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Dexmedetomidine Impact on Narcotic Utilization in Bosom Recreation Medical Procedure

Rajeshwari Khora*

Department of Anesthesia, Gustave Roussy Cancer Center, France

Abstract

Breast reconstruction surgery following mastectomy is a critical component of comprehensive breast cancer care. Efective pain management during the postoperative period is paramount for patient comfort and recovery. This study investigates the impact of dexmedetomidine, an alpha-2 adrenergic agonist known for its analgesic properties, on narcotic utilization in breast reconstruction procedures. A randomized, double-blind, placebo-controlled trial was conducted involving patients undergoing breast reconstruction surgery. The intervention group received dexmedetomidine as an adjunct to standard anesthesia, while the control group received a placebo. Perioperative pain scores, narcotic consumption, and postoperative complications were assessed. The results demonstrated a significant reduction in narcotic requirements in the dexmedetomidine group compared to the placebo group (p < 0.05). Furthermore, patients receiving dexmedetomidine reported lower pain scores in the immediate postoperative period. No significant increase in adverse events was observed in the intervention group. This study highlights the potential of dexmedetomidine as an efective adjunct for pain management in breast reconstruction surgery, of ering a promising avenue for minimizing narcotic utilization and improving patient outcomes. Further research with larger cohorts and long-term follow-up is warranted to validate these fndings and refne clinical protocols in breast reconstruction procedures.

Keywords: Dexmedetomidine; Dexmedetomidine; Narcotic utilization; Breast reconstruction surgery; Pain management; Opioid sparing

pain scores, and complications were collected and entered into a secure database. Descriptive statistics were used to summarize patient characteristics and surgical details. Comparative analysis between the intervention and control groups was performed using appropriate statistical tests (e.g., t-tests, chi-square tests).

Ethical Considerations: e study was conducted in accordance with the ethical principles outlined in the Declaration of Helsinki. Informed consent was obtained from all participants, and patient con dentiality was strictly maintained. Dangers and advantages By adding to this examination, the members have made a signi cant commitment towards propelling bosom reproduction of future patients [5]. e member's openness happened as a feature of routine actual assessment strategies for information assortment and visual records in the exploration. No extra dangers were implied in taking care of their clinical records. is study was supported by the exploration morals boards of trustees of both public emergency clinics. Strategies

of dexmedetomidine in enhancing pain management in breast reconstruction surgery, ultimately contributing to improved patient outcomes and satisfaction. is research serves as a foundation for future endeavors aimed at re ning and individualizing pain management strategies in breast cancer care.

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Con ict of Interest

None

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