

Elective Description

Campus: Southwest (Bismarck)

Elective/Experience Title: Cardiology

Location of Elective: CHI St. Alexius Health, Heart & Lung Clinic – Bismarck, ND

Department: Internal Medicine

Course Number: IMED 9106-01

Preceptor(s): Udit Agarwal, MD; Robert Oatfield, MD; Stanley Diede, MD; Colby Halsey, MD; Boban Mathew, MD; John Hoyt, MD

Period(s) Offered: all

Number of students per period: 1

Purpose: To provide education and experience in the care of cardiology patients.

Course prerequisites:

Revised Curriculum Phase(s): 2 & 3

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

1. Perform a complete cardiovascular examination.
2. Interpret EKGs and stress EKGs at a level appropriate for the fourth-year medical student.
3. Describe the indications for cardiac catheterization and alternative invasive cardiac studies.
4. Describe the diagnosis and treatment of coronary artery disease, valvular heart disease, hypertensive heart disease, cardiomyopathies, and pericardial disease.
5. Interpret and discuss echocardiography, both M mode and cross-sectional, as appropriate for a fourth year medical student.
6. Describe hemodynamics in relation to critical care medicine.

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

1. Rotations through the cardiac catheterization laboratory.
2. Participation in invasive cardiac studies.
3. Interpretation of studies from the echocardiography laboratory.
4. Hospital rounds and consultations.
5. Discussion of selected topics once or twice a week with an appropriate literature search by the student.
6. Intensive care rounds, procedures and patient care.
7. Integration with the cardiopulmonary service with interaction involving daily lectures, discussions, rounds.
8. Night and weekend call as determined by the preceptor.

Criteria for Grading: During and following this elective, the preceptor will:

1. Utilize the standardized UNDSMHS senior elective evaluation form.
2. Evaluate by direct observation the student's daily activities including ward rounds and consultations.
3. Evaluate the student's ability to perform a cardiac consultation, make an appropriate diagnosis and suggest therapy following discussion with faculty.
4. Evaluate by direct observation the student's ability to interpret EKGs.
5. Evaluate the student's knowledge of cardiology by discussions of selected patients and selected readings, along with literature searches as directed by the preceptor.
6. Evaluate the student's written material including: progress notes, histories and physicals, consultation notes and study interpretation.
7. Evaluate by direct observation the student's ability to communicate in a "360" fashion.
8. Evaluate by direct observation the student's skill in performance of any assigned procedures completed during the rotation.