ECHO2100 - Adult Echocardiography III

Credits:	3 (3/0/0)
Description:	This course includes an in-depth review of the pathophysiology of heart disease, including congenital heart defects. The role of ultrasound enhancement agents and exercise echocardiography is discussed. Quantitative echocardiography is addressed, including regurgitation assessment, 3D imaging and transesophageal echocardiography.
Prerequisites:	• ECHO1110 • ECHO1115 • ECHO1125
Corequisites:	
Pre/Corequisites*:	
Competencies:	1. List the different types of cardiomyopathies. 2. Describe common adult congenital abnormalities that develop within the heart. 3. Analyze 2D and Doppler findings in common arrhythmias. 4. List commonly encountered artifacts seen by echocardiography. 5. List the type of exercise testing in the echocardiography laboratory. 6. Analyze cases of congenital heart disease. 7. Explain the use of ultrasound enhancement agents (UEA). 8. Describe the application of transesophageal echocardiography (TEE). 9. Apply calculations for the quantitative assessment of mitral valve regurgitation. 10. Demonstrate how to disinfect a TEE probe. 11. Describe the role of the cardiac sonographer during the TEE procedure. 12. Analyze different types of wall motion abnormalities in myocardial disease. 13. Describe how 3D imaging is applied in clinical practice. 14. Demonstrate how to acquire and interpret 3D imaging. 15. Describe ultrasound findings associated with ischemic heart disease. 16. Demonstrate how exercise stress testing is combined with echocardiography.
MnTC goal areas:	None

**Can be taking as a Prerequisite or Corequisite.*

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