



SMIJ

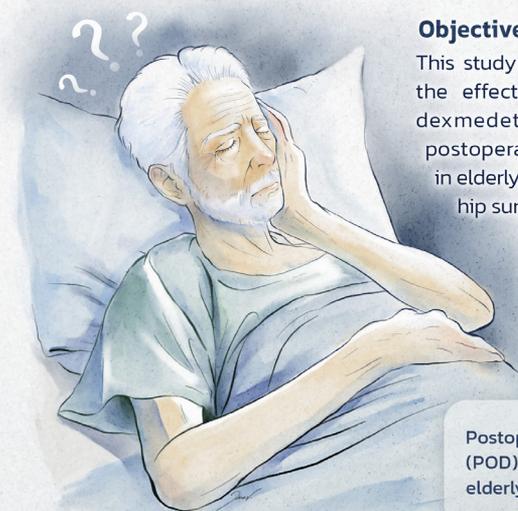
Siriraj Medical Journal

The world-leading biomedical science of Thailand

MONTHLY

ORIGINAL ARTICLE REVIEW ARTICLE

Effect of a Single-dose Dexmedetomidine on Postoperative Delirium and Intraoperative Hemodynamic Outcomes in Elderly Hip Surgery; A Randomized Controlled Trial Dexmedetomidine for Postoperative Delirium



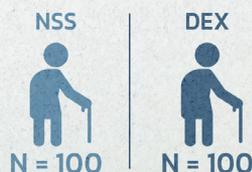
Objective :

This study aims to investigate the effect of a single-dose dexmedetomidine (DEX) on postoperative delirium (POD) in elderly patients undergoing hip surgery.

Postoperative delirium (POD) is common in elderly patients.

Results:

A total of 200 patients were randomized.



The incidence of **POD was significantly lower in the DEX** compared to the NSS (P < 0.001, RR 0.45, 95%CI: 0.28, 0.73)

This difference remained significant at each postoperative assessment time point.



There was no significant difference in sedation score and perioperative hemodynamics.

Additionally, the length of stay after surgery in the DEX was significantly shorter compare to the NSS (P=0.006).

Materials and Methods:

This prospective, randomized, double-blinded trial enrolled patients aged over 65 years who underwent hip surgery under spinal anesthesia.

Patients were assigned to either

Dexmedetomidine (DEX)



0.3-0.5 µg/kg IV

Normal saline solution (NSS)



Delirium assessments were conducted at PACU 24 hr 48 hr 72 hr postoperatively using the Confusion Assessment Method (CAM).

Conclusion:

A single-dose dexmedetomidine can reduce the incidence of POD within 72 hours postoperatively in elderly patients undergoing hip surgery without compromising intraoperative hemodynamic stability.



Indexed by

Scopus®

