

CADTH RAPID RESPONSE REPORT: SUMMARY OF ABSTRACTS

Pre-Operative Naproxen for Gynecological Surgery: Clinical Effectiveness

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Research Question

What is the clinical effectiveness of pre-operative administration of naproxen to reduce post-operative pain following gynecological surgery?

Key Findings

No relevant literature was identified regarding the clinical effectiveness of pre-operative administration of naproxen to reduce post-operative pain following gynecological surgery.

Methods

A literature search was conducted on key resources including PubMed, The Cochrane Library, University of York Centre for Reviews and Dissemination (CRD) databases, Canadian and major international health technology agencies, as well as a focused Internet search. No filters were applied to limit the retrieval by study type. Where possible, retrieval was limited to the human population. This search was also limited to English language documents published between January 1, 2012 and July 18, 2017. Internet links were provided, where available.

Selection Criteria

One reviewer screened citations and selected studies based on the inclusion criteria presented in Table 1.

Table 1: Selection Criteria

Population	Patients undergoing gynecological surgical procedures
Intervention	Naproxen (alone or in combination with other pain relievers) administered before surgery
Comparator	Other pain relievers
Outcomes	Clinical effectiveness (reduced post-operative pain, decreased need for opioids, improved pain control) and safety
Study Designs	Health technology assessments, systematic reviews, meta-analyses, randomized controlled trials, non-randomized studies, evidence-based guidelines

Results

Rapid Response reports are organized so that the higher quality evidence is presented first. Therefore, health technology assessment reports, systematic reviews, and meta-analyses are presented first. These are followed by randomized controlled trials, non-randomized studies, and evidence-based guidelines.

No relevant health technology assessments, systematic reviews, meta-analyses, randomized controlled trials, non-randomized studies, or evidence based guidelines were identified regarding the clinical effectiveness of pre-operative administration of naproxen to reduce post-operative pain following gynecological surgery.

References of potential interest are provided in the appendix.

Overall Summary of Findings

No relevant literature was identified regarding the clinical effectiveness of pre-operative administration of naproxen to reduce post-operative pain following gynecological surgery; therefore, no summary can be provided.

References Summarized

Health Technology Assessments

No literature identified.

Systematic Reviews and Meta-analyses

No literature identified.

Randomized Controlled Trials

No literature identified.

Non-Randomized Studies

No literature identified.

Guidelines and Recommendations

No literature identified.

Appendix — Further Information

Randomized Controlled Trials

Alternate Intervention

1. Rajappa GC, Vig S, Bevanaguddaiah Y, Anadaswamy TC. Efficacy of pregabalin as premedication for post-operative analgesia in vaginal hysterectomy. *Anesth Pain Med*. 2016 Jun;6(3):e34591. Available from: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC5018136>
[PubMed: PM27642577](#)
2. Konstantatos AH, Kavvoudias H, Stegeman JR, Boyd D, Street M, Bailey M, et al. A randomized, double-blind, placebo-controlled study of preemptive oral oxycodone with morphine patient-controlled anesthesia for postoperative pain management in patients undergoing uterine artery embolization for symptomatic uterine fibroids. *Cardiovasc Intervent Radiol*. 2014 Oct;37(5):1191-7.
[PubMed: PM24981461](#)
3. Behdad S, Ayatollahi V, Yazdi AG, Mortazavizadeh A, Niknam F. Effect of oral low dose clonidine premedication on postoperative pain in patients undergoing abdominal hysterectomy: a randomized placebo controlled clinical trial. *Rev Med Chir Soc Med Nat Iasi*. 2013 Oct;117(4):934-41.
[PubMed: PM24502072](#)

Alternate Comparator

4. Somchit W, Lertkachonsuk AA, Vallipakorn SA. Naproxen for pain relief during endometrial biopsy: a randomized controlled trial. *J Med Assoc Thai*. 2015 Jul;98(7):631-5.
[PubMed: PM26267983](#)

Non-Randomized Studies – Alternate Intervention

5. Joseph TT, Krishna HM, Kamath S. Premedication with gabapentin, alprazolam or a placebo for abdominal hysterectomy: effect on pre-operative anxiety, post-operative pain and morphine consumption. *Indian J Anaesth*. 2014 Nov;58(6):693-9. Available from: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4296352>
[PubMed: PM25624531](#)