

## Literature search

PubMed via NLM 181105

Pre-emptive pain relief

Search terms	Items found
<b>Population:</b>	
1. Preoperative[tiab] OR "pre-surgical"[tiab] OR presurgical[tiab] OR "Preoperative Period"[Mesh] OR "Preoperative Care"[Mesh]	271 395
<b>Intervention:</b>	
2. Preemptive[tiab] OR Pre-emptive[tiab] OR prophylactic[tiab] OR prophylaxis[tiab] OR prevent[tiab] OR prevention[tiab] OR "prevention and control" [Subheading]	1 836 920
3. "Acetaminophen"[Mesh] OR paracetamol[tiab] OR acetaminophen[tiab] OR "Oxycodone"[Mesh] OR Oxycodone[tiab]	29 116
4. "Analgesics"[Mesh] OR "Analgesics" [Pharmacological Action] OR analgesic[tiab] OR analgesics[tiab]	576 336
<b>Outcome:</b>	
5. "Pain, Postoperative"[Mesh] OR (pain[tiab] AND postoperative[tiab])	76 703
<b>Limits:</b>	
6. Systematic[sb]	
<b>Combined sets:</b>	
7. 1 AND 3 AND 5	372
8. 2 AND 3 AND 5	1 026
9. 7 OR 8	1 192
10. 1 AND 4 AND 5	2 709
11. 2 AND 4 AND 5	7 970
12. 10 OR 11	9 373
13. 12 AND 6	200
<b>Final 9 OR 13</b>	<b>1 207</b>

The search result, usually found at the end of the documentation, forms the list of abstracts

[MeSH] = Term from the Medline controlled vocabulary, including terms found below this term in the MeSH hierarchy

[MeSH:NoExp] = Does not include terms found below this term in the MeSH hierarchy

[MAJR] = MeSH Major Topic

[TIAB] = Title or abstract

[TI] = Title

[AU] = Author

[TW] = Text Word

Systematic[SB] = Filter for retrieving systematic reviews

\* = Truncation

" " = Citation Marks; searches for an exact phrase

## Cochrane Library via Wiley 181105

## Pre-emptive pain relief

Search terms	Items found
<b>Population:</b>	
1. Preoperative:ti,ab,kw OR "pre-surgical":ti,ab,kw OR presurgical:ti,ab,kw OR "Preoperative Period"[Mesh] OR "Preoperative Care"[Mesh]	28 887
<b>Intervention:</b>	
2. Preemptive:ti,ab,kw OR Pre-emptive:ti,ab,kw OR prophylactic:ti,ab,kw OR prophylaxis:ti,ab,kw OR prevent:ti,ab,kw OR prevention:ti,ab,kw	168 818
3. "Acetaminophen"[Mesh] OR paracetamol:ti,ab,kw OR acetaminophen:ti,ab,kw OR "Oxycodone"[Mesh] OR Oxycodone:ti,ab,kw	9 469
4. "Analgesics"[Mesh] OR analgesic:ti,ab,kw OR analgesics:ti,ab,kw	37 819
<b>Outcome:</b>	
5. "Pain, Postoperative"[Mesh] OR (pain:ti,ab,kw AND postoperative:ti,ab,kw)	31 935
<b>Limits:</b>	
6. Cochrane Reviews	
<b>Study types:</b>	
7. 1 AND 3 AND 5	583
8. 2 AND 3 AND 5	1 215
9. 7 OR 8	1 520
10. 1 AND 4 AND 5	2 052
11. 2 AND 4 AND 5	4 840
12. 10 OR 11	5 840
13. 12 AND 6	50
<b>Final</b> 9 OR 13	<b>1 554</b>

The search result, usually found at the end of the documentation, forms the list of abstracts

[AU] = Author

[MAJR] = MeSH Major Topic

[MeSH] = Term from the Medline controlled vocabulary, including terms found below this term in the MeSH hierarchy

[MeSH:NoExp] = Does not include terms found below this term in the MeSH hierarchy

Systematic[SB] = Filter for retrieving systematic reviews

[TI] = Title

[TIAB] = Title or abstract

[TW] = Text Word

\* = Truncation

" " = Citation Marks; searches for an exact phrase

CDSR = Cochrane Database of Systematic Review

CENTRAL = Cochrane Central Register of Controlled Trials, "trials"

CRM = Method Studies

DARE = Database Abstracts of Reviews of Effects, "other reviews"

EED = Economic Evaluations

HTA = Health Technology Assessments

**Embase via embase.com 181105****Pre-emptive pain relief**

Search terms	Items found
<b>Population:</b>	
1. Preoperative:ti,ab OR "pre-surgical":ti,ab OR presurgical:ti,ab OR 'preoperative period'/exp	485 682
<b>Intervention:</b>	
2. Preemptive:ti,ab OR Pre-emptive:ti,ab OR prophylactic:ti,ab OR prophylaxis:ti,ab OR prevent:ti,ab OR prevention:ti,ab	1 251 668
3. 'paracetamol'/exp OR 'oxycodone'/exp OR paracetamol:ti,ab OR acetaminophen:ti,ab OR oxycodone:ti,ab	97 319
4. 'analgesic agent'/exp OR analgesic:ti,ab OR analgesics:ti,ab	882 010
<b>Outcome:</b>	
5. 'postoperative pain'/exp OR (pain:ti,ab AND postoperative:ti,ab)	109 081
<b>Limits:</b>	
6. [cochrane review]/lim OR [systematic review]/lim OR [meta analysis]/lim	
<b>Combined sets:</b>	
7. 1 AND 3 AND 5	2 590
8. 2 AND 3 AND 5	932
9. 7 OR 8	3 180
10. 1 AND 4 AND 5	9 580
11. 2 AND 4 AND 5	3 853
12. 10 OR 11	12 133
13. 12 AND 6	474
<b>Final 9 OR 13</b>	<b>3 495</b>

/de= Term from the EMTREE controlled vocabulary

/exp= Includes terms found below this term in the EMTREE hierarchy

/mj = Major Topic

:ab = Abstract

:au = Author

:ti = Article Title

:ti,ab = Title or abstract

\* = Truncation

'' = Citation Marks; searches for an exact phrase

## Referenser

1. Brunsson I. RUTIN Smärta - Perioperativa rekommendationer.  
<https://alfresco.vgregion.se/alfresco/service/vgr/storage/node/content/18017/Sm%C3%A4rta%20-%20Perioperativa%20rekommendationer.pdf?a=false&guest=true>; 2017.
2. Rosero EB, Joshi GP. Preemptive, preventive, multimodal analgesia: what do they really mean? *Plast Reconstr Surg* 2014;134:85S-93S.
3. Enlund M. Anestesi, generell - medicinering och övervakning In,  
<https://internetmedicin.se/page.aspx?id=2627>.
4. Dionne RA, Wirdzek PR, Fox PC, Dubner R. Suppression of postoperative pain by the combination of a nonsteroidal anti-inflammatory drug, flurbiprofen, and a long-acting local anesthetic, etidocaine. *J Am Dent Assoc* 1984;108:598-601.
5. Kim SI, Ha KY, Oh IS. Preemptive multimodal analgesia for postoperative pain management after lumbar fusion surgery: a randomized controlled trial. *Eur Spine J* 2016;25:1614-1619.
6. Doleman B, Read D, Lund JN, Williams JP. Preventive Acetaminophen Reduces Postoperative Opioid Consumption, Vomiting, and Pain Scores After Surgery: Systematic Review and Meta-Analysis. *Reg Anesth Pain Med* 2015;40:706-12.
7. Doleman B, Leonardi-Bee J, Heinink TP, Bhattacharjee D, Lund JN, Williams JP. Preemptive and preventive opioids for postoperative pain in adults undergoing all types of surgery. *Cochrane Database Syst Rev* 2018;12:CD012624.