

Phase 2/3 Elective Description

Campus: Northwest (Minot)

Elective/Experience Title: Interventional Radiology

Location of Elective: Trinity Health - Minot

Department: Radiology

Course Number: 9405

Preceptor(s): Barry Amos, DO; Jake Naidu, DO; Agnieska Solberg, MD

Period(s) Offered: All

Revised Curriculum Phase(s): 3

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. Demonstrate the ability to effectively evaluate an interventional radiology (IR) patient to determine if he/she is an appropriate candidate for conscious sedation. (competency 1.9, 2.8)
2. List the imaging modalities used in IR procedures and identify the modality for a given patient and procedure. (competency 1.10, 2.5, 3.2)
3. Demonstrate the ability to interpret basic plain films, fluoroscopic images, angiographic images, ultrasounds, CT scans, MRI scans, and nuclear medicine scans used in evaluating and treating IR patients. (competency 2.5, 3.3)
4. State appropriate indications for various IR procedures. (competency 1.1, 1.9, 2.7)
5. Generate management options in patients with peripheral vascular disease and non-vascular disease from the perspective of an interventional radiologist. (competency, 3.4)
6. Generate management options in patients with neuro-vascular disease and non-vascular neurologic/spinal disease from the perspective of a neuro-interventional radiologist. (competency 3.4)
7. Execute pre-procedure patient evaluation, post procedure care, and follow up of patients requiring interventional radiology services. (competency 3.1, 3.2, 3.3)
8. Effectively execute the first-assist role in both vascular and non-vascular interventional radiology procedures with an attending interventional radiologist. (competency 7.3, 3.6)
9. Execute both basic vascular and non-vascular interventional radiology procedures under the supervision of an attending interventional radiologist. (competency 3.6)

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

1. Reading and/or referencing the *Handbook of Interventional Radiologic Procedures, by Kandarpa and Lewandowski et. al, Sixth Edition, and Vascular and Interventional Radiology: The Requisites, by Kaufman and Lee et. al, Second 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. Attending and participating in morning rounds.
5. Appropriate documentation (handwritten or dictated notes) of interactions with the patients seen during the elective.
6. Attending interventional radiology conferences including but not limited to tumor board, stroke conference, trauma conference, angio club, and interventional radiology journal club.
7. Present a short case in our weekly/bi-weekly conference to the Interventional Radiology staff.
8. Opportunity to participate in interventional radiology research culminating in a local or national presentation or further development as desired.

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. (objective 1, 5, 6, 7, 8, 9)
3. Evaluate by direct observation the student's level of proficiency in diagnosis and treatment of interventional radiology patients. (objective 1, 5, 6, 7, 8, 9)
4. Evaluate by direct observation the student's ability to perform an efficient history and physical exam and review the patient's medical record. (objective 1, 7)
5. Evaluate by direct observation the student's ability to work as a member of an integrated health team. (objective 8, 9)
6. Evaluate by direct observation the student's ability to present cases and integrate, assess, and learn new information. (objective 2, 3, 4)