

## **Journal 2: Comparison of Intrathecal Clonidine and Fentanyl as Adjuvant to Hyperbaric Bupivacaine in Subarachnoid Block for Lower Limb Orthopedic Surgery**

- **Materials and Methods:** It was a prospective randomized study in which eighty patients posted for lower limb orthopedic surgery were divided into two groups of forty each. Group C – Received intrathecal hyperbaric bupivacaine (2.5 ml) + 50 mcg clonidine (diluted to 0.5 ml). Group F – Received intrathecal hyperbaric bupivacaine (2.5 ml) + fentanyl 25 mcg (diluted to 0.5 ml). Duration of postoperative analgesia, sensory and motor block characteristics, hemodynamic parameters, and side effects were recorded and analyzed.
- January 2016 – January 2017
- ASA I or II, either sex, age 20-60, double blinded
- **Conclusion:** Intrathecal clonidine 50mcg as adjuvant to hyperbaric bupivacaine provided prolonged postoperative analgesia with more sedation in comparison to intrathecal fentanyl 25 mcg.

# Comparison Meperidine Supplements Clonidine Bupivacaine Orthopedic

**Ying Liu**



## **Comparison Meperidine Supplements Clonidine Bupivacaine Orthopedic:**

*Comparison of Fentanyl Versus Meperidine As Supplements to Epidural Clonidine-Bupivacaine in Patients with Lower Limb Orthopedic Surgery Under Combined Spinal Epidural Anesthesia* Applied Research Applied Research Press, 2015-12-08 This open access article by various authors presents key research on Comparison of fentanyl versus meperidine as supplements to epidural clonidine bupivacaine in patients with lower limb orthopedic surgery under combined spinal epidural anesthesia The analgesic and sedative effect of clonidine explain its common use as adjuvant in regional anesthesia however the hemodynamic instability associated with its neuroaxial administration is the major drawback Our study hypothesis is to compare the hemodynamic and analgesic effect of epidural fentanyl in comparison to meperidine when added to clonidine in patients undergoing lower limbs orthopedic surgery using combined spinal epidural anesthesia *Cumulated Index Medicus*, 1989 **Orthopaedic Knowledge Update** Pediatric Orthopaedic Society of North America, American Academy of Orthopaedic Surgeons, 2002 Enhance your knowledge with expanded content additional images and classic and annotated bibliographies **Principles and Practice of Regional Anaesthesia** Graeme McLeod, Colin McCartney, Tony Wildsmith, 2012-11-22 The fourth edition of this highly successful textbook discusses the practical applications of the various methods of regional anaesthesia including ultrasound as well as giving an account of their theoretical aspects The well established author team use their experience to provide a practical and stimulating book which reflects everyday clinical activity supplemented by high definition ultrasound images and schematic diagrams The book will also discuss the place of regional anaesthesia in current medical practice particularly with regard to pain processes ultrasound imaging and patient outcomes Regional anaesthesia is a rapidly expanding sub speciality of anaesthesia routine provision of long lasting pain relief and the introduction of real time ultrasound block has fuelled a demand for cadaver and ultrasound based anatomy training courses Thus it is more important than ever to have a thorough grounding in this exciting subspecialty *Principles and Practice of Surgical Oncology* Howard Silberman, Allan W. Silberman, 2012-03-28 Principles and Practice of Surgical Oncology uniquely emphasizes a multidisciplinary integrated approach to the treatment of solid tumors It presents treatment strategies that combine surgery with preoperative or postoperative adjunctive chemotherapy hormonal therapy and or radiation therapy to achieve optimal outcome The book features contributions from surgeons basic scientists pathologists radiologists radiation therapists and medical oncologists and offers a comprehensive presentation of genetics molecular biology pathogenesis and multimodal therapeutic approaches A unique feature of the book is a commentary following each chapter which describes alternative approaches and discusses controversial areas of current therapy A companion Website will offer the fully searchable text with images *Index Medicus*, 2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings *Acute Pain* Raymond S. Sinatra, 1992 *Schweizerische medizinische Wochenschrift*, 1975

**Clonidine Versus Morphine as Additives to Bupivacaine in Patient-controlled Epidural Analgesia for**

**Postoperative Pain After Abdominal Hysterectomy** Iulia Cindea, 2017  
**Background and Goal of Study** We planned this study to compare in terms of analgesic effect and safety the value of clonidine and morphine used as adjuvants to local anaesthetic in patient controlled epidural analgesia PCEA after abdominal hysterectomy with midline laparotomy  
**Materials and methods** After Ethics Committee approval and written informed consent 85 ASA I-III women aged 30 to 75 years scheduled for abdominal hysterectomy under general anaesthesia were enrolled into a randomized double blind prospective study. Patients were preoperatively supplied with a lumbar epidural catheter. Postoperatively patients were randomly assigned into two groups and PCEA was initiated for the first 24h post procedure according to the following protocols:  
 Group C: 0.125% bupivacaine plus clonidine 1 µg/ml in group C (n=42) respectively 0.125% bupivacaine plus morphine 0.1 mg/ml in group M (n=43) using the same administration regimen: 10 ml loading dose, 5 ml bolus dose, 15 min lockout period, 30 ml limit in 4h. Rescue analgesia was given with 1 mg/kg iv diclofenac. The primary outcomes during first 24h postoperatively were the quality of pain control measured six hourly by VAS at rest and after coughing, time to first bolus request, total analgesic consumption through epidural catheter and consumption of rescue analgesic. The secondary outcomes were hemodynamic status, the incidence of sedation and nausea/vomiting events and patient satisfaction. Statistics was made with Mann-Whitney T test and Chi square test.  
*Comparison Of The Efficacy And Safety Of Dexmedetomidine Versus Clonidine In Combination With Bupivacaine During Spinal Anesthesia For Hip Surgery*, 2017  
**Background and Goal of Study** comparing dexmedetomidine versus clonidine associated to bupivacaine in spinal anesthesia.  
**Materials and Methods** double blind prospective study including 60 patients ASA I or II admitted for surgery of the femoral neck under spinal anesthesia. The anesthesiologist practice a slow injection randomly 10 mg hyperbaric bupivacaine associated with 15 mcg of clonidine (GC) or 3 µg of dexmedetomidine (GD). Neither the anesthesiologist nor the patient know the nature of the adjuvant. The same anesthetist notes the onset time of sensory block (prick touch test is negative in fracture site), the motor block (modified Bromage 2), the occurrence of hypotension or bradycardia and use of analgesics during the first 24 hours (1g paracetamol if VAS ≥ 3).  
**Results and Discussion**  
 Age (years): 69.2 ± 11.8 (GC) vs 71.8 ± 11.5 (GD), BMI (kg/m<sup>2</sup>): 21.6 ± 12.3 (GC) vs 22.1 ± 11.8 (GD), sex ratio: 1.5 (GC) vs 1.4 (GD), delay sensory block (min): 7.6 ± 12.4 (GC) vs 4.5 ± 13.8 (GD), delay motor block (min): 11.4 ± 13.8 (GC) vs 9.9 ± 12.9 (GD), duration of motor block (min): 124.6 ± 128.9 (GC) vs 138.5 ± 131.8 (GD), duration of sensory block (min): 148.7 ± 134.8 (GC) vs 182.8 ± 141.6 (GD), hypotension: 16% (GC) vs 54% (GD), bradycardia: 6% (GC) vs 66% (GD), Ephedrine (mg): 2.1 ± 10.8 (GC) vs 4.4 ± 10.6 (GD), atropine (µg): 0.5 ± 10.4 (GC) vs 0.5 ± 10.4 (GD), paracetamol (g): 2.0 ± 10.4 (GC) vs 0.3 ± 9.0 (GD).  
**Conclusion** dexmedetomidine in combination with bupivacaine is more effective than clonidine on the sensitive part of the spinal anesthesia.  
**Comparative Analysis of the Analgesic Effects of Clonidine when Used as an Additive to Bupivacaine in Caudal Blocks in the Pediatric Population** Denise D. Husen, 2002

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