Dexmedetomidine versus propofol sedation in reducing delirium among older adults in the ICU: a systematic review and meta-analysis

Supplemental Digital Content File

Jarett V. Pereira, Rohan M. Sanjanwala, Mohammed K. Mohammed, Me-Linh Le, Rakesh C. Arora

Supplemental figure 1: Search strategy for Ovid Medline

1 exp Dexmedetomidine/

2 (Dexmedetomidin* or Precedex or MPV-1440 or MPV 1440 or mpv1440 or Cepedex or Demesynt or Dexdomitor or Dexdor or Dexem or Meproxidina).tw,kf.

3 Dexmedetomidine.rn.

4 Propofol/

5 (Propofol* or diprivan or propoven or aquafol or disoprivan or disoprofol or fresofol or ivofol or recofol).tw,kf.

6 Propofol.rn.

7 or/1-6

8 exp Delirium/

9 Confusion/

10 (delir* or confus*).tw,kf.

11 or/8-10

12 exp specialties, surgical/

13 exp Surgical Procedures, Operative/

14 su.fs.

15 (surg* or operat* or postoperativ*).tw,kf.

16 exp Intensive Care Units/

17 Critical Care/

18 ((intensive or critical) adj2 (care or therap* or treatment*)).tw,kf.

19 (ICU* or ITU* or CCU* or GICU*).tw,kf.

20 (critical* ill* or sever* ill* or serious* ill* or at risk patient* or trauma patient*).tw,kf.

21 or/12-20

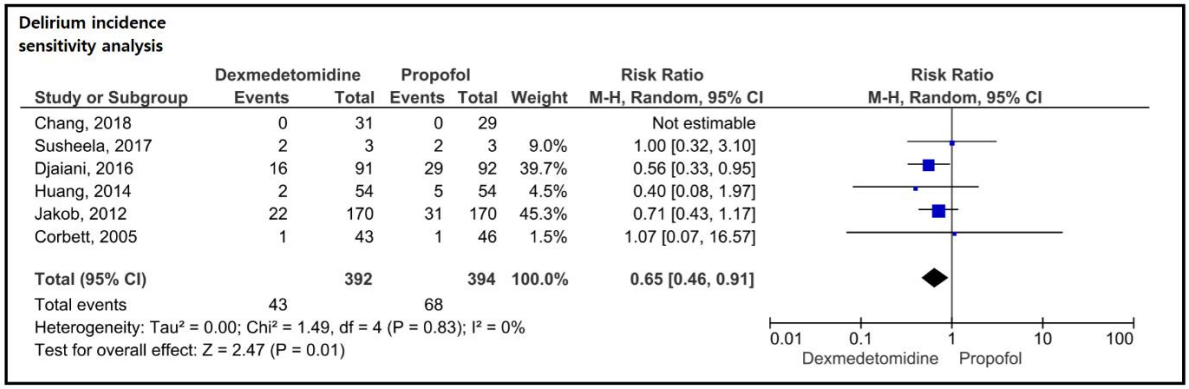
22 7 and 11 and 21

23 exp Animals/ not (exp Animals/ and Humans/)

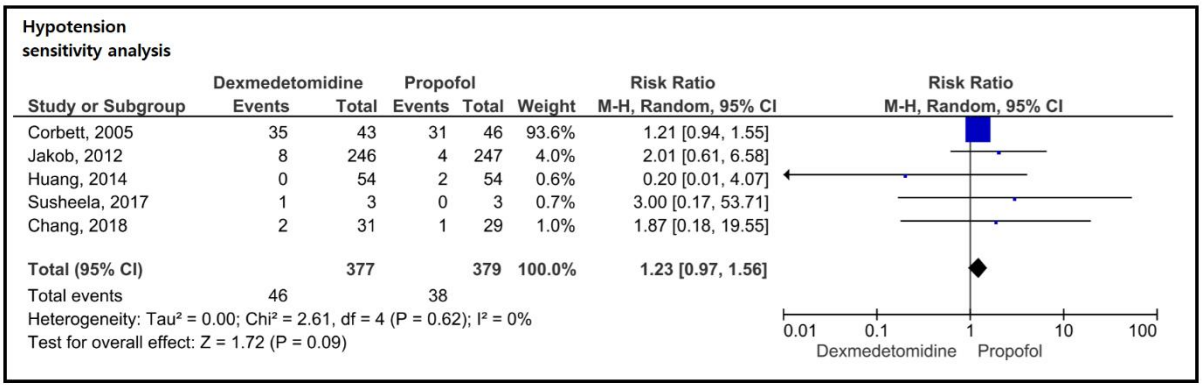
24 22 not 23

25 remove duplicates from 24

Supplemental figure 2: Forest plot of the effects of dexmedetomidine and propofol on delirium incidence after exclusion of cohort studies

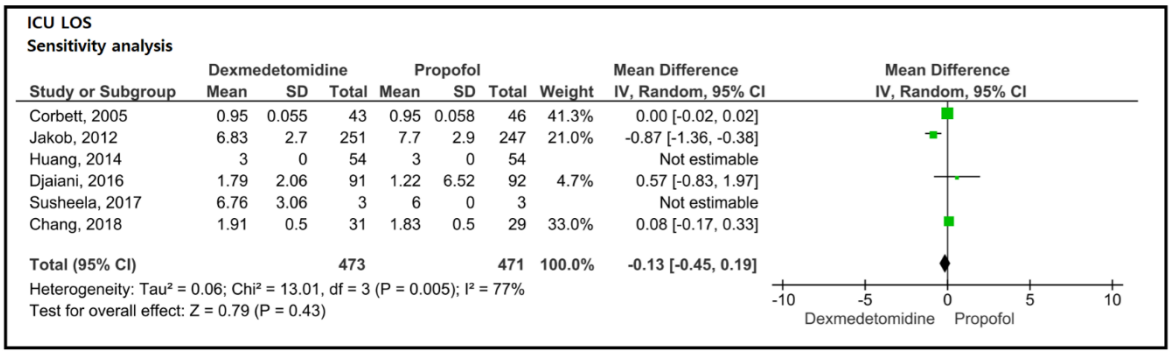


Supplemental figure 3: Forest plot showing the risk of hypotension associated with dexmedetomidine and propofol use after exclusion of cohort studies

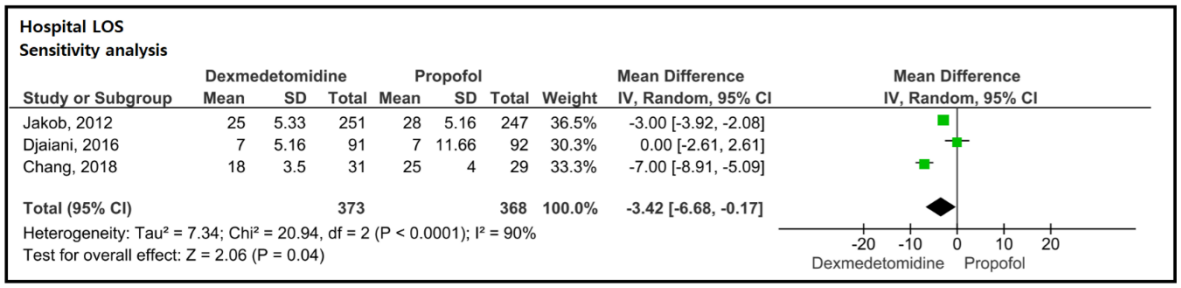
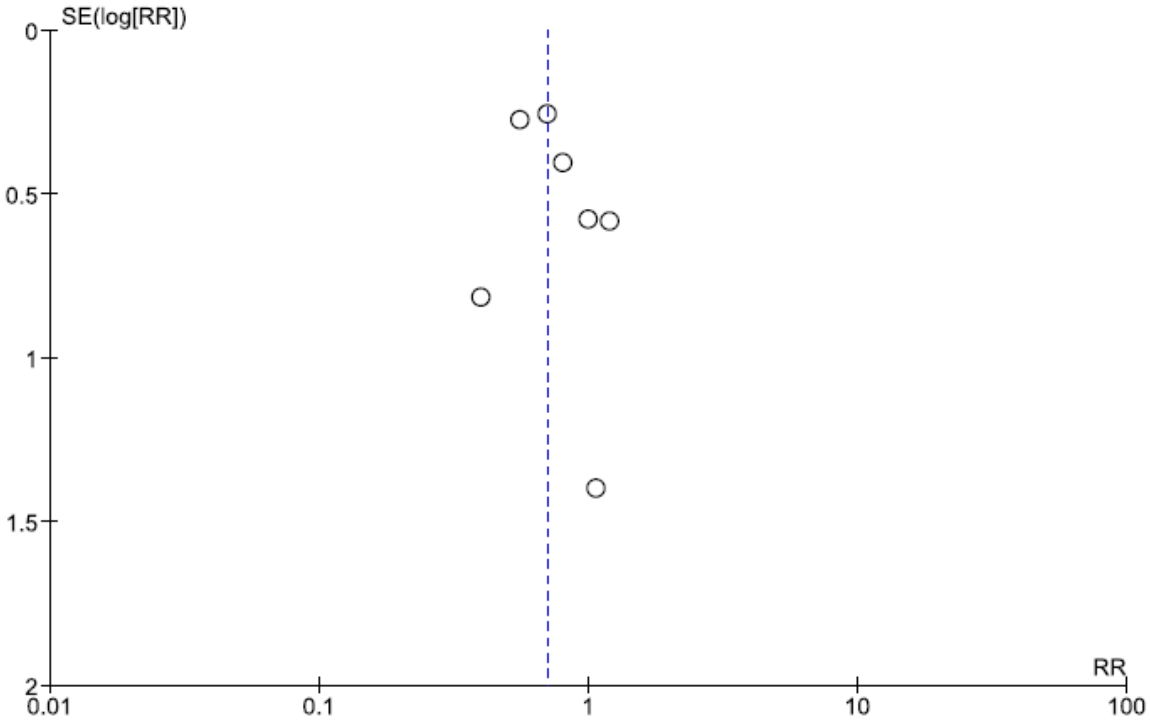


Supplemental figure 4: Forest plot showing the effects of dexmedetomidine on intensive care unit length of stay (A) and hospital length of stay (B) after exclusion of cohort studies

A



B



Supplemental figure 5: Funnel plot for visual analysis of publication bias