

MSK (First Year, First Block)

This rotation involves interpretation of inpatient and outpatient musculoskeletal radiographs, musculoskeletal MRI, arthrography, and musculoskeletal CT.

Patient Care

Goal

Residents must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health. Residents are expected to:

Knowledge Objectives:

- (1) Gain skill in interpretation of digital (and occasional conventional) radiographs of MSK system.
- (2) Describe the indications for musculoskeletal CT, MR, and arthrography,

Skill Objectives:

- (1) Become facile with PACs and utilize available information technology to manage patient information,
- (2) Provide concise, accurate reports on most studies, and
- (3) Accurately interpret spine and extremity radiographs and imaging studies.

Behavior and Attitude Objectives:

- (1) Work with the health care team in a professional manner to provide patient-centered care, and
- (2) Notify referring clinician for urgent, emergent, or unexpected findings, and document in dictation.

Medical Knowledge

Goal

Residents must demonstrate knowledge of established and evolving biomedical, clinical, epidemiological, and social-behavioral sciences, as well as the application of this knowledge to patient care. Residents are expected to:

Knowledge Objectives:

- (1) Identify the common imaging and clinical manifestations of arthritis, bone tumors, and metabolic bone disease,
- (2) Describe fracture nomenclature and their radiographic appearances, and
- (3) Be familiar with more common orthopedic hardware.

Skill Objectives:

- (1) Accurately interpret spine and extremity radiographs and imaging studies.
- (2) Identify normal and aberrant skeletal anatomy, and
- (3) Accurately diagnose more common osseous diseases.

Behavior and Attitude Objectives:

- (1) Recognize limitations of personal competency and ask for guidance when appropriate.

Practice-Based Learning and Improvement

Goal

Residents must demonstrate the ability to investigate and evaluate their care of patients, to appraise and assimilate scientific evidence, and to continuously improve patient care based on constant self-evaluation and lifelong learning. Residents are expected to develop skills and habits to be able to:

Knowledge Objectives:

(1) Assess radiographs for quality and suggest methods of improvement.

Skill Objectives:

(1) Demonstrate independent self-study using various resources including texts, journals, teaching files, and other resources on the internet, and

(2) Facilitate the learning of students and other health care professionals.

Behavior and Attitude Objectives:

(1) Incorporate formative feedback into daily practice, positively responding to constructive criticism, and

(2) Follow-up interesting or difficult cases without prompting and share this information with appropriate faculty and fellow residents.

Systems Based Practice

Goal

Residents must demonstrate an awareness of, and responsiveness to, the larger context and system of health care, as well as the ability to call effectively on other resources in the system to provide optimal health care. Residents are expected to:

Knowledge Objectives:

(1) Understand how their image interpretation affects patient care.

Skill Objectives:

(1) Provide accurate and timely interpretations,

(2) Appropriately notify the referring clinician if there are urgent or unexpected findings and document such without being prompted; and

(3) Practice using cost effective use of time and support personnel.

Behavior and Attitude Objectives:

(4) Advocate for quality patient care in a professional manner, particularly concerning imaging utilization issues.

Professionalism

Goal

Residents must demonstrate a commitment to carrying out professional responsibilities and an adherence to ethical principles. Residents are expected to demonstrate:

Knowledge Objectives:

(1) Understanding of the need for respect for patient privacy and autonomy, and

(2) Understanding of their responsibility for the patient and the service, including arriving in the reading room promptly each day, promptly returning to the reading room after conferences, completing the work in a timely fashion, and not leaving at the end of the

day until all work is complete. If the resident will be away from a service (for time off, meeting, board review, etc.), this must be arranged in advance with the appropriate faculty.

Skill Objectives:

(1) Sensitivity and responsiveness to a diverse patient population, including but not limited to diversity in gender, age, culture, race, religion, disabilities, and sexual orientation.

Behavior and Attitude Objectives:

(1) Respect, compassion, integrity, and responsiveness to patient care needs that supersede self-interest.

Interpersonal and Communication Skills

Goal

Residents must demonstrate interpersonal and communication skills that result in the effective exchange of information and teaming with patients, their families, and professional associates. Residents are expected to:

Knowledge Objectives:

(1) Know the importance of accurate, timely, and professional communication.

Skill Objectives:

(1) Produce concise and accurate reports on most examinations,
(2) Communicate effectively with physicians, other health professionals, and
(3) Obtain informed consent with the utmost professionalism.

Behavior and Attitude Objectives:

(1) Work effectively as a member of the patient care team.

MSK (Second Year, Second Block)

This rotation involves interpretation of inpatient and outpatient musculoskeletal radiographs, musculoskeletal MRI studies, arthrography, and musculoskeletal CT.

Patient Care

Goal

Residents must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health. Residents are expected to:

Knowledge Objectives:

- (1) Select appropriate imaging modality, including radiographic, CT, MR , and bone scan, and
- (2) Protocol for most patients with musculoskeletal indications.

Skill Objectives:

- (1) Observe joint aspiration or arthrography for MR arthrogram or conventional arthrogram, and
- (2) Provide concise, accurate reports on all studies, including MSK MR, and digital radiographs.

Behavior and Attitude Objectives:

- (1) Work with the health care team in a professional manner to provide patient-centered care, and
- (2) Notify referring clinician for urgent, emergent, or unexpected findings, and document in dictation.

Medical Knowledge

Goal

Residents must demonstrate knowledge of established and evolving biomedical, clinical, epidemiological, and social-behavioral sciences, as well as the application of this knowledge to patient care. Residents are expected to:

Knowledge Objectives:

- (1) Define findings in most musculoskeletal abnormalities, including benign and malignant bone tumors.

Skill Objectives:

- (1) Accurately identify characteristic of benign and malignant bone tumors.

Behavior and Attitude Objectives:

- (1) Recognize limitations of personal competency and ask for guidance when appropriate.

Practice-Based Learning and Improvement

Goal

Residents must demonstrate the ability to investigate and evaluate their care of patients, to appraise and assimilate scientific evidence, and to continuously improve patient care

based on constant self-evaluation and lifelong learning. Residents are expected to develop skills and habits to be able to:

Knowledge Objectives:

(1) Assess radiographs, CT and MR for quality and suggest methods of improvement.

Skill Objectives:

(1) Demonstrate independent self-study using various resources including texts, journals, teaching files, and other resources on the internet, and
(2) Facilitate the learning of students and other health care professionals.

Behavior and Attitude Objectives:

(1) Incorporate formative feedback into daily practice, positively responding to constructive criticism, and
(2) Follow-up interesting or difficult cases without prompting and share this information with appropriate faculty and fellow residents.

Systems Based Practice

Goal

Residents must demonstrate an awareness of, and responsiveness to, the larger context and system of health care, as well as the ability to call effectively on other resources in the system to provide optimal health care. Residents are expected to:

Knowledge Objectives:

(1) Understand how their image interpretation affects patient care.

Skill Objectives:

(1) Provide accurate and timely interpretations to decrease length of hospital and emergency department stay,
(2) Appropriately notify the referring clinician if there are urgent or unexpected findings and document such without being prompted; and
(3) Practice using cost effective use of time and support personnel.

Behavior and Attitude Objectives:

(1) Advocate for quality patient care in a professional manner, particularly concerning imaging utilization issues.

Professionalism

Goal

Residents must demonstrate a commitment to carrying out professional responsibilities and an adherence to ethical principles. Residents are expected to demonstrate:

Knowledge Objectives:

(1) Understanding of the need for respect for patient privacy and autonomy, and
(2) Understanding of their responsibility for the patient and the service, including arriving in the reading room promptly each day, promptly returning to the reading room after conferences, completing the work in a timely fashion, and not leaving at the end of the day until all work is complete. If the resident will be away from a service (for time off,

meeting, board review, etc.), this must be arranged in advance with the appropriate faculty.

Skill Objectives:

(1) Sensitivity and responsiveness to a diverse patient population, including but not limited to diversity in gender, age, culture, race, religion, disabilities, and sexual orientation.

Behavior and Attitude Objectives:

(1) Respect, compassion, integrity, and responsiveness to patient care needs that supersede self-interest.

Interpersonal and Communication Skills

Goal

Residents must demonstrate interpersonal and communication skills that result in the effective exchange of information and teaming with patients, their families, and professional associates. Residents are expected to:

Knowledge Objectives:

(1) Know the importance of accurate, timely, and professional communication.

Skill Objectives:

(1) Produce concise and accurate reports on most examinations, and
(2) Communicate effectively with physicians, other health professionals,

Behavior and Attitude Objectives:

(1) Work effectively as a member of the patient care team.

MSK (Third Year, Third Block)

This rotation involves interpretation of inpatient and outpatient musculoskeletal radiographs, musculoskeletal MRI, arthrography, and musculoskeletal CT.

Patient Care

Goal

Residents must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health. Residents are expected to:

Knowledge Objectives:

- (1) Understand the indications for all musculoskeletal imaging, including more complex cases, and
- (2) Be facile with MSK imaging protocols.

Skill Objectives:

- (1) Perform arthrography for conventional arthrogram or MR arthrogram with supervision, and
- (2) Provide concise, accurate reports on all studies.

Behavior and Attitude Objectives:

- (1) Work with the health care team in a professional manner to provide patient-centered care.
- (2) Notify referring clinicians for urgent, emergent, or unexpected findings, and document in dictation.

Medical Knowledge

Goal

Residents must demonstrate knowledge of established and evolving biomedical, clinical, epidemiological, and social-behavioral sciences, as well as the application of this knowledge to patient care. Residents are expected to:

Knowledge Objectives:

- (1) Describe imaging findings of more complex osseous pathology.
- (2) Understand the MR imaging appearance of tumor, infection, and arthritis,
- (3) Recognize pertinent musculoskeletal anatomy, particularly knee, hip, and shoulder, and
- (4) Identify common abnormalities of these regions.

Skill Objectives:

- (1) Accurately identify these abnormalities on imaging studies.

Behavior and Attitude Objectives:

- (1) Recognize limitations of personal competency and ask for guidance when appropriate.

Practice-Based Learning and Improvement

Goal

Residents must demonstrate the ability to investigate and evaluate their care of patients, to appraise and assimilate scientific evidence, and to continuously improve patient care based on constant self-evaluation and lifelong learning. Residents are expected to develop skills and habits to be able to:

Knowledge Objectives:

(1) Assess radiographs, CT and MR for quality and suggest methods of improvement.

Skill Objectives:

(1) Demonstrate independent self-study using various resources including texts, journals, teaching files, and other resources on the internet, and

(2) Facilitate the learning of students and other health care professionals.

Behavior and Attitude Objectives:

(1) Incorporate formative feedback into daily practice, and

(2) Follow-up interesting or difficult cases without prompting and share this information with appropriate faculty and fellow residents.

Systems Based Practice

Goal

Residents must demonstrate an awareness of, and responsiveness to, the larger context and system of health care, as well as the ability to call effectively on other resources in the system to provide optimal health care. Residents are expected to:

Knowledge Objectives:

(1) Understand how their image interpretation affects patient care.

Skill Objectives:

(1) Provide accurate and timely interpretations

(2) Appropriately notify the referring clinician if there are urgent or unexpected findings and document such without being prompted; and

(3) Practice using cost effective use of time and support personnel.

Behavior and Attitude Objectives:

(1) Advocate for quality patient care in a professional manner, particularly concerning imaging utilization issues.

Professionalism

Goal

Residents must demonstrate a commitment to carrying out professional responsibilities and an adherence to ethical principles. Residents are expected to demonstrate:

Knowledge Objectives:

(1) Understanding of the need for respect for patient privacy and autonomy, and

(2) Understanding of their responsibility for the patient and the service, including arriving in the reading room promptly each day, promptly returning to the reading room after conferences, completing the work in a timely fashion, and not leaving at the end of the day until all work is complete. If the resident will be away from a service (for time off, meeting, board review, etc.), this must be arranged in advance with the appropriate faculty.

Skill Objectives:

(1) Sensitivity and responsiveness to a diverse patient population, including but not limited to diversity in gender, age, culture, race, religion, disabilities, and sexual orientation.

Behavior and Attitude Objectives:

(1) Respect, compassion, integrity, and responsiveness to patient care needs that supersede self-interest.

Interpersonal and Communication Skills

Goal

Residents must demonstrate interpersonal and communication skills that result in the effective exchange of information and teaming with patients, their families, and professional associates. Residents are expected to:

Knowledge Objectives:

(1) Know the importance of accurate, timely, and professional communication.

Skill Objectives:

(1) Produce concise and accurate reports on most examinations, and
(2) Communicate effectively with physicians, other health professionals,

Behavior and Attitude Objectives:

(1) Work effectively as a member of the patient care team.