**APPENDIX**

*Search strategies for seven electronic databases searched*

**Database: Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R) <1946 to Present> Search Strategy**

1 Ketamine/ or (ketamine or ketalar or ketamin).af.

2 emergency service, hospital/ or trauma centers/

3 Emergency Medicine/ or Emergency Medical Services/ or Emergency Treatment/ or Emergencies/

4 (emergency or emergencies).tw,jw.

5 ed.ti.

6 Lacerations/ or laceration$.tw.

7 exp Fractures, Bone/ or fracture$.tw.

8 exp Dislocations/ or (dislocation$ or dislocated).tw.

9 Drainage/

10 (abscess$ adj2 drain$).tw.

11 Electric Countershock/ or cardioversion$.tw.

12 Outpatient Clinics, Hospital/ or Ambulatory Surgical Procedures/

13 ((day or ambulatory) adj2 surg$).tw.

14 outpatient$.tw.

15 Pain Management/ or Pain Clinics/ or Pain/

16 (pain$ adj2 procedur$).tw.

17 analgesia/

18 conscious sedation/ or procedural sedation.tw.

19 (conscious sedation or procedural sedation or "sedation and analgesia").tw.

20 or/2-19

21 1 and 20

22 animals/ not humans/

23 21 not 22

24 randomized controlled trial.pt.

25 controlled clinical trial.pt.

26 randomized.ab.

27 placebo.ab.

28 clinical trials as topic.sh.

29 randomly.ab.

30 trial.ti.

31 exp case control studies/

32 ((case\* adj5 control\*) or (case adj3 comparison\*)).tw.

33 exp cohort studies/ or (cohort adj (study or studies)).tw.

34 Cross-sectional studies/

35 (longitudinal or retrospectiv$e or prospective$ or cross-sectional).tw.

36 or/24-35

37 23 and 36

**Database: Embase Classic+Embase <1947 to 2015 February 27> Search Strategy**

1 \*ketamine/

2 (ketamine or ketalar or ketamin).tw.

3 1 or 2

4 emergency ward/ or emergency treatment/ or emergency medicine/ or emergency/

5 (emergency or emergencies).tw.

6 ed.ti.

7 laceration/ or laceration$.tw.

8 exp dislocation/

9 (dislocation$ or dislocated).tw.

10 exp fracture/

11 fracture$.tw.

12 abscess drainage/

13 (abscess$ adj2 drain$).tw.

14 cardioversion/ or cardioversion$.tw.

15 (pain$ adj2 procedur$).tw.

16 conscious sedation/

17 (conscious sedation or procedural sedation or "sedation and analgesia").tw.

18 outpatient care/ or outpatient/ or outpatient department/

19 outpatient$.tw.

20 \*ambulatory surgery/

21 ((day or ambulatory) adj2 surg$).tw.

22 \*analgesia/

23 or/4-22

24 3 and 23

25 animal/ not human/

26 24 not 25

27 Clinical trial/

28 Randomized controlled trial/

29 Randomization/

30 Single blind procedure/ or Double blind procedure/ or Crossover procedure/

31 Placebo/

32 Randomi?ed controlled trial$.tw.

33 Rct.tw.

34 (allocat$ adj2 random$).tw.

35 Single blind$.tw.

36 Double blind$.tw.

37 ((treble or triple) adj blind$).tw.

38 Placebo$.tw.

39 cohort analysis/

40 (cohort adj (study or studies)).tw.

41 cohort analys$.tw.

42 prospective study/ or longitudinal study/ or retrospective study/

43 (longitudinal or retrospective$ or prospective$).tw.

44 case control study/

45 case control$.tw.

46 cross-sectional study/

47 cross sectional.tw.

48 or/27-47

49 26 and 48

**Database: AMED (Allied and Complementary Medicine) <1985 to February 2015> Search Strategy**

1 (ketamine or ketalar or ketamin).tw.

2 (trial$ or blind$ or placebo or random$ or cohort or prospective$ or retrospective$ or longitudinal or case-control or cross sectional).af.

3 1 and 2

**CINAHL Search Strategy**

|  |  |
| --- | --- |
| **#** | **Query** |
| S29 | S27 AND S28 |
| S28 | ( (MH "Random Assignment") or (MH "Random Sample+") or (MH "Crossover Design") or (MH "Clinical Trials+") or (MH "Comparative Studies") or (MH "Control (Research)+") or (MH "Control Group") or (MH "Factorial Design") or (MH "Quasi-Experimental Studies+") or (MH "Placebos") or (MH "Meta Analysis") or (MH "Sample Size") or (MH "Research, Nursing") or (MH "Research Question") or (MH "Research Methodology+") or (MH "Evaluation Research+") or (MH "Concurrent Prospective Studies") or (MH "Prospective Studies") or (MH "Nursing Practice, Research-Based") or (MH "Solomon Four-Group Design") or (MH "One-Shot Case Study") or (MH "Pretest-Posttest Design+") or (MH "Static Group Comparison") or (MH "Study Design") or (MH "Clinical Research+") ) or ( clinical nursing research or random\* or cross?over or placebo\* or control\* or factorial or sham\* or meta?analy\* or systematic review\* or blind\* or mask\* or trial\* ) |
| S27 | S3 AND S26 |
| S26 | S4 OR S5 OR S6 OR S7 OR S8 OR S9 OR S10 OR S11 OR S12 OR S13 OR S14 OR S15 OR S16 OR S17 OR S18 OR S19 OR S20 OR S21 OR S22 OR S23 OR S24 OR S25 |
| S25 | TI (procedural sedation or conscious sedation) OR AB (procedural sedation or conscious sedation) |
| S24 | (MH "Conscious Sedation") |
| S23 | (MH "Analgesia") |
| S22 | TI painful procedure\* OR AB painful procedure\* |
| S21 | (MH "Pain Clinics") OR (MH "Pain") |
| S20 | TI outpatient\* OR AB outpatient\* |
| S19 | TI ( ((day or ambulatory) N3 surg\*) ) OR AB ( ((day or ambulatory) N3 surg\*) ) |
| S18 | (MH "Ambulatory Surgery") |
| S17 | (MH "Outpatient Service") |
| S16 | TI cardioversion\* OR AB cardioversion\* |
| S15 | (MH "Cardioversion") |
| S14 | TI (abscess\* N3 drain\*) OR AB (abscess\* N3 drain\*) |
| S13 | (MH "Drainage+") |
| S12 | TI ( (dislocation\* or dislocated) ) OR AB ( (dislocation\* or dislocated) ) |
| S11 | (MH "Dislocations+") |
| S10 | TI fracture\* OR AB fracture\* |
| S9 | (MH "Fractures+") |
| S8 | TI laceration\* OR AB laceration\* |
| S7 | (MH "Tears and Lacerations") |
| S6 | TI ed |
| S5 | TI ( (emergency or emergencies) ) OR SO ( (emergency or emergencies) ) |
| S4 | (MH "Emergency Service+") OR (MH "Emergency Medicine") OR (MH "Emergency Patients") OR (MH "Emergency Care") OR (MH "Trauma Centers") |
| S3 | S1 OR S2 |
| S2 | (ketamine or ketalar or ketamin) |
| S1 | (MH "Ketamine") |

**Cochrane Search Strategy**

#1 MeSH descriptor: [Ketamine] explode all trees

#2 (ketamine or ketalar or ketamin):ti,ab,kw (Word variations have been searched)

#3 #1 or #2

#4 MeSH descriptor: [Emergency Medicine] explode all trees

#5 MeSH descriptor: [Emergency Medical Services] explode all trees

#6 MeSH descriptor: [Emergency Treatment] explode all trees

#7 MeSH descriptor: [Emergencies] this term only

#8 (emergency or emergencies):ti,ab

#9 ed:ti

#10 MeSH descriptor: [Lacerations] this term only

#11 MeSH descriptor: [Fractures, Bone] explode all trees

#12 MeSH descriptor: [Dislocations] explode all trees

#13 MeSH descriptor: [Drainage] this term only

#14 (laceration\* or fracture\* or dislocation\* or dislocated or drainage):ti,ab,kw

#15 MeSH descriptor: [Electric Countershock] this term only

#16 cardioversion\*:ti,ab,kw

#17 MeSH descriptor: [Outpatient Clinics, Hospital] explode all trees

#18 MeSH descriptor: [Ambulatory Surgical Procedures] this term only

#19 outpatient\*:ti,ab,kw (Word variations have been searched)

#20 (day next/2 surg\*):ti,ab,kw (Word variations have been searched)

#21 (ambulatory next/2 surg\*):ti,ab,kw (Word variations have been searched)

#22 MeSH descriptor: [Pain Management] this term only

#23 MeSH descriptor: [Pain Clinics] this term only

#24 MeSH descriptor: [Pain] this term only

#25 (pain\* near/2 procedur\*):ti,ab,kw (Word variations have been searched)

#26 MeSH descriptor: [Analgesia] this term only

#27 MeSH descriptor: [Conscious Sedation] this term only

#28 procedural sedation:ti,ab,kw (Word variations have been searched)

#29 conscious sedation:ti,ab,kw

#30 "sedation and analgesia":ti,ab,kw

#31 #4 or #5 or #6 or #7 or #8 or #9 or #10 or #11 or #12 or #13 or #14 or #15 or #16 or #17 or #18 or #19 or #20 or #21 or #22 or #23 or #24 or #25 or #26 or #27 or #28 or #29 or #30

#32 #3 and #31

**Cochrane Database of Systematic Reviews : Issue 3 of 12, March 2015 = 11**

**Database of Abstracts of Reviews of Effect : Issue 1 of 4, January 2015 = 13**

**Cochrane Central Register of Controlled Trials : Issue 2 of 12, February 2015 = 421**

**Pumbed (just searching for information not in Ovid Medline):**

((((((((ketamine[Title/Abstract]) OR ketalar[Title/Abstract]) OR ketamin[Title/Abstract])) AND ((((((((emergency[Title/Abstract]) OR "emergency"[Journal]) OR emergencies) OR "emergencies"[Journal])) OR (((((laceration\*[Title/Abstract]) OR fracture\*[Title/Abstract]) OR dislocat\*[Title/Abstract]) OR drainage[Title/Abstract]) OR cardioversion\*[Title/Abstract])) OR (((outpatient\*[Title/Abstract]) OR day surger\*[Title/Abstract]) OR ambulatory surg\*[Title/Abstract])) OR (((((procedural sedation[Title/Abstract]) OR conscious sedation[Title/Abstract]) OR pain[Title]) OR painful procedure\*[Title/Abstract]) OR analges\*[Title])))) AND (((pubstatusaheadofprint[All Fields] OR publisher[sb] OR pubmednotmedline[sb]))))) AND ((((randomized controlled trial[pt] OR controlled clinical trial[pt] OR randomized[tiab] OR randomised[tiab] OR randomization[tiab] OR randomisation[tiab] OR placebo[tiab] OR drug therapy[sh] OR randomly[tiab] OR trial[tiab] OR groups[tiab]) NOT (animals[mh] NOT humans[mh]) NOT (Editorial[pt] OR Letter[pt] OR Case Reports[pt] OR Comment[pt]))) OR ("cohort studies"[mesh] OR "case-control studies"[mesh] OR "comparative study"[pt] OR "risk factors"[mesh] OR "cohort"[tw] OR "compared"[tw] OR "groups"[tw] OR "case control"[tw] OR "multivariate"[tw]))