

## ECHO2105 - Adult Echocardiography Lab III

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| Credits:           | 2 (0/2/0)   |
| Description:       | Students will continue to build on the ultrasound scanning skills learned in ECHO1105 and ECHO1115. Content includes continued skill enhancement of a full adult transthoracic echocardiography scanning protocol. In addition, students will continue to master the content of the required measurements to determine the severity of cardiovascular disease.  |
| Prerequisites:     | <ul style="list-style-type: none"> <li>• ECHO1100</li> <li>• ECHO1100</li> <li>• ECHO1110</li> <li>• ECHO1115</li> <li>• ECHO1120</li> <li>• ECHO1125</li> </ul>  |
| Corequisites:      | <ul style="list-style-type: none"> <li>• ECHO2100</li> </ul>  |
| Pre/Corequisites*: |   |
| Competencies:      | <ol style="list-style-type: none"> <li>1. Evaluate patient information that is obtained prior to performing an echocardiogram.</li> <li>2. Perform proper body mechanics and ergonomics during an ultrasound exam.</li> <li>3. Practice the two-dimensional (2D) views required for a complete echocardiogram.</li> <li>4. Interpret measurements of heart size and function using 2D imaging.</li> <li>5. Produce the echocardiographic views required to assess ischemic disease.</li> <li>6. Interpret Doppler waveforms for an assessment of diastolic function.</li> <li>7. Understand and show the echocardiographic views required for pericardial disease assessment.</li> <li>8. Apply Doppler principles to ultrasound images.</li> <li>9. Interpret Color Doppler for the assessment of valvular disease.</li> <li>10. Assess Doppler waveforms in valvular stenosis.</li> <li>11. Demonstrate the use of M-mode for an assessment of heart structure.</li> <li>12. Demonstrate a systematic approach to a 2D and Doppler exam.</li> <li>13. Acquire the imaging protocol for a complete echocardiographic examination.</li> </ol> |
| MnTC goal areas:   | None  |

\*Can be taking as a Prerequisite or Corequisite.