

**IMPLEMENTATION OF OPERATING INSTRUMENT CHECKLIST
TO IMPROVE NURSE COMPLIANCE IN INSTRUMENT COUNTING
DURING OPERATION AT IKBA RSUP DR. SARDJITO YOGYAKARTA**

Retnaningsih¹, Khudazi Aulawi², Sutono³

ABSTRACT

Background: One of the duties of an operating room nurse is to calculate the instruments used during surgery. Non-compliance with instrument counting during surgery increases the risk of loss of instruments, and increases the possibility of instruments being left in the operating area unnoticed by the operating team which can endanger patients' lives.

Objectives: To determine the effect of applying a checklist of surgical instruments in increasing nurse compliance in calculating instruments during operations in the Operating Room and Anesthesia Installation of Dr. Sardjito Yogyakarta General Hospital.

Methods: This study used a one-group pre-post test design. The population in this study were all operations in the Operating Room and Anesthesia Installation of Dr. Sardjito Yogyakarta General Hospital and surgical nurses totaling 60. The sampling technique used accidental sampling which was adjusted to the inclusion and exclusion criteria. Data analysis used univariate and McNemar tests with significance set as $p < 0.05$ with 95% confidence interval.

Results: Nurse compliance with the Surgical Safety Checklist in the period before and after the implementation of the operational instrument checklist was good when (sign-in), (time-out), and (sign-out) were all 100% implemented, but in the sign-out phase there were still items missed and the calculation of the instruments used during the operation was not done correctly nor consistently. Compliance of nurses performing instrument calculations during surgery in the period before the application of the operating instrument checklist involved 4 actions (7%) of compliance and 56 actions (93%) of non-compliance. Compliance with instrument counting during operation after implementing the operating instrument checklist significantly increased to 90% compliance and 10% non-adherence with $p = 0.010$.

Conclusion: There was a significant effect of applying a checklist of surgical instruments in increasing nurse compliance in calculating instruments during operations in the Operating Room and Anesthesia Installation of Dr. Sardjito Yogyakarta General Hospital.

Keywords: operating instrument checklist, nurse compliance, surgical instrument calculations