



BAKER COLLEGE
STUDENT LEARNING OUTCOMES

CAS 2210A Cardiac Ventricular Disease in Sonography
4 Semester Hours

Student Learning Outcomes & Enabling Objectives

1. Explain ventricular and pericardial disease.
 - a. Interpret language.
 - b. Interpret terminology.
 - c. Identify differential diagnosis
2. Explain pericardial anatomy and disease.
 - a. Identify signs, symptoms and causes.
 - b. Identify effusion
 - c. Identify tamponade
 - d. Identify constrictive pericarditis
 - e. Identify echo/Doppler findings and associated measurements.
3. Explain Ischemic and Coronary Artery Disease (CAD).
 - a. Identify signs, symptoms and risk factors.
 - b. Identify cardiac wall segments according to the American Society of Echo (ASE).
 - c. Identify coronary arteries according to the ASE.
 - d. Identify systolic function and regional wall motion abnormalities (RWMA).
 - e. Identify complications associated with CAD.
 - f. Identify echo/Doppler findings and associated measurements.
4. Explain dilated cardiomyopathies (DCM).
 - a. Identify signs, symptoms and causes.
 - b. Identify echo/Doppler findings and associated measurements.
5. Explain hypertrophic cardiomyopathies (HCM).
 - a. Identify signs, symptoms and causes.
 - b. Identify the different types of hypertrophy:
 - i. concentric
 - ii. asymmetrical
 - iii. obstructive
 - c. Identify echo/Doppler findings and associated measurements.
6. Explain restrictive cardiomyopathies (RCM).
 - a. Identify signs, symptoms and causes.
 - b. Identify different types of RCM
 - c. Identify echo/Doppler findings and associated measurements.
7. Explain diastolic dysfunction (DD).

- a. Identify MV flow and it's classifications from grade I – grade IV
 - b. Identify Tissue Doppler Imaging findings (TDI)
 - c. Identify pulmonary vein flow.
 - d. Identify left atrial volumes.
 - e. Compare findings to left ventricular function (LVF).
8. Explain the right heart exam
- a. Identify the importance of a right heart exam
 - b. Identify echo/Doppler findings and associated measurements.

These SLOs are approved for experiential credit.

Effective: Spring 2020