



BAKER COLLEGE
STUDENT LEARNING OUTCOMES
DMS 1110 Abdominal Sonography
4 Semester Credit Hours

Student Learning Outcomes & Enabling Objectives

1. Analyze normal and abnormal anatomy of the biliary system, liver, pancreas, spleen, adrenal glands, kidneys and lower urinary tract using 2D, PW, and CW Mode exam.
 - a. Analyze sonographic appearance and technique used for evaluation of normal and abnormal biliary system, liver, pancreas, spleen, adrenal glands, kidneys, and lower urinary tract.
 - b. Differentiate function, clinical indications, and laboratory values associated with biliary system, liver, pancreas, spleen, adrenal glands, and urinary tract disease.
 - c. Differentiate pathologies associated with the biliary system, liver, pancreas, spleen, adrenal glands, kidneys, and lower urinary tract.
 - d. Identify normal and abnormal flow characteristics and waveforms for the biliary system, liver, spleen, and urinary tract system.
2. Differentiate indications for organ transplant using 2D, PW, and CW Mode exam.
 - a. Analyze sonographic appearance, clinical indications, and sonographic technique used to evaluate an organ transplant.
 - b. Identify laboratory values associated with the organ transplant.
 - c. Analyze Doppler characteristics associated with pre and post-transplant.
3. 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?
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These SLOs are approved for experiential credit.

Effective: Fall 2023