

# Diagnostic Radiology

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The diagnostic radiology department actively participates in all four years of the curriculum. The first year correlates radiology with anatomy as part of the presentation of the Department of Anatomy and Cell Biology. Various types of X-rays and imaging studies including vascular studies, MRI, and CT demonstrate the necessity of a firm foundation in anatomy and illustrate how changes in anatomy form the foundation of disease processes. This brings anatomy and the patient to the student in a meaningful manner. During the third and fourth years, the department offers educational programs in four-week modules. Students serve rotations in radiology and nuclear medicine. Students receive basic instruction in principles of radiology and its different modalities and observe the tools and methodology of imaging. Radiology conferences are given daily and weekly as part of other departmental curricula, such as neurosurgery, neurology, cardiology, pediatrics, medicine, orthopedics, and gastroenterological conferences. The student is trained and guided in accumulating knowledge and skill in the imaging diagnosis of disease.

## **DIAG 910. Diagnostic Radiology. 4 Credits.**

The student will work in all phases of diagnostic radiology including gastrointestinal, neuroradiology, pediatric radiology, cardiovascular and special procedure radiology. Prerequisite: Medical Basic Sciences.

## **DIAG 913. Radiological Research. 4 Credits.**

Students may work with radiology staff in any of the following areas: radiological sciences, health physics, radiation biology, application of computers to radiology, radiological engineering, clinical research. Prerequisite: Consent of instructor.

## **DIAG 915. Interventional Radiology. 4 Credits.**

Interventional Radiology (IR) is an exciting, fast-paced, advanced clinical subspecialty that utilizes minimally invasive procedures under imaging guidance to treat a variety of vascular and non-vascular diseases in virtually every organ system in the body. Here at the University of Kansas Health System, the Interventional Radiology department boasts the largest volume of patients in the region, where one-year fellows record over 2500 cases and one-month resident rotations record over 230 cases. The Vascular and Interventional Radiology elective will allow for an immediate immersion into IR, working alongside the Interventional Radiology residents, fellows and attendings. Students will be involved in all aspects of patient care including morning preparative case presentations, inpatient rounding, consent and pre-procedural work-up, scrubbing in on the procedure, post-procedural care and long term follow-up. A typical day ranges from 7am - 6pm, with student involvement at all levels of patient care. Overall, this elective is designed to provide the student with a thorough understanding of an academic body- and neuro- IR practice by providing a hands-on experience and instruction regarding the role of IR in evaluating and managing medical and surgical conditions. The student will learn the basic necessary equipment and techniques of each procedure along with its indications, contraindications and alternatives. Prerequisite: Medical Basic Sciences, 4th year status.

## **DIAG 920. Imaging Utilization. 2 Credits.**

Appropriate Imaging Utilization is a 2-week elective in diagnostic radiology for 4th-year students not going into radiology. The goal of this rotation is to review ACR Appropriateness Criteria and learn how to interact with the Radiology Department. Weekly learning labs will include self-directed asynchronous learning materials and ACR TEACHES clinical vignettes reviewing ACR appropriateness criteria for common clinical indications. In addition, students will rotate through two subspecialty reading rooms of their choice. Students will learn the role of the radiologist in the care of patients undergoing imaging evaluation. In addition, students will review

MRI and contrast safety as well as practice radiology skills, including radiograph interpretation, ultrasound scanning, and ultrasound-based procedures. Prerequisite: Completion of 3rd year clerkships.