RAD 851: Diagnostic Radiology

Course Director: Jeanne Hill, MD
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Course Coordinator: Claudia Richey
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Does this rotation accept visiting students? YES NO

COURSE DESCRIPTION:
This course is designed to provide students with a better understanding of the central role of diagnostic radiology in the evaluation and management of patients through participation in reading room readouts, radiology call, lectures, case conferences/presentations, online assignments, interactive labs, and observation of the various imaging modalities and procedures. Students will tailor their experience to their clinical interests by spending 1 week in 4 areas of their choosing taken from: Body, Cardiac, Chest, IR, MSK, Nuclear Medicine, Neuroradiology, Pediatrics, and Ultrasound.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Appreciate the fundamental role of the radiologist as consultant and the value of imaging to provide timely, accurate, and actionable diagnostic information regarding a patient’s medical condition (MK, SL, PC)
2. Recognize the indications and appropriateness of imaging studies for common clinical problems and utilize evidence based resources (ACR Appropriateness Criteria) to determine imaging appropriateness for less common clinical problems (MK, SL, PL, PR)
3. Describe the risks of medical imaging: radiation induced cancer, contrast nephropathy, contrast reactions and MRI safety (MK, SL, PL, PR, PC)
4. Describe how common procedures and imaging are performed (MK, CS, PC)
5. Apply basic interpretive skills to evaluate imaging studies (plain films and CT), including study identification, recognition of normal radiographic and cross-sectional anatomy and common, potentially life-threatening pathology (MK, PC, PL)

INSTRUCTIONAL METHODOLOGIES AND ROTATION ACTIVITIES: Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:
1. Clinical exposure: Students will participate in clinical services interacting with and observing residents and faculty daily
2. Lectures/conferences: Resident-led lectures, faculty-led case presentations, resident conferences, and Grand Rounds
3. 3 interactive labs: Hands on ultrasound scanning with ultrasound guided vascular access, paracentesis and biopsy simulation
4. Reading assignments: Each student will receive a copy of Herring’s Learning Radiology and accompanying web resources
5. Online materials: MedU CORE cases, AHRQ’s Web M&M scenarios, and Radiographic Anatomy review

PATIENT ENCOUNTERS: Students on this rotation will be expected to work-up patients with these specified conditions:
1. Students will be exposed to normal and abnormal imaging studies and procedures on current MUSC patients
2. Students will be exposed to a broad spectrum of pathology, acute, chronic, medical, and surgical diseases in pts of all ages.

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)
2. Direct observation of the student’s clinical work by the resident and attending physicians (MK, PR, CS, SL)
3. Evaluation of student participation in case conferences and interactive workshops (PC, PR, CS)
4. Quiz performance based on online assignments, textbook and material presented in resident and case conferences (MK, PL)
5. A mid-point evaluation form will be completed halfway through the rotation in order for the student to be assessed on their performance (MK, PC, PR, CS, SL, PL).

Will students be expected to participate in call? YES NO
Course Director: Jeanne Hill, MD
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Course Coordinator: Claudia Richey
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**COURSE DESCRIPTION:**
This course is designed to provide students with a better understanding of the central role of diagnostic radiology in the evaluation and management of pediatric patients through participation in reading room readouts, clinical rounds, radiology call, lectures, case conferences/presentations, online assignments, interactive labs, and observation of the various imaging modalities and procedures. Students will spend the entire rotation in the Pediatric reading room.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Appreciate the fundamental role of the radiologist as consultant and the value of imaging to provide timely, accurate, and actionable diagnostic information regarding a patient’s medical condition (MK, SL, PC)
2. Recognize the indications and appropriateness of imaging studies for common clinical problems and utilize evidence based resources (ACR Appropriateness Criteria) to determine imaging appropriateness for less common clinical problems (MK, SL, PL, PR)
3. Describe the risks of medical imaging: radiation induced cancer, contrast nephropathy, contrast reactions & MRI safety (MK, SL, PL, PR, PC)
4. Describe how common procedures and imaging are performed (MK, CS, PC)
5. Apply basic interpretive skills to evaluate imaging studies (plain films, CT, US) including study identification, recognition of normal radiographic and cross-sectional anatomy, & common, potentially life-threatening pathology (MK, PC, PL)

**INSTRUCTIONAL METHODOLOGIES AND ROTATION ACTIVITIES:** Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:
1. Clinical exposure: Students will participate in clinical services interacting with and observing residents and faculty daily
2. Lectures/conferences: Resident-led lectures, faculty-led case presentations, resident conferences, and Grand Rounds
3. Interactive labs: Hands on ultrasound scanning with ultrasound guided vascular access, paracentesis and biopsy simulation
4. Reading assignments: Each student will receive a copy of Herring’s Learning Radiology and accompanying web resources
5. Online materials: Online Pediatric Radiology Curriculum, AHRQ’s Web M&M scenarios, and Radiographic Anatomy review

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Students will be exposed to normal and abnormal imaging studies and procedures on current MUSC inpatients and outpatients.
2. Students will be exposed to imaging of a wide variety of clinical conditions including acute and chronic, medical and surgical diseases in pediatric patients.

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)
2. Direct observation of the student’s clinical work by the resident and attending physicians (MK, PR, CS, SL)
3. Evaluation of student participation in case conferences and interactive workshops (PC, PR, CS)
4. Quiz performance based on online assignments, textbook and material presented in resident and case conferences (MK, PL)
5. A mid-point evaluation form will be completed halfway through the rotation in order for the student to be assessed on their performance (MK, PC, PR, CS, SL, PL).

**Does this rotation accept visiting students?** ☑ YES ☐ NO
### COURSE DESCRIPTION:
Students will understand the role of interventional radiology within the department of radiology and gain insight into the services it provides for outside patients by observing daily management of patients, participating in preprocedural planning, image guided interventional procedures, and planning of post procedural follow up. Students will attend general radiology lectures, case conferences and presentations, and complete on-line assignments. Students will spend four weeks in the IR section and participate in 2 evenings of general call at MUSC and 2 nights of IR call from home for emergency situations.

### LEARNING GOALS & OBJECTIVES:
At the completion of this clinical rotation students should be able to do the following:
1. Appreciate the fundamental role of the interventional radiologist as a consultant and the value of image guided procedures to provide safe minimally invasive procedures to aid in the treatment regarding a patient’s medical condition (MK, SL, PC)
2. Recognize the indications, contraindications and appropriateness of imaging studies and image guided procedures for common clinical problems and utilize evidence based resources to determine imaging appropriateness for less common clinical problems. (MK, SL, PL, PR)
3. Describe the risks and benefits of the various image guided procedures offered by our service as well as alternative strategies available to the patient regarding their specific medical condition. (MK, CS, PC)
4. Describe how common procedures are performed, pre-procedure workup and post-procedural follow-up. (MK, CS, PC)
5. Apply interpretive skills to evaluate images obtained during procedures, (fluoroscopic and CT), including study identification, recognition of nl radiographic and cross-sectional anatomy, and common, potentially life-threatening pathology. (MK, PC, PL)

### INSTRUCTIONAL METHODOLOGIES AND ROTATION ACTIVITIES:
Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:
1. Clinical exposure: Students will participate in clinical services interacting with and observing residents and faculty daily
2. Lectures/conferences: Resident-led lectures, faculty-led case presentations, resident conferences, and Grand Rounds
3. Interactive labs: Hands on ultrasound scanning with ultrasound guided vascular access, paracentesis and biopsy simulation
4. Reading assignments: Each student will receive a copy of Herring’s *Learning Radiology* and accompanying web resources
5. Online materials: MedU CORE cases, AHRQ’s Web M&M scenarios, and Radiographic Anatomy review

### PATIENT ENCOUNTERS:
Students will be expected to work-up patients with these specified conditions:
1. Students will be exposed to normal and abnormal imaging studies and procedures on current MUSC patients
2. Students will be exposed to the imaging of a wide variety of clinical conditions including acute and chronic, medical and surgical

### EVALUATION / FEEDBACK METHODS:
Students will be evaluated using the following methods:
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)
2. Direct observation of the student’s clinical work by the resident and attending physicians (MK, PR, CS, SL)
3. Evaluation of student participation in case conferences and interactive workshops (PC, PR, CS)
4. Quiz performance based on online assignments, textbook and material presented in resident and case conferences (MK, PL)
5. A mid-point evaluation form will be completed halfway through the rotation in order for the student to be assessed on their performance (MK, PC, PR, CS, SL, PL).

Does this rotation accept visiting students? ☑ YES ☐ NO

Will students be expected to participate in call? ☐ YES ☑ NO
**Course Director:** Milad Yazdani, MD  
Email: yazdani@musc.edu  

**Course Coordinator:** Claudia Richey  
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**Does this rotation accept visiting students?** ☑ YES ☐ NO

**COURSE DESCRIPTION:**
This course is designed to provide students with a better understanding of the central role of diagnostic radiology in the evaluation and management of patients through participation in reading room readouts, radiology call, lectures, case conferences/presentations, online assignments, interactive labs, and observation of the various imaging modalities and procedures. Students will spend the entire rotation in the Neuroradiology reading room.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Appreciate the fundamental role of the radiologist as consultant and the value of imaging to provide timely, accurate, and actionable diagnostic information regarding a patient’s medical condition (MK, SL, PC)
2. Recognize the indications and appropriateness of imaging studies for common clinical problems and utilize evidence based resources (ACR Appropriateness Criteria) to determine imaging appropriateness for less common clinical problems (MK, SL, PL, PR)
3. Describe the risks of medical imaging: radiation induced cancer, contrast nephropathy, contrast reactions and MRI safety (MK, SL, PL, PR, PC)
4. Describe how common neuroradiologic procedures and imaging are performed (MK, CS, PC)
5. Apply basic interpretive skills to evaluate common imaging studies, (CT and MR)-inducing study identification, recognition of normal radiographic and cross-sectional anatomy, and common, potentially life-threatening pathology (MK, PC, PL)

**INSTRUCTIONAL METHODOLOGIES AND ROTATION ACTIVITIES:** Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:
1. Clinical exposure: Students will participate in clinical services interacting with and observing residents and faculty daily
2. Lectures/conferences: Resident led-lectures, faculty-led case presentations, resident conferences, and Grand Rounds
3. 3 interactive labs: Hands on ultrasound scanning with ultrasound guided vascular access, paracentesis and biopsy simulation
4. Reading assignments: Each student will receive a copy of Herring’s Learning Radiology and accompanying web resources
5. Online materials: MedU CORE cases, AHRQ’s Web M&M scenarios, and Radiographic Anatomy review

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Students will be exposed to normal and abnormal imaging studies and procedures on current MUSC patients
2. Students will be exposed to the imaging of a wide variety of clinical conditions including acute and chronic, medical and surgical diseases in patients of all ages.

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)
2. Direct observation of the student’s clinical work by the resident and attending physicians (MK, PR, CS, SL)
3. Evaluation of student participation in case conferences and interactive workshops (PC, PR, CS)
4. Quiz performance based on online assignments, textbook and material presented in resident and case conferences (MK, PL)
5. A mid-point evaluation form will be completed halfway through the rotation in order for the student to be assessed on their performance (MK, PC, PR, CS, SL, PL).

**Will students be expected to participate in call?** ☐ YES ☑ NO
**Course Director:** Susan Ackerman, MD  
Email: ackerman@musc.edu  

**Course Coordinator:** Claudia Richey  
Telephone #: 843-792-2473  
Email: richec@musc.edu

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### Does this rotation accept visiting students?  
- **YES**  
- **NO**

### COURSE DESCRIPTION:

This course is designed to provide students with a better understanding of the central role of diagnostic radiology in the evaluation and management of patients through participation in reading room readouts, radiology call, lectures, case conferences/presentations, online assignments, interactive labs, and observation of the ultrasound interpretation and procedures. This course is designed to introduce participants to the role of ultrasound in patient care including the appropriateness criteria for the use of diagnostic ultrasound and ultrasound guided procedures.

### LEARNING GOALS & OBJECTIVES:

At the completion of this clinical rotation students should be able to do the following:

1. Appreciate the fundamental role of the radiologist as consultant and the value of imaging to provide timely, accurate, and actionable diagnostic information regarding a patient’s medical condition (MK, SL, PC)
2. Recognize the indications and appropriateness of imaging studies for common clinical problems and utilize evidence based resources to determine imaging appropriateness for less common clinical problems (MK, SL, PL, PR)
3. Describe the risks of medical imaging: radiation induced cancer, contrast nephropathy, contrast reactions and MRI safety (MK, SL, PL, PR)
4. Describe how common procedures and imaging are performed (MK, CS, PC)
5. Apply basic interpretive skills to evaluate imaging studies, (plain films, US, CT) –including study identification, recognition of normal radiographic and cross-sectional anatomy and common, potentially life-threatening pathology (MK, PC, PL)

### INSTRUCTIONAL METHODOLOGIES AND ROTATION ACTIVITIES:

Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:

1. Clinical exposure: Students will participate in clinical services interacting with and observing residents and faculty daily
2. Lectures/conferences: Resident led lectures, faculty led case presentations, resident conferences, and Grand Rounds
3. 3 interactive labs: Hands on ultrasound scanning with ultrasound guided vascular access, paracentesis and biopsy simulation
4. Reading assignments: Each student will receive a copy of Herring’s *Learning Radiology* and accompanying web resources
5. Online materials: MedU CORE cases, AHRQ’s Web M&M scenarios, and Radiographic Anatomy review

### PATIENT ENCOUNTERS:

Students will be expected to work-up patients with these specified conditions:

1. Students will be exposed to normal and abnormal imaging studies and procedures on current MUSC patients
2. Students will be exposed to the imaging of a wide variety of clinical conditions including acute and chronic, medical and surgical diseases in patients of all ages

### EVALUATION / FEEDBACK METHODS:

Students will be evaluated using the following methods.

1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)
2. Direct observation of the student’s clinical work by the resident and attending physicians (MK, PR, CS, SL)
3. Evaluation of student participation in case conferences and interactive workshops (PC, PR, CS)
4. Quiz performance based on online assignments, textbook and material presented in resident and case conferences (MK, PL)
5. A mid-point evaluation form will be completed halfway through the rotation in order for the student to be assessed on their performance (MK, PC, PR, CS, SL, PL).

### Will students be expected to participate in call?  
- **YES**  
- **NO**

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**Course Director:** Susan Ackerman, MD  
Email: ackerman@musc.edu  

**Course Coordinator:** Claudia Richey  
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Email: richec@musc.edu
COURSE DESCRIPTION: This course is designed to provide 4th year students with an understanding of diagnostic radiology as it pertains to breast imaging radiology and management of clinical breast disease. Students will participate in reading room readouts, lectures, case conferences/presentations, online assignments, and observation of the various imaging modalities and procedures in breast imaging. Students will attend breast radiology pathology concordance conference and breast tumor board. Students will spend the entire 2 or 4 week rotation in the breast imaging reading room and Hollings Cancer Center Mammography/Breast Imaging Suite.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:

1. Appreciate the fundamental role of radiologist as consultant and the value of imaging to provide timely, accurate, and actionable diagnostic information in screening for breast cancer, evaluation of breast conditions, and a patient’s medical condition. (MK, SL, PC)
2. Recognize the indications and appropriateness of imaging studies for common clinical breast problems and utilize evidence-based resources (ACR Appropriateness Criteria) to determine imaging appropriateness (MK, SL, PL, PR)
3. Understand about various imaging modalities that may be used to diagnose breast conditions. Understand the difference between screening and diagnostic mammogram, the appropriate utilization of breast ultrasound and breast MRI.
4. Describe how common procedures and imaging are performed. (MK, CS, PC)
5. Apply basic interpretative skills to evaluate imaging studies including study identification and recognition of utilization. Recognize the various imaging features of normal and abnormal breast tissue on imaging modalities such as mammograms, ultrasound, MRI etc. (MK, PC, PL)
6. Appreciate the multidisciplinary collaboration to evaluating and managing breast cancer patients. (MK, SL, PC)

INSTRUCTIONAL METHODOLOGIES AND ROTATION ACTIVITIES: Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:

1. Clinical exposure: Students will participate in clinical services interacting with and observing residents, fellows, and faculty daily.
2. Lectures/conferences: Resident-led lectures, faculty-led case presentations, resident conferences, radiology pathology concordance conference, Hollings Cancer Center breast tumor board, and Grand Rounds.
3. 3 interactive labs: Hands on ultrasound scanning with ultrasound guided vascular access, paracentesis and biopsy simulation.
4. Reading assignments: Breast Imaging-Reporting and Data System (BIRADS) mammography section available in the reading room, JACR journal screening mammogram recommendations 2010, ACR appropriateness criteria screening mammogram and palpable breast masses, prepared PowerPoint presentations, and accompanying web resources.
5. Online materials: MedU CORE cases, AHRQ’s Web M&M scenarios, and Radiographic Anatomy review.

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Students will be exposed to normal and abnormal imaging studies and procedures on current MUSC patients.
2. Students will be exposed to a broad spectrum of pathology, acute, chronic, medical, and surgical diseases pertaining to breast care.

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Mid-rotation direct feedback provided and End of rotation E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)
2. Direct observation of the student’s clinical work by the resident, fellow, and attending physicians (MK, PR, CS, SL)
3. Evaluation of student participation in case conferences and interactive workshops (PC, PR, CS)
4. Quiz performance based on online assignments, textbook and material presented in resident and case conferences (MK, PL)
5. A mid-point evaluation form will be completed halfway through the rotation in order for the student to be assessed on their performance (MK, PC, PR, CS, SL, PL).

Does this rotation accept visiting students? ☐ YES ☒ NO

Will students be expected to participate in call? ☐ YES ☒ NO
RAD 865: Radiologic & Pathologic Correlation

**Course Director:** Jeanne G. Hill, MD, and Laura Spruill, MD  
E-mail: hillj@musc.edu; spruill@musc.edu  

**Course Coordinator:** Claudia Richey  
Telephone #: (843) 792-2473  
E-mail: richec@musc.edu

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Does this rotation accept visiting students?  
[ ] YES  
[ ] NO

**COURSE DESCRIPTION:** In this 4-week elective, the student will attend a variety of clinical tumor boards, and identify and direct the collection of current clinical cases which demonstrate outstanding correlation of imaging and pathology. Case documentation will include review of patient history, physical exam findings, imaging, gross and microscopic pathology findings, and diagnosis. Cases will be uploaded by the student into an internet based teaching file to be subsequently used by medical students, residents, and faculty in the departments of radiology and pathology. At least 2 cases should include complete information and thorough discussion of the radiologic and pathologic features of a disorder/disease process suitable for submission for publication as a case report.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Identify potential radiologic-pathologic correlation cases from hospital information systems. (SL)
2. Identify optimal images from multiple imaging modalities displaying radiologic pathologic correlation. (MK)
3. Describe the advantages of multidisciplinary care as demonstrated by tumor boards. (PC, CS, SL)
4. Describe the pertinent imaging characteristics of a variety of pathologic disorders. (MK, PC, CS)
5. Describe the gross appearance of pathologic specimens. (MK, CS)
6. Observe the optimal sectioning of gross specimens for radiologic pathologic correlation. (MK, PC, CS, SL)
7. Perform a focused literature search. (PL, MK, PR)
8. Read and analyze scientific literature. (PL, MK, PR)
9. Prepare a potentially publishable scientific case report. (MK, PL, CS)

**INSTRUCTIONAL METHODOLOGIES AND ROTATION ACTIVITIES:** Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:
1. Attendance in a broad spectrum of Tumor Boards (including Pediatric, Thoracic, Breast, GI, and Head and Neck).
2. Review of patient histories, imaging, and pathology
3. Review of current scientific literature, with supervision, feedback, and approval
4. After instruction in the teaching file software, development of radiologic and pathologic teaching file cases to be presented at the end of the rotation during the monthly Department of Radiology and Pathology Rad/Path Conference.

**PATIENT ENCOUNTERS:** Students will be expected to review and summarize the work-up of patients with the following specified conditions:
1. A spectrum of pathologic conditions (primarily inflammatory/infectious, autoimmune and neoplastic) in at least 2 adults and/or children who receive care at Medical University Hospitals.

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)
2. Faculty evaluation of Teaching File Cases and Presentations (PR, MK, CS, SL, PL)
3. Faculty evaluation of Literature Search and Case Report (PC, MK, CS, PL)
4. A mid-point evaluation form will be completed halfway through the rotation in order for the student to be assessed on their performance (MK, PC, PR, CS, SL, PL).

Will students be expected to participate in call?  
[ ] YES  
[ ] NO