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Summer 10-30-2021

## **Postoperative Urinary Retention in Patients undergoing Orthopedic Procedures: Unilateral vs Bilateral Spinal Anesthesia**

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## TITLE PAGE

① Title : Postoperative Urinary Retention in Patients undergoing Orthopedic Procedures:  
Unilateral vs Bilateral Spinal Anesthesia

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Date of preparation: 30 August 2021

# MANUSCRIPT

## POST-OPERATIVE URINARY RETENTION IN PATIENTS UNDERGOING ORTHOPAEDIC PROCEDURES: UNILATERAL VS BILATERAL SPINAL ANAESTHESIA.

### Summary:

The study aims to evaluate the occurrence of postoperative urinary retention developing following unilateral and bilateral spinal anaesthesia. In this descriptive longitudinal study, 42 patients undergoing lower limb orthopaedic procedures under unilateral spinal anaesthesia and 42 patients receiving bilateral spinal anaesthesia were followed up in the postoperative period to evaluate the presence of postoperative urinary retention. The presence of any symptoms of retention and any intervention for the same were also recorded. The analysis was summarised by frequency, percentage, mean and standard deviation. The demographic data and the contributing factors between the two groups were analysed by t test, the symptoms of retention was compared by using Chi square test and the rescue intervention used between the two groups was studied using the Fisher's exact test. Two patients who underwent orthopaedic procedures under unilateral spinal anaesthesia and 8 patients under bilateral spinal anaesthesia developed postoperative urinary retention. The mean age, duration of surgery, the intravenous fluids administered, symptoms of retention, need for rescue intervention and the presentation of symptoms of retention was nil significant between the two groups. The presentation of symptoms of retention were significant with respect to the time taken to void in both the groups. It was concluded that there is similar proportion of occurrence of postoperative urinary retention between unilateral and bilateral spinal anaesthesia in patients undergoing orthopaedic procedures.

### Keywords:

Postoperative urinary retention, orthopaedic procedures, unilateral spinal anaesthesia, bilateral spinal anaesthesia