Phase 2/3 Elective Description

Campus: Southeast (Fargo)
Elective/Experience Title: Diagnostic Radiology
Location of Elective: Sanford Health – Fargo, ND

Department: Radiology
Course Number: RAD 9202

Preceptor(s): Jason Asheim, MD; Dennis Bier, MD; Allison Clapp, MD; Stephen Garrity, MD; Chris Kallenbach, MD; Nathaniel Karlins, MD; Martha Kearns, MD; Erica Martin-MacIntosh, MD; Jon Machayya, MD; Daniel Mickelson, MD; Steven Mitchell, MD; Eric Promersberger, MD; Donald Stallman, MD

Period(s) Offered: All periods
Number of students per period: 1

Course Prerequisites:
Revised Curriculum Phase(s): 2 & 3

Purpose: To gain education and clinical experience in the practice of general radiology.

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

1. List the major modalities of imaging studies and summarize the basic concepts of each *(Competency 2.6).*
2. Identify relevant anatomy in imaging studies *(Competency 2.3).*
3. Generate a short differential of major pathology found on imaging studies *(Competency 3.3)*
4. Demonstrate imaging decision-making in a clinical context *(Competency 3.2, 3.3).*
5. Execute efficient Navigation of modern PACS systems and workstations *(Competency 1.7).*

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

1. Reading of standard textbooks and primary literature to expand understanding of disease presentation through imaging.
2. Assisting the preceptor with data gathering available in the imaging or clinical records.
3. Limited communication of findings to relevant colleagues.
4. Manipulation of images in a PACS environment.

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

1. Utilize the standardized UNDSMHS senior elective evaluation form.
2. By direct observation and discussion with the student assess the student's visual awareness of significant pathology on studies via case-to-case reviews of images *(Objective 2, 3, 4, 5).*
3. Evaluate the communication skills of the student through observation of descriptions of pathologic imaging findings *(Objective 2, 3, 4).*
4. Discern how well the student utilizes imaging resources in clinical contexts by discussion of reviewed cases *(Objective 1, 3, 4).*
5. Assess appropriateness of differential diagnosis based on presented pathology seen during workstation reviews *(Objective 2, 3, 5).*
    a. Two attempts will be allowed to pass the exam. If the student does not pass after 2 attempts, they will be no further re-examination or remediation.