

Appendix 2.1 – Syntax for each primary database

EMBASE

((((motor OR skill OR performance OR psychomotor OR sensorimotor OR visuomotor OR neuropsychological OR visuospatial OR visual OR cogniti* OR executive function* OR problem solving OR spatial OR verbal OR learning OR percept* OR attention OR 'reaction time' OR 'response time' OR vigilan* OR neurocognitive):ab,ti) OR ('psychomotor performance'/exp OR 'neuropsychological test'/exp OR 'cognition'/exp OR 'reaction time'/exp OR 'motor performance'/exp OR 'motor control'/exp OR 'motor learning'/exp OR 'sensorimotor function'/exp)) AND (('sleep restriction' OR 'partial sleep deprivation' OR 'sleep manipulation' OR 'sleep loss' OR 'sleep debt'):ab,ti) OR ('sleep debt'/exp) NOT (('mice' OR 'mouse' OR 'rat*' OR 'rodent*' OR 'monkey*' OR 'cat' OR 'dog' OR 'drosophila' OR 'cognitive behavioural therapy' OR 'CBT' OR 'depression' OR 'syndrome' OR 'disorder*' OR 'cognitive impairment' OR 'cognitive decline' OR 'insomnia*' OR 'narcolep*' OR 'bruxism' OR 'alzheimer*' OR 'schizophrenia' OR 'epilep*' OR 'apnea' OR 'apnoea' OR 'obesity' OR 'diabet*' OR 'pregnan*' OR 'review'):ti)

OVID MEDLINE(R) AND EPUB AHEAD OF PRINT, IN-PROCESS & OTHER NON-INDEXED CITATIONS, DAILY AND VERSIONS(R)

((((motor or skill or performance or psychomotor or sensorimotor or visuomotor or neuropsychological or visuospatial or visual or cogniti* or executive function* or problem solving or spatial or verbal or learning or percept* or attention or reaction time or response time or vigilan* or neurocognitive).ab,ti.) OR (exp psychomotor performance/ or exp neuropsychological tests/ or exp mental processes/ or exp reaction

time/ or exp motor activity/)) AND (sleep restriction or partial sleep deprivation or sleep manipulation or sleep loss or sleep debt).ab,ti. NOT (sleep restriction or partial sleep deprivation or sleep manipulation or sleep loss or sleep debt).ab,ti. not (mice or mouse or rat* or rodent* or monkey* or cat or dog or drosophila or cognitive behavioural therapy or CBT or depression or syndrome or disorder* or cognitive impairment or cognitive decline or insomnia* or narcolep* or bruxism or alzheimer* or schizophrenia or epilep* or apnea or apnoea or obesity or diabet* or pregnan* or review).ti.

Web of Science (Core Collection)

((TS=(motor OR skill OR performance OR psychomotor OR sensorimotor OR visuomotor OR neuropsychological OR visuospatial OR visual OR cogniti* OR executive function* OR problem solving OR spatial OR verbal OR learning OR percept* OR attention OR “reaction time” OR “response time” OR vigilan* OR neurocognitive)) AND (TS=(“sleep restriction” OR “partial sleep deprivation” OR “sleep manipulation” OR “sleep loss” OR “sleep debt”))) NOT (TI=(mice OR mouse OR rat* OR rodent* OR monkey* OR cat OR dog OR drosophila OR “cognitive behavioural therapy” OR CBT OR depression OR syndrome OR disorder* OR “cognitive impairment” OR “cognitive decline” OR insomnia* OR narcolep* OR bruxism OR alzheimer* OR schizophrenia OR epilep* OR apnea OR apnoea OR obesity OR diabet* OR pregnan* OR review))

Google Scholar

(performance | motor | skill | psychomotor | neuropsychological | visual |
cognitive | executive function | spatial | verbal | learning | perception | attention | reaction
time | vigilance) (sleep restriction | partial sleep deprivation | sleep loss)

APA PSYCinfo (EBSCO host)

((((TI (motor) OR AB (motor) OR TI (skill) OR AB (skill) OR TI (performance)
OR AB (performance) OR TI (psychomotor) OR AB (psychomotor) OR TI
(sensorimotor) OR AB (sensorimotor) OR TI (visuomotor) OR AB (visuomotor) OR TI
(neuropsychological) OR AB (neuropsychological) OR TI (visuospatial) OR AB
(visuospatial) OR TI (visual) OR AB (visual) OR TI (cogniti*) OR AB (cogniti*) OR
TI (executive function*) OR AB (executive function*) OR TI (problem solving) OR
AB (problem solving) OR TI (spatial) OR AB (spatial) OR TI (verbal) OR AB (verbal)
OR TI (learning) OR AB (learning) OR TI (percept*) OR AB (percept*) OR TI
(attention) OR AB (attention) OR TI (“reaction time”) OR AB (“reaction time”) OR TI
(“response time”) OR AB (“response time”) OR TI (vigilan*) OR AB (vigilan*) OR TI
(neurocognitive) OR AB (neurocognitive)) OR (MA “psychomotor performance” OR
MA “neuropsychological tests” OR MA “mental processes” OR MA “reaction time”
OR MA “motor activity”)) AND ((TI (“sleep restriction”) OR AB (“sleep restriction”)
OR TI (“partial sleep deprivation”) OR AB (“partial sleep deprivation”) OR TI (“sleep
manipulation”) OR AB (“sleep manipulation”) OR TI (“sleep loss”) OR AB (“sleep
loss”) OR TI (“sleep debt”) OR AB (“sleep debt”)) NOT (TI (mice) OR TI (mouse) OR
TI (rat*) OR TI (rodent*) OR TI (monkey*) OR TI (cat) OR TI (dog) OR TI
(drosophila) OR TI (“cognitive behavioural therapy”) OR TI (CBT) OR TI (depression)
OR TI (syndrome) OR TI (disorder*) OR TI (“cognitive impairment”) OR TI
(“cognitive decline”) OR TI (insomnia*) OR TI (narcolept*) OR TI (bruxism) OR TI

(alzheimer*) OR TI (schizophrenia) OR TI (epilep*) OR TI (apnea) OR TI (apnoea) OR
TI (obesity) OR TI (diabet*) OR TI (pregnan*) OR TI (review))

SPORTDiscus with full text (EBSCO host)

((((TI (motor) OR AB (motor) OR TI (skill) OR AB (skill) OR TI (performance)
OR AB (performance) OR TI (psychomotor) OR AB (psychomotor) OR TI
(sensorimotor) OR AB (sensorimotor) OR TI (visuomotor) OR AB (visuomotor) OR TI
(neuropsychological) OR AB (neuropsychological) OR TI (visuospatial) OR AB
(visuospatial) OR TI (visual) OR AB (visual) OR TI (cogniti*) OR AB (cogniti*) OR
TI (executive function*) OR AB (executive function*) OR TI (problem solving) OR
AB (problem solving) OR TI (spatial) OR AB (spatial) OR TI (verbal) OR AB (verbal)
OR TI (learning) OR AB (learning) OR TI (percept*) OR AB (percept*) OR TI
(attention) OR AB (attention) OR TI (“reaction time”) OR AB (“reaction time”) OR TI
(“response time”) OR AB (“response time”) OR TI (vigilan*) OR AB (vigilan*) OR TI
(neurocognitive) OR AB (neurocognitive)) OR (MA “psychomotor performance” OR
MA “neuropsychological tests” OR MA “mental processes” OR MA “reaction time”
OR MA “motor activity”)) AND ((TI (“sleep restriction”) OR AB (“sleep restriction”)
OR TI (“partial sleep deprivation”) OR AB (“partial sleep deprivation”) OR TI (“sleep
manipulation”) OR AB (“sleep manipulation”) OR TI (“sleep loss”) OR AB (“sleep
loss”) OR TI (“sleep debt”) OR AB (“sleep debt”)) NOT (TI (mice) OR TI (mouse) OR
TI (rat*) OR TI (rodent*) OR TI (monkey*) OR TI (cat) OR TI (dog) OR TI
(drosophila) OR TI (“cognitive behavioural therapy”) OR TI (CBT) OR TI (depression)
OR TI (syndrome) OR TI (disorder*) OR TI (“cognitive impairment”) OR TI
(“cognitive decline”) OR TI (insomnia*) OR TI (narcolept*) OR TI (bruxism) OR TI

(alzheimer*) OR TI (schizophrenia) OR TI (epilep*) OR TI (apnea) OR TI (apnoea) OR
TI (obesity) OR TI (diabet*) OR TI (pregnan*) OR TI (review)

