

Non-pharmacological treatments alternative to midazolam to reduce preoperative anxiety in children: a network meta-analysis protocol

Dolores Frias-Navarro, Gloria Garcia-Banda, Joana Fornes-Vives, Marcos Pascual-Soler, Federico Guillen-Salazar

Citation

Dolores Frias-Navarro, Gloria Garcia-Banda, Joana Fornes-Vives, Marcos Pascual-Soler, Federico Guillen-Salazar. Non-pharmacological treatments alternative to midazolam to reduce preoperative anxiety in children: a network meta-analysis protocol. PROSPERO 2017 CRD42017072608 Available from: http://www.crd.york.ac.uk/PROSPERO/display_record.php?ID=CRD42017072608

Review question

What effect do non-pharmacological treatments have on the reduction of preoperative anxiety in children compared to Midazolam?

Searches

PubMed, PsycINFO, The Cochrane Library (Cochrane Database of Systematic Reviews, Cochrane Central Register of Controlled Trials(CENTRAL), Web of Science (WoS, Science and Social Science Citation Index), Clinical trials register (clinicaltrials.gov), Current Controlled Trials (www.controlled-trials.com), International Clinical Trials Registry Platform (ICTRP, <http://www.who.int/ictcp/en/>), metaRegister of controlled trials (<http://www.isrctn.com/>) and Google Scholar will be searched. Furthermore, we will hand search references of the included studies. There will be no language restrictions and each database was searched from January 1986 to December 2017.

Types of study to be included

Randomized controlled studies.

Condition or domain being studied

Preoperative anxiety in children undergoing surgery.

Participants/population

Inclusion: Children and adolescents under the ages of 18 received surgeries under general anesthesia.
Exclusion: Adults (over the ages of 18).

Intervention(s), exposure(s)

Midazolam.

Comparator(s)/control

Non-pharmacological treatments.

Primary outcome(s)

Midazolam and preoperative anxiety in children.

Secondary outcome(s)

Type of non-pharmacological treatments used and preoperative anxiety in children.

Data extraction (selection and coding)

The screening process will be completed by two independent reviewers based on the study inclusion criteria mentioned above. The titles and abstracts of each study will be initially screened. Duplicated and non-relevant studies will be eliminated. Potentially relevant studies will be further examined in full text to determine for inclusion eligibility. The two reviewers will meet to discuss the inclusion of studies at each

PROSPERO

International prospective register of systematic reviews

stage. In the case of disagreements, a third author will aid in resolution.

Risk of bias (quality) assessment

Cochrane's tool for assessing risk of bias will be used.

Strategy for data synthesis

If more than one study is obtained, and after ruling out heterogeneity, a networking meta-analysis will be attempted. Transitivity and consistency will be assessed. A narrative synthesis will be performed for this review and network meta-analysis, and if appropriate, will be conducted for quantitative findings. The findings of the included studies will also summarized.

Analysis of subgroups or subsets

Two groups. Room:

-Non-pharmacological treatments: Preoperative room, induction room, entrance operating room.

-Non-pharmacological treatments: application mask.

Contact details for further information

Dolores Frias-Navarro

M.Dolores.Frias@uv.es

Organisational affiliation of the review

University of Valencia.

<http://www.uv.es/>

Review team members and their organisational affiliations

Dr Dolores Frias-Navarro. University of Valencia (Spain)

Dr Gloria Garcia-Banda. University of Illes Balears (Spain)

Dr Joana Fornes-Vives. University of Illes Balears (Spain)

Dr Marcos Pascual-Soler. ESIC Business & Marketing School (Spain)

Dr Federico Guillen-Salazar. University of CEU Cardenal Herrera (Spain)

Anticipated or actual start date

01 September 2017

Anticipated completion date

30 November 2018

Funding sources/sponsors

None

Conflicts of interest

None known

Language

English

Country

Spain

PROSPERO

This information has been provided by the named contact for this review. CRD has accepted this information in good faith and registered the review in PROSPERO. CRD bears no responsibility or liability for the content of this registration record, any associated files or external websites.