Supplemental data

Supplement 1: Search strategy

Pubmed

Search string

("Anesthesia"[Mesh] OR anesthesia\*[tiab] OR anaesthesia\*[tiab] OR

"Anesthetics"[Mesh] OR anesthetic\*[tiab] OR anaesthetic\*[tiab] OR

"Adjuvants, Anesthesia"[Mesh] OR

"Hypnotics and Sedatives"[Mesh] OR hypnotic\*[tiab] OR sedative\*[tiab] OR

"Isoflurane"[Mesh] OR isoflurane[tiab] OR

"Sevoflurane"[Mesh] OR sevoflurane[tiab] OR sevorane[tiab] OR “Fluoromethyl-2,2,2-trifluoro-1-(trifluoromethyl)ethyl Ether” [tiab] OR

"Propofol"[Mesh] OR propofol[tiab] OR “2,6-Diisopropylphenol”[tiab] OR “2,6-Bis(1-methylethyl)phenol” [tiab] OR Disoprofol[tiab] OR Diprivan[tiab] OR Disoprivan[tiab] OR Fresofol[tiab] OR

"Etomidate"[Mesh] OR etomidate[tiab] OR ethomidate[tiab] OR hypnomidate[tiab] OR

"Ketamine"[Mesh] OR ketamine[tiab] OR “2-(2-Chlorophenyl)-2-(methylamino)cyclohexanone”[tiab] OR ketalar[tiab] OR ketanest[tiab] OR

"Analgesics, Opioid"[Mesh] OR opioid\*[tiab] OR "Fentanyl"[Mesh] OR fentanyl[tiab] OR "Sufentanil"[Mesh] OR sufenta\*[tiab])

AND

("Pregnancy"[Mesh] OR pregnan\*[tiab] OR “child bearing”[tiab] OR gestation\*[tiab] OR gravidit\*[tiab] OR parity[tiab] OR

"Pregnant Women"[Mesh] OR litter[tiab] OR

“in utero”[tiab] OR

prenatal[tiab] OR antenatal[tiab] OR

"Maternal Exposure"[Mesh] OR maternal[tiab])

AND

("specialties, surgical"[MeSH Terms] OR “Surgical Specialties”[tiab] OR surgery[tiab] OR surgeries[tiab] OR surgical[tiab] OR procedure[tiab] OR

"Colorectal Surgery"[Mesh] OR proctology[tiab] OR

"General Surgery"[Mesh] OR

"Neurosurgery"[Mesh] OR neurosurgery[tiab] OR

"Ophthalmology"[Mesh] OR ophthalmology[tiab] OR “eye diseases”[tiab] OR

"Orthognathic Surgery"[Mesh] OR

"Orthopedics"[Mesh] OR orthopedics[tiab] OR orthopedic[tiab] OR

"Otolaryngology"[Mesh] OR otolaryngology[tiab] OR otology[tiab] OR laryngology[tiab] OR

"Surgery, Plastic"[Mesh] OR

"Surgical Oncology"[Mesh] OR

"Thoracic Surgery"[Mesh] OR

"Traumatology"[Mesh] OR traumatology[tiab] OR

"Urology"[Mesh] OR urology[tiab] OR urologic[tiab] OR

"non obstetric surgery"[tiab] OR "non-obstetric surgery"[tiab] OR "nonobstetric surgery"[tiab])

Filters

-Article types: classical article, clinical study, clinical trial, comparative study, consensus development, controlled clinical trial, guideline, journal article, lecture, observational study, practice guideline, pragmatic clinical trial, review, systematic review, twin study

-Language: English

-Full text available

-Time period: from the 1st of January 2001 until the 18th of May 2021

Embase

Search string

(‘Anesthesia’/de OR anesthesia\*:ti,ab,kw OR anaesthesia\*:ti,ab,kw OR

‘anesthetic agent’/exp OR anesthetic\*:ti,ab,kw OR anaesthetic\*:ti,ab,kw OR

isoflurane:ti,ab,kw OR

sevoflurane:ti,ab,kw OR sevorane:ti,ab,kw OR ‘Fluoromethyl-2,2,2-trifluoro-1-(trifluoromethyl)ethyl Ether’:ti,ab,kw OR

propofol:ti,ab,kw OR ‘2,6-Diisopropylphenol’:ti,ab,kw OR ‘2,6-Bis(1-methylethyl)phenol’:ti,ab,kw OR Disoprofol:ti,ab,kw OR Diprivan:ti,ab,kw OR Disoprivan:ti,ab,kw OR Fresofol:ti,ab,kw OR propovet:ti,ab,kw OR

etomidate:ti,ab,kw OR ethomidate:ti,ab,kw OR hypnomidate:ti,ab,kw OR

ketamine:ti,ab,kw OR ‘2-(2-Chlorophenyl)-2-(methylamino)cyclohexanone’:ti,ab,kw OR ketalar:ti,ab,kw OR ketanest:ti,ab,kw OR

‘opiate’/exp OR opioid\*:ti,ab,kw OR ‘Fentanyl’/exp OR fentanyl:ti,ab,kw OR ‘Sufentanil’/exp OR sufenta\*:ti,ab,kw)

AND

(‘pregnancy’/exp OR pregnan\*:ti,ab,kw OR ‘child bearing’:ti,ab,kw OR gestation\*:ti,ab,kw OR gravidit\*:ti,ab,kw OR parity:ti,ab,kw OR

‘Pregnant Women’:ti,ab,kw OR litter:ti,ab,kw OR

‘in utero’:ti,ab,kw OR

prenatal:ti,ab,kw OR antenatal:ti,ab,kw OR

‘Maternal Exposure’/exp OR maternal:ti,ab,kw)

AND

(‘surgery’/exp OR ‘Surgical Specialties’:ti,ab,kw OR surgery:ti,ab,kw OR surgeries:ti,ab,kw OR surgical:ti,ab,kw OR procedure:ti,ab,kw OR

proctology:ti,ab,kw OR

neurosurgery:ti,ab,kw OR

ophthalmology:ti,ab,kw OR ‘eye diseases’:ti,ab,kw OR

orthopedics:ti,ab,kw OR orthopedic:ti,ab,kw OR

otolaryngolocy:ti,ab,kw OR otology:ti,ab,kw OR laryngology:ti,ab,kw OR

traumatology:ti,ab,kw OR

urology:ti,ab,kw OR urologic:ti,ab,kw OR

‘non obstetric surgery’:ti,ab,kw OR ‘non-obstetric surgery’:ti,ab,kw OR ‘nonobstetric surgery’:ti,ab,kw)

AND [english]/lim

AND [2001-2021]/py

AND ('article'/it OR 'article in press'/it OR 'conference review'/it OR 'review'/it) AND ('animal experiment'/de OR 'animal model'/de OR 'case control study'/de OR 'case study'/de OR 'clinical article'/de OR 'clinical protocol'/de OR 'clinical study'/de OR 'clinical trial'/de OR 'cohort analysis'/de OR 'comparative effectiveness'/de OR 'comparative study'/de OR 'controlled clinical trial'/de OR 'controlled study'/de OR 'cross sectional study'/de OR 'double blind procedure'/de OR 'drug comparison'/de OR 'evidence based medicine'/de OR 'evidence based practice'/de OR 'human'/de OR 'human experiment'/de OR 'major clinical study'/de OR 'medical record review'/de OR 'meta analysis'/de OR 'meta analysis topic'/de OR 'multicenter study'/de OR 'nonhuman'/de OR 'normal human'/de OR 'observational study'/de OR 'outcomes research'/de OR 'pilot study'/de OR 'practice guideline'/de OR 'prospective study'/de OR 'questionnaire'/de OR 'randomized controlled trial'/de OR 'randomized controlled trial topic'/de OR 'retrospective study'/de OR 'single blind procedure'/de OR 'systematic review'/de OR 'theoretical study'/de)

Filters

-Publication types: article, review, article in press, conference review

-Study types: All study types with the exception of case reports, human tissue, animal tissue, methodology, intermethod comparison, human cell, feasibility study, drug dose comparison, animal cell, in vitro study, clinical audit

-Language: English

-Time period: from the 1st of January 2001 until the 18th of May 2021