



BAKER COLLEGE
STUDENT LEARNING OUTCOMES

VET2050 Veterinary Pathology
4 Semester Credit Hours

Student Learning Outcomes and Enabling Objectives

1. Utilize medical terminology appropriately, as it relates to veterinary pathology.
 - a. Define medical terms.
 - b. Recognize common medical prefixes, suffixes and root words.
2. Compare and contrast the etiologic agents of disease.
 - a. Describe the basic biology of infectious agents.
 - b. Cite mechanisms of infection as they pertain to prions, viruses, bacteria, fungi and parasites.
3. Summarize the cellular and vascular response to inflammation.
 - a. Describe the role of inflammation in the process of healing and repair.
 - b. Identify the cardinal signs of inflammation.
 - c. Outline the sequence of events occurring in the inflammatory response.
 - d. Describe the differences between first, second and third intention healing processes.
4. Explain the function of the immune system.
 - a. Define humoral and cell-mediated immunity.
 - b. Describe the functions of all components involved humoral and cell-mediated responses.
 - c. Outline the sequence of events occurring in immunologic reactions.
 - d. Describe the types of hypersensitivity reactions.
5. Summarize the process of normal cellular growth.
 - a. Describe the mechanisms and stages of cellular growth and normal cell death.
 - b. Describe the means by which neoplasia alters cellular growth.
6. Detail the major components of preventative medicine.
 - a. Define husbandry.
 - b. Define sanitation.
 - c. Describe vaccination protocols for cats, dogs and large animals.
7. Detail the factors that predispose animals to disease.
 - a. Identify genetic factors of disease predisposition.
 - b. Identify dietary factors of disease predisposition.

- c. Identify environmental factors of disease predisposition.
 - d. Identify metabolic factors of disease predisposition.
- 8. Explain zoonotic diseases and their transmission.
 - a. Identify diseases transmitted as a result of exposure to affected animals and animal products for human use or consumption.
 - b. Recognize the zoonotic diseases to which animal health care workers, including veterinary technicians, are apt to be exposed.
 - c. Define epidemiology
 - d. Describe the pathophysiology, routes of transmission and means of preventing zoonoses.
- 9. Characterize common diseases affecting the musculoskeletal system.
 - a. Outline the etiology of various musculoskeletal diseases.
 - b. Outline the pathophysiology of various musculoskeletal diseases
 - c. Outline the diagnosis and treatment of various musculoskeletal diseases
- 10. Characterize common diseases affecting the cardiovascular system.
 - a. Outline the etiology of various cardiovascular diseases.
 - b. Outline the pathophysiology of various cardiovascular diseases.
 - c. Outline the diagnosis and treatment of various cardiovascular diseases.
- 11. Characterize common diseases affecting the respiratory system.
 - a. Outline the etiology of various respiratory diseases.
 - b. Outline the pathophysiology of various respiratory diseases.
 - c. Outline the diagnosis and treatment of various respiratory diseases.
- 12. Characterize common diseases affecting the digestive system.
 - a. Outline the etiology of various digestive diseases.
 - b. Outline the pathophysiology of various digestive diseases.
 - c. Outline the diagnosis and treatment of various digestive diseases.
- 13. Characterize common diseases affecting the nervous system.
 - a. Outline the etiology of various neurologic diseases.
 - b. Outline the pathophysiology of various neurologic diseases.
 - c. Outline the diagnosis and treatment of various neurologic diseases.
- 14. Characterize common diseases affecting the ocular system.
 - a. Outline the etiology of various ocular diseases.
 - b. Outline the pathophysiology of various ocular diseases.
 - c. Outline the diagnosis and treatment of various ocular diseases.
- 15. Characterize common diseases affecting the integumentary system.
 - a. Outline the etiology of various integumentary diseases.
 - b. Outline the pathophysiology of various integumentary diseases.
 - c. Outline the diagnosis and treatment of various integumentary diseases.
- 16. Characterize common diseases affecting the urinary system.
 - a. Outline the etiology of various urinary diseases.
 - b. Outline the pathophysiology of various urinary diseases.

- c. Outline the diagnosis and treatment of various urinary diseases.
- 17. Characterize common diseases affecting the reproductive system.
 - a. Outline the etiology of various reproductive diseases.
 - b. Outline the pathophysiology of various reproductive diseases.
 - c. Outline the diagnosis and treatment of various reproductive diseases.
- 18. Characterize common diseases affecting the endocrine system.
 - a. Outline the etiology of various endocrine diseases.
 - b. Outline the pathophysiology of various endocrine diseases.
 - c. Outline the diagnosis and treatment of various endocrine diseases.
- 19. Characterize common pansystemic diseases.
 - a. Outline the etiology of various pansystemic diseases.
 - b. Outline the pathophysiology of various pansystemic diseases.
 - c. Outline the diagnosis and treatment of various pansystemic diseases.

Big Ideas and Essential Questions

Big Ideas

- Causes of disease
 - Etiologic agents
 - Predisposing factors
 - Zoonoses
- Response to disease
 - Inflammatory process
 - Immune system
 - Preventive medicine
- Common diseases of organ systems

Essential Questions

1. What are the etiologic agents of disease?
2. What are zoonotic diseases and how are they transmitted and prevented?
3. How do the three mechanisms (inflammation, immune system, preventive medicine) function in response to disease?
4. What is the etiology, pathophysiology, diagnosis and treatment for diseases of major organ systems?

These SLOs are not approved for experiential credit.

Effective: Summer 2021