BAKER COLLEGE
STUDENT LEARNING OUTCOMES

VET 2150 Veterinary Pharmacology

5 Semester Hours

Student Learning Outcomes and Enabling Objectives

1. Accurately perform pharmacological calculations
2. Classify the generic and trade names (if applicable) of drugs used for nervous system disorders.
    a. Identify routes of administration and clinical uses.
    b. Describe the mechanism of action.
    c. Recognize contraindications and common side effects.
3. Classify the generic and trade names (if applicable) of drugs used for cardiovascular system disorders.
    a. Identify routes of administration and clinical uses.
    b. Describe the mechanism of action.
    c. Recognize contraindications and common side effects
4. Classify the generic and trade names (if applicable) of drugs used for respiratory system disorders.
    a. Identify routes of administration and clinical uses.
    b. Describe the mechanism of action.
    c. Recognize contraindications and common side effects
5. Classify the generic and trade names (if applicable) of drugs used for urinary system disorders.
    a. Identify routes of administration and clinical uses.
    b. Describe the mechanism of action.
    c. Recognize contraindications and common side effects
6. Classify the generic and trade names (if applicable) of drugs used for gastrointestinal system disorders.
    a. Identify routes of administration and clinical uses.
    b. Describe the mechanism of action.
    c. Recognize contraindications and common side effects
7. Classify the generic and trade names (if applicable) of drugs used for endocrine system disorders.
    a. Identify routes of administration and clinical uses.

    b. Describe the mechanism of action.
    c. Recognize contraindications and common side effects
8. Classify the generic and trade names (if applicable) of drugs used for reproductive system disorders.
    a. Identify routes of administration and clinical uses.
    b. Describe the mechanism of action.
    c. Recognize contraindications and common side effects
9. Classify the generic and trade names (if applicable) of drugs used for ophthalmic disorders.
    a. Identify routes of administration and clinical uses.
    b. Describe the mechanism of action.
    c. Recognize contraindications and common side effects
10. Classify the generic and trade names (if applicable) of drugs used for otic disorders.
    a. Identify routes of administration and clinical uses.
    b. Describe the mechanism of action.
    c. Recognize contraindications and common side effects
11. Classify the generic and trade names (if applicable) of drugs used for dermatological disorders
    a. Identify routes of administration and clinical uses.
    b. Describe the mechanism of action.
    c. Recognize contraindications and common side effects
12. Classify the generic and trade names (if applicable) of anitimicrobial drugs.
    a. Identify routes of administration and clinical uses.
    b. Describe the mechanism of action.
    c. Recognize contraindications and common side effects
13. Classify the generic and trade names (if applicable) of antiparasitic drugs.
    a. Identify routes of administration and clinical uses.
    b. Describe the mechanism of action.
    c. Recognize contraindications and common side effects
14. Classify the generic and trade names (if applicable) of drugs used for pain relief and inflammation.
    a. Identify routes of administration and clinical uses.
    b. Describe the mechanism of action.
    c. Recognize contraindications and common side effects
15. Classify the generic and trade names (if applicable) of blood modifying drugs
    a. Identify routes of administration and clinical uses.
    b. Describe the mechanism of action.
    c. Recognize contraindications and common side effects
16. Classify the generic and trade names (if applicable) of immunosuppressant and antineoplastic drugs
    a. Identify routes of administration and clinical uses.

    b. Describe the mechanism of action.
    c. Recognize contraindications and common side effects
17. Classify the generic and trade names (if applicable) of anesthetic drugs.
    a. Identify routes of administration and clinical uses.
    b. Describe the mechanism of action.
    c. Recognize contraindications and common side effects
18. Summarize principles of fluid therapy.
    a. Differentiate crystalloids and colloids.
    b. Identify clinical uses.
19. Demonstrate the procedures for identifying, counting, handling, labeling and packaging dispensed drugs.
    a. Determine sources for locating information on unfamiliar drugs.
    b. Accurately count dispensed drugs.
    c. Accurately label dispensed drugs.
    d. Package drugs appropriately for dispensing.
20. Demonstrate the procedures for the correct handling and storage of controlled substances.
    a. Store controlled substances correctly.
    b. Label controlled substances correctly for appropriate logging.
    c. Illustrate the procedures for correct controlled substance log maintenance.
21. Explain legal implications of use of pharmaceuticals in veterinary medicine as they pertain to controlled substances, food animal production and compounding of drugs.
    a. Define the term withdrawal time.
    b. Define off-label drug use.
    c. Describe the role of the DEA in oversight of use of controlled substances.
    d. Discuss the role of compounding of drugs in veterinary medicine.
    e. Define Veterinary-client-patient relationship.
    f. Demonstrate the appropriate procedure to safely handle and dispose of biologics and therapeutic agents, pesticides, and hazardous waste according to governmental regulations.

Big Ideas and Essential Questions

Big Ideas

- Dosage Calculations
- Drug Classifications
- Pharmaceutical legal Implications
- Inventory management and control

Essential Questions

1. What mathematical formulas are used to calculate drug dosages?
2. How are common drugs used as therapeutics in various body systems (nervous, cardiovascular/respiratory, urinary/reproductive, endocrine, gastrointestinal, integumentary, otic/ophthalmic and immune systems)?
3. What are the legal implications of the use of pharmaceuticals in veterinary medicine?
4. What management tools are used for inventory control in a veterinary pharmacy?

These SLOs are not approved for experiential credit.

Effective: Fall 2021