

# MSK RESIDENT ORIENTATION GUIDE

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## MSK ROTATION GOALS

1. Become familiar with normal extremity CT/MRI anatomy in children and how it is affected by common pediatric diseases.
2. Understand the appropriate use of CT in the evaluation of musculoskeletal indications in childhood and adolescent diseases.
3. Understand the appropriate use of MRI in the evaluation of musculoskeletal indications in childhood and adolescent diseases.
4. Learn common indications for CT and MRI imaging studies of the pelvis, joints, extremities, spine (CT), and nerves.

## SUMMARY OF RESPONSIBILITIES

- Read off Unread MS CT MR US list – read all studies completed by 4pm
- Answer phones
- Protocol add-ons (use “protocol follow-up→ CT or MR body” button). Red X shows study that needs to be protocolled
- Protocol Unscheduled exams (use “protocol worklist→ CT/MR MSK worklist (try to zero out the list). Review with attending when questions.

# WORKFLOW

- Rotation hours: 8:00 AM-4:00 PM
- Work from the designated MSK resident/fellow station in the 4<sup>th</sup> floor “big” reading room
- Check-in with the MSK CT/MR attending upon arrival to set-up expectations for your shift
- Read all MSK CT/MR studies on the worklist
  - Read all studies that are completed by 4pm the day you are assigned to MSK
  - Some overlap with body CT/MR: Check indication – (e.g. pelvis for sacroiliitis versus GU, whole body MRI – CRMO for MSK, cancer screening for body).
  - Some overlap with Neuro CT: Cervical spine and CT myelogram is for neuro. “Entire spine”, thoracic and lumbar spine are read by MSK

# WORKFLOW

- Pre-dictate studies prior to readout with assigned attending
- Read out all dictated studies with your assigned attending
- At the beginning of the day, please ask your attending how they want to handle checking MRI cases. This will vary depending on difficulty of cases, your comfort level with MRI, and the attending.
- It may be helpful to go over complex or atypical MR or CT exams prior to dictating.
  - Looking at upcoming cases for the day with attending may be beneficial to make sure you both understand what you are looking for and when the scan will occur
- If the attending is not in the reading room, page them at least one hour before shift end to arrange readout time
- Attend all MSK type conferences when able
- Ortho is Mondays 8:30-9:30 (in person on first Monday of month, rest virtual)
- Sports med conf, Rheum, Sarcoma are monthly

# WORKFLOW

- Sit in the assigned MSK resident seat
- Technologists will call your phone number specifically for MSK related questions
- Please answer the phone immediately as patient could be on the table
- Feel free to ask your attending for help (usually sitting behind you)
- Technologist may call to check images on a case - check for good fat suppression, motion, and FOV (make sure any mass is fully covered). Ask attending for help when needed.

## PROTOCOLLING IN CT AND MRI

- Protocol add-ons (use “protocol follow-up→ CT or MR body” button). Red X shows study that needs to be protocolled
- Protocol Unscheduled exams (use “protocol worklist→ CT/MR MSK worklist (try to zero out the list). Review with attending when questions.

## PROTOCOLLING IN CT AND MRI

- If study order seems wrong to you – can click “flag” button and type in comments box. This goes to our internal MRI tech team to clarify orders.
- If you think contrast isn't needed, you can change to without, but flag study
- If you think contrast IS need but it was ordered without, you need to flag the study and probably need to discuss with the ordering before adding contrast



# CT/MR DEPARTMENT

- CT Scanner locations:
  - 5<sup>th</sup> floor GE PET CT - mainly used for PET, biopsy, and overflow CT patients
  - 5<sup>th</sup> floor Siemens CT - main scanner for inpatients, outpatients, and cardiac exams (for now at least)
  - Siemens ER CT - used for ER patients, some outpatients
- MR Scanner locations:
  - Lurie 5<sup>th</sup> floor, scanners 1 – 4 (scanners 2 & 4 are 3T) All Siemens
  - Clark (GE 1.5T)
  - Westchester (GE 1.5T)
  - Northbrook (GE 3T)

## CONTACT INFORMATION

- CT numbers:
  - Main scanner (5<sup>th</sup> floor): 7-0519
  - Voalte phone: 4- 7918
  - Pager number: 9- 7033
  - ER CT number: 7- 0263
- MRI at Lurie (5<sup>th</sup> floor):
  - Main: 7- 0546
  - Scanner 1: 7- 0513
  - Scanner 2 (3T Vida): 7- 8881
  - Scanner 3: 7- 0529
  - Scanner 4 (3T Skyra): 7- 0528
- MR Charge Voalte phone: 4- 7340
- Clark: 7- 8251
- Westchester: 7- 7908
- Northbrook (3T GE): 7- 2716