

Online Supplementary Documents

Appendix S1. Search strategies

Date of completion: 04-10-18

Databases:

- BRAC Research & Publication <http://research.brac.net/new/publications> (accessed 02-10-2018)
- Cochrane Database of Systematic Reviews : Issue 7 of 12, July 2018
- Database of Abstracts of Reviews of Effect (Wiley): Issue 2 of 4, April 2015
- Global Health 1910 to 2018 Week 25
- Global Index Medicus (World Health Organization) Libraries (Inception to 03-10-2018)
- Health Technology Assessment Database (Wiley): Issue 4 of 4, October 2016
- IndMED (ICMR-NIC) 1985 – 02-10-2018
- Ovid MEDLINE(R) <1946 to June Week 4 2018>
- Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations <July 02, 2018>
- Ovid MEDLINE(R) Epub Ahead of Print <July 02, 2018>
- PakMediNet (PakCyber) Inception – 13-09-2018
- PsycINFO 1806 to June Week 4 2018
- World Bank Group Research and Publications: Documents and Reports
<http://documents.worldbank.org/curated/en/docadvancesearch/> (accessed 13-09-2018)

BRAC Research & Publication <http://research.brac.net/new/publications> (accessed 02-10-2018)

[note, search terms entered individually into the web page, one-by-one]

cancer OR neoplasm OR diabetes OR pulmonary OR lung OR respiratory OR bronchitis OR Emphysema OR stroke OR cardiovascular OR vascular OR cardiac OR coronary OR arterial OR hypertension

Cochrane Database of Systematic Reviews : Issue 7 of 12, July 2018

Search Name: S Asia Common Mental Disorders Non Comm Diseases 25-06-2018

Last Saved: 25/06/2018 13:24:35.571

ID	Search
#1	MeSH descriptor: [Asia, Western] this term only
#2	MeSH descriptor: [Bangladesh] this term only
#3	MeSH descriptor: [India] explode all trees
#4	MeSH descriptor: [Pakistan] this term only
#5	MeSH descriptor: [Bhutan] this term only
#6	MeSH descriptor: [Afghanistan] this term only
#7	MeSH descriptor: [Nepal] this term only
#8	MeSH descriptor: [Indian Ocean Islands] explode all trees
#9	(Indian or Indians) not ("west indian*" or "american indian*"):ti,ab,kw
#10	("south asia*" or india or bangladesh* or pakistan*):ti,ab,kw
#11	(Bhutan* or afghanistan* or maldives* or nepal* or "sri lanka*"):ti,ab,kw
#12	{or #1-#11 }
#13	MeSH descriptor: [Comorbidity] explode all trees
#14	(co-morbid* or comorbid* or multi-morbid* or multimorbid*):ti,ab,kw
#15	MeSH descriptor: [Chronic Disease] this term only
#16	((("long term" or chronic) near/3 (disease* or illness* or condition* or disorder*)):ti,ab,kw
#17	MeSH descriptor: [Diabetes Mellitus] explode all trees
#18	MeSH descriptor: [Cardiovascular Diseases] explode all trees
#19	MeSH descriptor: [Pulmonary Disease, Chronic Obstructive] explode all trees
#20	MeSH descriptor: [Stroke] 2 tree(s) exploded
#21	MeSH descriptor: [Neoplasms] explode all trees
#22	diabet*:ti,ab,kw
#23	(Aneurysm* or Atherosclerosis or Cardio* or endocard* or pericard* or heart or cardiac or valvular or coronary or arterial or vascular or hypertension):ti,ab,kw
#24	((long-term or chronic*) near/2 (airway* or pulmonar* or airflow* or lung*) near/2 Obstruct*):ti,ab,kw

- #25 (pulmonar* near/2 emphysem*):ti,ab,kw
- #26 ((long-term or chronic*) near/5 (bronchitis or respirat*)):ti,ab,kw
- #27 ((long-term or Chronic*) near/2 lung* near/5 (condition* or disease* or symptom* or problem* or failure*)):ti,ab,kw
- #28 (respiratory near/2 (condition* or disease* or symptom* or problem*)):ti,ab,kw
- #29 (stroke or poststroke or post-stroke or cerebrovasc* or brain vascul* or cerebral vascul* or apoplex*):ti,ab,kw
- #30 ((brain* or cerebr* or cerebell* or intracran* or intracerebral) near/2 (isch*emi* or infarct* or thrombo* or emboli* or occlus*)):ti,ab,kw
- #31 ((brain* or cerebr* or cerebell* or intracerebral or intracranial or subarachnoid) near/2 (h*emorrhage* or h*ematoma* or bleed*)):ti,ab,kw
- #32 (transi* near/3 isch*em* near/3 attack*):ti,ab,kw
- #33 (cancer* or carcinoma* or tumor* or tumour* or neoplasm* or malignan*):ti,ab,kw
- #34 {or #13-#33}
- #35 (somat* or hysteri* or briquet or multisomat* or MUPs or "medically unexplained" or depress* or MDD or anxi* or phobia or phobic):ti,ab,kw
- #36 ("stress syndrome*" or "distress syndrome*" or "pain disorder*" or dissociation* or dissociative*):ti,ab,kw
- #37 ((affective or stress or cognitive or cognition or personality or impulse or mood or paranoid or psychotic or neurologic* or nervous or eating) near/1 (disorder* or illness* or disease*)):ti,ab,kw
- #38 ((bipolar or behavio*ral or obsessive or compulsive or agoraphobi* or delusional) near/1 (disorder* or illness* or disease*)):ti,ab,kw
- #39 (OCD or "obsess* compuls*" or GAD or stress reaction* or acute stress or neuros*s or neurotic):ti,ab,kw
- #40 (stress near/5 (chronic* or long-term or severe or mental* or psyc*)):ab
- #41 stress:ti
- #42 MeSH descriptor: [Anxiety Disorders] explode all trees
- #43 MeSH descriptor: [Depression] this term only
- #44 MeSH descriptor: [Depressive Disorder] this term only
- #45 MeSH descriptor: [Depression, Postpartum] this term only
- #46 MeSH descriptor: [Depressive Disorder, Treatment-Resistant] this term only
- #47 MeSH descriptor: [Stress, Psychological] explode all trees
- #48 {or #35-#47}
- #49 #12 and #34 and #48

Database of Abstracts of Reviews of Effect (Wiley): Issue 2 of 4, April 2015

Same strategy as Cochrane Database of Systematic Reviews : Issue 7 of 12, July 2018

Global Health 1910 to 2018 Week 25

Database: Global Health <1910 to 2018 Week 25>

- 1 ((Indian or Indians) not ("west indian*" or "american indian*")).ti,ab,in. (42039)
- 2 india.ti,ab,in. (188992)
- 3 ("south asia*" or bangladesh* or pakistan*).ti,ab,in. (36364)
- 4 (Bhutan* or afghanistan* or maldiv* or nepal* or "sri lanka*").ti,ab,in. (14098)
- 5 exp south asia/ (144606)
- 6 or/1-5 [All S Asia World Bank] (256984)
- 7 (co-morbid* or comorbid*).ti,ab. (18954)
- 8 (multi-morbid* or multimorbid*).ti,ab. (520)
- 9 (("long term" or chronic) adj3 (disease? or illness* or condition? or disorder?)).tw. (59861)
- 10 diabet*.tw. (118256)
- 11 (Aneurysm* or Atherosclerosis or Cardio* or endocard* or pericard*).tw. (123560)
- 12 (heart or cardiac or valvular or coronary or arterial or vascular or hypertension).tw. (188948)
- 13 ((long-term or chronic*) adj2 (airway* or pulmonar* or airflow* or lung*) adj2 Obstruct*).tw. (6955)
- 14 (pulmonar* adj2 emphysem*).tw. (1701)
- 15 ((long-term or chronic*) adj5 (bronchitis or respirat*)).tw. (5131)
- 16 ((long-term or Chronic*) adj2 lung* adj5 (condition* or disease* or symptom* or problem* or failure*)).tw. (1685)
- 17 (respiratory adj2 (condition* or disease* or symptom* or problem*)).tw. (66802)

- 18 (stroke or poststroke or post-stroke or cerebrovasc* or brain vas* or cerebral vas* or apoplex*).tw. (20901)
- 19 ((brain? or cerebr* or cerebell* or intracran* or intracerebral) adj2 (isch?emi* or infarct* or thrombo* or emboli* or oclus*)).tw. (4648)
- 20 ((brain? or cerebr* or cerebell* or intracerebral or intracranial or subarachnoid) adj2 (h?emorrhage? or h?ematoma* or bleed*)).tw. (2665)
- 21 (transi* adj3 isch?em* adj3 attack?).tw. (564)
- 22 (cancer* or carcinoma? or tumor? or tumour? or neoplasm? or malignan*).tw. (278594)
- 23 or/7-22 [Chronic or Multimorbid incl Cancer] (671851)
- 24 (somatoform or somatiz* or somatis* or hysteri* or briquet or multisomat* or multi somat* or MUPs or medically unexplained).tw. (1250)
- 25 ((dissociative adj3 (disorder* or reaction*)) or dissociation).tw. (4069)
- 26 (affective* adj (disorder? or disease? or illness* or symptom?)).tw. (1685)
- 27 ((stress or cognitive or cognition or personality or impulse control or mood or paranoid or psychotic or neurologic* or nervous or eating) adj (disorder? or illness* or disease?)).tw. (25226)
- 28 ((bipolar or behavio?ral or obsessive or compulsive or panic or mood or agoraphobi* or delusional) adj (disorder? or illness* or disease?)).tw. (3798)
- 29 (OCD or obsess*-compulsi* or GAD or stress reaction? or acute stress or neuros#s or neurotic).tw. (3144)
- 30 (stress syndrome? or distress syndrome? or pain disorder?).tw. (2738)
- 31 (depressi* or depressed or MDD or anxi* or phobia or phobic).tw. (54609)
- 32 (stress adj5 (chronic* or long-term or severe or mental* or psyc*)).ab. (5983)
- 33 stress.ti. (22165)
- 34 or/24-33 [CMDs] (105390)
- 35 6 and 23 and 34 [S Asia NCDs CMDs] (2020)
- 36 (incidence* adj5 (somatoform or somatiz* or somatis* or hysteri* or briquet or multisomat* or multi somat* or MUPs or medically unexplained or ((dissociative adj3 (disorder* or reaction*)) or dissociation) or (affective* adj (disorder? or disease? or illness* or symptom?)) or ((stress or cognitive or cognition or personality or impulse control or paranoid or psychotic or neurologic* or nervous or eating) adj (disorder? or illness* or disease?)) or ((bipolar or behavio?ral or obsessive or compulsive or panic or mood or agoraphobi* or phobic or delusional) adj (disorder? or illness* or disease?)) or (OCD or obsess*-compulsi* or GAD or stress reaction? or acute stress or neuros#s or neurotic) or (stress syndrome? or distress syndrome? or pain disorder?) or (depressi* or depressed or MDD or anxi* or phobia or phobic))).tw,kw. (846)
- 37 (prevalen* adj5 (somatoform or somatiz* or somatis* or hysteri* or briquet or multisomat* or multi somat* or MUPs or medically unexplained or ((dissociative adj3 (disorder* or reaction*)) or dissociation) or (affective* adj (disorder? or disease? or illness* or symptom?)) or ((stress or cognitive or cognition or personality or impulse control or paranoid or psychotic or neurologic* or nervous or eating) adj (disorder? or illness* or disease?)) or ((bipolar or behavio?ral or obsessive or compulsive or panic or mood or agoraphobi* or phobic or delusional) adj (disorder? or illness* or disease?)) or (OCD or obsess*-compulsi* or GAD or stress reaction? or acute stress or neuros#s or neurotic) or (stress syndrome? or distress syndrome? or pain disorder?) or (depressi* or depressed or MDD or anxi* or phobia or phobic))).tw,kw. (3365)
- 38 (determinant* adj5 (somatoform or somatiz* or somatis* or hysteri* or briquet or multisomat* or multi somat* or MUPs or medically unexplained or ((dissociative adj3 (disorder* or reaction*)) or dissociation) or (affective* adj (disorder? or disease? or illness* or symptom?)) or ((stress or cognitive or cognition or personality or impulse control or paranoid or psychotic or neurologic* or nervous or eating) adj (disorder? or illness* or disease?)) or ((bipolar or behavio?ral or obsessive or compulsive or panic or mood or agoraphobi* or phobic or delusional) adj (disorder? or illness* or disease?)) or (OCD or obsess*-compulsi* or GAD or stress reaction? or acute stress or neuros#s or neurotic) or (stress syndrome? or distress syndrome? or pain disorder?) or (depressi* or depressed or MDD or anxi* or phobia or phobic))).tw,kw. (163)
- 39 (cohort* adj5 (somatoform or somatiz* or somatis* or hysteri* or briquet or multisomat* or multi somat* or MUPs or medically unexplained or ((dissociative adj3 (disorder* or reaction*)) or dissociation) or (affective* adj (disorder? or disease? or illness* or symptom?)) or ((stress or cognitive or cognition or personality or impulse control or paranoid or psychotic or neurologic* or nervous or eating) adj (disorder? or illness* or disease?)) or ((bipolar or behavio?ral or obsessive or compulsive or panic or mood or agoraphobi* or phobic or delusional) adj (disorder? or illness* or disease?)) or (OCD or obsess*-compulsi* or GAD or stress reaction? or acute stress or neuros#s or neurotic) or (stress syndrome? or distress syndrome? or pain disorder?) or (depressi* or depressed or MDD or anxi* or phobia or phobic))).tw,kw. (488)

40 (observational* adj5 (somatoform or somatiz* or somatis* or hysteri* or briquet or multisomat* or multi somat* or MUPs or medically unexplained or ((dissociative adj3 (disorder* or reaction*)) or dissociation) or (affective* adj (disorder? or disease? or illness* or symptom?)) or ((stress or cognitive or cognition or personality or impulse control or paranoid or psychotic or neurologic* or nervous or eating) adj (disorder? or illness* or disease?)) or ((bipolar or behavior?ral or obsessive or compulsive or panic or mood or agoraphobi* or phobic or delusional) adj (disorder? or illness* or disease?)) or (OCD or obsess*-compulsi* or GAD or stress reaction? or acute stress or neuro#s or neurotic) or (stress syndrome? or distress syndrome? or pain disorder?) or (depressi* or depressed or MDD or anxi* or phobia or phobic))).tw,kw. (44)

41 ("risk factor*" adj5 (somatoform or somatiz* or somatis* or hysteri* or briquet or multisomat* or multi somat* or MUPs or medically unexplained or ((dissociative adj3 (disorder* or reaction*)) or dissociation) or (affective* adj (disorder? or disease? or illness* or symptom?)) or ((stress or cognitive or cognition or personality or impulse control or paranoid or psychotic or neurologic* or nervous or eating) adj (disorder? or illness* or disease?)) or ((bipolar or behavior?ral or obsessive or compulsive or panic or mood or agoraphobi* or phobic or delusional) adj (disorder? or illness* or disease?)) or (OCD or obsess*-compulsi* or GAD or stress reaction? or acute stress or neuro#s or neurotic) or (stress syndrome? or distress syndrome? or pain disorder?) or (depressi* or depressed or MDD or anxi* or phobia or phobic))).tw,kw. (1892)

42 (epidemiolog* adj5 (somatoform or somatiz* or somatis* or hysteri* or briquet or multisomat* or multi somat* or MUPs or medically unexplained or ((dissociative adj3 (disorder* or reaction*)) or dissociation) or (affective* adj (disorder? or disease? or illness* or symptom?)) or ((stress or cognitive or cognition or personality or impulse control or paranoid or psychotic or neurologic* or nervous or eating) adj (disorder? or illness* or disease?)) or ((bipolar or behavior?ral or obsessive or compulsive or panic or mood or agoraphobi* or phobic or delusional) adj (disorder? or illness* or disease?)) or (OCD or obsess*-compulsi* or GAD or stress reaction? or acute stress or neuro#s or neurotic) or (stress syndrome? or distress syndrome? or pain disorder?) or (depressi* or depressed or MDD or anxi* or phobia or phobic))).tw. (1853)

43 ((longitudinal or prospective or retrospective) adj5 (somatoform or somatiz* or somatis* or hysteri* or briquet or multisomat* or multi somat* or MUPs or medically unexplained or ((dissociative adj3 (disorder* or reaction*)) or dissociation) or (affective* adj (disorder? or disease? or illness* or symptom?)) or ((stress or cognitive or cognition or personality or impulse control or paranoid or psychotic or neurologic* or nervous or eating) adj (disorder? or illness* or disease?)) or ((bipolar or behavior?ral or obsessive or compulsive or panic or mood or agoraphobi* or phobic or delusional) adj (disorder? or illness* or disease?)) or (OCD or obsess*-compulsi* or GAD or stress reaction? or acute stress or neuro#s or neurotic) or (stress syndrome? or distress syndrome? or pain disorder?) or (depressi* or depressed or MDD or anxi* or phobia or phobic))).tw. (683)

44 (case-control* adj5 (somatoform or somatiz* or somatis* or hysteri* or briquet or multisomat* or multi somat* or MUPs or medically unexplained or ((dissociative adj3 (disorder* or reaction*)) or dissociation) or (affective* adj (disorder? or disease? or illness* or symptom?)) or ((stress or cognitive or cognition or personality or impulse control or paranoid or psychotic or neurologic* or nervous or eating) adj (disorder? or illness* or disease?)) or ((bipolar or behavior?ral or obsessive or compulsive or panic or mood or agoraphobi* or phobic or delusional) adj (disorder? or illness* or disease?)) or (OCD or obsess*-compulsi* or GAD or stress reaction? or acute stress or neuro#s or neurotic) or (stress syndrome? or distress syndrome? or pain disorder?) or (depressi* or depressed or MDD or anxi* or phobia or phobic))).tw. (173)

45 ((follow-up or follow-on) adj5 (somatoform or somatiz* or somatis* or hysteri* or briquet or multisomat* or multi somat* or MUPs or medically unexplained or ((dissociative adj3 (disorder* or reaction*)) or dissociation) or (affective* adj (disorder? or disease? or illness* or symptom?)) or ((stress or cognitive or cognition or personality or impulse control or paranoid or psychotic or neurologic* or nervous or eating) adj (disorder? or illness* or disease?)) or ((bipolar or behavior?ral or obsessive or compulsive or panic or mood or agoraphobi* or phobic or delusional) adj (disorder? or illness* or disease?)) or (OCD or obsess*-compulsi* or GAD or stress reaction? or acute stress or neuro#s or neurotic) or (stress syndrome? or distress syndrome? or pain disorder?) or (depressi* or depressed or MDD or anxi* or phobia or phobic))).tw. (539)

46 (cross-sectional* adj5 (somatoform or somatiz* or somatis* or hysteri* or briquet or multisomat* or multi somat* or MUPs or medically unexplained or ((dissociative adj3 (disorder* or reaction*)) or dissociation) or (affective* adj (disorder? or disease? or illness* or symptom?)) or ((stress or cognitive or cognition or personality or impulse control or paranoid or psychotic or neurologic* or nervous or eating) adj (disorder? or illness* or disease?)) or ((bipolar or behavior?ral or obsessive or compulsive or panic or mood or agoraphobi* or phobic or delusional) adj (disorder? or illness* or disease?)) or (OCD or obsess*-compulsi* or GAD or stress reaction? or acute stress or neuro#s or neurotic) or (stress syndrome? or distress syndrome? or pain disorder?) or (depressi* or depressed or MDD or anxi* or phobia or phobic))).tw. (382)

47 or/36-46 [CMD Prevalence or obs studies] (8286)
 48 systematic reviews/ or meta-analysis/ (30922)
 49 ((systematic or evidence) adj3 review?).ti. (18397)
 50 (meta-analysis or meta-synthesis).ti. (15888)
 51 evidence syntheses?.ti. (50)
 52 (medline or pubmed or "literature search*" or "search strateg*").ab. (27632)
 53 or/48-52 [Systematic Reviews] (45178)
 54 6 and 23 and 34 and 53 [S Asia NCDs CMDs and Systematic Reviews] (34)
 55 6 and 23 and 47 [S Asia NCDs CMDs Prevalence or Obs studies] (105)
 56 54 or 55 (134)
 57 limit 56 to yr="1990 -Current" (130)
 58 (rat or rats or mice or mouse).ti. (201913)
 59 ((child* or infant* or baby or babies or preterm* or adolesc* or newborn* or pediatric* or paediatric* or neonate* or teen* or schoolchild*) not (adult or elderly or geriatric*)).ti. (234666)
 60 57 not (58 or 59) [Final search animals and children removed] (121)

Global Index Medicus (World Health Organization) Inception to 03-10-18

Advanced Search

(tw:(cancer OR neoplasm OR diabetes OR pulmonary OR lung OR respiratory OR bronchitis OR Emphysema OR stroke OR cardiovascular OR vascular OR cardiac OR coronary OR arterial OR hypertension)) AND (tw:(depression OR depressed OR depressive OR anxiety OR stress OR distress OR phobia OR affective OR somatoform OR behavioral OR behavioural OR panic OR compulsive OR cognitive)) AND (tw:(Prevalence OR Incidence OR Epidemiology OR Observational OR cohort OR cross-sectional OR case-control)) AND (tw:(india* OR bangladesh* OR pakistan*))

Note: Search results were filtered to include all databases except Medline. The following databases within GIM contained records matching the search query:

IMSEAR (South-EastAsia) (165)

IMEMR (Eastern Mediterranean) (55)

LILACS (Americas) (18)

WPRIM (Western Pacific) (14)

AIM (Africa) (1)

Health Technology Assessment Database (Wiley): Issue 4 of 4, October 2016

Same strategy as Cochrane Database of Systematic Reviews : Issue 7 of 12, July 2018

IndMED (ICMR-NIC) 1985 - 02-10-18

Advanced Search Mode

1. cancer OR neoplasm OR diabetes OR pulmonary OR lung OR respiratory OR bronchitis OR Emphysema OR stroke OR cardiovascular OR vascular OR cardiac OR coronary OR arterial OR hypertension [searched in Anywhere field]
2. depression OR depressed OR depressive OR anxiety OR stress OR distress OR phobia OR affective OR somatoform OR behavioral OR behavioural OR panic OR compulsive OR cognitive [searched in Anywhere field]
3. Prevalence OR Incidence OR Epidemiology OR Observational OR cohort OR cross-sectional OR case-control [searched in Anywhere field]
4. 1 AND 2 AND 3

Note: this strategy represents the overall search strategy. In practice, the search was run as three separate searches with to reduce the number of terms in the first search line. This enabled searches to be executed fully without technical issues. Search terms were split between the three searches as follows: (1) Cancer OR Diabetes terms (2) COPD terms (3) CVD OR Stroke terms. Search lines 2 and 3 were the same for all searches. Search line 4 has been added to indicate the selection of 'AND's in the Advance Search form

Ovid MEDLINE(R) <1946 to June Week 4 2018>

1 ((Indian or Indians) not ("west indian*" or "american indian*")).ti,ab,in,kf. (73100)
2 india.ti,ab,in,kf. (284529)
3 ("south asia*" or bangladesh* or pakistan*).ti,ab,in,kf. (45349)
4 bangladesh/ or exp india/ or pakistan/ (113681)
5 asia, western/ or bangladesh/ or bhutan/ or exp india/ or afghanistan/ or nepal/ or pakistan/ or sri lanka/
(129398)
6 exp Indian Ocean Islands/ (10434)
7 (Bhutan* or afghanistan* or maldiv* or nepal* or "sri lanka*").ti,ab,in,kf. (21618)
8 or/1-7 [All S Asia World Bank] (404711)
9 comorbidity/ or multimorbidity/ (93912)
10 (co-morbid* or comorbid*).ti,ab,kf. (118030)
11 (multi-morbid* or multimorbid*).ti,ab,kf. (2888)
12 Chronic Disease/ (248464)
13 (("long term" or chronic) adj3 (disease? or illness* or condition? or disorder?)).tw,kf. (258009)
14 exp Diabetes Mellitus/ (383482)
15 exp Cardiovascular Diseases/ (2194836)
16 exp Pulmonary Disease, Chronic Obstructive/ (48501)
17 exp Stroke/ (114253)
18 diabet*.tw,kf. (488856)
19 (Aneurysm* or Atherosclerosis or Cardio* or endocard* or pericard*).tw,kf. (831750)
20 (heart or cardiac or valvular or coronary or arterial or vascular or hypertension).tw,kf. (1939176)
21 ((long-term or chronic*) adj2 (airway* or pulmonar* or airflow* or lung*) adj2 Obstruct*).tw. (40044)
22 (pulmonar* adj2 emphysem*).tw. (4390)
23 ((long-term or chronic*) adj5 (bronchitis or respirat*).tw,kf. (22988)
24 ((long-term or Chronic*) adj2 lung* adj5 (condition* or disease* or symptom* or problem* or
failure*).tw,kf. (11660)
25 (respiratory adj2 (condition* or disease* or symptom* or problem*)).tw,kf. (47507)
26 (stroke or poststroke or post-stroke or cerebrovasc* or brain vascul* or cerebral vascul* or apoplex*).tw.
(218286)
27 ((brain? or cerebr* or cerebell* or intracran* or intracerebral) adj2 (isch?emi* or infarct* or thrombo* or
emboli* or oclus*).tw. (67945)
28 ((brain? or cerebr* or cerebell* or intracerebral or intracranial or subarachnoid) adj2 (h?emorrhage? or
h?ematoma* or bleed*).tw. (48231)
29 (transi* adj3 isch?em* adj3 attack?).tw. (11531)
30 exp neoplasm/ (3052146)
31 (cancer* or carcinoma? or tumor? or tumour? or neoplasm? or malignan*).tw,kf. (2591076)
32 or/9-31 [Chronic or Multimorbid incl Cancer] (7188621)
33 exp anxiety disorders/ (74194)
34 Depression/ (102161)
35 exp Stress, Psychological/ (115894)
36 depressive disorder/ or depression, postpartum/ or depressive disorder, treatment-resistant/ (73389)
37 or/33-36 [CMD MeSH] (326892)
38 incidence/ or prevalence/ (462052)
39 observational study/ (48677)
40 epidemiologic studies/ or case-control studies/ or cohort studies/ or follow-up studies/ or exp longitudinal
studies/ or prospective studies/ or retrospective studies/ or cross-sectional studies/ (2154542)
41 exp population characteristics/ (1764233)
42 risk factors/ (726399)
43 or/38-42 [Prevalence incidence Obs Studies MeSH] (3741412)
44 37 and 43 [Prevalence or Obs studies of NCDs MeSH] (115481)
45 (prevalen* adj5 (somatoform or somatiz* or somatis* or hysteri* or briquet or multisomat* or multi
somat* or MUPs or medically unexplained or ((dissociative adj3 (disorder* or reaction*)) or dissociation) or
(affective* adj (disorder? or disease? or illness* or symptom?)) or ((stress or cognitive or cognition or
personality or impulse control or paranoid or psychotic or neurologic* or nervous or eating) adj (disorder? or
illness* or disease?)) or ((bipolar or behavio?ral or obsessive or compulsive or panic or mood or agoraphobi* or
phobic or delusional) adj (disorder? or illness* or disease?)) or (OCD or obsess*-compulsi* or GAD or stress
reaction? or acute stress or neuro#s or neurotic) or (stress syndrome? or distress syndrome? or pain disorder?)
or (depressi* or depressed or MDD or anxi* or phobia or phobic)).tw,kw. (15988)

46 (incidence* adj5 (somatoform or somatiz* or somatis* or hysteri* or briquet or multisomat* or multi somat* or MUPs or medically unexplained or ((dissociative adj3 (disorder* or reaction*)) or dissociation) or (affective* adj (disorder? or disease? or illness* or symptom?)) or ((stress or cognitive or cognition or personality or impulse control or paranoid or psychotic or neurologic* or nervous or eating) adj (disorder? or illness* or disease?)) or ((bipolar or behavior?ral or obsessive or compulsive or panic or mood or agoraphobi* or phobic or delusional) adj (disorder? or illness* or disease?)) or (OCD or obsess*-compulsi* or GAD or stress reaction? or acute stress or neuro#s or neurotic) or (stress syndrome? or distress syndrome? or pain disorder?) or (depressi* or depressed or MDD or anxi* or phobia or phobic))).tw,kw. (4303)

47 (determinant* adj5 (somatoform or somatiz* or somatis* or hysteri* or briquet or multisomat* or multi somat* or MUPs or medically unexplained or ((dissociative adj3 (disorder* or reaction*)) or dissociation) or (affective* adj (disorder? or disease? or illness* or symptom?)) or ((stress or cognitive or cognition or personality or impulse control or paranoid or psychotic or neurologic* or nervous or eating) adj (disorder? or illness* or disease?)) or ((bipolar or behavior?ral or obsessive or compulsive or panic or mood or agoraphobi* or phobic or delusional) adj (disorder? or illness* or disease?)) or (OCD or obsess*-compulsi* or GAD or stress reaction? or acute stress or neuro#s or neurotic) or (stress syndrome? or distress syndrome? or pain disorder?) or (depressi* or depressed or MDD or anxi* or phobia or phobic))).tw,kw. (901)

48 (cohort* adj5 (somatoform or somatiz* or somatis* or hysteri* or briquet or multisomat* or multi somat* or MUPs or medically unexplained or ((dissociative adj3 (disorder* or reaction*)) or dissociation) or (affective* adj (disorder? or disease? or illness* or symptom?)) or ((stress or cognitive or cognition or personality or impulse control or paranoid or psychotic or neurologic* or nervous or eating) adj (disorder? or illness* or disease?)) or ((bipolar or behavior?ral or obsessive or compulsive or panic or mood or agoraphobi* or phobic or delusional) adj (disorder? or illness* or disease?)) or (OCD or obsess*-compulsi* or GAD or stress reaction? or acute stress or neuro#s or neurotic) or (stress syndrome? or distress syndrome? or pain disorder?) or (depressi* or depressed or MDD or anxi* or phobia or phobic))).tw,kw. (2151)

49 (observational* adj5 (somatoform or somatiz* or somatis* or hysteri* or briquet or multisomat* or multi somat* or MUPs or medically unexplained or ((dissociative adj3 (disorder* or reaction*)) or dissociation) or (affective* adj (disorder? or disease? or illness* or symptom?)) or ((stress or cognitive or cognition or personality or impulse control or paranoid or psychotic or neurologic* or nervous or eating) adj (disorder? or illness* or disease?)) or ((bipolar or behavior?ral or obsessive or compulsive or panic or mood or agoraphobi* or phobic or delusional) adj (disorder? or illness* or disease?)) or (OCD or obsess*-compulsi* or GAD or stress reaction? or acute stress or neuro#s or neurotic) or (stress syndrome? or distress syndrome? or pain disorder?) or (depressi* or depressed or MDD or anxi* or phobia or phobic))).tw,kw. (309)

50 ("risk factor*" adj5 (somatoform or somatiz* or somatis* or hysteri* or briquet or multisomat* or multi somat* or MUPs or medically unexplained or ((dissociative adj3 (disorder* or reaction*)) or dissociation) or (affective* adj (disorder? or disease? or illness* or symptom?)) or ((stress or cognitive or cognition or personality or impulse control or paranoid or psychotic or neurologic* or nervous or eating) adj (disorder? or illness* or disease?)) or ((bipolar or behavior?ral or obsessive or compulsive or panic or mood or agoraphobi* or phobic or delusional) adj (disorder? or illness* or disease?)) or (OCD or obsess*-compulsi* or GAD or stress reaction? or acute stress or neuro#s or neurotic) or (stress syndrome? or distress syndrome? or pain disorder?) or (depressi* or depressed or MDD or anxi* or phobia or phobic))).tw,kw. (7350)

51 or/45-50 [Prevalence or Obs studies of CMDs Textwords] (28554)

52 44 or 51 [Prevalence or Obs studies of CMDs] (130924)

53 8 and 32 and 52 [S Asia NCDs and CMD Prevalence or Obs studies] (608)

54 (somatoform or somatiz* or somatis* or hysteri* or briquet or multisomat* or multi somat* or MUPs or medically unexplained or ((dissociative adj3 (disorder* or reaction*)) or dissociation) or (affective* adj (disorder? or disease? or illness* or symptom?)) or ((stress or cognitive or cognition or personality or impulse control or paranoid or psychotic or neurologic* or nervous or eating) adj (disorder? or illness* or disease?)) or ((bipolar or behavior?ral or obsessive or compulsive or panic or mood or agoraphobi* or phobic or delusional) adj (disorder? or illness* or disease?)) or (OCD or obsess*-compulsi* or GAD or stress reaction? or acute stress or neuro#s or neurotic) or (stress syndrome? or distress syndrome? or pain disorder?) or (depressi* or depressed or MDD or anxi* or phobia or phobic))).tw,kw. (682258)

55 37 or 54 [CMDs] (813547)

56 8 and 32 and 55 (2590)

57 limit 56 to systematic reviews (70)

58 53 or 57 [S Asia NCDs and CMD Prevalence or Obs studies or Systematic Reviews] (658)

59 limit 58 to yr="1990 -Current" (653)

- 60 animals/ not humans/ (4433348)
 61 (exp Child/ or Adolescent/ or exp Infant/) not exp Adult/ (1747799)
 62 59 not (60 or 61) [Final search animals and children removed] (608)

Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations <July 02, 2018>

- 1 ((Indian or Indians) not ("west indian*" or "american indian*")).ti,ab,in. (25566)
 2 india.ti,ab,in. (137980)
 3 ("south asia*" or bangladesh* or pakistan*).ti,ab,in. (13194)
 4 (Bhutan* or afghanistan* or maldiv* or nepal* or "sri lanka*").ti,ab,in. (4718)
 5 exp south asia/ (0)
 6 or/1-5 [All S Asia World Bank] (157513)
 7 (co-morbid* or comorbid*).ti,ab. (19607)
 8 (multi-morbid* or multimorbid*).ti,ab. (683)
 9 (("long term" or chronic) adj3 (disease? or illness* or condition? or disorder?)).tw. (34094)
 10 diabet*.tw. (56399)
 11 (Aneurysm* or Atherosclerosis or Cardio* or endocard* or pericard*).tw. (80728)
 12 (heart or cardiac or valvular or coronary or arterial or vascular or hypertension).tw. (154207)
 13 ((long-term or chronic*) adj2 (airway* or pulmonar* or airflow* or lung*) adj2 Obstruct*).tw. (4898)
 14 (pulmonar* adj2 emphysem*).tw. (154)
 15 ((long-term or chronic*) adj5 (bronchitis or respirat*).tw. (1480)
 16 ((long-term or Chronic*) adj2 lung* adj5 (condition* or disease* or symptom* or problem* or failure*).tw. (949)
 17 (respiratory adj2 (condition* or disease* or symptom* or problem*).tw. (4295)
 18 (stroke or poststroke or post-stroke or cerebrovasc* or brain vas* or cerebral vas* or apoplex*).tw. (26659)
 19 ((brain? or cerebr* or cerebell* or intracran* or intracerebral) adj2 (isch?emi* or infarct* or thrombo* or emboli* or oclus*).tw. (6454)
 20 ((brain? or cerebr* or cerebell* or intracerebral or intracranial or subarachnoid) adj2 (h?emorrhage? or h?ematoma* or bleed*).tw. (5284)
 21 (transi* adj3 isch?em* adj3 attack?).tw. (1160)
 22 (cancer* or carcinoma? or tumor? or tumour? or neoplasm? or malignan*).tw. (264401)
 23 or/7-22 [Chronic or Multimorbid incl Cancer] (521202)
 24 (somatoform or somatiz* or somatis* or hysteri* or briquet or multisomat* or multi somat* or MUPs or medically unexplained).tw. (1228)
 25 ((dissociative adj3 (disorder* or reaction*)) or dissociation).tw. (14258)
 26 (affective* adj (disorder? or disease? or illness* or symptom?)).tw. (1197)
 27 ((stress or cognitive or cognition or personality or impulse control or mood or paranoid or psychotic or neurologic* or nervous or eating) adj (disorder? or illness* or disease?)).tw. (14655)
 28 ((bipolar or behavio?ral or obsessive or compulsive or panic or mood or agoraphobi* or delusional) adj (disorder? or illness* or disease?)).tw. (6652)
 29 (OCD or obsess*-compulsi* or GAD or stress reaction? or acute stress or neuros#s or neurotic).tw. (3941)
 30 (stress syndrome? or distress syndrome? or pain disorder?).tw. (2410)
 31 (depressi* or depressed or MDD or anxi* or phobia or phobic).tw. (45512)
 32 (stress adj5 (chronic* or long-term or severe or mental* or psyc*)).ab. (4988)
 33 stress.ti. (21762)
 34 or/24-33 [CMDs] (97847)
 35 6 and 23 and 34 [S Asia NCDs CMDs] (1401)
 36 limit 35 to systematic reviews (23)
 37 (incidence* adj5 (somatoform or somatiz* or somatis* or hysteri* or briquet or multisomat* or multi somat* or MUPs or medically unexplained or ((dissociative adj3 (disorder* or reaction*)) or dissociation) or (affective* adj (disorder? or disease? or illness* or symptom?)) or ((stress or cognitive or cognition or personality or impulse control or paranoid or psychotic or neurologic* or nervous or eating) adj (disorder? or illness* or disease?)) or ((bipolar or behavio?ral or obsessive or compulsive or panic or mood or agoraphobi* or phobic or delusional) adj (disorder? or illness* or disease?)) or (OCD or obsess*-compulsi* or GAD or stress reaction? or acute stress or neuros#s or neurotic) or (stress syndrome? or distress syndrome? or pain disorder?) or (depressi* or depressed or MDD or anxi* or phobia or phobic))).tw,kw. (419)
 38 (prevalen* adj5 (somatoform or somatiz* or somatis* or hysteri* or briquet or multisomat* or multi somat* or MUPs or medically unexplained or ((dissociative adj3 (disorder* or reaction*)) or dissociation) or (affective* adj (disorder? or disease? or illness* or symptom?)) or ((stress or cognitive or cognition or

personality or impulse control or paranoid or psychotic or neurologic* or nervous or eating) adj (disorder? or illness* or disease?) or ((bipolar or behavio?ral or obsessive or compulsive or panic or mood or agoraphobi* or phobic or delusional) adj (disorder? or illness* or disease?) or (OCD or obsess*-compulsi* or GAD or stress reaction? or acute stress or neuro#s or neurotic) or (stress syndrome? or distress syndrome? or pain disorder?) or (depressi* or depressed or MDD or anxi* or phobia or phobic))).tw,kw. (2377)

39 (determinant* adj5 (somatoform or somatiz* or somatis* or hysteri* or briquet or multisomat* or multi somat* or MUPs or medically unexplained or ((dissociative adj3 (disorder* or reaction*)) or dissociation) or (affective* adj (disorder? or disease? or illness* or symptom?)) or ((stress or cognitive or cognition or personality or impulse control or paranoid or psychotic or neurologic* or nervous or eating) adj (disorder? or illness* or disease?) or ((bipolar or behavio?ral or obsessive or compulsive or panic or mood or agoraphobi* or phobic or delusional) adj (disorder? or illness* or disease?) or (OCD or obsess*-compulsi* or GAD or stress reaction? or acute stress or neuro#s or neurotic) or (stress syndrome? or distress syndrome? or pain disorder?) or (depressi* or depressed or MDD or anxi* or phobia or phobic))).tw,kw. (122)

40 (cohort* adj5 (somatoform or somatiz* or somatis* or hysteri* or briquet or multisomat* or multi somat* or MUPs or medically unexplained or ((dissociative adj3 (disorder* or reaction*)) or dissociation) or (affective* adj (disorder? or disease? or illness* or symptom?)) or ((stress or cognitive or cognition or personality or impulse control or paranoid or psychotic or neurologic* or nervous or eating) adj (disorder? or illness* or disease?) or ((bipolar or behavio?ral or obsessive or compulsive or panic or mood or agoraphobi* or phobic or delusional) adj (disorder? or illness* or disease?) or (OCD or obsess*-compulsi* or GAD or stress reaction? or acute stress or neuro#s or neurotic) or (stress syndrome? or distress syndrome? or pain disorder?) or (depressi* or depressed or MDD or anxi* or phobia or phobic))).tw,kw. (305)

41 (observational* adj5 (somatoform or somatiz* or somatis* or hysteri* or briquet or multisomat* or multi somat* or MUPs or medically unexplained or ((dissociative adj3 (disorder* or reaction*)) or dissociation) or (affective* adj (disorder? or disease? or illness* or symptom?)) or ((stress or cognitive or cognition or personality or impulse control or paranoid or psychotic or neurologic* or nervous or eating) adj (disorder? or illness* or disease?) or ((bipolar or behavio?ral or obsessive or compulsive or panic or mood or agoraphobi* or phobic or delusional) adj (disorder? or illness* or disease?) or (OCD or obsess*-compulsi* or GAD or stress reaction? or acute stress or neuro#s or neurotic) or (stress syndrome? or distress syndrome? or pain disorder?) or (depressi* or depressed or MDD or anxi* or phobia or phobic))).tw,kw. (69)

42 ("risk factor*" adj5 (somatoform or somatiz* or somatis* or hysteri* or briquet or multisomat* or multi somat* or MUPs or medically unexplained or ((dissociative adj3 (disorder* or reaction*)) or dissociation) or (affective* adj (disorder? or disease? or illness* or symptom?)) or ((stress or cognitive or cognition or personality or impulse control or paranoid or psychotic or neurologic* or nervous or eating) adj (disorder? or illness* or disease?) or ((bipolar or behavio?ral or obsessive or compulsive or panic or mood or agoraphobi* or phobic or delusional) adj (disorder? or illness* or disease?) or (OCD or obsess*-compulsi* or GAD or stress reaction? or acute stress or neuro#s or neurotic) or (stress syndrome? or distress syndrome? or pain disorder?) or (depressi* or depressed or MDD or anxi* or phobia or phobic))).tw,kw. (1005)

43 or/37-42 [CMD prevalence or obs studies] (3909)

44 6 and 23 and 43 [S Asia NCD CMD prevalence or obs studies] (112)

45 36 or 44 [S Asia NCD CMD prevalence or obs studies or systematic reviews] (131)

46 limit 45 to yr="1990 -Current" (131)

47 (rat or rats or mice or mouse).ti. (54182)

48 ((child* or infant* or baby or babies or preterm* or adolesc* or newborn* or pediatric* or paediatric* or neonate* or teen* or schoolchild*) not (adult or elderly or geriatric*)).ti. (90309)

49 46 not (47 or 48) [Final search animals and children removed] (119)

Ovid MEDLINE(R) Epub Ahead of Print <July 02, 2018>

Same search strategy as Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations <July 02, 2018>

PakMediNet (PakCyber) Inception – 13-09-2018

107 brief searches were run using ‘Simple’ search interface as ‘Advanced’ interface was not functioning. The terms entered are automatically combined with an AND Boolean operator, for example searching: depression cancer prevalence runs a search for depression AND cancer AND prevalence

Searches for Cancer or Stroke	Searches for Cardiovascular Diseases	Searches for COPD or Diabetes
depression cancer prevalence depression cancer epidemiology depression cancer incidence depression cancer observational anxiety cancer prevalence anxiety cancer epidemiology anxiety cancer incidence anxiety cancer observational stress cancer prevalence stress cancer epidemiology stress cancer incidence stress cancer observational distress cancer Phobia cancer affective cancer somatoform cancer behavioural cancer behavioral cancer Panic cancer Compulsive cancer cognitive cancer depression stroke prevalence Depression stroke epidemiology Depression stroke incidence depression stroke observational anxiety stroke stress stroke prevalence Stress stroke epidemiology stress stroke incidence stress stroke observational distress stroke Phobia stroke affective stroke behavioural stroke behavioral stroke panic stroke compulsive stroke cognitive stroke	depression cardiovascular prevalence depression cardiovascular epidemiology depression cardiovascular incidence depression cardiovascular observational anxiety cardiovascular prevalence anxiety cardiovascular epidemiology anxiety cardiovascular incidence anxiety cardiovascular observational stress cardiovascular prevalence . Stress cardiovascular epidemiology stress cardiovascular incidence Stress cardiovascular observational distress cardiovascular prevalence distress cardiovascular incidence distress cardiovascular observational Distress cardiovascular epidemiology Phobia cardiovascular affective cardiovascular somatoform cardiovascular behavioural cardiovascular behavioral cardiovascular Panic cardiovascular compulsive cardiovascular cognitive cardiovascular	depression pulmonary prevalence depression pulmonary incidence depression pulmonary observational anxiety pulmonary stress pulmonary incidence stress pulmonary prevalence stress pulmonary epidemiology stress pulmonary observational distress pulmonary prevalence distress pulmonary epidemiology distress pulmonary incidence distress pulmonary observational Phobia pulmonary Affective pulmonary somatoform pulmonary behavioral pulmonary behavioural pulmonary cognitive pulmonary Panic pulmonary Compulsive pulmonary depression diabetes prevalence Depression Diabetes Epidemiology depression diabetes incidence depression diabetes observational anxiety diabetes prevalence anxiety diabetes incidence anxiety diabetes observational Anxiety Diabetes Epidemiology stress diabetes prevalence Stress diabetes epidemiology stress diabetes incidence stress diabetes observational distress diabetes prevalence Distress diabetes epidemiology distress diabetes incidence distress diabetes observational phobia diabetes affective diabetes somatoform diabetes behavioural diabetes behavioral diabetes Panic diabetes Compulsive diabetes cognitive diabetes

PsycINFO 1806 to June Week 4 2018

- 1 ((Indian or Indians) not ("west indian*" or "american indian*")).ti,ab,in,id,lo. (16682)
- 2 india.ti,ab,in,id,lo. (38957)
- 3 ("south asia*" or bangladesh* or pakistan*).ti,ab,in,id,lo. (8855)
- 4 (Bhutan* or afghanistan* or maldives* or nepal* or "sri lanka*").ti,ab,in,id,lo. (6452)
- 5 or/1-4 [All S Asia World Bank] (57550)
- 6 comorbidity/ (28957)
- 7 (co-morbid* or comorbid*).ti,ab,id. (53103)
- 8 (multi-morbid* or multimorbid*).ti,ab,id. (786)

9 Chronic illness/ (10638)

10 (("long term" or chronic) adj3 (disease? or illness* or condition? or disorder?)).tw,id. (43120)

11 exp diabetes/ (15988)

12 exp Cardiovascular Disorders/ (57443)

13 exp Chronic Obstructive Pulmonary Disease/ (1240)

14 exp Cerebrovascular Accidents/ (19139)

15 exp Neoplasms/ (47053)

16 diabet*.tw,id. (28538)

17 (Aneurysm* or Atherosclerosis or Cardio* or endocard* or pericard*).tw,id. (37682)

18 ((long-term or chronic*) adj2 (airway* or pulmonar* or airflow* or lung*) adj2 Obstruct*).tw,id. (2180)

19 (pulmonar* adj2 emphysem*).tw,id. (18)

20 ((long-term or chronic*) adj5 (bronchitis or respirat*)).tw,id. (649)

21 ((long-term or Chronic*) adj2 lung* adj5 (condition* or disease* or symptom* or problem* or failure*)).tw,id. (367)

22 (respiratory adj2 (condition* or disease* or symptom* or problem*)).tw,id. (1929)

23 (stroke or poststroke or post-stroke or cerebrovasc* or brain vas* or cerebral vas* or apoplex*).tw,id. (35772)

24 ((brain? or cerebr* or cerebell* or intracran* or intracerebral) adj2 (isch?emi* or infarct* or thrombo* or emboli* or oclus*)).tw,id. (7518)

25 ((brain? or cerebr* or cerebell* or intracerebral or intracranial or subarachnoid) adj2 (h?emorrhage? or h?ematoma* or bleed*)).tw,id. (4130)

26 (transi* adj3 isch?em* adj3 attack*).tw,id. (1110)

27 (cancer* or carcinoma? or tumor? or tumour? or neoplasm? or malignan*).tw,id. (72693)

28 or/6-27 [Multimorbidity or Chronic Non Communicable disease] (271989)

29 anxiety disorders/ or acute stress disorder/ or castration anxiety/ or death anxiety/ or generalized anxiety disorder/ or exp obsessive compulsive disorder/ or panic disorder/ or exp phobias/ or separation anxiety disorder/ (48708)

30 major depression/ or anaclitic depression/ or endogenous depression/ or late life depression/ or postpartum depression/ or reactive depression/ or recurrent depression/ or treatment resistant depression/ (117913)

31 exp stress/ (99632)

32 (somatoform or somatiz* or somatis* or hysteri* or briquet or multisomat* or multi somat* or MUPs or medically unexplained).tw,id. (16132)

33 ((dissociative adj3 (disorder* or reaction*)) or dissociation).tw,id. (19307)

34 (affective* adj (disorder? or disease? or illness* or symptom?)).tw,id. (19480)

35 ((stress or cognitive or cognition or personality or impulse control or mood or paranoid or psychotic or neurologic* or nervous or eating) adj (disorder? or illness* or disease?)).tw,id. (125076)

36 ((bipolar or behavio?ral or obsessive or compulsive or panic or mood or agoraphobi* or delusional) adj (disorder? or illness* or disease?)).tw,id. (67655)

37 (OCD or obsess*-compulsi* or GAD or stress reaction? or acute stress or neuros#s or neurotic).tw,id. (55900)

38 (stress syndrome? or distress syndrome? or pain disorder?).tw,id. (2090)

39 (depressi* or depressed or MDD or anxi* or phobia or phobic).tw,id. (401075)

40 (stress adj5 (chronic* or long-term or severe or mental* or psyc*)).ab. (41105)

41 stress.ti. (67580)

42 or/29-41 [CMDs] (650805)

43 5 and 28 and 42 [S Asia CMDs and Multimorbidity or Non Communicable Disease] (1114)

44 limit 43 to "reviews (maximizes specificity)" (35)

45 epidemiology/ (46998)

46 at risk populations/ (35803)

47 risk factors/ (70989)

48 cohort analysis/ or followup studies/ or exp longitudinal studies/ (29324)

49 prevalen*.tw,id. (130118)

50 incidence*.tw,id. (48885)

51 epidemiolog*.tw,id. (48917)

52 risk factor*.tw,id. (94276)

53 ((study or studies) adj3 (case-control or cohort studies or follow-up or follow-on or longitudinal or prospective or retrospective or cross-sectional)).tw,id. (138795)

54 or/45-53 [Prevalence or Obs Studies] (435905)

55 43 and 54 [S Asia NCD CMD Prevalence] (441)

56 44 or 55 [S Asia NCD CMD Prevalence Obs Studies or Systematic reviews] (453)

57 limit 56 to yr="1990 -Current" (442)
58 ((child* or adolescen*) not adult*).ag. (476759)
59 (rat or rats or mouse or mice).ti. (111207)
60 57 not (58 or 59) [Final search animals and children removed] (414)

World Bank Group Research and Publications: Documents and Reports

<http://documents.worldbank.org/curated/en/docadvancesearch/> (accessed 13-09-2018)

Six searches run due to technical issues with executing searches with long search strings

1. (depression OR depressed OR depressive OR anxiety OR stress OR distress OR phobia OR affective) searched in Keywords Field, 'Boolean query' selected.

Filters applied:

Country - Bangladesh, India, Pakistan

Topic - Health, Nutrition and Population

Document type: Publications & Research

Search, and then tick 'Search within' to limit search

(cancer OR neoplasm OR diabetes) searched within Search Documents field

2. (depression OR depressed OR depressive OR anxiety OR stress OR distress OR phobia OR affective) searched in Keywords Field, 'Boolean query' selected.

Filters applied: same as search 1

Search, and then tick 'Search within' to limit search

(stroke OR cardiovascular OR vascular OR cardiac OR coronary OR arterial OR hypertension) searched within Search Documents field

3. (depression OR depressed OR depressive OR anxiety OR stress OR distress OR phobia OR affective) searched in Keywords Field, 'Boolean query' selected.

Filters applied: same as search 1

Search, and then tick 'Search within' to limit search

(pulmonary OR lung OR respiratory OR bronchitis OR Emphysema) searched within Search Documents field

4. (somatoform OR behavioral OR behavioural OR panic OR compulsive OR cognitive) searched in Keywords Field, 'Boolean query' selected.

Filters applied: same as search 1

Search, and then tick 'Search within' to limit search

(cancer OR neoplasm OR diabetes) searched within Search Documents field

5. (somatoform OR behavioral OR behavioural OR panic OR compulsive OR cognitive) searched in Keywords Field, 'Boolean query' selected.

Filters applied: same as search 1

Search, and then tick 'Search within' to limit search

(stroke OR cardiovascular OR vascular OR cardiac OR coronary OR arterial OR hypertension) searched within Search Documents field

6. (somatoform OR behavioral OR behavioural OR panic OR compulsive OR cognitive) searched in Keywords Field, 'Boolean query' selected.

Filters applied: same as search 1

Search, and then tick 'Search within' to limit search

(pulmonary OR lung OR respiratory OR bronchitis OR Emphysema) searched within Search Documents field

Figure S1. Overview of quality assessment

Legend:

AXIS tool items: 1 aims/objectives, 2 study design, 3 sample size, 4 target population, 5 sample frame, 6 selection process, 7 non-responders, 8 outcome measures, 9 instruments, 10 statistical significance, 11 description of methods, 12 description basic data, 13 response rate, 14 description non-responders, 15 consistency results, 16 analyses, 17 discussion and conclusions, 18 study limitations, 19 conflicts of interest, 20 ethical approval.

To calculate summary scores, studies received 1 point for a green box, 0.5 point for an orange box, and no points for a red box. All items were weighted equally.

Author	Year	AXIS tool item																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CARDIOVASCULAR																					
Agarwal	2011	Green	Green	Red	Green	Red	Red	Green	Green	Yellow	Green	Green	Green	Yellow	Green	Red	Green	Green	Green	Yellow	Green
Baweja	2013	Green	Green	Red	Red	Green	Yellow	Red	Green	Yellow	Green	Red	Red	Yellow	Red	Green	Green	Green	Green	Green	Green
Bokhari	2002	Green	Green	Red	Green	Green	Yellow	Red	Green	Green	Green	Red	Green	Yellow	Red	Green	Green	Green	Green	Yellow	Yellow
De	2011	Green	Green	Red	Green	Yellow	Yellow	Red	Green	Green	Green	Red	Red	Yellow	Red	Green	Green	Green	Green	Yellow	Green
Hashmi	2007	Green	Green	Green	Green	Yellow	Yellow	Red	Green	Green	Green	Green	Green	Yellow	Red	Green	Green	Green	Green	Green	Green
Mahmood	2017	Green	Green	Green	Red	Yellow	Yellow	Red	Green	Green	Green	Green	Green	Yellow	Red	Green	Green	Green	Green	Green	Green
Mehta	2014	Green	Green	Red	Red	Yellow	Yellow	Red	Green	Green	Green	Green	Green	Yellow	Red	Green	Green	Green	Green	Green	Green
Mushtaq	2014	Green	Green	Red	Green	Red	Red	Red	Green	Green	Green	Red	Red	Yellow	Red	Green	Green	Green	Green	Yellow	Green
Nasir	2015	Green	Green	Red	Red	Yellow	Yellow	Red	Green	Green	Green	Green	Red	Yellow	Red	Green	Green	Green	Red	Yellow	Green
Negi	2014	Green	Green	Red	Green	Green	Yellow	Red	Green	Green	Green	Green	Red	Yellow	Red	Green	Green	Green	Green	Yellow	Green
Raju	2010	Green	Green	Red	Green	Red	Red	Yellow	Green	Green	Green	Green	Green	Yellow	Red	Green	Green	Green	Green	Green	Green
Srinivasan	2004	Green	Green	Red	Green	Green	Yellow	Yellow	Green	Green	Green	Green	Green	Yellow	Red	Green	Green	Green	Green	Green	Green
Srivastava	2010	Green	Green	Red	Green	Red	Yellow	Yellow	Green	Green	Green	Red	Red	Yellow	Yellow	Red	Green	Green	Red	Green	Green
Islam	2016	Green	Green	Green	Green	Red	Yellow	Yellow	Green	Green	Green	Red	Red	Yellow	Red	Green	Green	Green	Green	Green	Green
Dogar	2008	Green	Green	Red	Green	Red	Red	Red	Green	Yellow	Green	Red	Red	Yellow	Red	Green	Green	Yellow	Red	Green	Yellow
Khan	2010	Green	Green	Red	Green	Yellow	Yellow	Red	Green	Green	Green	Red	Red	Yellow	Red	Green	Green	Green	Green	Yellow	Yellow
Khan	2012	Green	Green	Green	Green	Red	Yellow	Red	Green	Green	Green	Red	Red	Yellow	Red	Green	Green	Red	Green	Green	Green
Khan	2012b	Green	Green	Green	Yellow	Yellow	Yellow	Red	Green	Yellow	Green	Red	Red	Yellow	Red	Yellow	Yellow	Red	Green	Yellow	Green
Bhatt	2015	Green	Green	Red	Green	Red	Yellow	Red	Green	Green	Green	Red	Red	Yellow	Red	Green	Green	Red	Green	Green	Green
Sharma	2002	Green	Green	Red	Green	Red	Yellow	Yellow	Green	Yellow	Green	Red	Green	Yellow	Red	Green	Green	Green	Green	Yellow	Green
Shruti	2017	Green	Green	Red	Green	Red	Yellow	Yellow	Green	Green	Green	Red	Red	Yellow	Yellow	Green	Green	Green	Green	Green	Green
Ghosal	2014	Red	Green	Red	Green	Green	Yellow	Yellow	Green	Green	Green	Red	Red	Yellow	Red	Green	Green	Green	Green	Yellow	Green
Chaudhury	2006	Red	Green	Red	Green	Red	Red	Red	Green	Green	Green	Red	Red	Yellow	Red	Green	Green	Yellow	Green	Green	Green
Chaudhary	2014	Green	Green	Red	Green	Yellow	Yellow	Red	Green	Green	Green	Red	Red	Yellow	Red	Green	Green	Red	Green	Yellow	Yellow
John	2013	Green	Green	Red	Green	Yellow	Yellow	Red	Green	Yellow	Green	Red	Red	Yellow	Red	Green	Green	Yellow	Green	Green	Green
Nehra	2015	Green	Green	Red	Green	Yellow	Yellow	Red	Green	Green	Green	Red	Red	Yellow	Red	Yellow	Green	Red	Green	Yellow	Yellow
Motiani	2011	Green	Green	Green	Green	Red	Yellow	Red	Green	Green	Red	Red	Red	Yellow	Red	Green	Green	Green	Green	Yellow	Green

Author	Year	AXIS tool item																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CANCER																					
Chaitanya	2016																				
Mishra	2006																				
Mohanti	2015																				
Pandey	2007																				
Purkayastha	2017																				
Rashid	2012																				
Sutanay	2017																				
Alexander	1993																				
Chandra	1998																				
Jadoon	2010																				
Khalil	2016																				
Nausheen	2007																				
Chaturvedi	1996																				
Chawla	1999																				
Chittem	2013																				
Deshpande	2014																				
Jadhav	2010																				
Kausar	2000																				
Thomas	2005																				
Mendonsa	2010																				
Hashmi	2013																				
Shankar	2016																				
Ahmad	2009																				

Author	Year	AXIS tool item																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
DIABETES																					
Ali	2013	Y	G	R	G	R	Y	R	G	G	G	R	Y	R	G	G	R	R	G	Y	
Arshad	2016	R	G	R	R	R	R	G	G	G	Y	Y	R	G	G	G	Y	G	G	G	
Bajaj	2012	G	G	G	R	Y	G	G	G	R	Y	Y	R	G	G	G	G	G	G	G	
Das	2013	G	G	R	R	R	R	G	Y	R	R	Y	R	G	G	G	R	R	G	G	
Farhan	2017	G	G	G	R	R	R	G	G	G	G	Y	R	G	G	G	G	R	Y	Y	
Joseph	2013	G	G	G	R	R	R	G	G	G	G	Y	R	G	G	G	G	G	G	G	
Khan	2014	G	R	Y	R	R	R	G	G	R	R	R	Y	R	G	G	R	R	R	Y	
Khullar	2016	G	R	G	R	R	R	G	G	R	R	Y	R	G	G	G	R	R	R	G	
Khuwaja	2010	G	G	G	Y	G	R	R	G	G	G	Y	R	G	G	G	G	G	G	G	
Madhu	2013	G	G	R	R	R	R	G	Y	R	R	Y	R	G	G	G	R	R	G	G	
Mathew	2012	G	R	G	R	R	R	G	G	R	R	Y	R	G	G	G	G	G	G	G	
Mushtaque	2016	G	R	G	Y	R	R	G	G	R	R	Y	R	G	G	G	Y	G	G	G	
Natasha	2015	G	R	R	R	R	R	G	G	R	R	Y	R	G	G	G	G	G	G	G	
Pongothai	2011	G	R	G	G	G	G	G	G	R	R	Y	R	G	G	G	G	G	Y	G	
Rajput	2016	G	R	R	R	R	R	G	G	R	R	Y	R	G	G	G	G	R	G	G	
Raval	2010	G	R	R	R	R	R	G	G	R	R	Y	R	G	G	G	G	G	G	G	
Roy	2012	G	R	R	R	R	R	G	G	R	R	Y	R	G	G	G	G	G	G	G	
Thour	2015	Y	G	R	G	Y	R	G	G	R	R	Y	R	G	G	G	G	G	G	Y	
Weaver	2015	G	R	G	Y	R	R	G	G	R	R	Y	R	G	G	G	G	G	Y	G	
Zahid	2008	G	R	G	Y	R	R	G	G	R	R	Y	R	G	G	G	G	G	Y	G	
Zuberi	2011	G	R	R	R	R	R	G	G	R	R	Y	R	G	G	G	R	G	G	G	
Azad	2014	G	R	R	Y	R	R	G	G	R	R	Y	R	G	R	G	G	G	Y	G	
Balhara	2011	G	R	Y	Y	R	R	G	G	R	R	Y	R	G	G	G	G	G	G	G	
Chaudhary	2017	G	R	G	R	R	R	G	G	R	R	Y	R	G	G	R	R	R	G	G	
Chaudhry	2010	R	G	R	R	R	R	G	G	R	R	Y	R	G	G	Y	G	R	G	G	
Ingle	2017	G	R	G	R	R	R	G	G	R	R	Y	R	G	G	G	Y	G	G	G	
Iype	2009	G	R	R	R	R	R	G	G	R	R	Y	R	G	Y	G	G	G	G	G	
Jain	2015	G	R	Y	Y	R	R	G	G	R	R	Y	R	G	G	Y	R	R	G	G	
Lloyd	2018	G	R	G	Y	R	R	G	G	R	R	Y	R	G	Y	G	G	G	Y	G	
Mir	2015	G	R	Y	Y	R	R	G	G	R	R	Y	R	G	G	R	R	G	Y	G	
Bahety	2017	G	R	R	Y	R	R	G	G	R	R	Y	R	G	Y	G	R	R	G	G	
Islam	2015	G	R	R	R	R	R	G	G	R	R	Y	R	G	G	G	R	R	G	G	
Perveen	2010	G	R	R	R	R	R	G	G	R	R	Y	R	G	G	G	R	R	G	G	
Siddiqui	2014	G	R	G	R	R	R	G	G	R	R	Y	R	G	Y	G	R	R	G	G	
Singh	2014	G	R	G	Y	R	R	G	G	R	R	Y	R	G	R	G	R	R	G	G	
Asghar	2007	G	R	Y	Y	R	R	G	G	R	R	Y	R	G	G	R	R	G	G	G	
Gehlawat	2013	G	R	R	Y	R	R	G	G	R	R	Y	R	G	G	G	R	R	G	G	
Rauf	2016	G	R	G	Y	R	R	G	G	R	R	Y	R	G	G	G	R	R	G	G	
Rauf	2005	G	R	R	R	R	R	G	G	R	R	Y	R	G	Y	R	R	R	Y	Y	
Siddique	2014	G	R	G	Y	R	R	G	Y	R	R	Y	R	G	Y	R	R	R	G	Y	

Author	Year	AXIS tool item																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RESPIRATORY																					
De	2012	G	R	G	R	Y	R	G	G	R	R	Y	R	Y	Y	R	G	G	G	G	
Godil	2017	G	R	Y	Y	R	R	G	G	R	R	Y	R	G	G	G	G	G	G	G	
Agarwal	2018	G	R	R	R	R	R	G	G	R	R	Y	R	G	G	G	G	G	G	G	
Misra	2015	G	R	G	R	R	R	G	G	R	R	Y	R	G	G	G	G	R	Y	G	
MULTIPLE CONDITIONS																					
Buvneshkumar	2018	G	R	G	R	R	R	G	G	R	R	Y	R	G	G	G	G	R	G	G	

Figure S2. Funnel plot of logit depression prevalence estimates against sample size

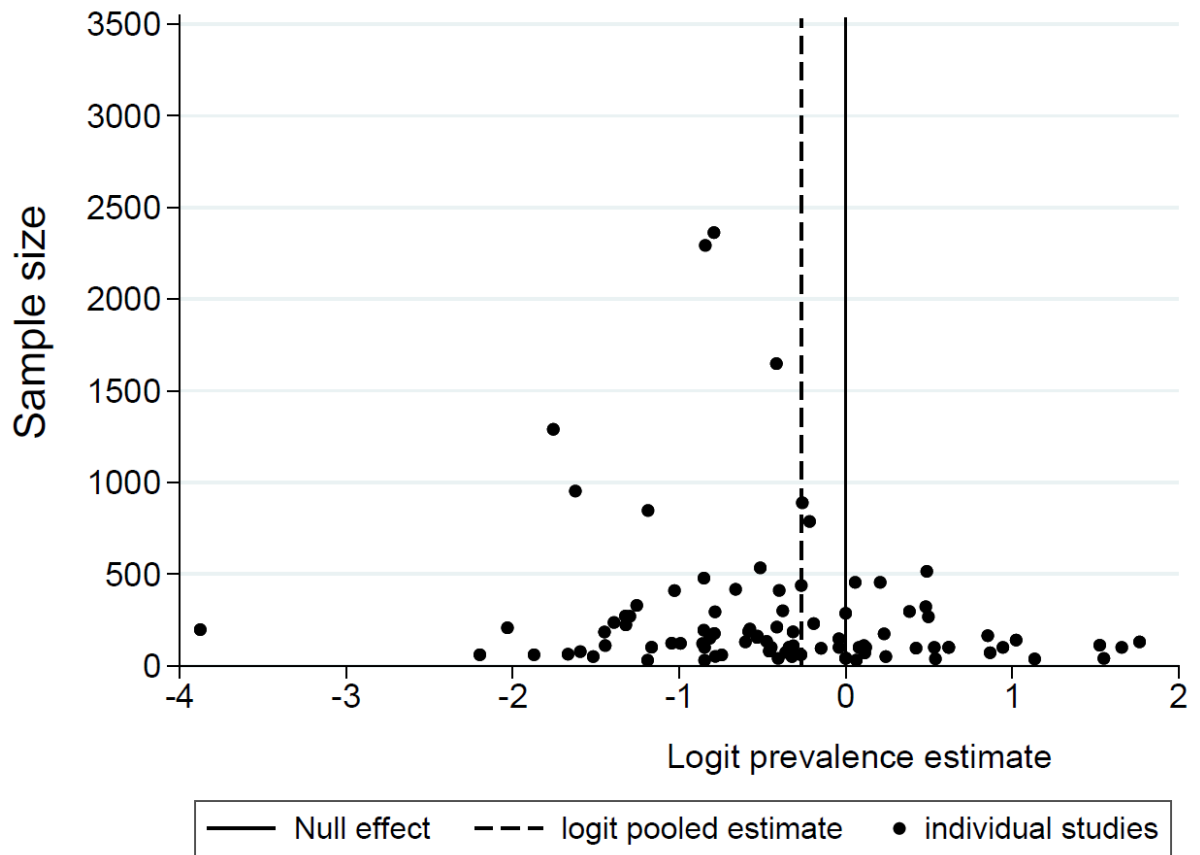


Table S1. Meta regression analysis depression prevalence

Prevalence of depression	N=94, tau2=0.02, I ² res=83%, R ² adj=0.42%		
Variable	β coefficient	SE	95% CI
Year of publication	0.01	0.004	-0.001; 0.016
Sample size (vs ≤ 50)			
51-100	-0.02	0.077	-0.173 to 0.133
101-300	-0.09	0.073	-0.232 to 0.060
>300	-0.10	0.080	-0.266 to 0.054
CMD diagnostic tool (vs other)			
<i>diagnostic interview</i>	-0.04	0.069	-0.176 to 0.100
Quality score ¹	-0.01	0.010	-0.176 to 0.008
Country			
<i>Bangladesh</i>	-0.02	0.078	-0.171 to 0.138
<i>Pakistan</i>	-0.02	0.081	-0.184 to 0.137
NCD			
<i>Cancer</i>	-0.00	0.055	-0.112 to 0.109
<i>CVD</i>	0.05	0.048	-0.040 to 0.150
<i>Respiratory</i>	0.03	0.073	-0.114 to 0.177

1. A higher score indicating better quality

Table S2. Meta regression analysis anxiety prevalence

Prevalence of anxiety	N=28, tau2 = 0.02, I ² res=80%, R ² adj=11%		
Variable	β coefficient	SE	95% CI
Year of publication	0.01	0.006	-0.005 to 0.022
Sample size (vs ≤ 50)			
51-100	0.04	0.106	-0.177 to 0.264
101-300	0.06	0.102	-0.149 to 0.276
>300	0.21	0.120	-0.036 to 0.463
Quality score ¹	-0.03	0.020	-0.071 to 0.013

1. A higher score indicating better quality

Appendix S2. Full reference list of included studies

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