Appendix 1. Search Strategy

Ovid Medline and Embase
1 exp Orthopedics/ or orthop#edic$.ti,ab,kw,kf.
2 exp Orthopedic Procedures/
3 exp Arthroplasty, Replacement, Hip/ or (hip adj2 (replacement or arthroplast$ or hemiarthroplast$ or endoprosth$ or prosthesis)).ti,ab,kw,kf.
4 exp Arthroplasty, Replacement, Knee/ or (knee adj2 (replacement or arthroplast$ or hemiarthroplast$ or endoprosth$ or prosthesis)).ti,ab,kw,kf.
5 (shoulder adj1 (replacement or arthroplast$ or hemiarthroplast$ or endoprosth$ or prosthesis)).ti,ab,kw,kf.
6 (arthroplast* or meniscectom* or laminectom* or synovectom* or arthrotom$ or arthrodesis or osteotom* or internal$ fix* or arthroscop* or stabili* or reconstruct* or resurfac* or hemiarthroplast* or (joint* adj2 replace*) or prosth* or graft* or screw* or fusion or cementoplasty).ti,ab,kw,kf.
7 exp anti-inflammatory agents/ or exp anti-inflammatory agents, non-steroidal/
8 (anti-inflammatory* or antiinflammatories).ti,ab,kw,kf.
9 (diclofenac or ibuprofen or ketorolac or meloxicam or celecoxib or naproxen or advil or motrin or aleve).ti,ab,kw,kf.
10 exp anticonvulsants/
11 (gabapentin* or phenobarbital).ti,ab,kw,kf.
12 exp adrenergic alpha-2 receptor agonists/
13 (alpha-2 receptor agonist* or clonidine or dexmedetomidine).ti,ab,kw,kf.
14 (alpha-2 receptor agonist* or clonidine or dexmedetomidine).ti,ab,kw,kf.
15 exp glucocorticoids/
16 (glucocorticoids or dexamethasone or prednisone).ti,ab,kw,kf.
17 (acetaminophen or tylenol or paracetamol).ti,ab,kw,kf.
18 anesthetics, local/ or lidocaine/ or lidocaine, prilocaine drug combination/
19 ((local adj2 anesthetics) or lidocaine).ti,ab,kw,kf.
20 anesthesia, conduction/ or anesthesia, epidural/ or anesthesia, caudal/ or anesthesia, local/ or anesthesia, spinal/ or nerve block/
21 (conduct* adj3 (anesthesia or block)).ti,ab,kw,kf.
22 (epidural* or nerve block* or spinal block* or caudal).ti,ab,kw,kf.
23 acupuncture therapy/ or electroacupuncture/
24 ((acupuncture adj3 (therap* or treatment*)) or electroacupuncture).ti,ab,kw,kf.
25 Ketamine/ or ketamine.ti,ab,kw,kf.
26 "local infiltrat*".ti,ab,kw,kf.
27 "electric* nerve stimulat*".ti,ab,kw,kf.
28 Cryotherapy/ or (cryotherap* or cold therap*).ti,ab,kw,kf.
29 Cannabis/ or (cannabis or marijuana*).ti,ab,kw,kf.
30 cannabinoids/ or cannabidiol/ or cannabinol/ or dronabinol/
31 (cannabinoids or cannabidiol or cannabinol or dranbinol).ti,ab,kw,kf.
32 Medical Marijuana/
33 (opioid* adj4 (less or free or sparing or reduc*)).ti,ab,kw,kf.
34 non-opioid*.ti,ab,kw,kf.
35 ((analgesi* adj4 "after surg*") or (analgesi* adj4 "after operat*") or (analgesi* adj4 "follow* operat*") or (analgesi* adj4 "follow* surg*")).ti,ab,kw,kf.
36 Pain, Postoperative/
37 Postoperative Care/
38 ((postoperat* or post-operat* or post-surg*) adj3 (care or pain or treatment* or management or discomfort)).ti,ab,kw,kf.
39 ("pain-relief after surg*" or "pain following surg*" or "pain control after").ti,ab,kw,kf.
40 ((pain* adj4 "after surg*") or (pain* adj4 "after operat*") or (pain* adj4 "follow* operat*") or (pain* adj4 "follow* surg")).ti,ab,kw,kf.
41 or/1-6
42 or/36-40
43 or/7-34
44 41 and 42
45 43 and 44
46 45 or 35
47 limit 46 to (english language and humans)

CENTRAL
1. orthopedic or orthopaedic or arthroplasty or hemiarthroplasty or endoprosthesis or prosthesis or arthroplasty or meniscectomy or synovectomy or arthroscopy or osteotomy or arthrodesis or osteotomy or internal fixation or arthroscopy or stability or reconstruction or resurface or graft or screw or fusion or cementoplasty
2. postoperative pain or post-operative pain or post-surgical pain or pain after surgery postoperative analgesia or post-operative analgesia
3. anti-inflammatory or antiinflammatory or diclofenac or ibuprofen or ketoroloc or meloxicam or celecoxib or naproxen or advil or motrin or aleve or anticonvulsants or gabapentin or gabapentinoid or phenobarbital or alpha-2 receptor agonist or clonidine or dexametomidine or glucocorticoid or dexamethasone or prednisone or acetaminophen or tylenol or paracetamol or lidocaine or local anaesthetic or epidural or caudal or spinal or nerve block or conduction block or acupuncture or electroacupuncture or ketamine or local infiltrate or local infiltration or nerve stimulation or cannabis or cannabinoïd or cannabidiol or marijuana or medical marijuana or liposomal bupivacaine or opioid-free less opioid or opioid-sparing or reduce opioid or non-opioid
4. 1 AND 2 AND 3