

البحث الأول

عنوان البحث باللغة الإنجليزية:

Comparison of Analgesic Effect Between Erector Spinae Plane Block and Transversus Abdominis Plane Block After Elective Cesarean Section: A Prospective Randomized Single-Blind Controlled Study.

نوع البحث:

بحث مشترك منشور و سبق تقييمه في لجنة ترقية د. محمد أحمد حامد لدرجة استاذ مساعد وتم تقييمه جيد جدا و حصل (13.5) درجة.

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ملخص البحث الأول باللغة الإنجليزية:

Background: This study compared the analgesic efficacy of a bilateral erector spinae plane (ESP) block with that of a bilateral transversus abdominis plane (TAP) block after elective cesarean delivery.

Methods: Sixty mothers scheduled for elective cesarean delivery under spinal anesthesia were randomly allocated to receive either ESP block or TAP block. The ESP group received ESP block at the level of the ninth thoracic transverse process with 20 ml of 0.25% bupivacaine at the end of surgery. The TAP group received an ultrasound-guided TAP block with 20 ml of 0.25% bupivacaine on completion of delivery. The primary outcome was the duration of analgesia achieved by each block. Secondary outcome measures were the postoperative pain severity, total tramadol consumption, patient satisfaction

Results: The median (interquartile range) duration of block was longer in the ESP group than in the TAP group (12 hours [10, 14] vs 8 hours [8, 8], $p < 0.0001$). In the first 24 hours, the mean visual analog pain score at rest was lower by 0.32 units in the ESP group. The median tramadol consumption in the first 24 hours was significantly higher in the TAP group than in the ESP group (125 mg [100, 150] vs. 100 mg [75, 100], $p = 0.003$).

Conclusion: Compared with the TAP block, the ESP block provides more effective pain relief, has a longer duration of analgesic action, prolongs time to first analgesic



requirement, is associated with less tramadol consumption, and can be used in multimodal analgesia and opioid-sparing regimens after cesarean section.