
SECTION HEADING

SURG 1120: Surgical Pharmacology

Description

Surgical Pharmacology will enable students to assist in the preparation of medications used in the operating room. The student will distinguish the different uses, routes of administration, side effects, and supplies/equipment needed in the administration of these medication. The metric and apothecary systems of measure will be studied. Students will convert standard time to military time, do temperature conversions, and learn how to prepare a solution. Emphasis will be placed on the legal and safety aspects of drug administration.

Credits

2

Prerequisite

SURG 1110 and SURG 1130

Corequisite

None

Topics to be Covered

1. Pharmacology-terminology, concepts, classifications, forms, actions & effects, and routes
2. Anesthesia, types, equipment and device types
3. Preoperative and perioperative medications
4. General Anesthesia, complication and interventions of anesthesia
5. Local Anesthesia
6. Medication measurement, handling, label information, and preparations

Learning Outcomes

1. Analyze the principles of anesthesia administration.
2. Explain the necessity of each component of anesthesia preparation of the surgical patient.
3. Compare and contrast methods, agents, and techniques of anesthesia administration and preparation.
4. Correlate anesthesia monitoring devices with patient homeostasis.
5. Explain anesthesia complications and interventions.
6. Calculate medication conversions and dosages.
7. Apply general terminology to medication use.
8. Demonstrate the safe use of medication and solution handling in a surgical environment

Credit Details

Lecture: 2

Lab: 0

OJT: 0

MnTC Goal Area(s): None