

## Elective Description

**Campus:** Southwest (Bismarck)

**Elective/Experience Title:** Adult Cardiology

**Location of Elective:** Sanford Health – Bismarck, ND

**Department:** Internal Medicine

**Course Number:** IMED 9106-02

**Preceptor(s):** Udit Agarwal, MD & Nayan Desai, MD

**Period(s) Offered:** all

**Number of students per period:** 1

**Course prerequisites:**

**Revised Curriculum Phase(s):** 2 & 3

**Purpose:** To provide education and experience in the care of the adult cardiology patient.

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

1. Detect and manage cardiac disease in the adult patient.
2. Manage patient cardiology problems in the intensive care unit under supervision of the precepting physician.
3. Discuss techniques of cardiology diagnosis including: stress testing, echocardiography, nuclear imaging and cardiac catheterization.
4. Discuss indications for and performance of invasive therapeutic techniques including percutaneous transluminal coronary angioplasty, pacemaker insertion, and coronary/renal/peripheral stents.

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

1. Evaluation of patients undergoing cardiac consultation and patients admitted to the cardiology service. This may involve both inpatients and outpatients.
2. Assisting with various cardiology examinations including stress testing, insertion of Swan-Ganz catheters, temporary and permanent pacemakers, and cardiac catheterization.
3. Evaluation of and assisting in evaluation of pre- and postoperative patients following cardiac surgery.
4. Readings from standard textbooks/medical journals as directed by the preceptor and discussion of clinical cases.

**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 ability to present clinical information and to describe an outline of therapy.
3. Evaluate by direct observation the student's ability to perform a thorough history and physical examination.
4. Evaluate by direct observation the student's ability to describe the indications for selected procedures and to perform the procedures.
5. Evaluate the student's written communications including histories and physicals, progress notes, and consultations.
6. Evaluate through discussions with the student, the student's cardiology knowledge and the student's ability to develop a rationale for additional testing and therapy.
7. Evaluate through direct observation the student's ability to interpret EKGs, chest x-rays, and other ancillary and laboratory findings obtained from the cardiology patient.
8. Evaluate through direct observation the student's "360" communication skills.