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| <b>Faculty Director:</b>              | Directors: Pritish Bawa, M.D., Manickam Kumaravel M.D.                          |
| <b>Participating Faculty:</b>         | Attending Radiology faculty at both the Medical School                          |
| <b>Location:</b>                      | UT Medical School and Memorial Hermann Hospital and Lyndon B. Johnson Hospital; |
| <b>Offered:</b>                       | Offered for all streams   |
| <b>Max. # Students/3-week Period:</b> | 1   |
| <b>Course Objective</b>               |   |

This third-year elective will introduce students to the field of radiology. The elective is designed not only for students who are interested in pursuing the field of radiology but also for those students wishing for general exposure to radiology. Electives taken during the third year will facilitate students interested in radiology to take specialized radiology elective courses in their fourth year.

Students will rotate between Memorial Hermann Hospital and Lyndon B. Johnson Hospital in the Department of Imaging. This course will give medical students a comprehensive overview of the different subspecialties of radiology. In this elective, all students will be exposed to "core" lectures, case presentations, and clinical discussions. During clinical rotations, they observe faculty, fellows, and residents in subspecialty areas of radiology. Didactic lecture sessions are scheduled daily to give the students an in-depth understanding of the wide scope of radiology, including pediatric radiology, neuroradiology, nuclear medicine, thoracic radiology, emergency radiology, interventional radiology, body imaging, women's imaging, and musculoskeletal radiology. At the end of the rotation, students will present a case presentation for their final grade based on a subspecialty in radiology.

#### Areas of Knowledge to be Covered and Skills Acquired:

- Comprehensive knowledge of current diagnostic imaging and procedures, their indication, and contraindication.
- Have a logical approach to analyzing images in order to recognize basic anatomical structures and pathophysiology.
- Understand the importance of clinical information and the rationale for radiologic preparation routines.
- Be informed of the appropriateness criteria to request exams.
- Role of radiology in a health care team-based environment
- Have an understanding of what can and cannot be accomplished through imaging.
- Awareness of the cost involved in imaging.

#### Activities Of Elective

Number Of New Patients/Student/Week:

Not Applicable

Responsibilities Of Student For Assigned Patients:

|   |          |
|---|----------|
| Does history/physical:                              | Yes      |
| Follows patients, with appropriate notes as needed: | Yes      |
| Does the student see ambulatory patients:           | Yes      |
| Performs or observes procedures:                    | Observes |

#### Scheduled Duties of Student:

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| Presents patients to preceptor or attending physician: | Yes   |
| Weekly schedule of required teaching sessions:         | Students will rotate between Memorial Hermann Hospital and Lyndon B. Johnson Hospital. The student will attend lecture sessions covered during the rotation, observe procedures in clinical areas each day, and participate with radiology residents, fellows, and faculty in read-out teaching sessions. |

#### Describe Optional Rounds And Activities, If Any:

The student has access to PACS-based teaching cases, a basic radiology textbook, and radiology library resources at UT McGovern medical school, Memorial Hermann, and Lyndon B. Johnson.

#### Other Required Activities:

|                                      |  |
|--------------------------------------|--|
| Reading/review of current literature | <i>Learning Radiology</i> , by William Herring, M.D. 4 <sup>th</sup> ed. (available online in the TMC library) |
| Completion of case modules           | Each student will complete 8 online radiology cases in Aquifer before the end of the elective                  |
| Case Presentation                    | Yes  |

**How the student will be evaluated:**

This elective is pass/fail. At the end of the elective students will give a case presentation based on a subspecialty in radiology. Students will be evaluated by faculty based on their attendance and participation in didactic sessions, completion of the Aquifer online cases, participation in their clinical assignments, and final case presentation. The students are evaluated based on the demonstration of their accomplishment of the objectives. Make-up hours will be required by the students for 3 or more absences during the rotation.