Florida Hospital Diagnostic Radiology Residency
Emergency Radiology Goals and Objectives
Training Location: Orlando

Many of the goals and objectives apply to all rotations and are listed below. Those goals that are more specific to a particular rotation are listed separately.

**Emergency Radiology Curriculum**

The educational curriculum Emergency Radiology is comprised primarily of the rotations through the FH Orlando – ER Rotation and On-Call Rotation. Faculty provide direct training and supervision; as well as, a comprehensive series of lectures and conferences in Body Imaging. Correlation is made on a case-by-case basis with other imaging modalities, facilitated by the PACs system. A series of interdepartmental conferences, grand rounds, Journal Clubs, meetings and other venues are expected to enhance the residents’ knowledge of Emergency Radiology.

**Assigned Worklists**

ER Rotation (12p-9p) – ER Worklist
On-Call (11p-7a) – ER Worklist first, then Neuro Worklist

On all rotations, it is recommended the residents read at least 25 cases per day.

**Rotation 1: ER Radiology**

**Patient Care**

Skills - At the end of the rotation, the resident should be able to:

- Gather clinical and radiographical data on patient’s disease. When indicated, this includes discussing the case with the Emergency staff, reviewing the patient’s chart and examining the patient
- Develop diagnostic plan based on the clinical presentation and prior imaging
- Demonstrate basic knowledge of IDX-RAD and UHIS computer systems
- Aid technologist in performing the correct x-ray/CT exam responsibly and safely, assuring that the correct exam is ordered and performed

**Education**

- Required readings - The Radiology of Emergency Medicine (Harris & Harris) 5th Edition
- Active participation with faculty in patient workup
- Participation in Journal Club, clinical conferences, and independent learning
- Radiation safety lectures

**Assessment**

- Global competency ratings by faculty
- 360 degree review from Core Supervising Technologist
- Place evidence of your accomplishments in your Personal Learning Portfolio (PLP)

**Medical Knowledge:**
Skills - At the end of the rotation, the resident should be able to:

- Demonstrate to recognize normal plain film anatomy and appropriate positions for tubes, catheters and other medical devices on plain films
- Demonstrate ability to diagnose common conditions (e.g. collapsed lobes) and life threatening conditions (e.g. pneumothorax) on chest radiographs, pneumoperitoneum on abdominal radiographs and spine fractures
- Demonstrate a clinically appropriate diagnostic treatment plan
- Demonstrate the proper use of radiological equipment such as fluoroscopy equipment during emergency GI/GU procedure in adults and children and to obtain special radiographic views (e.g. decubitus views and swimmer’s views, etc.)
- Understand cardiac and aortic arch great vessel anatomy and the physiological basis for common diseases (e.g. congestive heart failure and pulmonary hypertension, pericardial effusions with tamponade and coarctation of the aorta) and understand the plain film findings in common diseases of the heart and great vessels

Education

- Required readings
- Didactic lecture series
- Participation in case conferences
- Participation in the clinical activities including the combined Radiology Department/Emergency Medicine Department Conference
- Review a portion of the cases in the department teaching file

Assessment

- Same as above
- Raphe exam physics examination

Interpersonal and Communication:

Skills - At the end of the rotation, the resident should be able to:

- Provide direct communication to referring physicians or their appropriate representative, and documenting communication in report for emergent or important unexpected findings
- Demonstrate the verbal and non-verbal skills necessary for face to face listening and speaking to physicians, families, and support personnel

Education

- Participation as an active member of the radiology team by communicating with clinicians face to face, providing consults, answering phones, problem solving and decision-making
- Act as contact person for technologists and nurses in managing patient and imaging issues
- Practical experience in dictating radiological reports

Assessment

- Same as above
- ACR in-training examination

Professionalism

Skills - At the end of the rotation, the resident should be able to:

- Demonstrate altruism
- Demonstrate compassion (be understanding and respectful of patient, their families, and medical colleagues)
- Demonstrate excellence: perform responsibilities at the highest level and continue active learning throughout one’s career
- Demonstrate honesty with patients and staff
- Demonstrate honor and integrity: avoid conflict of interest when accepting gifts from patients and vendors
- Demonstrate sensitivity without prejudice on the basis of religious, ethnic, sexual, or educational differences and without employing sexual or other types of harassment
- Demonstrate knowledge of issues of impairment
- Demonstrate positive work habits, including punctuality and professional appearance
- Demonstrate the broad principles of biomedical ethics
- Demonstrate principles of confidentiality with all information transmitted during a patient encounter
- Teaching of medical students and technologists

**Education**
- Discussion of above issues during daily clinical work

**Assessment**
- Same as above
- Attendance at the above conferences withlogs as necessary

**Practice Based Learning and Improvement**

**Skills** - At the end of the rotation, the resident should be able to:
- Review all cases and dictate a preliminary report. Then review your interpretation with faculty and then correct report as needed before sending it to the faculty members report queue
- Share good learning cases and missed diagnoses with others in the department

**Education**
- Participate in Journal Club, clinical conferences, and independent learning
- Active participation in quality control and quality assurance
- Submit quality improvement form to supervising technologist, residency review coordinator, and department quality improvement secretary

**Assessment**
- Same as above

**Systems Based Practice**

**Skills** – At the end of the rotation, the resident should be able to:
- Demonstrate ability to design cost-effective care plans
- Demonstrate knowledge of the regulatory environment

**Education**
- Review of literature related to thoracic imaging, including ACR appropriateness criteria and ACR practice guidelines and technical standards
- Attendance and participation in multi-disciplinary conference
- Interaction with department administrators
- Discussions with faculty about cost-effective care plans and regulation
- Journal Club articles on issues related to systems based practice
- Management lectures on issues such as JCAHO inspections, corporate compliance, medication ordering and errors, patient safety, etc
- ACR/APDR initiative for Residents in Diagnostic Radiology Modules

**Assessment**
- Same as above

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**Rotations 2-3: ER Radiology**
Patient Care
Skills – At the end of the rotation, the resident should be able to:
- Correlate diagnosis with specific treatments and operative procedures performed by the clinicians treating the patient
- Based on your radiographic findings and the clinical setting, guide clinicians in the use of more advanced imaging techniques such as high resolution CT, MR or cardiac and great vessel conditions and nuclear procedures such as PET-CT. Correlate the findings on plain films with the findings or other modalities such as ultrasound, CT, MR, etc

Education
- Understand the indications for radiographic interventional procedures and other specialized diagnostic procedures

Assessment
- Global competency ratings by faculty
- 360 degree review from Core Supervising Technologist
- Place evidence of your accomplishments in your PLP

Medical Knowledge
Skills – At the end of the rotation, the resident should be able to:
- Demonstrate understanding of the principles of research project design and implementation and consider starting a scholarly project in emergency radiology such as a case report or research project with the faculty and, if appropriate, interested medical student
- Understand the proper use of radiological equipment such as chest sonography and demonstrate its use while on the ultrasound rotation
- Be able to monitor and interpret plain films and know when to obtain additional studies and to classify injuries by the appropriate staging classification

Education
- Suggested reading
- Review current articles related to emergency imaging in current issues of AJR, Radiology and Radiographics
- Didactic lecture series provided by other sections
- Attend the core conferences and lectures
- Participation in the combined Radiology Department/Emergency Department Conference

Assessment
- Same as above
- Raphex physics exam

Interpersonal and Communication Skills
Skills – At the end of the rotation, the resident should have mastered the following:
- Present interesting cases at noon conference

Education
- Review the ACR practice guideline for communication: diagnostic radiology

Assessment
- Same as above

Professionalism
Skills – At the end of the rotation, the resident should have mastered the following:
- Help teaching of Junior Residents and house staff from other departments

Education
• Participation in department and hospital based committees and educational activities
• Plan for Future: Training programs and/or videotapes on harassment and discrimination

Assessment
• Same as above
• ABR written exam
• Attendance at the above conference with logs as necessary
• Place evidence of your accomplishments in your PLP

Practice Based Learning and Improvement
Skills – At the end of the first rotation, the resident should have mastered the following:
• Demonstrate knowledge of and apply the principles of evidence-based medicine in practice
• Demonstrate critical assessment of the scientific literature

Education
• Participate in Journal Club, clinical conferences, and independent learning
• When on-call and when on thoracic service correlate and discuss your reading of chest plain radiographs with the residents and faculty who are interpreting the patient’s CT or MR examinations

Assessment
• Same as above
• ACR in-training exam
• ABR written examination

Systems Based Practice
Skills – At the end of the rotation, the resident should have mastered the following:
• Demonstrate knowledge of funding sources
• Demonstrate knowledge of reimbursement methods

Education
• Interaction with department administrators
• Discussions with faculty about funding and reimbursement issues
• Journal Club articles on issues related to systems based practice
• Clinical practice management lectures on issues such as JCAHO inspections, corporate compliance, etc
• ACR/APDR initiative for Residents in Diagnostic Radiology Modules

Assessment
• Same as above
• ACR in-training exam
• Documented membership in societies
FLORIDA HOSPITAL DIAGNOSTIC RADIOLOGY RESIDENCY PROGRAM

CONFIRMATION OF RECEIPT OF

EMERGENCY RADIOLOGY GOALS AND OBJECTIVES

2017-2018

By signing this document you are confirming that you have received and reviewed, with your preceptor, the Emergency radiology goals and objectives for this academic year.

This receipt will be kept in your personal file.

Resident Name (please print) ____________________________________________

Resident Signature ____________________________________

by signing this – you confirm that you have reviewed the G&O with your preceptor

Date ______________________________

Preceptor Signature ____________________________________

by signing this – you confirm that you have reviewed the G&O with the resident

Date ______________________________