**Supplemental Table 1.** Search Strategy

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| **No** | **Database** | **Key Word Terms** |
| 1 | PubMed (Medline) | ("Confusion"25 OR delirium[tiab] OR delirious[tiab] OR confusion\*[tiab] OR metabolic encephalopathy[tiab] OR toxic encephalopathy[tiab] OR acute brain dysfunction[tiab] OR acute organic psychosyndrome\*[tiab] OR acute psychoorganic[tiab] OR acute psycho organic[tiab] OR clouded[tiab] OR clouding[tiab] OR exogenous psycho\*[tiab] OR toxic psycho\*[tiab]) AND ("Sleep"25 OR "Sleep Wake Disorders"25 OR sleep\*[tiab] OR restless leg\*[tiab] OR dyssomn\* OR parasomn\*[tiab] OR narcolep\* OR somnolen\*[tiab] OR hypersomn\*[tiab] OR insomnolen\*[tiab] OR hyposomn\*[tiab] OR myoclonus syndrome[tiab] OR hypnogenic paroxysmal[tiab] OR somnamb\*[tiab]) AND ("Anesthesia"25 OR "Anesthetics"25 OR "Anesthetics"[Pharmacological Action] OR "Surgical Procedures, Operative"25 OR "Postoperative Care"25 OR "Postoperative Complications"[Mesh:noexp] OR "surgery"[subheading] OR surgical[tiab] OR surgery[tiab] OR postsurg\*[tiab] OR operative[tiab] OR postoperative[tiab] OR anesthes\*[tiab] OR anaesthes\*[tiab] OR anesthet\*[tiab] OR anaesthet\*[tiab]) |
| 2 | Embase (Elsevier) | ('delirium'/exp OR 'confusion'/exp OR delirium:ab,ti OR delirious:ab,ti OR confusion\*:ab,ti OR ((metabolic OR toxic) NEXT/1 encephalopath\*):ab,ti OR 'acute brain dysfunction':ab,ti OR 'acute organic psychosyndrome':ab,ti OR 'acute psychoorganic':ab,ti OR 'acute psycho organic':ab,ti OR (clouded NEXT/1 state\*):ab,ti OR clouding:ab,ti OR ((exogenous OR toxic) NEXT/1 psycho\*):ab,ti)  AND('sleep'/de OR 'sleep quality'/de OR 'sleep time'/de OR ('sleep disorder'/exp NOT 'drowsiness'/de) OR sleep\*:ab,ti OR 'restless leg':ab,ti OR 'restless legs':ab,ti OR dyssomn\*:ab,ti OR parasomn\*:ab,ti OR narcolep\*:ab,ti OR somnolen\*:ab,ti OR hypersomn\*:ab,ti OR insomnolen\*:ab,ti OR hyposomn\*:ab,ti OR 'myoclonus syndrome':ab,ti OR 'hypnogenic paroxysmal':ab,ti OR somnamb\*:ab,ti)AND('postoperative complication'/de OR 'postoperative care'/exp OR surgical:ab,ti OR surgery:ab,ti OR postsurg\*:ab,ti OR operative:ab,ti OR postoperative:ab,ti OR anesthes\*:ab,ti OR anaesthes\*:ab,ti OR anesthet\*:ab,ti OR anaesthet\*:ab,ti) |
| 3 | CINAHL (EBSCO) | (MH ("Confusion+") OR TI(delirium OR delirious OR confusion\* OR "metabolic encephalopath\*" OR "toxic encephalopathy" OR "acute brain dysfunction" OR "acute organic psychosyndrome\*" OR "acute psychoorganic" OR "acute psycho organic" OR clouded OR clouding OR "exogenous psycho\*" OR "toxic psycho\*") OR AB(delirium OR delirious OR confusion\* OR "metabolic encephalopath\*" OR "toxic encephalopathy" OR "acute brain dysfunction" OR "acute organic psychosyndrome\*" OR "acute psychoorganic" OR "acute psycho organic" OR clouded OR clouding OR "exogenous psycho\*" OR "toxic psycho\*"))AND (MH ("Sleep" OR "Sleep Disorders+") OR TI(sleep\* OR "restless leg\*" OR dyssomn\* OR parasomn\* OR narcolep\* OR somnolen\* OR hypersomn\* OR insomnolen\* OR hyposomn\* OR myoclonus syndrome OR hypnogenic paroxysmal OR somnamb\*) OR AB(sleep\* OR "restless leg\*" OR dyssomn\* OR parasomn\* OR narcolep\* OR somnolen\* OR hypersomn\* OR insomnolen\* OR hyposomn\* OR myoclonus syndrome OR hypnogenic paroxysmal OR somnamb\*))AND(MH ("Surgery, Operative+" OR Postoperative Care+" OR "Postoperative Complications" OR "Anesthesia+" OR "Anesthetics") OR TI(surgical OR surgery OR postsurg\* OR operative OR postoperative OR anesthes\* OR anaesthes\* OR anesthet\* OR anaesthet\*) OR AB(surgical OR surgery OR postsurg\* OR operative OR postoperative OR anesthes\* OR anaesthes\* OR anesthet\* OR anaesthet\*)) |
| 4 | Cochrane Central Register of Controlled Trials (EBSCO) | (delirium OR delirious OR confusion\* OR "metabolic encephalopath\*" OR "toxic encephalopathy" OR "acute brain dysfunction" OR "acute organic psychosyndrome\*" OR "acute psychoorganic" OR "acute psycho organic" OR clouded OR clouding OR "exogenous psycho\*" OR "toxic psycho\*")AND(sleep\* OR "restless leg\*" OR dyssomn\* OR parasomn\* OR narcolep\* OR somnolen\* OR hypersomn\* OR insomnolen\* OR hyposomn\* OR myoclonus syndrome OR hypnogenic paroxysmal OR somnamb\*)AND(surgical OR surgery OR postsurg\* OR operative OR postoperative OR anesthes\* OR anaesthes\* OR anesthet\* OR anaesthet\*) |
| 5 | Web of Science (Clarivate Analytics) | TS=("delirium" OR "delirious" OR "confusion\*" OR "metabolic encephalopath\*" OR "toxic encephalopathy" OR "acute brain dysfunction" OR "acute organic psychosyndrome\*" OR "acute psychoorganic" OR "acute psycho organic" OR "clouded" OR "clouding" OR "exogenous psycho\*" OR "toxic psycho\*")ANDTS=("sleep\*" OR "restless leg\*" OR "dyssomn\*" OR "parasomn\*" OR "narcolep\*" OR "somnolen\*" OR "hypersomn\*" OR "insomnolen\*" OR "hyposomn\*" OR "myoclonus syndrome" OR "hypnogenic paroxysmal" OR "somnamb\*")ANDTS=("surgical" OR "surgery" OR "postsurg\*" OR "operative" OR "postoperative" OR "anesthes\*" OR "anaesthes\*" OR "anesthet\*" OR "anaesthet\*") |