

## ROTATION 1

During this rotation the resident will:

### Patient Care:

1. Gather essential and accurate patient information from the medical chart.
2. Become familiar with the ACR Standards and departmental policies/protocols for pediatric performance of GI and GU fluoroscopic procedures.
3. Learn basic principles of radiation safety to minimize radiation exposure of patients (ALARA principles).

### Medical Knowledge:

1. Understand the fundamentals for management and imaging of childhood pneumonia complications.
2. Understand the role of imaging in the Neonatal Intensive Care Unit and recognize potentially life-threatening emergencies.
3. Understand and recognize the imaging manifestations of child abuse.
4. Develop competency in diagnosis of neonatal proximal small bowel obstruction, malrotation and childhood small bowel obstruction.

### Interpersonal and Communication Skills:

1. Generate accurate and concise reports after staff review.
2. Counsel and educate patients and their families regarding the risk of radiation exposure from pediatric radiology studies.
3. Become capable of obtaining informed consent.
4. Demonstrate proficiency in communicating with health care professionals.

### Professionalism:

1. Demonstrate sensitivity and respect to patients' culture, family values, age, gender and disabilities.
2. Demonstrate respect, compassion and integrity to other members of the health care team.
3. Maintain patient confidentiality.
4. Demonstrate responsible work ethic towards daily tasks and assignments.
5. Demonstrate punctuality. Follow-up on appropriate assignments and tasks.

### Practice Based Learning and Improvement:

1. Use information technology to manage information, access on-line medical information and support own education.
2. Identify, research, write-up and submit 2 cases to pediatric radiology digital teaching file.

### System Based Practice:

1. Demonstrate proficiency in basic concepts of pediatric imaging during resident and interdepartmental conferences.
2. Demonstrate knowledge of ACR practice guidelines for skeletal surveys in children.
3. Demonstrate knowledge of, and apply, ACR appropriateness criteria and other cost effective health-care principles to management of pediatric chest and airway disease.

## ROTATION 2

During this rotation the resident will:

### Patient Care:

1. Gather essential and accurate patient information from the medical chart. Tailor study and/or develop imaging algorithm for specific patient problem with staff pediatric radiologist.
2. Plan and perform pediatric GI and GU fluoroscopic procedures under direct staff supervision.
3. Conduct medical interviews and physical examinations for pre-procedural sedation planning.
4. Daily case preparation for review and discussion with staff, including protocolling of procedures.

### Medical Knowledge:

1. Evidence in daily discussions of completion of weekly reading assignments and literature research relating to current cases.
2. Understand the role of imaging in the workup and management of children with urinary tract infections.
3. Understand the pathophysiology, clinical presentation and the imaging characteristics of the acute scrotum.
4. Develop competency in evaluation of cervical spine anatomy, normal variants and traumatic injury.
5. Understand the role of imaging in diagnosis and management of neonatal distal bowel obstruction.

### Interpersonal and Communication Skills:

1. Build on previously acquired skills.
2. Generate reports prior to staff review. Correct interpretive errors and other inaccuracies after staff review.
3. Call ordering health care professions about all significant or unexpected radiological findings.
4. Document in dictated report all direct communications with health care providers including name, date and time of verbal communication.

### Professionalism:

1. Demonstrate sensitivity and respect to patients' culture, family values, age, gender and disabilities.
2. Demonstrate respect, compassion and integrity to other members of the health care team.
3. Maintain patient confidentiality.
4. Demonstrate responsible work ethic towards daily tasks and assignments.
5. Demonstrate punctuality. Follow-up on appropriate assignments and tasks.

### Practice Based Learning and Improvement:

1. Use information technology to manage information, access on-line medical information and support own education.
2. Completion of assigned on line teaching modules with certification of passing examination score (80% or higher).
3. Identify, research, write-up and submit 2 cases to pediatric radiology digital teaching file.

### System Based Practice:

1. Demonstrate knowledge of, and apply, ACR practice guidelines for developmental dysplasia of the hip.
2. Demonstrate knowledge of, and apply, ACR practice guidelines for scrotal ultrasound.
3. Demonstrate knowledge of, and apply, appropriateness criteria and other cost effective health-care principles to management of pediatric urinary tract infection.

## ROTATION 3

During this rotation the resident will:

### Patient Care:

1. Plan and perform pediatric GI and GU fluoroscopic procedures under staff supervision.
2. Conduct medical interviews and physical examinations for pre-procedural sedation planning.
3. Daily case preparation for review and discussion with staff, including protocolling of procedures.

### Medical Knowledge:

1. Evidence in daily discussions of completion of weekly reading assignments and literature research relating to current cases.
2. Understand the fundamentals for diagnosis and management of intussusception including imaging guided reduction.
3. Develop competency in differential diagnosis of childhood malignancies and their staging.
4. Learn basic applications of body MR for infection, tumor and vascular malformations.
5. Understand, perform and interpret neonatal cranial ultrasound.
6. Delineate temporal bone anatomy.

### Interpersonal and Communication Skills:

1. Build on previously acquired skills.
2. Improve accuracy of reporting without major interpretive errors either before or after staff review.
3. Progressively assume the role of consultant for referring clinicians and recommend appropriate use of imaging studies.

### Professionalism:

1. Demonstrate sensitivity and respect to patients' culture, family values, age, gender and disabilities.
2. Demonstrate respect, compassion and integrity to other members of the health care team.
3. Maintain patient confidentiality.
4. Demonstrate responsible work ethic towards daily tasks and assignments.
5. Demonstrate punctuality. Follow-up on appropriate assignments and tasks.

### Practice Based Learning and Improvement:

1. Use information technology to manage information, access on-line medical information and support own education.
2. Completion of assigned on line teaching modules with certification of passing examination score (80% or higher).
3. Identify, research, write-up and submit at least 2 cases to pediatric radiology digital teaching file.

### System Based Practice:

1. Demonstrate knowledge of, and apply, appropriateness criteria to management of Wilms tumor.
2. Demonstrate knowledge of, and apply, appropriateness criteria to management of neuroblastoma.

## ROTATION 4

During this rotation the resident will:

### Patient Care:

1. Gather essential and accurate patient information from the medical chart. Independently, tailor study and/or develop imaging algorithm for specific patient problem.
2. Independently plan and perform routine pediatric GI and GU fluoroscopic procedures with staff availability for consultation and backup.
3. Conduct medical interviews and physical examinations for pre-procedural sedation planning.
4. Daily case preparation for review and discussion with staff, including protocolling of procedures.

### Medical Knowledge:

1. Evidence in daily discussions of proficiency of weekly reading assignments and literature research relating to current cases.
2. Understand classification schema for bone dysplasias and learn resource sites to hone specific diagnoses.
3. Learn prognostic criteria for Legg-Calve-Perthes disease.
4. Review radiation protection with specific emphasis on low dose CT scanning protocols.
5. Understand pathophysiology and recognize imaging characteristics of common congenital heart malformations.

### Interpersonal and Communication Skills:

1. Build on previously acquired skills.
2. Generate accurate and concise reports of imaging studies prior to staff review. No major interpretive errors.
3. Assume the role of consultant for referring clinicians.

### Professionalism:

1. Demonstrate sensitivity and respect to patients' culture, family values, age, gender and disabilities.
2. Demonstrate respect, compassion and integrity to other members of the health care team.
3. Maintain patient confidentiality.
4. Demonstrate responsible work ethic towards daily tasks and assignments.
5. Demonstrate punctuality. Follow-up on appropriate assignments and tasks.
6. Provide junior level staff supervision and teaching for residents and medical students.

### Practice Based Learning and Improvement:

1. Use information technology to manage information, access on-line medical information and support own education.
2. Completion of assigned on line teaching modules with certification of passing examination score (80% or higher).
3. Identify, research, write-up and submit at least 2 cases to pediatric radiology digital teaching file.

### System Based Practice:

1. Demonstrate knowledge of, and apply, ACR appropriateness criteria and other cost effective health-care principles to management of pediatric sedation/analgesia.
2. Demonstrate knowledge of, and apply, ACR technical standards for pediatric MRI.