

Appendix 1

Search strategies used in meta-review

OID MEDLINE (1948 to April 2020)

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1 prevalence/
2 incidence/
3 prevalen*.ti,ab.
4 inciden*.ti,ab.
5 frequen*.ti,ab.
6 rate*.ti,ab.
7 occur*.ti,ab.
8 1 or 2 or 3 or 4 or 5 or 6 or 7
9 Hospitals, District/
10 Hospitals, General/
11 Tertiary Care Centers/
12 exp Hospitals, Teaching/
13 "district hospital*".ti,ab.
14 "general hospital*".ti,ab.
15 "tertiary hospital*".ti,ab.
16 "teaching hospital*".ti,ab.
17 "medical centre*".ti,ab.
18 "medical center*".ti,ab.
19 "general medical".ti,ab.
20 (ward* adj4 patient*).ti,ab.
21 (hospital* adj4 patient*).ti,ab.
22 Inpatients/
23 in$patient*.ti,ab.
24 Hospitalization/
25 Hospital Units/
26 Patient Admission/
27 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 or 22 or
23 or 24 or 25 or 36
28 exp Dementia/
29 exp Neurocognitive Disorders/
30 exp Cognition Disorders/
31 exp Neurobehavioral Manifestations/
32 "organic brain disease*".ti,ab.
33 "organic brain syndrome*".ti,ab.
34 dement*.ti,ab.
35 alzheimer*.ti,ab.
36 (lewy* adj2 bod*).mp.
37 Delirium/
38 deliri*.mp.
39 "acute confus*".ti,ab.
40 "acute organic psychosyndrome".ti,ab.
41 "acute brain syndrome".ti,ab.
42 "metabolic encephalopathy".ti,ab.
43 "acute psycho-organic syndrome".ti,ab.
44 "clouded state".ti,ab.

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45 "clouding of consciousness".ti,ab.
 46 "exogenous psychosis".ti,ab.
 47 "toxic psychosis".ti,ab.
 48 "toxic confusion".ti,ab.
 49 exp Substance-Related Disorders/
 50 abstin*.ti,ab.
 51 abstain*.ti,ab.
 52 abuse*.ti,ab.
 53 addict*.ti,ab.
 54 dependen*.ti,ab.
 55 misuse.ti,ab.
 56 overdose.ti,ab.
 57 withdrawal.ti,ab.
 58 Depression/
 59 exp Depressive Disorder/
 60 depression.ti,ab.
 61 (depress\$3 and (symptom\$ or mood)).ti,ab.
 62 Depression, Postpartum/
 63 (depressi* adj3 disorder*).tw.
 64 (depressi* adj3 symptom*).tw.
 65 exp Anxiety/
 66 Panic/
 67 neurotic*.ti,ab.
 68 neurosis*.ti,ab.
 69 anxiety.ti,ab.
 70 panic.ti,ab.
 71 agoraphobi*.ti,ab.
 72 obsess*.ti,ab.
 73 compulsi*.ti,ab.
 74 phobi*.ti,ab.
 75 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
 or 42 or 43 or 44 or 45 or 46 or 47 or 48 or 49 or 50 or 51 or 52 or 53 or 54 or 55 or
 56 or 57 or 58 or 59 or 60 or 61 or 62 or 63 or 64 or 65 or 66 or 67 or 68 or 69 or 70
 or 71 or 72 or 73 or 74 (2799615)
 76 (((comprehensive* or integrative or systematic*) adj3 (bibliographic* or review*
 or literature)) or (meta-analy* or metaanaly* or "research synthesis" or ((information
 or data) adj3 synthesis) or (data adj2 extract*))).ti,ab. or (cinahl or (cochrane adj3
 trial*) or embase or MedLine or psyclit or (psycinfo not "psycinfo database") or
 pubmed or scopus or "sociological abstracts" or "web of science").ab. or ("cochrane
 database of systematic reviews" or evidence report technology assessment or
 evidence report technology assessment summary).jn. or Evidence Report:
 Technology Assessmcent*.jn. or ((review adj5 (rationale or evidence)).ti,ab. and
 review.pt.) or meta-analysis as topic/ or Meta-Analysis.pt.
 77 "literature review".ti,ab.
 78 76 or 77
 79 8 and 27 and 75 and 78

OID EMBASE (1947 to April 2020)

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1 prevalence/
2 incidence/
3 prevalen*.ti,ab.
4 inciden*.ti,ab.
5 frequen*.ti,ab.
6 rate*.ti,ab.
7 occur*.ti,ab.
8 1 or 2 or 3 or 4 or 5 or 6 or 7
9 public hospital/
10 general hospital/
11 tertiary care center/
12 exp teaching hospital/
13 "district hospital*".ti,ab.
14 "general hospital*".ti,ab.
15 "tertiary hospital*".ti,ab.
16 "teaching hospital*".ti,ab.
17 "medical centre*".ti,ab.
18 "medical center*".ti,ab.
19 "general medical".ti,ab.
20 (ward* adj4 patient*).ti,ab.
21 (hospital* adj4 patient*).ti,ab.
22 hospital patient/
23 in$patient*.ti,ab.
24 hospitalization/
25 "hospital subdivisions and components"/
26 hospital admission/
27 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 or 22 or
23 or 24 or 25 or 26
28 exp Dementia/
29 exp Neurocognitive Disorders/
30 exp Cognition Disorders/
31 exp Neurobehavioral Manifestations/
32 "organic brain disease*".ti,ab.
33 "organic brain syndrome*".ti,ab.
34 dement*.ti,ab.
35 alzheimer*.ti,ab.
36 (lewy* adj2 bod*).mp.
37 Delirium/
38 deliri*.mp.
39 "acute confus*".ti,ab.
40 "acute organic psychosyndrome".ti,ab.
41 "acute brain syndrome".ti,ab.
42 "metabolic encephalopathy".ti,ab.
43 "acute psycho-organic syndrome".ti,ab.
44 "clouded state".ti,ab.
45 "clouding of consciousness".ti,ab.
46 "exogenous psychosis".ti,ab.
47 "toxic psychosis".ti,ab.
48 "toxic confusion".ti,ab.
49 exp Substance-Related Disorders/

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50 abstin*.ti,ab.
 51 abstain*.ti,ab.
 52 abuse*.ti,ab.
 53 addict*.ti,ab.
 54 dependen*.ti,ab.
 55 misuse.ti,ab.
 56 overdose.ti,ab.
 57 withdrawal.ti,ab.
 58 Depression/
 59 exp Depressive Disorder/
 60 depression.ti,ab.
 61 (depress\$3 and (symptom\$ or mood)).ti,ab.
 62 Depression, Postpartum/
 63 (depressi* adj3 disorder*).tw.
 64 (depressi* adj3 symptom*).tw.
 65 exp Anxiety/
 66 Panic/
 67 neurotic*.ti,ab.
 68 neurosis*.ti,ab.
 69 anxiety.ti,ab.
 70 panic.ti,ab.
 71 agoraphobi*.ti,ab.
 72 obsess*.ti,ab.
 73 compulsi*.ti,ab.
 74 phobi*.ti,ab.
 75 28 or 29 31 or 32 or 33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 or 41 or 42 or
 43 or 44 or 45 or 46 or 47 or 48 or 49 or 50 or 51 or 52 or 53 or 54 or 55 or 56 or 57
 or 58 or 59 or 60 or 61 or 62 or 63 or 64 or 65 or 66 or 67 or 68 or 69 or 70 or 71 or
 72 or 73 or 74
 76 (((comprehensive* or integrative or systematic*) adj3 (bibliographic* or review*
 or literature)) or (meta-analy* or metaanaly* or "research synthesis" or ((information
 or data) adj3 synthesis) or (data adj2 extract*))).ti,ab. or (cinahl or (cochrane adj3
 trial*) or embase or MedLine or psyclit or (psycinfo not "psycinfo database") or
 pubmed or scopus or "sociological abstracts" or "web of science").ab. or ("cochrane
 database of systematic reviews" or evidence report technology assessment or
 evidence report technology assessment summary).jn. or Evidence Report:
 Technology Assessment*.jn. or ((review adj5 (rationale or evidence)).ti,ab. and
 review.pt.) or meta-analysis as topic/
 77 meta analysis/
 78 "systematic review"/
 79 "literature review".ti,ab.
 80 76 or 77 or 78 or 79
 81 8 and 27 and 77 and 80

OVID PsycINFO (1806 to April 2020)

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1  epidemiology/
2  prevalen*.ti,ab.
3  inciden*.ti,ab.
4  frequen*.ti,ab.
5  rate*.ti,ab.
6  occur*.ti,ab.
7  1 or 2 or 3 or 4 or 5 or 6
8  "district hospital*".ti,ab.
9  "general hospital*".ti,ab.
10 "tertiary hospital*".ti,ab.
11 "teaching hospital*".ti,ab.
12 "medical centre*".ti,ab.
13 "medical center*".ti,ab.
14 "general medical".ti,ab.
15 (ward* adj4 patient*).ti,ab.
16 (hospital* adj4 patient*).ti,ab.
17 exp Hospitalized Patients/
18 in$patient*.ti,ab.
19 Hospitalization/
20 hospital admission/
21 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 (90329)
22 exp Dementia/
23 exp cognitive impairment/
24 neurodegenerative diseases/ or exp alzheimer's disease/
25 "organic brain disease*".ti,ab.
26 "organic brain syndrome*".ti,ab.
27 dement*.ti,ab.
28 alzheimer*.ti,ab.
29 (lewy* adj2 bod*).mp.
30 Delirium/
31 deliri*.mp.
32 "acute confus*".ti,ab.
33 "acute organic psychosyndrome".ti,ab.
34 "acute brain syndrome".ti,ab.
35 "metabolic encephalopathy".ti,ab.
36 "acute psycho-organic syndrome".ti,ab.
37 "clouded state".ti,ab.
38 "clouding of consciousness".ti,ab.
39 "exogenous psychosis".ti,ab.
40 "toxic psychosis".ti,ab.
41 "toxic confusion".ti,ab.
42 exp Drug Dependency/ or exp Drug Abuse/ or exp Drug Addiction/ or exp
Alcoholism/
43 abstin*.ti,ab.
44 abstain*.ti,ab.
45 abuse*.ti,ab.
46 addict*.ti,ab.
47 dependen*.ti,ab.
48 misuse.ti,ab.
49 overdose.ti,ab.

```

50 withdrawal.ti,ab.
 51 Depression/
 52 exp major depression/
 53 depression.ti,ab.
 54 (depress\$3 and (symptom\$ or mood)).ti,ab.
 55 (depressi* adj3 disorder*).tw.
 56 (depressi* adj3 symptom*).tw.
 57 exp Anxiety/
 58 Panic/
 59 neurotic*.ti,ab.
 60 neurosis*.ti,ab.
 61 anxiety.ti,ab.
 62 panic.ti,ab.
 63 agoraphobi*.ti,ab.
 64 obsess*.ti,ab.
 65 compulsi*.ti,ab.
 66 phobi*.ti,ab.
 67 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 or 42 or 43 or 44 or 45 or 46 or 47 or 48 or 49 or
 50 or 51 or 52 or 53 or 54 or 55 or 56 or 57 or 58 or 59 or 60 or 61 or 62 or 63 or 64
 or 65 or 66
 68 (((comprehensive* or integrative or systematic*) adj3 (bibliographic* or review*
 or literature)) or (meta-analy* or metaanaly* or "research synthesis" or ((information
 or data) adj3 synthesis) or (data adj2 extract*))).ti,ab,id. or ((review adj5 (rationale or
 evidence)).ti,ab,id. and "Literature Review".md.) or (cinahl or (cochrane adj3 trial*) or
 embase or MedLine or psyclit or pubmed or scopus or "sociological abstracts" or
 "web of science").ab. or ("systematic review" or "meta analysis").md.
 69 "literature review".ti,ab.
 70 68 or 69
 71 7 and 21 and 67 and 70

EBSCO Host CINAHL (1937 to April 2020)

S1	JN "Cochrane Database of Systematic Reviews"
S2	TI ((MedLine or pubmed or psyclit or cinahl or (psycinfo not "psycinfo database") or "web of science" or scopus or embase)) OR AB ((MedLine or pubmed or psyclit or cinahl or (psycinfo not "psycinfo database") or "web of science" or scopus or embase))
S3	TI ((systematic* n3 review*) OR (systematic* n3 bibliographic*) OR (systematic* n3 literature) OR (comprehensive* n3 literature) OR (comprehensive* n3 bibliographic*) OR (integrative n3 review)) OR AB ((systematic* n3 review*) OR (systematic* n3 bibliographic*) OR (systematic* n3 literature) OR (comprehensive* n3 literature) OR (comprehensive* n3 bibliographic*) OR (integrative n3 review))
S4	TI ((information n2 synthesis) OR (data n2 synthesis) OR (data n2 extract*)) OR AB ((information n2 synthesis) OR (data n2 synthesis) OR (data n2 extract*))
S5	(MH "Prevalence")
S6	(MH "Incidence")
S7	TI (prevalen* OR inciden* OR frequen* OR rate* OR occur*) OR AB (prevalen* OR inciden* OR frequen* OR rate* OR occur*)
S8	S1 OR S2 OR S3 OR S4
S9	S5 OR S6 OR S7
S10	(MH "Hospitals, Public+")
S11	(MH "Hospitals, Community")
S12	TI ("district hospital*" OR "general hospital*" OR "tertiary hospital*" OR "teaching hospital*" OR "medical centre*" OR "medical center*" OR "general medical" OR inpatient*) OR AB ("district hospital*" OR "general hospital*" OR "tertiary hospital*" OR "teaching hospital*" OR "medical centre*" OR "medical center*" OR "general medical" OR inpatient*)
S13	(MH "Inpatients")
S14	(MH "Hospitalization+")
S15	S10 OR S11 OR S12 OR S13 OR S14
S16	(MH "Dementia+")
S17	(MH "Cognition Disorders+")
S18	(MH "Neurobehavioral Manifestations+")
S19	TI ("organic brain disease*" OR "organic brain syndrome*" OR dement* OR alzheimer* OR (lewy n2 bod*)) OR AB ("organic brain disease*" OR "organic brain syndrome*" OR dement* OR alzheimer* OR (lewy n2 bod*))
S20	(MH "Delirium")
S21	TI (deliri* OR "acute confus*" OR "acute organic psychosyndrome" OR "acute brain syndrome" OR "metabolic encephalopathy") OR AB (deliri* OR "acute

	confus*" OR "acute organic psychosyndrome" OR "acute brain syndrome" OR "metabolic encephalopathy")
S22	(MH "Substance Abuse+")
S23	TI ("acute psycho-organic syndrome" OR "clouded state" OR "clouding of consciousness" OR "exogenous psychosis" OR "toxic psychosis" OR "toxic confusion")) OR AB ("acute psycho-organic syndrome" OR "clouded state" OR "clouding of consciousness" OR "exogenous psychosis" OR "toxic psychosis" OR "toxic confusion"))
S24	TI (abstin* OR abstain* OR abuse* OR addict* OR dependen* OR misuse OR overdose OR withdrawal) OR AB (abstin* OR abstain* OR abuse* OR addict* OR dependen* OR misuse OR overdose OR withdrawal)
S25	(MH "Depression+") OR (MH "Depression, Postpartum")
S26	TI (depression OR (depress* n2 (symptom* OR mood)) OR (depressi* n3 disorder*)) OR AB (depression OR (depress* n2 (symptom* OR mood)) OR (depressi* n3 disorder*))
S27	TI depressi* n3 symptom* OR AB depressi* n3 symptom*
S28	(MH "Anxiety+")
S29	(MH "Panic Disorder")
S30	(MH "Phobic Disorders+")
S31	TI (neurotic* OR neurosis* OR anxiety OR panic OR agoraphobi* OR obsess* OR compulsi* OR phobi*) OR AB (neurotic* OR neurosis* OR anxiety OR panic OR agoraphobi* OR obsess* OR compulsi* OR phobi*)
S32	S16 OR S17 OR S18 OR S19 OR S20 OR S21 OR S22 OR S23 OR S24 OR S25 OR S26 OR S27 OR S28 OR S29 OR S30 OR S31
S33	S8 AND S9 AND S15 AND S32

Scopus (2004 to April 2020)

(TITLE-ABS-KEY (prevalen* OR inciden* OR frequen* OR rate* OR occur*))

AND

((TITLE-ABS-KEY ("district hospital*" OR "general hospital*" OR "tertiary hospital*" OR "teaching hospital*" OR "medical centre*" OR "medical center*" OR "general medical")) OR (TITLE-ABS-KEY (ward* W/4 patient*)) OR (TITLE-ABS-KEY (hospital* W/4 patient*)) OR (TITLE-ABS-KEY (inpatient*)) OR (TITLE-ABS-KEY (hospitalisation OR hospitalization)) OR (TITLE-ABS-KEY ("hospital unit*")) OR (TITLE-ABS-KEY ((patient* OR hospital*) W/2 (admission OR admit*))))

AND

((TITLE-ABS-KEY ("organic brain disease*" OR "organic brain syndrome*" OR dement* OR alzheimer* OR (lewy* W/2 bod*))) OR (TITLE-ABS-KEY (deliri* OR "acute confus*" OR "acute organic psychosyndrome" OR "acute brain syndrome" OR "metabolic encephalopathy")) OR (TITLE-ABS-KEY ("acute psycho-organic syndrome" OR "clouded state" OR "clouding of consciousness" OR "exogenous psychosis" OR "toxic psychosis" OR "toxic confusion")) OR (TITLE-ABS-KEY (abstin* OR abstain* OR abuse* OR addict* OR dependen* OR misuse OR overdose OR withdrawal)) OR (TITLE-ABS-KEY (depression OR (depress* W/2 (symptom* OR mood)) OR (depressi* W/3 disorder*))) OR (TITLE-ABS-KEY (depressi* W/3 symptom*)) OR (TITLE-ABS-KEY (neurotic* OR neurosis* OR anxiety OR panic OR agoraphobi* OR obsess* OR compulsi* OR phobi*)))

AND

((TITLE-ABS-KEY ((comprehensive* OR integrative OR systematic*) W/3 (bibliographic* OR review* OR literature))) OR (TITLE-ABS-KEY (meta-analy* OR metaanaly* OR "research synthesis" OR ((information OR data) W/3 synthesis) OR (data W/2 extract*))) OR (ABS (cinahl OR (cochrane W/3 trial*) OR embase OR MedLine OR psyclit OR (psycinfo AND not "psycinfo database") OR pubmed OR scopus OR "sociological abstracts" OR "web of science")) OR (TITLE-ABS-KEY (review W/5 (rationale OR evidence))) OR (TITLE-ABS-KEY ("literature review"))