

Comprehensive Sonographer Curriculum Resource: Topics Outline

- Embryology, Normal Anatomy, & Echocardiography Exam
- Physics & Instrumentation
- Ergonomic Techniques
- Cardiovascular Hemodynamics
- Quantitation Principles, M-Mode, 2D, Doppler, Calculations
- Systolic Ventricular Function / Coronary Artery Disease
- Diastolic Ventricular Function
- Valvular Heart Disease
 - Aortic Stenosis
 - Aortic Regurgitation
 - Mitral Stenosis
 - Mitral Regurgitation
 - Tricuspid Valve
 - Prosthetic Heart Valves
- Endocarditis
- Cardiomyopathies
 - Hypertrophic Cardiomyopathy
 - Infiltrative Cardiomyopathy
 - Other Cardiomyopathies
 - LVNC
 - Systemic / Hypertensive Disease
 - Pulmonary Hypertensive Disease
- Pericardial Disease
- Cardiac Tumors / Masses
- Diseases of the Aorta
- Adult Congenital Disease
- Stress Echo
- Transesophageal Echo (TEE)
- 3D Echo
- Strain Imaging
- Ultrasound Enhancing Agents (UEA)
- Structural Heart Disease

- **Quality Control & Improvement**
- **Professional Development**
- **MISC. Topics**
 - **Athlete's Heart**
 - **Heart Failure**
 - **Heart Transplant**
 - **Cardiac Assist Devices**
 - **Multi-Modality Imaging**