Y34 Surgery - Cardiothoracic
Course ID: MED 797BI/997BI
Discipline: Surgery
Prerequisites: MED 810 General Surgery Clerkship
MED 820 Hospital Medicine Clerkship
MED 830 Psychiatry Clerkship
MED 840 OB/GYN Clerkship
AND
MED 850 Pediatrics Clerkship
Available Sites: Saginaw, Midland
Duration: 4 weeks

Description
The purpose of the Cardiothoracic Surgery elective rotation is to prepare the student to recognize commonly encountered surgical problems in cardiovascular diseases and to become familiar with diagnostic techniques and treatment options for coronary artery disease and acquired valvular disease. Students will also learn when it is appropriate to initiate a referral to a cardiovascular surgeon.

Key Objectives

• Fully describe cardiac anatomy, particularly coronary arterial supply and valve function.
• Describe the pathophysiology, clinical presentation and diagnostic evaluation of coronary artery disease.
• Describe new treatment options for valvular heart disease, including TAVR.
• Describe the pathophysiology, clinical presentation, and indications for surgery in acquired aortic and mitral valvular disease.
• Describe basic principles of cardiopulmonary bypass.
• List the indications for heart transplantation.
• List and describe currently available ventricular assist devices.
• Participate in the evaluation of patients with coronary artery disease, including acute myocardial infarction, and the indications and rationale for coronary artery bypass surgery.
• Work directly with Cardiac surgery faculty in assessing and discussing patients.
• Participate in the evaluation of patients with cardiac valvular disease, including aortic stenosis and mitral stenosis
• Observe open-heart surgical procedures
• To develop competence with basic surgical suturing techniques.
• Assist in vein harvesting techniques, both open and endovascular.
• Identify areas of weakness in surgical skills, and use deliberate practice as strategy for improvement.
• Describe the role of the cardiovascular surgeon in the evaluation and management of coronary artery disease.
• Communicate and collaborate effectively and respectfully with patients, families, physicians, other health care professionals, and colleagues in the medical team environment and across the continuum of care.
Assessment Method
College of Medicine standard elective assessment will be completed by supervising faculty at conclusion of elective clerkship.

Scheduling Information
Interested students should contact CMU College of Medicine Department of Distributed Clinical Education at CMEDDCE@cmich.edu.