

### Objectives:

- To expose the medical student to the types of procedures performed by the interventional radiologist.
- To instruct students on the proper perioperative workup and management of patients undergoing imaging-guided procedures.
- To teach students the indications and contraindications of commonly performed interventional procedures.
- To illustrate the techniques of commonly performed inpatient imaging-guided procedures and, when possible, to allow students to perform these procedures under supervision.

### Responsibilities and Expectations:

- The medical student rotating through the IR (interventional radiology) elective is expected to be a part of the procedural team with graduated responsibilities as the elective progresses.
- Students are expected to be present at 7:30am morning huddle and present the days cases if they are assigned.
- Students will work with residents to be assigned at least 2 patients per day. They will evaluate those patients' charts, see those patients on the floor and perform a focused history and physical. They will then present these patients to the day's attending and go over the indications and contraindications of the procedure being performed. The attending will then provide feedback and teaching to the medical student regarding the case. Students are then expected to observe that case later in the day and scrub in for the procedure.
  - The cases assigned each day will be determined by the residents and attendings to provide the most interesting, useful, and comprehensive exposure for the student.
- When available and based on student interest and knowledge level, the student will also accompany residents/fellows for evaluation of consults requested by inpatient teams. When appropriate, the student may also present these cases to the attendings and discuss treatment and management decisions in collaboration with the resident/fellow.
- When not seeing patients or scrubbing into their assigned cases, students should choose a resident/fellow to follow throughout the day to observe additional procedures, discuss additional cases and patients, and get involved with basic procedures.
  - Students completing a 4 week rotation are not required but should attempt to place a central line under resident/fellow/attending supervision. This is dependent on student involvement throughout the month and interest in IR.
- Students are expected to stay with the procedural team until the completion of all cases or until they are dismissed by the day's attending or fellow. The half-day rotation schedule used in the Diagnostic Radiology medical student elective does not apply to IR students.

#### Assignments and Conferences:

- Weekly resident and daily attending conferences are presented to medical students rotating through Diagnostic Radiology. If the IR medical student is not currently seeing patients, performing a procedure, or otherwise involved in the activities of the procedural team, they may attend these lectures with permission of the attending or fellow (but not the resident). They may also attend daily resident conference at noon as time permits.
- A weekly 715am IR conference is held on Tuesdays, which the IR student is expected to attend. Students should check with the residents on the rotation to confirm lecture location and timing.
- Students are expected to choose 1 case they participated in and present this as an interesting case presentation to other medical students – these sessions are organized alongside the Diagnostic Radiology clerkship students.

#### Vacation:

- Students on the IR elective are not responsible for any night or weekend coverage. There is no call while on the IR elective.
- In compliance with the Case Western elective requirements, students are allowed to take a maximum of 3 excused absences in a 4 week block. Excused absence policy is available on the Case School of Medicine Registrar's website for more details.

#### Grading:

- Students will be graded by a combination of the following:
  - Attendance
  - Interesting case presentation
  - Attending evaluation of daily patient presentations

#### Reading:

- Students are expected to actively read about the patients and cases they observe throughout the month.
- Potential resources include:
  - Interventional Radiology Survival Guide (book available on ClinicalKey.com through the Case library, written at a medical student level)
  - Image-Guided Procedures by Mauro (resident/fellow level textbook, good for more interested medical students)
  - Abram's Angiography by Geshwin (resident/fellow level textbook, good for more interested medical students)
  - Journal of Vascular and Interventional Radiology review articles
  - Seminars in Interventional Radiology journal