



BAKER COLLEGE
STUDENT LEARNING OUTCOMES
DMS2410 Superficial Structures and Ultrasound Procedures
2 Semester Credit Hours

Student Learning Outcomes & Enabling Objectives

1. Differentiate prostate, penis and scrotal anatomy using 2D, PW, and CW Mode exam.
 - a. Analyze sonographic appearance, clinical indications, and sonographic technique used for evaluation of the scrotum, prostate, and penis.
 - b. Identify lab values associated with scrotum, prostate, and penis.
 - c. Identify pathology, and pathophysiology associated with scrotum, prostate, and penis
 - d. Describe sonographic technique used for an ultrasound guided prostate biopsy.

2. Differentiate thyroid and parathyroid anatomy using 2D, PW, and CW Mode exam.
 - a. Analyze sonographic appearance, clinical indications, used for evaluation of the thyroid and parathyroid gland.
 - b. Identify lab values associated with thyroid and parathyroid disease.
 - c. Identify pathology and pathophysiology of the thyroid, and parathyroid glands.
 - d. Recognize normal and abnormal anatomical structures of the neck.

3. Differentiate abdominopelvic wall, soft tissue, and GI tract anatomy using 2D, PW, and CW Mode exam.
 - a. Analyze sonographic appearance, clinical indications, and sonographic technique used for evaluation of the abdominopelvic wall, and GI tract.
 - b. Identify lab values associated with abdominopelvic wall, and GI tract pathology.
 - c. Identify pathologies associated with the abdominopelvic wall, cavity, and GI tract.

4. Differentiate musculoskeletal anatomy using 2D, PW, and CW Mode exam.
 - a. Analyze sonographic appearance, clinical indications, and sonographic techniques used for evaluation of the musculoskeletal system.
 - b. Identify pathology associated with musculoskeletal system.

5. Identify normal and abnormal appearance of breast anatomy using 2D, PW, and CW Mode exam.
 - a. Identify types of breast conditions, and pathology.
 - b. Analyze the roles of mammography, sonography, and computerized tomography, and magnetic resonance imaging of the breast.
 - c. Identify various interventional procedures utilized in breast pathology diagnosis

6. A Differentiate the Non-Cardiac Chest anatomy using 2D, PW, and CW Mode exam.

- a. Analyze the anatomy of the Non-Cardiac Chest.
 - b. Identify Ultrasounds role, appearance, and anatomy of the Non-Cardiac Chest.
7. Determine the role, and sonographic technique used in interventional procedures using 2D, PW, and CW Mode exam.
- a. Analyze clinical indications, and laboratory values for performing invasive procedures.
 - b. Illustrate various complications associated with intentional procedures.
8. Demonstrate appropriate and professional behavior expected at a clinical site.
- a. Apply HIPPA guidelines.
 - b. Utilize professional behavior to demonstrate effective verbal and nonverbal communication skills with patient, family, and staff to provide patient care and comfort.

Big Ideas and Essential Questions

Big Ideas

- Professional Behavior/Patient Care
- 2D Mode, PW Mode and CW Mode
- Organ Measurements
- Normal and Abnormal Anatomy
- Exam Protocol

Essential Questions

1. How do you properly perform a 2D, PW, and CW-Mode exam?
2. How do you properly perform measurements on specific organs?
3. What does professional behavior look like in the Diagnostic Medical Sonography field?

These SLOs are approved for experiential credit.

Effective: Fall 2023