

Elective Description

Campus: Northeast (Grand Forks)

Elective/Experience Title: Clinical Cardiology

Department: Internal Medicine
Course Number: IMED 9321

Location of Elective: Altru Health System - Grand Forks, ND

Preceptor(s): Rabeea Aboufakher, MD; Puvanalingam Ayyadurai, MD; Jason Go, MD; Mikhail Kirnus, MD,

FACC; & Mevan Wijetunga, MD

Period(s) Offered: all Course prerequisites:

Number of students per period: 1 per period depending on Revised Curriculum Phase(s): 2 & 3

preceptor availability

Purpose: To expose students to cardiology outpatient and inpatient care in addition to cardiac imaging and procedures.

Objectives: Following successful completion of this elective, the student will be able to:

1. Diagnose, risk stratify, and understand the different initial treatments for patients presenting with acute coronary syndromes.

- 2. Understand medical treatment of patients with chronic vascular disease in the outpatient setting.
- 3. Evaluate patients with heart failure in the outpatient and inpatient setting, understand systolic and diastolic dysfunction, know evidence-based medical treatments for heart failure, and have an idea about indications for advanced heart failure treatments (LVAD, transplantation).
- 4. Evaluate patients with valvular heart disease (important history and physical examination elements), and recognize treatment options and indications for cardiology referral.
- 5. Recognize common arrhythmias and initial evaluation and treatment options.
- 6. Read ECGs in a step-wise manner and recognize common ECG patterns.
- 7. Understand indications of stress testing and become familiar with different stress test types and management decisions based on the stress test results.
- 8. Understand the basics and indications of trans-thoracic and trans-esophageal Echocardiography.

Instructional Activities: During this elective, the student will be involved in/experience:

- 1. Cardiology outpatient care in the office setting.
- 2. Cardiology inpatient care in the hospital and emergency department setting.
- 3. Cardiac stress test supervision and interpretation.
- 4. Cardiac procedures including left and right heart catheterization, coronary angiogram, and coronary and peripheral interventions.
- 5. ECG and echocardiography interpretation.

Criteria for Grading: During and following this elective, the <u>preceptor</u> will:

- 1. Utilize the standardized UNDSMHS senior elective evaluation form.
- 2. Assess by direct observation the student's ability to perform a cardiac history and physical examination.
- 3. Assess by direct observation the student's knowledge of key cardiac subjects and his/her ability to improve this knowledge by the end of the rotation by short discussion sessions on a regular basis.
- 4. Assess by direct observation the student's bedside manners and professionalism.
- 5. Assess by direct observation the student's communication skills with patients, staff, and the preceptor.