

Pediatric Radiology Elective

Elective rotation available for residents of all training levels

Value of the Rotation:

All pediatricians, regardless of their final field of practice, will have some interaction with radiology and radiologists. This rotation will expose residents to a variety of different imaging modalities used for both inpatient and outpatient pediatric problems.

Broad Goals:

- Opportunity to review a variety of different modalities for pediatric imaging
- Opportunity to learn basic chest, abdominal and MSK film image interpretation skills.
- Learn how to use pediatric radiologists as consultants
- Learn how to use imaging tools to best advantage in problem solving
- Opportunity to learn about “Image Gently” (radiation safety) and methods to limit diagnostic imaging radiation dose

Objectives:

- Learn basic CXR interpretation skills: Identify, localize and characterize pneumonia on CXR.
- Recognize appropriate and malpositioned tube and line position on CXR and KUB
- Recognize common pediatric fractures: torus or buckle, Salter Harris classification, greenstick.
- Understand the potential detrimental effects of ionizing radiation and how this can be limited.
- Use radiologists as consultants in making imaging choices and imaging interpretation
- Observe different radiology procedures such as swallow study, UGI with small bowel follow through, and VCUGs when applicable
- Observe reading advanced images with attending and resident radiologists including CTs, MRIs, and ultrasounds

Rotation Description:

Residents will work with radiology residents rotating through pediatric radiology as well as pediatric radiology trained attendings each morning to review inpatient and outpatient studies. They will observe studies being performed as detailed above when applicable. Residents will also witness radiology rounds with certain inpatient teams.

Resident Expectations:

- The resident will be expected to be available from 8am to 12pm Monday through Friday, except for pediatric Grand Rounds, Thursday afternoon conferences, noon case conference, continuity clinics, and any other required clinics or residency activities (the resident should notify the attending of clinics or known required residency activities three months prior to the start of the elective).
- There are no night or weekend responsibilities directly related to this elective, however residents may be needed to staff cross-covers on the weekends and occasionally during the week.
- Residents are expected to communicate with the attending early in the rotation if other time is going to be missed, such as for a doctor’s appointment.

Reading/Resources:

- Fundamentals of Pediatric Radiology
- Radiology Made Ridiculously Simple
- www.pedrad.org

- <https://www.cchs.net/pediatricradiology> - Excellent site composed of modules divided by organ system with both a pre and post-test in addition to course material; create your own user name and password and complete the modules in the pediatric resident curriculum
- www.imagegently.com – Information for pediatricians, parents, community radiologists, and others to increase awareness of radiation dose and imaging of children

Individualized Curriculum:

- Residents interested in specific fields of imaging may ask to tailor the rotation experience to include desired fields (i.e. more time with MSK radiology for residents interested in Sports Medicine or exposure to renal ultrasounds and VCUGs for those interested in nephrology.)
- Approximately 1 week prior to the rotation, you will receive a welcome email from Bev Ressler (Administrative Coordinator for the elective) providing first day information and forms to complete to let us know your expectations from the elective, expected absences and some other general information.
- There is a posted weekly schedule of faculty work assignments in the Pediatric Radiology Reading room so that you know what staff is assigned to what modality.

Feedback and Evaluation:

- Residents will receive feedback from the different attendings they are working with and should request feedback at the end of each clinical half-day.

Logistics:

First day/orientation

- On the first day residents are encouraged to meet Taylor Bower, the administrative coordinator for the elective prior to going to the Radiology Reading room in the basement of the Children's Hospital at 8am.

What is the schedule/who will you work with:

- Please be in the Peds Reading room (PG127) at 8am to participate in case discussions, observe fluoro and ultrasound.
- Residents should participate in radiology rounds with inpatient teams as they occur (i.e. NICU at 1:15pm daily).
- There is a posted weekly schedule of faculty work assignments in the Pediatric Radiology Reading room so that you know what staff is assigned to what modality.
- In the afternoons, please work on the modules that you can find in the Canvas course using this link: <https://psu.instructure.com/courses/2151088>
 - You will use your Penn State College of Medicine ID to login to the course. It is a mix of letters/numbers @psu.edu. mentioned above, please email me your ID so I can enroll you in the course.

Who should I contact?:

- Residents should contact Dr. Sosamma Methratta or Taylor Bower for questions or concerns related to this elective rotation.