

BAKER COLLEGE STUDENT LEARNING OUTCOMES

CAS2010A Cross Sectional Sonography 5 Semester Credit Hours

Student Learning Outcomes and Enabling Objectives

- 1. Explore cardiac disease states
 - a. Compare symptoms, causes and treatments of different cardiac diseases states
- 2. Interpret heart sounds in cardiac auscultation and pulse traces
 - a. Explain the cardiac auscultation exam
 - b. Identify auscultation areas
 - c. Identify normal heart
 - d. Identify abnormal heart sounds
 - e. Identify abnormal pulse traces
- 3. Interpret the basic Color flow and Doppler exam
 - a. Differentiate between normal and abnormal flows
- 4. Demonstrate the basic 2D exam and measurements
 - a. Obtain quality parasternal images.
 - b. Obtain quality apical images.
 - c. Obtain quality subcoastal and SSN images.
 - d. Identify cardiac wall segments
 - e. Identify cardiac structures in 2D scan planes
 - f. Calculate 2D measurements as required.
- 5. Demonstrate the M-mode exam and measurements
 - a. Obtain quality M-mode traces
 - b. Identify cardiac structures in M-mode traces
 - c. Calculate M-mode measurements as required
- 6. Demonstrate professional communication skills
 - a. Apply verbal and non-verbal communication skills to professional situations.
- 7. Examine proper ergonomics for sonographers
 - a. Explain the role of proper ergonomics in sonography safety
 - b. Demonstrate proper ergonomic techniques

Big Ideas and Essential Questions

Big Ideas

- 2d exam
- M-mode exam
- Color flow and Doppler exam
- Ergonomics
- Cardiac disease
- Heart sounds
- Professional communication skills

Essential Questions

- 1. How do you properly perform a quality basic 2d and m-mode exam?
- 2. What role does ergonomics play in sonography?
- 3. What are the symptoms, causes and treatments of various cardiac disease states?
- 4. How are heart sounds and doppler affected by disease states?
- 5. Why is it important to have professional communication in healthcare?

These SLOs are not approved for experiential credit.

Effective: Spring 2021