

THE ROLE AND RESPONSIBILITIES OF NURSES IN SURGERY

Rayimova Dilaferuz Olim Kizi

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Gafurova Feruza Kayimovna

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Abstract: *This article explores the critical role of nurses in the surgical setting, emphasizing their responsibilities and tasks before, during, and after surgical procedures. Nurses in the operating room and surgical wards contribute to patient safety, comfort, and recovery. This paper examines the various duties that nurses perform in surgery, including preoperative preparation, intraoperative assistance, and postoperative care. Furthermore, it highlights the importance of collaboration with the surgical team and the application of evidence-based practices to ensure optimal patient outcomes.*

Introduction:

Surgical procedures present significant challenges for patients and healthcare teams. The role of nurses in surgery is multi-faceted, ranging from preparing patients for surgery to ensuring their recovery after the procedure. Surgical nurses, often referred to as perioperative nurses, work in various capacities, such as scrub nurses, circulating nurses, and post-anesthesia care unit (PACU) nurses. The work performed by surgical nurses is crucial to ensuring patient safety, effective procedure performance, and the management of potential complications.

This article outlines the specific responsibilities of nurses in surgery, detailing their involvement in every stage of the surgical process and emphasizing the importance of their specialized training and skills.

Roles and Responsibilities of Nurses in Surgery:

1. Preoperative Care:

- **Patient Assessment and Education:** Nurses are responsible for assessing the patient's health status before surgery. This includes reviewing medical history, conducting physical assessments, and performing laboratory tests as ordered. Nurses also educate patients about the surgical procedure, what to expect, and preoperative instructions such as fasting or discontinuing medications.
- **Preparation and Documentation:** Nurses ensure that all necessary preoperative documentation is completed, including consent forms and medical records. They also prepare the patient physically by ensuring proper hygiene, administering prescribed preoperative medications, and starting intravenous (IV) lines.
- **Psychological Support:** Surgery can be a stressful experience for patients. Nurses provide emotional support, address concerns, and help alleviate anxiety by explaining the process and offering reassurance.
- *Importance:* Proper preoperative care ensures the patient is physically and psychologically prepared for surgery, reducing the risk of complications and improving recovery outcomes.

2. Intraoperative Care:

- **Scrub Nurse Responsibilities:** The scrub nurse works directly in the sterile field, assisting the surgeon by passing instruments, holding retractors, and maintaining the sterile environment. They are responsible for ensuring all surgical tools and equipment are ready and sterile before the procedure begins.
- **Circulating Nurse Responsibilities:** The circulating nurse works outside the sterile field, ensuring that all required supplies and equipment are available during the procedure. They are also responsible for maintaining the sterile environment by preventing contamination and ensuring that all instruments are accounted for before and after surgery.

- **Monitoring the Patient:** Nurses assist in monitoring the patient's vital signs, oxygen levels, and anesthesia throughout the surgical procedure. They are responsible for promptly identifying any signs of complications and communicating these to the surgical team.

- **Assisting with Anesthesia:** Nurses play a role in anesthesia management by ensuring the patient's safety during anesthesia induction, monitoring for adverse reactions, and providing support to anesthesia providers.

- *Importance:* The intraoperative role of the nurse is essential for maintaining a sterile environment, ensuring patient safety, and providing real-time support to the surgical team.

3. **Postoperative Care:**

- **Post-Anesthesia Care:** After surgery, nurses monitor the patient's recovery from anesthesia in the post-anesthesia care unit (PACU). They assess vital signs, level of consciousness, and pain levels, ensuring the patient is stable and comfortable as they recover from the effects of anesthesia.

- **Wound Care and Infection Prevention:** Nurses are responsible for managing surgical wounds, ensuring proper dressing changes, and monitoring for signs of infection. They educate patients on how to care for wounds at home and the signs of infection to watch for.

- **Pain Management:** Nurses assess and manage pain through the administration of prescribed analgesics and non-pharmacological interventions. They monitor for side effects of pain medications, such as nausea or respiratory depression, and adjust care as needed.

- **Patient Education and Discharge Planning:** Nurses provide important education to patients regarding their recovery, medications, and activity restrictions post-surgery. They help coordinate follow-up appointments and provide instructions for home care, ensuring that the patient has the necessary resources for recovery.

- **Monitoring for Complications:** Nurses remain vigilant for postoperative complications such as hemorrhage, deep vein thrombosis (DVT),

and pulmonary embolism (PE), ensuring prompt intervention if complications arise.

- *Importance:* Postoperative care is crucial in preventing complications, managing pain, and ensuring that patients recover safely and efficiently.

4. **Collaboration and Communication:**

- Nurses in the surgical setting work closely with surgeons, anesthesiologists, and other members of the healthcare team. They communicate effectively to ensure that the patient's needs are met, and the surgery is performed smoothly. This collaboration ensures that the patient receives comprehensive care before, during, and after surgery.

- Nurses must be able to recognize changes in a patient's condition, quickly report them to the team, and contribute to decision-making processes to improve outcomes.

- *Importance:* Effective communication and collaboration among the surgical team members are essential for patient safety and the success of the procedure.

Training and Knowledge:

Nurses in the surgical setting undergo specialized training, including perioperative nursing programs and certifications. They need to be knowledgeable about surgical techniques, sterile procedures, anesthesia management, and the physiological changes that occur during surgery. Continuous education and simulation-based training are essential for improving skills and ensuring nurses are prepared for high-pressure situations.

Conclusion:

Nurses play an indispensable role in the surgical process, contributing to patient safety, comfort, and recovery. From preoperative assessments to postoperative care, their duties encompass a wide range of responsibilities that are crucial for the success of the surgical procedure and the well-being of the patient. By working closely with the surgical team, nurses ensure that all aspects of the

surgery are carefully managed, and potential complications are minimized. Their expertise in clinical care, patient education, and teamwork helps improve surgical outcomes and ensures that patients receive high-quality care.

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