



BAKER COLLEGE

STUDENT LEARNING OUTCOMES

PTA2450 Orthopedic Interventions
2 Semester Credit 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. Discuss foundational concepts of manual therapy and principles of intervention.
 - a. Describe the relevance of tissue injury and stage of healing to the performance of manual techniques.
 - b. Explain the typical physiological response to various forms of manual therapy.
 - c. Discuss the benefits of manual therapy in the treatment of common orthopedic conditions.
 - d. Differentiate the various special tests for common orthopedic conditions as they relate to intervention techniques.
 - e. Discuss the impact of psychosocial factors on the utilization of manual therapy interventions.
2. Demonstrate the appropriate selection and application of various soft tissue mobilization techniques for commonly treated patient conditions.
 - a. Discuss the implications, contraindications and precautions for soft tissue mobilization of the extremities and trunk.
 - b. Select the appropriate soft tissue mobilization technique based on patient acuity, pathology, impairments and plan of care established by the physical therapist.
 - c. Demonstrate common massage strokes for treatment of soft tissue restrictions in the trunk and extremities including:
 - i. Petrissage
 - ii. Effleurage
 - iii. Cross friction massage
 - iv. Trigger point release
 - v. Functional massage
 - d. Adapt to the various psychological responses to touch and non-verbal communication, including differences based on culture.

3. Demonstrate effective joint mobilization techniques of the extremities to manage common orthopedic conditions in accordance with the plan of care established by the physical therapist.
 - a. Explain the indications, contraindications, and precautions for selected joint mobilization techniques as they relate to common orthopedic conditions of the extremities.
 - b. Select appropriate grade of joint mobilization based on patient acuity, pathology, impairments, goals and plan of care established by the physical therapist.
 - c. Perform joint mobilization techniques on the extremities in a safe and competent manner utilizing appropriate position, force and duration.
 - d. Demonstrate appropriate modification of techniques based on patient response and desired outcome.
 - e. Investigate evidence-based practice including current research, clinician's knowledge and skill, and patient's goals and values.
4. Perform manual spinal traction techniques in a safe and competent manner in accordance with the plan of care established by the physical therapist.
 - a. Explain the indications, contraindications, and desired therapeutic effects of various modes of traction.
 - b. Differentiate between sustained versus intermittent traction including clinical use and benefits of each type.
 - c. Demonstrate proper positioning of the patient and application of traction belt(s).
 - d. Demonstrate proper performance of manual spinal traction utilizing appropriate force and duration.
 - e. Demonstrate appropriate modification of techniques based on patient response and desired outcome.
 - f. Demonstrate proper instruction in self-traction techniques of the thoracic and lumbar spines.

Big Ideas and Essential Questions

Big Ideas

- Principles of manual therapy intervention
- Soft Tissue Mobilization
- Development of individualized manual therapy program
- Spinal Traction

Essential Questions

1. How does tissue injury and stage of healing impact manual therapy interventions?

2. How does a Physical Therapist Assistant choose appropriate soft tissue mobilization interventions?
3. How does a Physical Therapist Assistant create an effective, individualized manual therapy program to address orthopedic injuries or conditions?
4. What role do spinal traction play in the rehabilitation of orthopedic conditions involving the spine?

These SLOs are not approved for experiential credit.

Effective: Summer 2023