



BAKER COLLEGE
STUDENT LEARNING OUTCOMES

**VET2310 Advanced Veterinary Surgical
Procedures and Nursing
6 Semester Credit Hours**

Student Learning Outcomes and Enabling Objectives

1. Summarize different techniques of physical therapy administration.
 - a. Summarize uses of hydrotherapy.
 - b. Summarize physical therapy for the post-operative patient.
 - c. Summarize physical therapy for orthopedic conditions.
 - d. Summarize physical therapy for neurological conditions.
2. Characterize care of the recumbent patient.
 - a. Describe sequelae that develop in chronically recumbent patients.
 - b. Describe methods to prevent sequelae from developing in recumbent patients.
3. Analyze the maintenance of indwelling tubes.
 - a. Analyze maintenance of the thoracostomy tube.
 - b. Analyze maintenance of the tracheostomy.
 - c. Analyze the maintenance of the esophagostomy tube.
4. Evaluate the procedures to perform humane euthanasia.
 - a. Evaluate appropriate paperwork.
 - b. Evaluate appropriate methods of euthanasia.
 - c. Evaluate appropriate aftercare recommendations.
 - d. Illustrate the technician's role in euthanasia and client bereavement.
5. Explain the procedure for removal of casts.
 - a. Explain appropriate restraint for removal of casts.
 - b. Describe appropriate tools necessary for removal of casts.
6. Summarize emergency protocols, various emergency techniques, and the proper maintenance of supplies and equipment.
 - a. Describe the procedure for triage.

- b. Recognize and respond to an emergency situation.
 - i. Simulate first aid and cardiopulmonary resuscitation.
 - ii. Demonstrate use of ambu-bag.
 - iii. Demonstrate application of emergency splints and bandage.
 - iv. Demonstrate an understanding of how to resuscitate with anesthetic antagonists in emergency situation.
 - c. Construct a plan for maintenance of emergency medical supplies/crash cart.
 - d. Describe the uses and dangers of a ventilator and defibrillator.
 - e. Describe the procedure for blood transfusions.
7. Document objective patient data.
 - a. Acquire a thorough patient history.
 - b. Acquire temperature of dog/cat.
 - c. Acquire pulse of dog/cat.
 - d. Acquire respiration rate of dog/cat.
 - e. Demonstrate the ability to auscultate heart of dog/cat.
 - f. Demonstrate the ability to auscultate lungs of dog/cat.
 - g. Classify hydration status of dog/cat.
8. Specify the correct care of exposed tissue and organs during surgery.
 - a. Demonstrate appropriate control of hemorrhage from organs and tissues.
 - b. Demonstrate appropriate handling of organs during surgery.
9. Demonstrate the ability to properly pass instruments and supplies during surgery.
 - a. Demonstrate aseptic passing of instruments while gowned and gloved.
 - b. Demonstrate aseptic passing of instruments while not gowned and gloved.
10. Illustrate basic suturing techniques.
 - a. Use a model to demonstrate simple interrupted suture technique.
 - b. Use a model to demonstrate simple continuous suture technique.
11. Model the ability to calculate and administer medications related to anesthesia.
 - a. Demonstrate the ability to calculate and administer pre-anesthetic medications.
 - b. Demonstrate the ability to calculate and administer injectable analgesics, sedatives, and anesthetics.
12. Facilitate induction and maintenance of general anesthesia.
 - a. Demonstrate induction and maintenance of general anesthesia using IV anesthetics.
 - b. Demonstrate induction and maintenance of general anesthesia using inhalant anesthesia and anesthetic machines.
 - c. Demonstrate induction using a chamber.

- d. Demonstrate induction using a mask.
 - e. Demonstrate placement and maintenance of endotracheal tube.
 - f. Demonstrate low pressure check of anesthetic machine.
 - g. Demonstrate appropriate use of anesthetic machine to deliver and maintain anesthesia.
13. Illustrate proper anesthetic delivery and use of monitoring equipment.
- a. Demonstrate the use of esophageal stethoscope.
 - b. Demonstrate the use of pulse oximeter.
 - c. Demonstrate the use of a blood pressure unit.
 - d. Explain mechanical ventilation.
 - e. Demonstrate the use of ECG.
 - f. Demonstrate maintenance procedures for anesthetic equipment.
14. Specify post-operative monitoring technician responsibilities.
- a. Demonstrate post-operative monitoring of anesthetized patient
 - b. Demonstrate recovery of the anesthetized patient.
15. Manage the administration of post-operative pain management.
- a. Demonstrate appropriate preparation of medication.
 - b. Demonstrate appropriate delivery of medication.
16. Summarize the use and maintenance of flexible and rigid endoscopes.
- a. Summarize general care of endoscopes.
 - b. Summarize general uses of endoscopes.
17. Summarize the use and maintenance of cautery and suction machines.
- a. Summarize general care of cautery and suction machines.
 - b. Summarize general uses for cautery and suction machines.
18. Summarize organic and inorganic substances that cause toxicity.
- a. Calculate toxic doses.
19. Develop hospital nutrition protocols.
- a. Present nutrition protocol.
20. Differentiate the techniques used in equine and large animal anesthesia from those performed during small animal anesthesia.
- a. Describe large animal field anesthesia.
 - b. Describe large animal anesthesia in an operating room.

21. Assess the effect of personality on workplace dynamics.
 - a. Utilize a workplace personality profile.
 - b. Evaluate results of personality profile.

22. Illustrate techniques used to build client rapport.
 - a. Demonstrate active listening techniques.
 - b. Demonstrate appropriate oral communication with a client.

23. Create discharge instructions of a medical case.
 - a. Provide written discharge instructions.
 - b. Dramatize presenting discharge instructions to a client.

Big Ideas and Essential Questions

Big Ideas

- Administration of physical therapy and recumbent patient care
- Care of indwelling tubes
- Euthanasia
- Emergency protocols and equipment
- Patient objective data
- Care of exposed tissues in surgery
- Pass instruments and supplies in surgery
- Calculate and administer anesthetic related medications
- Induction, maintenance, and monitoring of anesthesia
- Post-op analgesia and monitoring
- Use and care of endoscope, cautery, and suction machines.
- Nutrition protocols
- Large animal anesthesia
- Personality and behavior
- Client rapport and medical instruction

Essential Questions

1. How do you determine the modality of physical therapy for individual patients?
2. Why do indwelling tubes require special care and maintenance?
3. How do the approved methods of euthanasia vary for different species?

4. What is the purpose of creating and understanding protocols for treating emergency patients?
5. What is the technician's role in obtaining objective data?
6. In which ways do physical exams vary between species?
7. Why do tissues exposed during surgery require specific care?
8. What is the importance of proficiency in passing instruments and supplies in surgery?
9. What role does the technician play to ensure asepsis in the surgical suite?
10. What is the technician's role in induction, maintenance, and monitoring anesthesia?
11. What is the importance of understanding pre- and post-op patient care?
12. Why does surgically related equipment require exacting care?
13. How is nutrition an essential factor for the surgical patient?
14. How do the protocols, medications, and monitoring procedures differ between large and small animal species?
15. What is the significance of understanding personality variables between yourself and your coworkers?
16. What is the technician's function in explaining medical instructions to clients?

These SLOs are not approved for experiential credit.

Effective: Summer 2023