

# Appendix

## 1 CENTRAL (the Cochrane Library) search strategy

#1 ultrasound near guidanc\*

#2 MeSH descriptor: [Nerve Block] explode all trees

#3 MeSH descriptor: [Anesthesia, Local] explode all trees

#4 MeSH descriptor: [Anesthesia, Spinal] explode all trees

#5 ((central or spinal or epidural or caudal or neuraxial or peripheral) near nerve block\*) or (nerv near block\*) or (regional near (an?est\* or techniq\*))

#6 #1 and (#2 or #3 or #4 or #5) and (child\* or neanat\* or preschool\* or adolescent\*)

## 2 MEDLINE (OvidSP) search strategy

1. (ultrasound adj5 guidanc\*).mp.

2. exp Nerve Block/ or exp Anesthesia, Local/ or exp Anesthesia, Spinal/ or ((central or spinal or epidural or caudal or neuraxial or peripheral) adj5 nerve block\*).mp. or (nerv adj3 block\*).ti,ab. or (regional adj5 (an?est\* or techniq\*)).mp. and (child\* or neanat\* or preschool\* or adolescent\*).af.

3. ((randomized controlled trial or controlled clinical trial).pt. or randomized.ab. or placebo.ab. or drug therapy.fs. or randomly.ab. or trial.ab. or groups.ab. or (meta?analysis or review or systematic review).mp.) not (animals not (humans and animals)).sh.

4. 1 and 2 and 3

## 3 EMBASE (Ovid SP) search strategy

1. ultrasound/ or (ultrasound adj5 guidanc\*).mp.

2. (exp nerve block/ or exp local anesthesia/ or exp spinal anesthesia/ or ((central or spinal or epidural or caudal or neuraxial or peripheral) adj5 nerve block\*).mp. or (nerv adj3 block\*).ti,ab. or (regional adj5 (an?est\* or techniq\*)).mp.) and (child\* or neanat\* or preschool\* or adolescent\*).af.

3. (randomized-controlled-trial/ or randomization/ or controlled-study/ or multicenter-study/ or phase-3-clinical-trial/ or phase-4-clinical-trial/ or double-blind-procedure/ or single-blind-procedure/ or (random\* or cross?over\* or multicenter\* or factorial\* or placebo\* or volunteer\*).mp. or ((singl\* or doubl\* or trebl\* or tripl\*) adj3 (blind\* or mask\*)).ti,ab. or (latin adj square).mp.) not (animals not (humans and animals)).sh.

4. 1 and 2 and 3

## **4 Scopus**

Ultrasound AND (epidural OR caudal OR block)