

Abdominal Radiology and Fluoroscopy

James A. Haley VA Hospital

Rotation Director: Anant Kusakull, M.D.

General Goals:

To obtain proper training in the performance and interpretation of fluoroscopic and contrast studies involving the gastrointestinal and genitourinary systems.

Daily Work:

The resident should arrive in the Fluoroscopy section immediately following morning conference. The resident assigned to this service is responsible for all studies performed utilizing plain radiography and fluoroscopy to investigate the gastrointestinal and genitourinary tracts. All cases should be reviewed by the assigned staff radiologist. The resident is responsible for dictating the cases after review by the staff radiologist. The residents should remain in the Fluoroscopy area until all exams have been completed.

Educational Goals and Objectives:

First Year Residents

Patient Care :

- Adequately explain each examination to the patient in order to ensure that the patient is at ease
- Be aware of the basic principles of radiation protection in order to reduce as much as possible the radiation dose to the patient
- Understand the indications for and contraindications to the use of intravenous radiographic contrast, and be able to monitor its administration
- Be able to recognize and treat idiosyncratic reactions to intravenous contrast
- Understand the indications and contraindications to the different types of enteral contrast, and the differences and relative merits of single and double contrast studies
- Develop a knowledge of the preparation and aftercare required for the common examinations

Medical Knowledge:

- Learn the basics of the physics of radiography and fluoroscopy
- Be able to perform an adequate upper gastrointestinal series, barium swallow, barium enema and cine swallow

- Develop a knowledge of the anatomy of the gastrointestinal tract as demonstrated on contrast studies
- Develop a knowledge of the anatomy of the genitourinary tract as demonstrated on contrast studies
- Be able to recognize the more common abnormalities encountered in the GI tract, such as stricture, polyp, ulcer and mass
- Develop a knowledge of the differential diagnoses of the more commonly encountered abnormalities

Interpersonal and Communication Skills:

- Communicate with the patient at all times during the examination in order to ensure that the patient remains at ease
- Communicate effectively with all members of the health care team
- Call positive results to the referring physician

Practice-Based Learning and Improvement:

- Identify, rectify and learn from personal errors
- Incorporate feedback into improved performance
- Efficiently use electronic and print resources to access information

Professionalism:

- Demonstrate respect for patients and all members of the health care team
- Respect patient confidentiality
- Present oneself as a professional in appearance and communication
- Demonstrate a responsible work ethic with regard to work assignments

Systems-Based Practice:

- Attend the both gastrointestinal radiology conference and the urology conference and demonstrate understanding of how imaging of these systems relates to the clinical care of the patient
- Demonstrate knowledge of ACR practice guidelines and technical standards for fluoroscopy
- Demonstrate knowledge of ACR appropriateness criteria and cost effective imaging evaluation of common GI/GU disorders

Second Year Residents

Patient Care :

- Understand the physics of radiation protection and how to apply it to routine studies
- Be able to obtain consent for more complex procedures and to answer all questions the patient may have
- Develop a knowledge of the preparation and aftercare required for the more complex procedures

Medical Knowledge:

- Develop a knowledge of the physics of radiography and be able to explain the function of each part of the imaging chain, including the generator, the fluoroscopy unit, grids and screens
- Be able to recommend the appropriate study based on the clinical picture and understand the relative strengths of each modality

Interpersonal and Communication Skills:

- Appropriately obtain informed consent
- Produce concise reports which include all relevant information
- Communicate effectively with all members of the health care team

Practice-Based Learning and Improvement:

- Identify, rectify and learn from personal errors
- Incorporate feedback into improved performance
- Efficiently use electronic and print resources to access information

Professionalism:

- Demonstrate respect for patients and all members of the health care team
- Respect patient confidentiality
- Present oneself as a professional in appearance and communication.
- Demonstrate a responsible work ethic with regard to work assignments

Systems-Based Practice:

- Demonstrate knowledge of ACR practice guidelines and technical standards for fluoroscopy and intravenous urography
- Demonstrate knowledge of ACR appropriateness criteria and cost-effective imaging evaluation of GI/GU disorders

Third and Fourth Year

Patient Care:

- Be able to perform the less common studies, including fistulograms/sinograms, loopograms, pouchograms, fluoroscopy of the diaphragm, T-tube cholangiograms and enteroclysis
- Be familiar with the utility of contrast studies of the GI and GU tracts, and their relationship to the other imaging modalities

Medical Knowledge:

- Develop a thorough knowledge of the differential diagnoses of abnormalities encountered on barium and water soluble contrast studies of the GI and GU tracts
- Develop a thorough knowledge of the differential diagnosis of myelographic abnormalities
- Be able to relate the imaging findings to the clinical condition and its pathology
- Understand the clinical management of the conditions encountered

Interpersonal and Communication Skills:

- Appropriately communicate results to patients and clinicians
- Produce concise reports which include all relevant information
- Communicate effectively with all members of the health care team
- Assist with supervision and teaching of medical students

Practice-Based Learning and Improvement:

- Identify, rectify and learn from personal errors
- Incorporate feedback into improved performance
- Efficiently use electronic and print resources to access information

Professionalism:

- Demonstrate respect for patients and all members of the health care team
- Respect patient confidentiality
- Present oneself as a professional in appearance and communication.
- Demonstrate a responsible work ethic with regard to work assignments

Systems-Based Practice:

- Demonstrate knowledge of ACR practice guidelines and technical standards for fluoroscopy and intravenous urography
- Demonstrate knowledge of ACR appropriateness criteria and cost-effective imaging practices in the evaluation of GI/GU disorders

Evaluation:

The resident will be evaluated by the faculty by means of a monthly global evaluation form. In addition, the lead technologists and support staff will be responsible for providing feedback to the resident via the 360 degree professionalism evaluation on the USF GME website.