BAKER COLLEGE
STUDENT LEARNING OUTCOMES

VET 1210 Large Animal Procedures and Nursing
2 Semester Credit Hours

Student Learning Outcomes and Enabling Objectives

1. Identify common permanent identification of the following species
    a. Recognize common domestic large animal species and breeds.
        i. Equine breeds
        ii. Bovine breeds.
        iii. Caprine breeds.
        iv. Ovine breeds.
        v. Swine breeds.
2. Summarize the principles of restraint for large animals.
    a. Demonstrate equine restraint techniques.
        i. Apply equine halter
        ii. Tie and lead a horse
        iii. Apply twitch (horses) group
    b. Demonstrate bovine restraint techniques.
        i. Apply bovine tail restraint
        ii. Apply bovine halter
        iii. Operate cattle chute group
    c. Explain restraint of small ruminants
        i. Apply small ruminant halter
    d. Explain restraint of pigs.
    e. Explain the use point of balance and flight zone to move large animals into a catch pen, alleyway, chute, or trailer
3. Perform a physical exam on small/large ruminants and equine.
    a. Obtain rectal temperature and classify as normal or abnormal.
    b. Palpate pulse and classify as normal or abnormal.
    c. Determine respiration rate and classify as normal or abnormal
    d. Auscultate heart/lungs and classify as normal or abnormal
    e. Auscultate abdomen and classify as normal or abnormal
    f. Determine mucus membrane color and classify them as normal or abnormal.
    g. Perform a capillary refill time and classify as normal or abnormal
    h. Identify normal dentition
4. Explain patient care procedures and common therapeutic techniques in large animal

species.

a. Describe the common vaccines practices for the following species
    i. Equine
    ii. Cattle
    iii. Small ruminants
    iv. Porcine
b. Perform venipuncture for treatment or blood sampling.
    i. Demonstrate jugular venipuncture (horse and ruminant)
    ii. Explain coccygeal venipuncture (cattle)
c. Explain the procedure for jugular catheter placement in horses.
d. Explain procedure and application for use of enteral medications by:
    i. Demonstrate the use of a balling gun (ruminant)
    ii. Demonstrate the use of a dose syringe (horse)
e. Demonstrate parenteral injection techniques and sites – subcutaneous, intramuscular, intradermal.
    i. Demonstrate intramuscular injection on horse
    ii. Demonstrate intravenous injection on horse and cattle
    iii. Demonstrate subcutaneous injection – ruminant
    iv. Describe the application of intradermal testing – cattle
f. Explain common equine procedures
    i. Describe dental floating and extraction
    ii. Determine use of oral speculum and nasogastric gastric intubation
    iii. Describe castration with emasculatome/emasculator
    iv. Demonstrate therapeutic and preventative bandaging techniques
    v. Define Hoof trimming and shoeing
        1. Identify the application of ascending nerve blocks
    vi. Explain the preparation of a mare for vaginal examination and cervical culture.
        1. Determine when the Caslick's procedure is appropriate
    vii. Explain equine sheath cleaning
g. Explain common ruminant procedures
    i. Explain the usage of an oral speculum and stomach tube (ruminant,).
    ii. Perform the procedure for collection of milk samples and California mastitis testing.
    iii. Explain intramammary treatment administration methods.
    iv. Summarize breeding/reproduction techniques
    v. Define LDA corrective procedures
    vi. Identify preventative procedures for hoof care
    vii. Describe dehorning
h. Explain common small ruminant procedures
i. Describe care of orphan animals
j. Describe nursing care of newborns
k. Describe the importance of diagnostic testing and parasite management
    i. Identify the FAMACHA and explain its use

        ii. Explain the use of a McMasters test
5. Summarize key nutritional factors in disease conditions (horse/pony/donkey/mule, cow)
    a. Name therapeutic foods
        i. Identify common grains and forages
    b. Define current developments in nutritional supplements and additives including benefits and potential toxicities
    c. Convert units of measurement for medication and nutritional supplements
6. Identify common regulatory agencies
    a. Locate the agencies that provide withdrawal times for large animal species
    b. Locate the agencies that determine reportable diseases

Big Ideas and Essential Questions

Big Ideas

- Breed recognition
- Physical exam and appropriate restraint techniques
- Collection of diagnostic specimens
- Common therapeutic and nursing techniques
- Nutrition
- Regulating large animal husbandry

Essential Questions

1. How do you differentiate breeds of large animals within each species?
2. How are the rules of safety applied to facilitate large animal restraint?
3. Why is an equine physical exam different from a ruminant physical exam?
4. What is the importance of correctly obtaining and processing diagnostic specimens?
5. In what ways do equine parenteral medication techniques differ from ruminant parenteral medication techniques?
6. What role does a technician play in large animal therapeutic procedures?
7. How is nutrition an essential factor in the profitability of food animals?
8. Why is governmental regulation of large animal husbandry essential?
