



BAKER COLLEGE
STUDENT LEARNING OUTCOMES

SUR2350 Surgical Pharmacology and Anesthesia
2 Semester Credit Hours

Student Learning Outcomes and Enabling Objectives

1. Examine the importance of patient assessment to determine anesthesia choice.
 - a. Identify patient factors that impact anesthesia choice.
 - b. Identify the type of proposed surgical procedure.
 - c. Discuss surgeon and patient preferences regarding anesthesia choice.
 - d. Discuss the choice of anesthesia administration.
 - e. Describe the preoperative medication of the patient and the effect on anesthesia choice.
2. Explore how to prepare and manage medications and solutions.
 - a. Explain the importance of documentation when administering medication.
 - b. Explain the importance of the packaging and labeling of medications.
 - c. Explain the importance of accurately measuring medications.
 - d. Identify various medications used during surgery
 - e. Calculate medication conversions and dosages.
 - f. Identify governmental rules and regulation of medications.
 - g. Describe how to properly care and handle medications and solutions in a sterile field.
3. Explore the various medications used in surgery.
 - a. Use appropriate medical terminology.
 - b. Identify the classification of medications and solutions.
 - c. Explain the routes of administration of medications.
 - d. Explain the different forms of drugs.
 - e. Describe the courses of medications.
 - f. Describe the processes involved with pharmacokinetics.
 - g. Describe the processes involved with pharmacodynamics.
 - h. Discuss various alternative medications and their uses.
4. Compare and contrast methods, agents, and techniques of anesthesia administration and preparation.
 - a. Define the term anesthesia.
 - b. Identify the differences between Analgesia and anesthetic.

- c. Explore general anesthesia.
 - d. Explore regional anesthetic.
 - i. Spinal
 - ii. Epidural
 - iii. Nerve block
 - iv. Bier block
 - e. Explore local anesthesia.
 - f. Discuss patient monitoring devices used in anesthesia and their relationship to patient homeostasis.
5. Describe complications and interventions of anesthesia.
 - a. Describe the importance of patient safety.
 - b. Explain the impact of anesthesia complications.
 - c. Describe the surgical technologist's role during anesthesia complications.

Big Ideas and Essential Questions

Big Ideas

- Assessment of the patient.
- Medication classifications and management.
- Medications used in surgery.
- Differentiation of anesthetic drugs.
- Anesthesia complications and interventions.

Essential Questions

1. Why is it important to assess the surgical patient in preparation for anesthesia?
2. Why is it important to understand medication classification in the operative settings?
3. Why is it important to understand the care and handling of medication in the operative setting?
4. Why is it important to understand the distinct types of anesthetic drugs?
5. What complications may arise during the administration of anesthetic drugs and what is your role during anesthetic emergencies?

These SLOs are not approved for experiential credit.

Effective: Fall 2023