

Radiology Internship - General Radiology Introduction Rotations

Linked Internship – 3 months rotation in Radiology

This rotation involves reviewing the concepts of Graduate Radiology Education, including the six competencies. This rotation also involves review of the concepts of critical findings and critical tests as elaborated by the JCAHO. Residents get an overview of the department. Residents review the key normal exams for each modality. Residents learn how to use dictation equipment and PACS workstations and use hospital based systems to notify relevant services of critical findings or critical test results. This rotation includes orientation, didactics, as well as brief rotations on fluoroscopy, ultrasound, CT, and nuclear medicine.

Patient Care

Goal

Interns must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health. Interns confidence and contribution to patient safety will be improved by early exposure to normal vs critical examples of key exams and key modalities. Interns are expected to:

Knowledge Objectives:

- Understand the lay out of the department and the basics of all modalities sufficiently to feel like a member of the department.
- Learn the “Universal Differential Diagnosis:” VINDICATE (as a learning and memory tool to use throughout training: 1. Vascular, 2. Infection, 3. Neoplasm, 4. Drugs, 5. Inflammatory/Idiopathic, 6. Congenital, 7. Autoimmune, 8. Trauma, 9. Endocrine/Metabolic)
- Understand the 6 competencies.
- Understand work hour rules and signs of fatigue.
- Basic Analysis of Chest Radiograph
- Basic Analysis of Abdominal Radiograph.
- Basic Understanding of Ultrasound Performance and Review.
- Basic Review of CT of the head
- Basic Understanding of what Nuclear medicine study is.
- Basic Understanding of what MRI study is.
- Differentiate the physical properties of iodinated contrast media and barium contrast agents, including their indications and contraindications.

Skill Objectives:

- Screen patients who are at risk from injection of intravascular radiographic contrast materials,
- Provide emergency treatment for adverse reactions to intravenous contrast material,
- Learn the basics of RIS/PACS and hospital communication systems.
- Operate the fluoroscope and understand basic radiation protection principles.
- Always adhere to ALARA radiation principle

- Provide concise, accurate reports on studies.
- Behavior and Attitude Objectives:
- Work with the health care team in a professional manner to provide patient centered care, and
- Notify referring clinician for urgent, emergent, or unexpected findings, and document in dictation.

Medical Knowledge

Goal

Interns must demonstrate knowledge of established and evolving biomedical, clinical, epidemiological, and social-behavioral sciences, as well as the application of this knowledge to patient care. Interns are expected to:

Knowledge Objectives:

- Identify relevant gross anatomic structures on multiple modalities, and
- Recognize a number of life threatening critical findings, as well as understand the concept of a critical test.

Skill Objectives:

- Accurately identify exams of various modalities.
- Behavior and Attitude Objectives:
- Recognize limitations of personal competency and ask for guidance when appropriate.

Practice-Based Learning and Improvement

Goal

Interns must demonstrate the ability to investigate and evaluate their care of patients, to appraise and assimilate scientific evidence, and to continuously improve patient care based on constant self-evaluation and lifelong learning. Interns are expected to develop skills and habits to be able to:

Knowledge Objectives:

- Assess conventional radiographs, fluoroscopy images for quality and suggest methods of improvement.

Skill Objectives:

- Demonstrate independent self-study using various resources including texts, journals, teaching files, and other resources on the internet,
- Facilitate the learning of students and other health care professionals, and
- Summarize weekly GI Conference, completing brief QA notes within five days of the conference.

Behavior and Attitude Objectives:

- Incorporate formative feedback into daily practice, positively responding to constructive criticism, and

- Follow-up interesting or difficult cases without prompting and share this information with appropriate faculty and fellow residents.
- Know their own limitations at this early stage in training.

Systems Based Practice

Goal

Interns must demonstrate an awareness of, and responsiveness to, the larger context and system of health care, as well as the ability to call effectively on other resources in the system to provide optimal health care. Interns are expected to:

Knowledge Objectives:

- Understand how their image interpretation affects patient care.

Skill Objectives:

- Observe accurate and timely interpretations to decrease length of hospital and emergency department stay,
- Appropriately help to notify the referring clinician if there are urgent or unexpected findings and help document such; and
- Observe the cost effective use of time and support personnel.
- Behavior and Attitude Objectives:
- Begin learning about advocating for quality patient care in a professional manner, particularly concerning imaging utilization issues.

Professionalism

Goal

Interns must demonstrate a commitment to carrying out professional responsibilities and an adherence to ethical principles. Residents are expected to demonstrate:

Knowledge Objectives:

- Understanding of the need for respect for patient privacy and autonomy, and
- Understanding of their responsibility for the patient and the service, including arriving in the reading room promptly each day, promptly returning to the reading room after conferences, completing the work in a timely fashion, and not leaving at the end of the day until all work is complete. If the resident will be away from a service (for time off, meeting, board review, etc.), this must be arranged in advance with the appropriate faculty and/or fellow.
- Knowing when to request consultation and when to provide consultation to others.

Skill Objectives:

- Sensitivity and responsiveness to a diverse patient population, including but not limited to diversity in gender, age, culture, race, religion, disabilities, and sexual orientation, and
- Respect, compassion, integrity, and responsiveness to patient care needs that supersede self-interest.

Interpersonal and Communication Skills

Goal

Interns must demonstrate interpersonal and communication skills that result in the effective exchange of information and teaming with patients, their families, and professional associates. Interns are expected to:

Knowledge Objectives:

- Know the importance of accurate, timely, and professional communication.
- Recognize the difference between confidence and overconfidence.

Skill Objectives:

- Produce concise and accurate reports with guidance at this early stage, and
- Communicate effectively with physicians, other health professionals.

Behavior and Attitude Objectives:

- Work effectively as a member of the patient care team.
- Recognize that teamwork requires mutual adjustment and mutual respect.