

Elective Description

Campus: Southwest

Department: Radiology

Elective/Experience Title: Interventional Radiology

Course Number: RAD 9107-02

Location of Elective: Sanford – Bismarck, ND

Preceptor(s): Brent Herbel, MD & Andrew Miller, MD

Period(s) Offered: All

Number of students per period: 1

Purpose: To provide education and experience in the care of patients requiring interventional radiology services.

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

1. Effectively evaluate an interventional radiology (IR) patient to determine if he/she is an appropriate candidate for conscious sedation. (Y4 LO 1)
2. Identify the imaging modalities used in IR procedures and choose correctly, the modality for a given patient and procedure. (Y4 LO 4)
3. Interpret basic plain films, fluoroscopic images, angiographic images, ultrasounds, CT scans, MRI scans, and nuclear medicine scans used in evaluating and treating IR patients. (Y4 LO 4)
4. Identify appropriate indications for various IR procedures. (Y4 LO 4)
5. Perform image guided vascular access procedures under the supervision of a radiologist.
6. Evaluate and formulate management options in patients with peripheral vascular disease, venous disease and genitourinary tract disease from the perspective of an interventional radiologist. (Y4 LO 14)
7. Provide pre-procedure patient evaluation, post procedure care and follow up of patients requiring interventional radiology services. (Y4 LO 1, 14)
8. Perform interventional radiology procedures related to peripheral vascular disease, venous disease and genitourinary tract disease under the supervision of a radiologist.
9. Perform image guided biopsies, aspirations, and/or drainages under the supervision of a radiologist.

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

1. Reading the Handbook of Interventional Radiologic Procedures by Kandarpa and Aruny, fourth edition.
2. Direct and continuous educational contact with preceptor.
3. Observation of and participation in interventional radiology procedures. This would include all phases from receipt of the consult to post procedure patient visit.
4. Daily interpretive sessions in IR suite and CT suite.
5. Appropriate documentation (handwritten or dictated notes) of interactions with the patients seen during the elective.

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 participation in clinical care of the patients
3. Evaluate by direct observation the student's level of proficiency in diagnosis and treatment of interventional radiology patients
4. Evaluate by direct observation the student's ability to perform an efficient history and physical exam and review the patient's medical record
5. Evaluate by direct observation the student's ability to work as a member of an integrated health team
6. Evaluate by direct observation the student's ability to present cases and integrate, assess, and learn new information