Possible mdd: 12.9 Possible minD: 30.2	1,5	US	±	±	+	±	+
Patten, 2011	Adults (≥ 18 yrs)	Community sample	MDD (CIDI-SF)	14117	5.5	12 yrs	CAN	+	±	+	+	+
Pelle, 2010	Patients with chronic heart failure	Consecutive outpatients	SADI ≥ 3	641	26.3	3.1	NL	+	+	+	±	+
Penninx, 1998	Older adults (≥ 70)	Community sample (EPESE)	CESD	3701	12.9	4	US	+	±	+	+	+
Penninx, 1999	Older adults (55-85 years)	Community sample (LASA)	MDD (DIS; DSM-III) CES-D ≥ 16	3056	MDD: 2.0 CES-D ≥ 16: 12.8	4.2	NL	+	−	+	+	+
Penninx, 2000 J Am Geriatr Soc	Moderately to severely disabled women	Community sample (Women's Health and Aging Study)	GDS-30 ≥ 10	1002	31.6	3	US	±	+	+	±	+
Philips, 2008	Female nonmetastatic breast cancer	Population based study	HADS-D	708	2.8	8.2	AUSTR	±	+	+	+	+
Phillips, 2009	Vietnam veterans	Random selection of Vietnam veterans (Vietnam Experience Study)	MDD (DIS; DSM-IV)	4256	6.5	15	US	+	+	+	+	+

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Pieper, 2011	Primary care patients	Selection from 3188 GPs	DSQ ≥ 8	5420	12.2	4.5	GERM	+	−	±	+	+
Pina-Escudero, 2011	Older adults	Community sample	m-CESD	2615	43.1	2 yrs	MEX	±	−	+	+	+
Pirl, 2008	Advanced non-small cell lung cancer patients.	Patients in ambulatory thoracic oncology clinic (EIPC study)	HADS-D ≥ 8	43	23.3	0,5	US	±	+	±	±	+
Pitkala, 2003	Older adults (75, 80 and 85 years)	Community sample	SDS ≥ 45	411	SD3,5S ≥ 45: 23.8	10	FINL	±	−	+	−	−
Pitsavos, 2007	Heart disease patients	Consecutive patients entering cardiology clinics or emergency units	CES-D ≥ 20	2172	33.3	0.1	GRE	+	−	−	+	−
Pollak, 1990	Older adults (65-98 years)	Community sample	CES-D ≥ 16	1855	NR	3.5	US	−	+	±	±	+
Prieto, 2005	Hematological cancer patients who survived longer than90 days after stem-cell transplantation	Patients recruited through hospital	MDD and minD (clinical interview; modified DSM-IV)	199	MDD: 8.5 minD: 9.0	5	SPAIN	+	+	±	+	+
Prince, 1998	Older adults (≥ 65 years)	Community sample	Depression according to SHORTCARE instrument	507	17.7	1	UK	+	±	+	−	−
Pulska, 1997	People born in 1923	Community sample (Ahtari study)	MDD (diagnostic interview)	1272	MDD: 2.2	6	FINL	+	+	+	+	+
Rapp, 2008	Older adults (≥ 70 years)	Community sample (Berlin Aging Study)	Depressive disorder (DSM-III-R; GMS-A)	497	25.8	15	GERM	+	±	+	±	+
Richardson, 1990 A	Patients with hematologic malignancies	Newly diagnosed patients	SDS ≥ 59	90	14.4	0,5	US	±	+	±	±	+
Richardson, 1990 B	Patients with rectal cancer	Newly diagnosed patients	SDS ≥ 59	47	12.8	0,5	US	±	+	±	±	+
Riezebos, 2010	Patients with end-stage renal disease	Hospital patients	HADS-D ≥ 7	101	41.6	1	NL	+	+	+	±	+
Rollman, 2012	Hospitalized Heart Failure Patients	Patients in hospital	PHQ2≥1	471	78.8	1 yr	US	±	+	+	±	−
Romanelli, 2002	Older patients (≥ 65 years) with myocardial infarction	Patients hospitalized with acute MI	BDI ≥ 10 or MDD / dysth (SCID; DSM-III-R)	153	22.9	0,33	US	±	±	±	−	−
Rovner, 1991	Nursing home residents	Consecutive admissions	Depressive disorder (M-PSE; DSM-III-R) Depressive symptoms (M-PSE)	454	DD: 12.6 Symptoms: 18.1	1	US	+	+	±	±	+
Rozzini, 2012	Older adults (>70 yrs)	Community sample	sGDS>3	549	44.0	5 yrs	ITALY	±	+	±	±	+

	Patient group	*Recruitment*	*Definition of depression*	*Total N*	*% de-pressed*	*FU period* [a)]	*Country*	*Quality* [b)] *Q1*	*Q2*	*Q3*	*Q4*	*Q5*
Rutledge, 2003	Older women (≥ 65 years)	Community sample	GDS-15 ≥ 6	7524	NR	6	US	±	+	+	+	+
Rutledge, 2006	Women referred for a coronary angiogram		BDI ≥ 17	505	18.2	2.3	US	±	−	+	+	+
Ryan, 2008	Older adults (≥ 65 years)	Community sample (3C study)	MDD (Mini; DSM-IV) or CES-D ≥ 23	7363	10.2	4	FRANCE	+	±	±	+	+
Ryan, 2012	Older adults (>65 yrs)	Community sample from 3 cities	CES-D≥16	5135	29.1	6 yrs	FRANCE	+	+	+	+	+
Saito-Nakaya, 2006	Patients with resectable non-small-cell lung cancer	Consecutive newly diagnosed patients	Depressive disorder (SCID; DSM-IV)	238	6.3	5.9	JAP	+	+	+	+	+
Saito-Nakaya, 2008	Patients with non-small cell lung cancer	Consecutive newly diagnosed lung cancer Patients (the Lung Cancer Database Project)	HADS-D ≥ 4	1230	45.1	2	JAP	+	−	+	+	+
Santos, 2012	end-stage renal disease patients undergoing hemodialysis	Patient of a renal unit	CESD10≥10	161	8.0	1 yr	BRAS	+	+	+	±	−
Saz, 1999	Older adults (≥ 65 years)	Community sample	Psychotic and neurotic depression (AGECAT)	1080	10.6	4,5	SPAIN	±	±	±	−	−
Schiffer, 2009	Chronic heart failure patients	CHF outpatients	BDI ≥ 10	366	36.0	1	NL	+	+	+	+	+
Schleifer, 1989	Patients with myocardial infarction	Consecutive patients with MI hospitalized in one hospital	MDD and minD (RDC criteria)	283	MDD: 18.4 minD: 26.9	0,25	US	+	+	+	−	−
Schoevers, 2000	Older adults (≥ 65 years)	Community sample	Neurotic and psychotic depression (GMS / AGECAT)	4501	12.9	6	NL	+	±	+	±	+
Schuckit, 1980	Older medical patients	Patients admitted to hospital	Depressive disorder (Feighner criteria)	280	7.3	3	US	+	+	+	−	−
Schulz, 2000	Older adults (≥ 65 years)	Community sample from 4 communities (Cardiovascular Health Study)	CES-D-10 ≥ 8	5201	20.0	6	US	+	+	+	+	+
Sehlen, 2012	cancer patients undergoing radiotherapy	Hospital patients	SDS	938	43.1	5 yrs	GERM	+	±	+	±	+
Shamash, 1992	Patients (≥ 60 years) undergoing emergency hip surgery	Consecutive patients in a hospital	BAS-DEP ≥ 13	45	26.7	1	UK	±	+	±	±	−
Sharifi, 2012	Nursing home residents	through nursing home	GDS15≥12	247	NR	3.3 yrs	IRAN	+	+	+	+	+

	Patient group	Recruitment	Definition of depression	Total N	% de-pressed	FU period [a)]	Country	Quality [b)] Q1	Q2	Q3	Q4	Q5
Sharma, 1998	Depressed patients compared with subthreshold and non-depressed people	Selection from community sample	Depressive disorder (GMS / AGECAT)	245	DD: 54.2 Subthr: 21.3	5	UK	−	±	±	−	−
Shekelle, 1981	Men (40 to 55 years)	Employees of a company (WEHS study)	MMPI-D based on total MMPI	2020	18.8	17	US	+	−	+	+	−
Singh, 1997 A	Patients with cirrhosis	Patients with end- stage liver disease evaluated for liver transplantation	BDI ≥ 10	81	64.2	0,5	US	+	+	±	−	+
Snowdon, 1995	Older adults (≥ 65 years)	Community sample	BAS ≥ 8 + BDI ≥ 13 + HAM-D ≥ 13 Or: BAS = 7 + BDI ≥ 13 and HAM-D ≥ 15 And depressive disorder (DSM-III)	146	13.0	8	AUSTR	±	±	±	−	−
St John, 2012	Older adults (≥ 65 yrs)	Community sample from 3 cities	CES-D≥16	1751	13.8	5 yrs	CAN	+	+	+	±	+
Stage, 2005	COPD patients	Outpatients	DD according to psychiatric interview (ICD-10)	49	46.9	2.2	DENM	±	+	+	+	+
Stamatakis, 2004	Adult men (42, 48, 54 and years old)	(Kuopio Ischemic Heart Disease Risk Factor Study)	Human Population Laboratory Depress scale ≥ 4	2682	18.2	10	FINL	+	−	+	+	+
Steel, 2007	Patients with hepatobiliary carcinoma	Consecutive patients admitted to hospital	CES-D ≥ 16	101	35.9	NR	US	+	+	+	+	+
Stek, 2005	Older adults (85 years)	Community sample (Leiden 85 plus study)	GDS-15 ≥ 4	476	22.9	5	NL	+	+	+	+	+
Steptoe, 2011	Older adults	Community sample from 3 cities	CES-D8≥3	3853	10.8	5.1 yrs	UK	+	−	+	+	+
Stern, 2001	Older adults (64-79 years)	Community sample (San Antonio Longitudinal Study of Aging; SALSA)	GDS-30 ≥ 11	795	17.5	5,2	US	+	+	+	+	+
Stommel, 2002	Patients with breast, colon, lung, and prostate carcinoma	Recruited from hospitals	CES-D ≥ 16	871	32.4	1.6	US	+	+	+	±	+
Sudore, 2012	Adults with Type 2 Diabetes	HMO members	PHQ2	13171	24.1	2 yrs	US	+	+	+	±	−
Sullivan, 2003	Patients with stable coronary disease	HMO patients	MDD (DIS / HAM-D)	199	MDD: 12.6 minD: 18.7	5	US	+	−	+	±	+

	Patient group	*Recruitment*	*Definition of depression*	*Total N*	*% de-pressed*	*FU period* [a)]	*Country*	*Quality* [b)] *Q1*	*Q2*	*Q3*	*Q4*	*Q5*
Sullivan, 2004	Patients with advanced heart failure	Outpatients recruited through HMO	MDD (PRIME-MD interview)	142	28.3	3	US	+	+	+	+	+
Sutcliffe, 2007	Residents of care homes	Newly admitted residents	GDS-12R ≥ 5	308	43.2	0.4	UK	+	±	−	−	+
Suthahar, 2008	Cancer patients	Newly diagnosed treatment naïve cancer patients in 1 hospital	HADS-D > 7	80	NR	2.17	MAL	+	+	±	±	+
Suzuki, 2011	Hospitalized patients with cardiovascular disease.	Cardiology department of a hospital in Tokyo	Zung SDS	505	21.6	3.2	JAP	±	+	±	+	+
Takeida, 1997	Older adults (60-74 years)	Community sample	SDS ≥ 2,4	2166	11.5	4	JAP	±	−	+	+	−
Takeshita, 2002	Japanese American men in Hawaii (73-93 years)	(Honolulu Heart Program)	CES-D-11	3196	9.9	6	US	+	+	+	+	+
Teng, 2013 A	Older adults (> 60 yrs)	Community sample from 3 cities	CESD10≥10	1784	32.5	4 yrs	TAI-WAN	+	±	+	+	+
Testa, 2011	elderly with chronic heart failure	Community sample from 3 cities	GDS-30≥21	1268	12.3	12 yrs	ITALY	±	±	±	±	+
Teunissen, 2006	Hospitalised advanced cancer patients	Hospitalised patients referred to a palliative care team	Depression according to semi-structured interview with nurse	181	27.1	2.2	NL	−	+	±	±	+
Thombs, 2008	Patients hospitalized for acute coronary syndrome	Patients from 12 coronary care units	BDI ≥ 10	800	5.6	1	CAN	±	+	+	+	−
Tian, 2009	Patients with esophageal, stomach, or colorectal cancers	Patients from 4 hospitals	Zung SDS > 40	113	63.7	1	CHI	+	+	±	±	−
Tilvis, 1998	Older adults (65, 75, 80, 85 years)	Community sample	Depressive disorder (interview according to DSM-III) SDS ≥ 40	1330	DD: 2.5 SDS ≥ 40: 31.6	5	FINL	−	−	−	±	+
Tully, 2008	Coronary artery bypass graft patients	Patients undergoing a first-time CABG	DASS-D ≥ 10	440	20.2	5.8	AUSTR	±	+	+	±	+
Tzeis, 2011	Implantable cardioverter defibrillator recipients	Patients of the German Heart Center outpatient clinic	HADS-D ≥ 8	236	21.2	6.1	GERM	+	+	+	±	+
Vaccarino, 2001	Patients (≥ 50 years) with decompensated heart failure	Consecutive patients to hospital	GDS-15 ≥ 11	391	9.0 (n=35)	0,5	US	+	+	+	+	−
van den Brink, 2005	Older men born between 1900 and 1920	Community sample	SDS	1141	Highest tertile	10	EU (3)	±	+	+	±	+
Van den Broek, 2011	Older adults (≥ 65)	Community study (CHS study)	CES-D-10 ≥ 8	4114	20.4	14	US	+	+	+	+	+
Van Dijk, 2012	patients with end-stage renal disease	Incident patients in 38 health centers	MHIKDSQLSF>52	1528	22.7	5 yrs	NL	±	+	+	±	+

	Patient group	*Recruitment*	*Definition of depression*	*Total N*	*% de-pressed*	*FU period* [a)]	*Country*	*Quality* [b)] *Q1*	*Q2*	*Q3*	*Q4*	*Q5*
van Jaarsveld, 2006	Patients with incident congestive heart failure and acute myocardial infarction	Recruited from population sample	HADS-D ≥ 8	472	26.3	7	NL	+	+	±	+	+
Vogt, 1994	Adults	Community sample (member of a large HMO)	High depression score based on questions from DSM-III	2573	37.3	15	US	+	+	±	+	+
Volz, 2011	Patients with chronic heart failure	Patients of a standard outpatient cardiac rehabilitation program	HADS-D ≥ 10	111	26.1	2.8	SWIT	+	+	±	+	+
von Ammon Cavanaugh, 2001	Medical inpatients	Consecutive admissions to 1 hospital	MDD (SADS/ DSM-IV)	151	16.6	NR	BRAS	±	+	±	±	−
Wassertheil-Smoller, 2004	Postmenopausal women (50-79 years)	Recruited at 40 clinical centers (WHI-OS study)	CES-D-6 ≥ 5	91676	22.0	4.1	US	±	−	+	−	+
Watkins, 2013	Patients with With Coronary Heart Disease	in/outpatient visit for diagnostic cardiac catheterization in one hospital	HADSD≥8	934	17.6	3 yrs	US	±	+	±	±	+
Watson, 2005 (and Watson, 1999)	Early stage breast cancer patients (women)	Hospital patients	HADS-D ≥ 11	578	1.7	10	UK	±	+	±	−	+
Welin, 2000	Patients (below 65 years) with a first myocardial infarction	Patients from a myocardial infarction register + outpatient clinic	SDS ≥ 40	275	36.7	10	SWE	+	+	±	+	+
Whang, 2010	patients with unstable angina	patients admitted to 3 university hospitals	BDI ≥ 10	209	49.8	3.5	US	+	+	±	±	+
Wheeler, 2012	Patients with acute myocardial infarction	Patients admitted to hospitals	CESD≥27	336	39.3	5 yrs	AUSTR	−	+	±	±	+
Whooley, 1998	Women (≥ 67 years)	Community sample	GDS-15 ≥ 6	7518	6.3	7	US	+	+	+	+	+
Whooley, 2008	Patients with Coronary Heart Disease	(Heart and Soul study)	PHQ-9 ≥ 10	1017	19.6	4.8	US	+	+	±	+	+
Williams, 2006	Patients with dementia with Lewy bodies or Alzheimer disease	Community recruitment	Psychiatric interview	315	NR	NR	US	±	+	−	±	+
Wilson, 2007B	Older adults (≥ 75 years) discharged from hospital	Consecutive patients from 2 hospitals	Depressive disorder (GMS/AGECAT)	158	34.1	2	UK	±	−	±	−	+
Winkley, 2007	Patients with their first diabetic foot ulcer	Community chiropody and hospital foot clinics	MDD, minD (SCAN; DSM-IV)	253	32.4	1,5	UK	±	+	+	+	+

	Patient group	*Recruitment*	*Definition of depression*	*Total N*	*% de-pressed*	*FU period* [a)]	*Country*	*Quality* [b)] *Q1*	*Q2*	*Q3*	*Q4*	*Q5*
Winkley, 2012	Patients with first diabetec foot ulcer	Patients presenting at at all hospital foot and community chiropody clinics	MDD (SCAN)	253	32.2	5 yrs	UK	±	+	±	±	+
Wu, 2010	Patients with heart failure	Patients from outpatient cardiology clinics	PHQ-9 > 10	136	30.1	1.08	US	±	+	±	±	+
Wulsin, 2005	Adults (30-91 years)	Community sample (Framingham Heart Study)	CES-D ≥ 16	3634	14.1	5.9	US	±	+	±	+	+
Wyman, 2012	Adults (> 18 yrs)	Community sample	CES-D≥16	2746	20.5	40 yrs	US	±	−	±	±	+
Yaffe, 2003	Frail elderly living in the community	Patients eligible for nursing home placement	GDS-15 ≥ 6	250	29.2	1,5	US	+	−	±	±	+
Yasuda, 2002	Older adults (65 – 84 years)	Community sample	GHQ-30 depression subscale ≥ 1 standard score	908	NR	7,5	JAP	±	±	+	+	+
Ye, 2013	Patients with With Coronary Heart Disease	Community sample	CESD4≥4	4676	13.6	3.8 yrs	US	±	+	+	±	+
Yohannes, 2005	COPD patients	Patients discharged from hospital after aculte exacerbation of COPD	BASDEC ≥ 7	100	56.0	1	UK	+	+	±	+	+
Young, 2010	Patients with Stage 5 diabetic chronic kidney disease	Cohort study among primary care diabetic patients (Pathway Study)	PHQ-9 ≥ 10	110	22.1	5	US	+	+	+	+	+
Yu, 2012	Patients with Gastric Cancer	Through hospital	Zung SDS>0.7	300	31.0	1.1 yrs	CHI	±	+	+	±	+
Zahn, 2010	patients newly listed for heart transplantation	Consecutive patients in seventeen German-speaking hospitals	HADSD ≥ 8	318	38.7	1	GERM	+	+	±	+	+
Zelle, 2012	Renal transplantation patients	hospital patients	SCL90≥25	527	31.0	7 yrs	NL	±	+	±	+	+
Zimmermann, 2006	Renal replacement therapy patients	Patients from one hospital	BDI ≥ 15	125	53.4	6.5	BRAS	±	±	±	±	−
Zuidersma, 2012	Patients with myocardial infarction	Consecutive patients from 4 hospitals	MDD (CIDI)	2493	15.9	6,3 yrs	NL	±	+	+	+	+
Zuluaga, 2010	patients with heart failure-related emergencies	Hospitalized patients from 4 hospitals	GDS-10 ≥ 5	433	23.8	5.7	SPAIN	±	+	+	+	+

[a)] FU: Follow-up period.

[b)] The quality was scored on the following domains: Q1. Study participation; Q2. Study attrition; Q3. Outcome measurement; Q4. Confounding measurement and account; Q5. Analysis.

Appendix E. References of studies included in the meta-analysis

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