**Table e-1:** Medline (Ovid) Search Terms and Strategy (1946 to May 1, 2018)

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| **#** | **Searches** | **Results** |
| 1 | exp "Sleep Initiation and Maintenance Disorders"/  | 11471  |
| 2 | exp Sleep Wake Disorders/  | 78331  |
| 3 | exp Sleep/  | 72010  |
| 4 | (sleep\* adj2 disturb\*).mp.  | 13216  |
| 5 | (sleep\* adj4 disorder\*).mp.  | 44254  |
| 6 | (sleep\* adj4 character\*).mp.  | 4016  |
| 7 | (sleep\* adj4 impair\*).mp.  | 2879  |
| 8 | (sleep\* adj8 symptom\*).mp.  | 9967  |
| 9 | (sleep\* adj4 syndrom\*).mp.  | 20716  |
| 10 | (sleep\* adj4 issue?).mp.  | 426  |
| 11 | (sleep\* adj4 problem\*).mp.  | 6002  |
| 12 | sleepless\*.mp.  | 664  |
| 13 | insomni???.mp.  | 15200  |
| 14 | exp Sleep Apnea Syndromes/ [ MeSH heading changed from exp sleep disordered breathing]  | 30969  |
| 15 | exp obesity hypoventilation syndrome/  | 747  |
| 16 | apnea/ and sleep/ [historical]  | 263  |
| 17 | apnea/ and (hypoventilation/ or sleep disorders/) [historical]  | 213  |
| 18 | (apn?ea adj1 attack\*).mp,kw.  | 35  |
| 19 | (apn?ea adj1 index\*).mp,kw.  | 921  |
| 20 | (apn?ea adj1 indices\*).mp,kw.  | 63  |
| 21 | (apn?ea adj3 monitor\*).mp,kw.  | 430  |
| 22 | (hypersomni\* adj2 periodic breath\*).mp,kw.  | 11  |
| 23 | (hypersomni\* adj2 periodic respirat\*).mp,kw.  | 8  |
| 24 | (mixed adj2 apnea\*).mp,kw.  | 184  |
| 25 | (mixed adj2 apnoea\*).mp,kw.  | 52  |
| 26 | (nocturnal adj2 hypoventilation).mp,kw.  | 193  |
| 27 | (nocturnal adj2 hypoxemia).mp,kw.  | 375  |
| 28 | (obes\* hypoventil\* adj2 apne\*?).mp,kw.  | 30  |
| 29 | (obes\* hypoventil\* adj2 apnoe\*?).mp,kw.  | 10  |
| 30 | (obstruct\* adj2 hypoapnea\*).mp,kw.  | 0  |
| 31 | (obstruct\* adj2 hypo-apnea\*).mp,kw.  | 0  |
| 32 | (obstruct\* adj2 hypoapnoea\*).mp,kw.  | 0  |
| 33 | (obstruct\* adj2 hypo-apnoea\*).mp,kw.  | 0  |
| 34 | (obstruct\* adj2 hypopnea\*).mp,kw.  | 339  |
| 35 | (obstruct\* adj2 hypopnoea\*).mp,kw.  | 63  |
| 36 | (pickwick\* adj1 syndrom\*).mp,kw.  | 333  |
| 37 | (sleep adj2 respirat\* adj1 disorder\*).mp,kw.  | 253  |
| 38 | (sleep disorder\* adj1 breathing).mp,kw.  | 5043  |
| 39 | (sleep disorder\* adj1 respirat\*).mp,kw.  | 110  |
| 40 | (sleep\* adj2 hypopn?ea\*).mp,kw.  | 2010  |
| 41 | apnea-hypopnea\*.mp,kw.  | 6521  |
| 42 | apneic\*.mp,kw.  | 2347  |
| 43 | apnoea-hypopnoea\*.mp,kw.  | 1177  |
| 44 | apnoeic\*.mp,kw.  | 703  |
| 45 | hypopneic\*.mp,kw.  | 71  |
| 46 | hypopnoeic\*.mp,kw.  | 13  |
| 47 | obes\* hypoventil\* syndrome?.mp,kw.  | 930  |
| 48 | osa.tw,kw.  | 9063  |
| 49 | osahs.tw,kw.  | 1107  |
| 50 | osas.tw,kw.  | 3377  |
| 51 | sleep apne\*.mp,kw.  | 34262  |
| 52 | sleep apnoe\*.mp,kw.  | 4791  |
| 53 | Polysomnography/  | 18553  |
| 54 | (monitor\* adj2 sleep\*).mp.  | 1260  |
| 55 | polysomnogra\*.mp.  | 22822  |
| 56 | (PSG and sleep\*).mp.  | 2940  |
| 57 | somnogra\*.mp.  | 68  |
| 58 | Berlin questionnaire?.mp.  | 322  |
| 59 | STOP questionnaire?.mp.  | 30  |
| 60 | STOP-BANG.mp.  | 154  |
| 61 | STOPBANG.mp.  | 2  |
| 62 | "watch pat 100".mp.  | 3  |
| 63 | embletta??.mp.  | 41  |
| 64 | or/1-63 [ ~~ OSA or Sleep Disturbances or Sleep Quality ~~ ]  | 148639  |
| 65 | Cognitive Dysfunction/ [ new MeSH as of 2017 ]  | 8536  |
| 66 | Cognition Disorders/  | 61000  |
| 67 | exp "Mental Status and Dementia Tests"/ [ new MeSH as of 2018 ]  | 6402  |
| 68 | (cognitive\* adj2 declin\*3).mp.  | 15371  |
| 69 | (cognitive\* adj2 dysfunct\*).mp.  | 18610  |
| 70 | (cognitive\* adj2 disfunct\*).mp.  | 14  |
| 71 | (cognitive\* adj2 impair\*).mp.  | 48054  |
| 72 | (declin\*3 adj2 cognition\*).mp.  | 380  |
| 73 | (declin\* adj2 intellectual\* adj2 function\*).mp.  | 35  |
| 74 | (declin\* adj2 mental\* adj2 function\*).mp.  | 37  |
| 75 | (diminish\* adj2 cogniti\* adj2 function\*).mp.  | 79  |
| 76 | (diminish\* adj2 intellect\* adj2 function\*).mp.  | 7  |
| 77 | (diminish\* adj2 mental\* adj2 function\*).mp.  | 3  |
| 78 | (impair\* adj2 cogniti\* adj2 function\*).mp.  | 3002  |
| 79 | (impair\* adj2 intellect\* adj2 function\*).mp.  | 103  |
| 80 | (impair\* adj2 mental\* adj2 function\*).mp.  | 163  |
| 81 | (cogniti\* adj2 deteriorat\*).mp.  | 2072  |
| 82 | (intellect\* adj2 deteriorat\*).mp.  | 453  |
| 83 | (mental\* adj2 deteriorat\*).mp.  | 1374  |
| 84 | (mild\* adj2 cogniti\* impair\*).mp.  | 10777  |
| 85 | (mild\* adj2 intellect\* impair\*).mp.  | 56  |
| 86 | (mild\* adj2 mental\* adj2 impair\*).mp.  | 42  |
| 87 | (mild\* adj2 neurocogn\* adj2 impair\*).mp.  | 38  |
| 88 | (mild\* adj2 neurocogn\* adj2 disorder\*).mp.  | 79  |
| 89 | (amnestic adj4 impair\*).mp.  | 1443  |
| 90 | aMCI.ti,ab,kw. [ Amnestic Mild Cognitive Impairment ]  | 918  |
| 91 | MCI.ti,ab,kw. and cognit\*.mp. [ Mild Cognitive Impairment ]  | 6339  |
| 92 | CIND.ti,ab,kw. [ cognitive impairment no dementia ]  | 236  |
| 93 | (nonamnestic adj4 impair\*).mp.  | 47  |
| 94 | exp Neuropsychological Tests/  | 162639  |
| 95 | Alzheimer Disease Assessment Scale-Cognitive-Plus.mp.  | 1  |
| 96 | ADAS-Cog Plus.mp.  | 2  |
| 97 | ADAS-Cog.mp.  | 781  |
| 98 | cognistat.mp.  | 65  |
| 99 | dementia rating?.mp.  | 2306  |
| 100 | cognitive assessment screening instrument?.mp.  | 7  |
| 101 | gpcog.ti,ab,kw.  | 14  |
| 102 | general practitioner?? assessment? of cognition.mp.  | 15  |
| 103 | mmse.ti,ab,kw. [ mini mental state examination ]  | 7775  |
| 104 | mini mental state examination?.mp.  | 9740  |
| 105 | minimental state examination?.mp.  | 77  |
| 106 | mental status test?.mp.  | 94  |
| 107 | "mental status and dementia test?".mp.  | 314  |
| 108 | microcog.ti,ab,kw.  | 26  |
| 109 | Assessment of Cognitive Functioning.mp.  | 111  |
| 110 | mini mental status examination?.mp.  | 725  |
| 111 | minimental status examination?.mp.  | 6  |
| 112 | mini-cog.ti,ab,kw.  | 98  |
| 113 | minicog.ti,ab,kw.  | 5  |
| 114 | Montreal cognitive assessment?.mp.  | 1101  |
| 115 | cognitive status examination?.mp.  | 86  |
| 116 | neurocognitive test\*3.mp.  | 1178  |
| 117 | Subjective Cognitive Decline Questionnaire?.mp.  | 4  |
| 118 | updrs panel?.ti,ab,kw.  | 0  |
| 119 | updrs scale?.ti,ab,kw.  | 34  |
| 120 | updrs scor???.ti,ab,kw.  | 498  |
| 121 | unified parkinson\* disease rating?.mp.  | 2847  |
| 122 | UPDRS I.ti,ab,kw.  | 50  |
| 123 | UPDRS II.ti,ab,kw.  | 136  |
| 124 | dementia/ or aids dementia complex/ or alzheimer disease/ or dementia, vascular/ or cadasil/ or dementia, multi-infarct/ or diffuse neurofibrillary tangles with calcification/ or frontotemporal lobar degeneration/ or frontotemporal dementia/ or "pick disease of the brain"/ or primary progressive nonfluent aphasia/ or huntington disease/ or lewy body disease/  | 140451  |
| 125 | dementia rating?.mp.  | 2306  |
| 126 | lewy body.mp.  | 4706  |
| 127 | (dementia or dementias or demented).mp.  | 98102  |
| 128 | (pick? adj2 disease?).mp.  | 3894  |
| 129 | Alzheimer\*.mp.  | 120500  |
| 130 | (pick? adj2 syndrome?).mp.  | 57  |
| 131 | parkinson\*.mp.  | 99525  |
| 132 | or/65-131 [ Mild Cognitive Impairment & related terms ]  | 458956  |
| 133 | 64 and 132 [ OSA + MCI ]  | 11649  |
| 134 | incidence/  | 229870  |
| 135 | incidence studies/  | 223754  |
| 136 | incidence.mp.  | 679904  |
| 137 | prevalence/  | 252216  |
| 138 | prevalence studies/  | 265908  |
| 139 | prevalence.mp.  | 540042  |
| 140 | exp risk/  | 1062931  |
| 141 | (risk or risks or risked or risking).mp.  | 2005642  |
| 142 | odds ratio/  | 81248  |
| 143 | (odds adj ratio\*).mp.  | 232626  |
| 144 | or/134-143 [ Incidence or Prevalence or Risk or Odds Ratios ]  | 3019947  |
| 145 | 133 and 144 [ OSA + MCI + Prevalence/Incidence/Risk ]  | 3593  |
| 146 | limit 145 to english language  | 3322  |
| 147 | exp animals/ not (exp animals/ and humans/)  | 4456514  |
| 148 | 146 not 147  | 3296  |
| 149 | limit 146 to human  | 3295  |
| 150 | 148 or 149  | 3296  |
| 151 | limit 150 to ("all infant (birth to 23 months)" or "all child (0 to 18 years)" or "newborn infant (birth to 1 month)" or "infant (1 to 23 months)" or "preschool child (2 to 5 years)" or "child (6 to 12 years)" or "adolescent (13 to 18 years)")  | 581  |
| 152 | 150 not 151  | 2715  |
| 153 | limit 150 to ("all adult (19 plus years)" or "young adult (19 to 24 years)" or "adult (19 to 44 years)" or "young adult and adult (19-24 and 19-44)" or "middle age (45 to 64 years)" or "middle aged (45 plus years)" or "all aged (65 and over)" or "aged (80 and over)")  | 2462  |
| 154 | 152 or 153  | 3056  |
| 155 | remove duplicates from 154 [ OSA + MCI + Prevalence/Incidence/Risk + Limits ]  | 3015  |