



BAKER COLLEGE
STUDENT LEARNING OUTCOMES

**VET2210 Introduction to Veterinary Surgical Procedures and
Nursing**
5 Semester Hours

Student Learning Outcomes & Enabling Objectives

1. Outline patient care procedures and common therapeutic techniques in small animal species.
 - a. Characterize the appropriate venipuncture technique for treatment or blood sampling.
 - i. Cephalic (dog, cat)
 - ii. Jugular (dog, cat)
 - iii. Saphenous (dog, cat)
 - b. Characterize the appropriate technique for urine collection in small animal patients.
 - i. Collect voided urine sample
 - ii. Perform cystocentesis
 - iii. Catheterize a male dog
 - c. Demonstrate an understanding of parenteral injection techniques and sites.
 - i. Subcutaneous (dog, cat)
 - ii. Intramuscular (dog, cat)
 - iii. Intravenous (dog, cat)
 - d. Demonstrate the administration of enteral medications.
 - i. Hand pilling (dog, cat)
 - ii. Liquid medication
 - iii. Gastric intubation (small animal)
 - e. Demonstrate common sample collection methods in small animals.
 - i. Skin scrapings
 - ii. Dermatophytes
 - iii. Collect and prepare canine vaginal smears
2. Summarize the principles of fluid therapy.
 - a. Demonstrate the administration of subcutaneous fluids
 - b. Demonstrate the placement, maintenance and care of IV catheters
 - i. cephalic
 - ii. saphenous
 - c. Develop familiarity with fluid delivery systems
 - d. Determine and maintain fluid infusion rate and monitor patient hydration status
3. Explain the concepts of wound management and orthopedic stabilization.
 - a. Apply and remove bandages and splints
 - b. Identify the procedures and related equipment associated with orthopedic procedures.

- c. Outline the steps involved in wound management
 - d. Explain wound classification and healing associated with each classification.
4. Facilitate all phases of small animal anesthesia.
- a. Calculate dosages of appropriate anesthetic related drugs
 - b. Complete controlled substance log
 - c. Administer anesthetic related drugs (injection, endotracheal tube, mask)
 - d. Place endotracheal tubes in patients, using a laryngoscope
 - e. Utilize clinical signs and appropriate equipment to monitor patient status during anesthetic procedures
 - f. Safely administer parenteral drugs and monitor therapeutic response.
5. Evaluate anesthetic delivery equipment.
- a. Demonstrate the use of anesthetic machines.
 - i. Identify the components of the anesthetic machine.
 - ii. Describe the function of each component.
 - iii. Distinguish between open, semi-open, semi-closed and closed systems (including rebreathing systems, non-rebreathing systems and masks)
 - iv. Calculate flow rate and rebreathing bag size for small animal patients.
 - v. Identify the induction and maintenance settings for various inhalation anesthetics.
 - b. Explain the importance of safety protocols when working with inhalation anesthetic.
 - i. Scavenging systems
 - ii. Gas sources
6. Summarize anesthetic monitoring instruments and equipment.
- a. Describe the operation of various monitoring devices.
 - i. Pulse Oximeter
 - ii. Capnometer
 - iii. Esophageal Stethoscope
 - iv. ECG
 - v. Blood Pressure Monitoring Device
 - vi. Temperature Monitoring Device
 - b. Determine normal values and readings of various monitoring devices.
 - c. Explain the consequences of abnormal readings.
 - i. Respond appropriately to patients in compromised states.
7. Explain routine surgical procedures and related equipment.
- a. Identify patients admitted for surgical procedures.
 - i. Create and maintain physical and electronic (utilizing veterinary software) medical records/consent forms from admission to discharge
 - ii. Review pre-operative evaluations
 - iii. Evaluate current patient status
 - iv. Organize and implement anesthesia
 - b. Express the methods for preparing and positioning animals for common surgical procedures.
 - i. Demonstrate bladder palpation and express

- ii. Ensure the surgical site has been prepared using aseptic technique
- 8. Integrate all aspects of patient management for common anesthetic procedures.
 - a. Distinguish between routine surgical procedures and related equipment.
 - i. OHE (dog, cat)
 - ii. Castration (dog, cat)
 - iii. C-section all common species
 - iv. Orthopedic procedures
 - v. Orchiectomy all common species
 - vi. Tail docking
 - vii. Onychectomy (dog, cat)
 - viii. Laparotomies all common species
 - ix. Dystocias in common species
 - x. Prolapsed organs common types, species, and incidence
 - b. Perform dental prophylaxis (manual and machine)
 - i. Understand client CE regarding home care
- 9. Model proper technique while providing surgical assistance.
 - a. Demonstrate proper operating room conduct and asepsis
 - b. Assist with care of exposed tissues and organs
 - c. Diagram proper preparation, handling and passing of surgical instruments and supplies
 - d. Classify basic suture materials, types, sizes, and suturing techniques
- 10. Organize postoperative care protocols.
 - a. Assess pain management protocols
 - b. Prepare medications for dispensing
 - c. Create discharge instructions
 - d. Explain adequate postoperative nutrition
- 11. Support the maintenance of asepsis.
 - a. Prepare gowns, masks, gloves, and drapes
 - b. Operate and maintain autoclaves
 - c. Sterilize instruments and supplies using appropriate methods
 - d. Perform pre-surgical set-up
 - e. Identify and know proper use for instruments
 - f. Provide operating room sanitation and care
 - g. Perform post-surgical cleanup (e.g. equipment, instruments, room, proper disposal of hazardous medical waste)

These SLOs are not approved for experiential credit.

Effective: Fall 2017