

Department of Radiology

Website: <https://www.mir.wustl.edu>

Courses

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RADIOL 8005 General Radiology (Clinical Elective)

This four-week Radiology elective allows students to rotate through four of the following Radiology services: Pediatrics, Abdomen, Musculoskeletal, Neuroradiology, Nuclear Medicine, Emergency Radiology, Mammography, Chest, and Interventional Radiology. The primary course objectives are to familiarize students with the scope of diagnostic and interventional radiology, including the consulting role radiologists provide to primary care and specialty providers; risks/benefits and cost effectiveness of radiologic examinations; guidelines for ordering common studies; and the radiologic appearance and workup of specific disease entities. Students spend most of each day in the Radiology reading rooms with residents, fellows, and faculty for interactive teaching at the workstation, driven by daily clinical cases. Students will attend morning and noon didactic conferences with the residents. The students will have a primarily observational role in conferences and in the clinical setting. On Thursday afternoons, students will participate in an interactive conference led by a Radiology resident on a scheduled topic in Radiology. Prior to each Thursday conference, students are expected to view assigned lectures from the course material available online (WUSTL Box). On Friday afternoons, students will present an interesting case from the week in the format of a PowerPoint presentation. All of the PowerPoint presentations will be submitted at the end of the rotation for grading. Students will also be evaluated on their preparedness and participation in the afternoon conferences.

Credit 4 units.

Typical periods offered: Medicine Year

RADIOL 8015 Clinical Nuclear Medicine (Clinical Elective)

The clinical service in Nuclear Medicine (NM) is divided into five sections: outpatient general NM, inpatient general NM, Positron Emission Tomography (PET), Pediatric NM studies, NM Cardiac studies, and radionuclide therapy. The recommended schedule will be to spend weeks 1 and 3 in the Center for Advanced Medicine/BJH North Campus (second floor), where the emphasis will be on outpatient general and pediatric Nuclear Medicine with some time in the PET reading room. Week 2 will be in South Campus (West Pavilion 9th floor) and split between inpatient general nuclear medicine, outside PET facilities (morning), cardiac NM services (afternoon), and radionuclide therapy. The schedule for Week 4 will be Monday to Wednesday Center for Advanced Medicine/BJH North Campus and Thursday to Friday on South Campus. This rotation's primary objective is to provide exposure to the full range of clinical nuclear medicine studies. Under the direct supervision of the NM attendings, the student in person (or via Zoom when in-person training is unavailable) will participate in planning and interpreting imaging studies for patients referred to the Division. An opportunity also exists to explore instrumentation techniques, including dedicated computer applications utilized to interpret NM studies. In addition to the clinical experience, the student will attend the NM daily morning conference, held via Zoom or in person from 8-9:00 am. Also, the student may attend the daily diagnostic radiology

resident noon conference via Zoom or in-person from 12-1:00 pm. The student will also be able to participate in any conferences within the Department of Radiology and case management conferences where NM studies are discussed. The students are encouraged to prepare a case for the Friday follow-up conference under an NM faculty member's supervision during their rotation.

Credit 2 units.

Typical periods offered: Medicine Year

RADIOL 8020 Interventional Radiology (Clinical Elective)

This elective is designed to give students in-depth exposure to and experience in all clinical and procedural aspects of interventional radiology including: patient evaluation and consultation, preparation of patients for procedures, performance of a wide range of vascular and non-vascular procedures, post-procedure patient management, and longitudinal patient follow-up. Students will actively participate in interventional procedures. Students will attend the departmental noon conference (daily) and morning section conferences including didactic lectures, Quality and Safety conference, Journal club, Interventional oncology conference, multidisciplinary liver tumor conference, and case conferences.

Credit 4 units.

Typical periods offered: Medicine Year

RADIOL 8030 Cardiothoracic Radiology (Clinical Elective)

A four-week elective emphasizing the interactions between cardiothoracic radiologists and the various clinical services, to include thoracic surgery, thoracic oncology, pediatric and adult cardiology, and pulmonary medicine. Learn to read chest radiographs at the viewing console while providing liaison with the clinical teams. This active elective will include the daily chest teaching conference and participation in weekly pulmonary case conference, thoracic surgery, thoracic oncology conferences, as well as the imaging of the heart using CT and MR. Students spend most of each day in the Radiology reading rooms with residents, fellows, and faculty for interactive teaching at the workstation, driven by daily clinical cases. The students will have a primarily observational role in conferences and in the clinical setting and will attend morning and noon didactic conferences with the residents. The student will be expected to present a single case from what they have seen during the rotation at a 7AM teaching conference.

Credit 4 units.

Typical periods offered: Medicine Year

RADIOL 9100 Diagnostic Radiology Advanced Clinical Rotation (ACR)

As part of this 4 week Advanced Clinical Rotation in Diagnostic Radiology (DR-ACR), trainees will participate in interpretation and communicating results of various imaging modalities, such as radiography, CT, and ultrasound. Students will perform duties similar to a radiology resident dictating preliminary reports with an attending radiologist, determining most appropriate imaging examinations for patients, and communicating time-dependent results and alternative imaging strategies with ordering providers. There will be opportunity to observe the read out sessions of other residents to enhance the medical students exposure to numerous cases and familiarize them with the process of image interpretation. While the course material will be most applicable to students interested in Diagnostic Radiology, the resulting knowledge, skills and abilities in image interpretation and appropriateness will prove useful for students in any specialty who routinely order imaging examinations. All students will gain experience in interpretation of chest radiographs and based on their future residency of interest, the rotation will be customized to allow rotations in the various areas of diagnostic imaging to help set them up

for success in their future residencies (for example neuroimaging). The DR-ACR will include image interpretation and performing examinations for adult patients at Barnes-Jewish Hospital in diagnostic reading rooms including inpatient, outpatient and emergency department.

Credit 4 units.

Typical periods offered: Medicine Year

RADIOL 9150 Interventional Radiology Advanced Clinical Rotation (ACR)

As part of this 4 week Advanced Clinical Rotation in Interventional Radiology (IR-ACR), trainees will participate in image-guided procedures as well as the care of patients before and after those procedures. The opportunities include participating in the care of patients requiring innovative IR treatments for their uterine fibroids, prostatic hypertrophy, peripheral arterial disease, venous disease, portal hypertension and numerous types of cancer. In addition, the increasing use of ultrasound, fluoroscopy and computer tomography to guide an ever increasing array of minimally invasive procedures means that trainees preparing for a broad array of specialties may benefit from this course. While the experiences will be most applicable to students interested in Interventional and Diagnostic Radiology, the resulting knowledge, skills and abilities will also likely prove useful for students interested in Critical Care, Emergency Medicine, Anesthesiology and multiple surgical specialties. The IR-ACR will include caring for adult and pediatric patients at Barnes-Jewish Hospital, Barnes-Jewish West County Hospital and St Louis Children's Hospital. The course will include inpatient as well as outpatient experiences.

Credit 4 units.

Typical periods offered: Medicine Year
