**Supplemental Appendix**

# Search Strategy (Search date: 2/25/2016)

# PubMed

(procedural sedation OR conscious sedation) AND clinical trials AND (double blind OR double-blind)

Filter: English

# Web of Science

(procedural sedation OR conscious sedation) AND clinical trials AND (double blind OR double-blind)

Filter: English

# CINAHL

# procedural sedation OR conscious sedation OR safety OR clinical trials

# Filter: English

Records identified through database searching  
(n = 545)

## Screening

## Included

## Eligibility

## Identification

Additional records identified after cross-checking reference lists  
(n = 2 )

Records screened (n = 547)

Records excluded  
(n = 408)

Full-text articles assessed for eligibility  
(n = 139)

Full-text articles excluded, assessing pre-medication or not procedural sedation   
(n = 6)

Studies included in qualitative synthesis  
(n = 133)

**Supplement Appendix Figure.** Flow chart of studies selected for inclusion in the review.

|  |  |  |
| --- | --- | --- |
| AEs recorded | Adult studies | Pediatric studies |
| None | 0 | 1 |
| Vital signs only | 36 | 25 |
| Defined physiologic variables/ listed or defined AEs and side effects | 48 | 23  (1 combined) |
| Airway/Respiratory events, *e.g.,* apnea, laryngospasm | 48 | 23  (1 combined) |
| Cardiovascular events. *e.g.,* arrhythmias | 34 | 16 |
| Gastrointestinal events, *e.g*., nausea and vomiting | 16 | 12 |
| Neurological events. *e.g.,* headache, vertigo | 14 | 11 |
|  | | |
| Supplement Appendix Table. 133 studies included: 84 Adult, 48 pediatric. One study included both adults and pediatric patients. AE – Adverse Events. | | |
|  | | |

**Adult Procedural Sedation Clinical Trials**

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3. Alhashemi. Dexmedetomidine vs midazolam for monitored anaesthesia care during cataract surgery British Journal of Anaesthesia 96 (6): 722–6 (2006)
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**Pediatric Procedural Sedation Clinical Trials**

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