



BAKER COLLEGE

STUDENT LEARNING OUTCOMES

PTA 2250 Clinical Pathology
2 Semester Hours

Student Learning Outcomes and Enabling Objectives

At the completion of this course, the student will be able to perform the following outcomes with a minimum competency of 77% (C+) or better:

1. Understand clinical pathology of the body systems and the impact of various conditions on effective physical therapy treatment.
2. Understand diseases/conditions that impact more than one system and the effect on physical therapy interventions.
 - a. Describe pharmacological and nonpharmacological medical management of multiple system conditions.
 - b. Explore the impact of comorbidities/coexisting conditions on patient/client management.
 - c. Identify behavioral, social and environmental factors that impact disease management.
 - d. Understand the psychosocial and spiritual impact of disease and the impact on patient management.
3. Understand injury, inflammation and healing at the cellular, tissue and organ level for multiple systems and the impact on physical therapy treatment.
 - a. Describe the mechanisms of cell injury, types of cell injury and factors that affect healing.
 - b. Compare and contrast acute, subacute and chronic inflammation in terms of tissue adaptations, healing time frames, and impact on function for various organs.
4. Describe pathological conditions of the immune system including immunodeficiency, hypersensitivity, and autoimmunity, and the impact on physical therapy management.
5. Explain the role of the physical therapist assistant in treatment and prevention of infectious disease.
 - a. Understand the types of infectious microorganisms that cause disease
 - b. Describe the spread of infection and infection control practices.
 - c. Identify common signs and symptoms of infectious disease.
6. Examine the etiology, pathogenesis, clinical manifestations and medical management of cancer.
 - a. Explore the role of therapeutic exercise as a prevention modality for cancer.
7. Understand common disorders of the integumentary system and the impact on physical therapy treatment.
 - a. Describe wound healing including primary and secondary healing, factors that affect healing, and complications of healing.
 - b. Explain the definition, risk factors, pathogenesis, and clinical manifestations of pressure ulcers
 - c. Describe the classification of burns for adults and children.

- d. Identify the etiology, pathogenesis, clinical manifestations, complications, and treatment of burns.
8. Examine the etiology, pathogenesis, clinical manifestations and medical management of common disorders of the endocrine and metabolic systems.
 - a. Compare and contrast hyperthyroidism and hypothyroidism and the effect of each on physical therapy treatment
 - b. Describe the types and management of diabetes and the effects on patient care
 - c. Recognize red flags of metabolic or endocrine disorders to report to the physical therapist.
9. Identify signs and symptoms of common gastrointestinal conditions and the effect on physical therapy treatment.
10. Describe the signs and symptoms of common hematologic conditions and the effect on physical therapy treatment.
11. Identify the signs and symptoms of hepatic disease and the role of the hepatic , pancreatic and biliary systems in support of other body systems.
 - a. Differentiate between the types of hepatitis in terms of infection control and risk factors.
 - b. Describe the special implications for the PTA in treating patients with cirrhosis, gallbladder disease or pancreatic disorders.
12. Explore the common diseases and conditions of the renal, urologic and reproductive systems.
 - a. Describe the role of the renal system in maintaining homeostasis and the effect of kidney dysfunction.
 - b. Understand the role of physical therapy in the treatment of pelvic floor disorders
13. Understand the common diseases and conditions affecting the musculoskeletal system and the effect of exercise on these conditions.
 - a. Describe common infectious diseases of the musculoskeletal system in terms of clinical manifestations and management.
 - b. Compare and contrast various musculoskeletal neoplasms and the role of physical therapy.
14. Describe bone, joint, and soft tissue diseases and disorders in terms of etiology, pathogenesis, clinical manifestations and medical management.
 - a. Describe the classifications and various types of fractures, the healing process, potential complications and treatment.
 - b. Define the clinical manifestations of soft tissue lesions that impact movement and function.
 - c. Compare and contrast osteoarthritis, rheumatoid arthritis, and ankylosing spondylitis.
 - d. Describe metabolic bone diseases in terms of clinical management and effect on physical therapy.
 - e. Examine various connective tissue and muscle disorders that affect patients receiving physical therapy.
15. Summarize the pathology of the nervous system, with an emphasis on the clinical manifestations and the role of the PTA in treatment.
 - a. Compare and contrast damage and repair of the central nervous system versus the peripheral nervous system.
 - b. Identify common signs and symptoms of central nervous system infections.
 - c. Understand the clinical manifestations of upper versus lower motor neuron disease.

- d. Explore the role of the PTA in treatment of patients with degenerative diseases of the central nervous system.
 - e. Explore peripheral nerve pathologies commonly seen in the physical therapy setting and the role of the PTA in treatment.
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These SLOs are not approved for experiential credit.

Effective: Fall 2018