COURSE DESCRIPTION:
Only students seeking a residency in Anesthesia are allowed to schedule a rotation prior to January. The course is an introduction to general anesthesia management and encompasses the anesthetic subspecialties of pediatric, neurosurgical, cardiothoracic, obstetrical anesthesia, and pain management. The student will acquire a working knowledge of commonly used anesthetic agents, techniques and airway management.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Discuss cardiovascular and pulmonary physiology as applied in a variety of clinical settings and disease processes and discuss clinically applicable pharmacokinetics and pharmacodynamics across various pharmacologic therapies (MK)
2. Start an intravenous line and have been guided through the process of intubations, place LMAs (laryngeal mask airways), start an arterial line, and central venous access (PC)
3. Discuss the treatment of acute pain through various modalities, including oral, intravenous, neuraxial, and regional techniques, as well the ethics involved in the treatment of pain (MK)
4. Communicate basic Advanced Cardiac Life Support principles with particular attention placed on airway management and understand the basics of Difficult Airway Management as demonstrated in a simulation course (MK)

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. Participation in weekly assignments in the operating rooms and a 5-10 minute oral presentation on one of the patients
2. Attendance at Tuesday morning grand rounds, Tuesday afternoon simulation sessions (led by attending anesthesiologist), Wednesday afternoon resident lectures, Thursday afternoon medical student lectures (led by an anesthesia resident)
3. Completion of at least 1 night of call in the main operating rooms
4. Completion of assigned reading chapters each week associated with required lectures

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Patients with cardiovascular disease undergoing surgery
2. Patients undergoing labor epidural or c-section
3. Patients undergoing surgery related to trauma

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 clinical skills performance by residents and attendings each day and discussion of didactic/reading topics, with application to daily clinical cases (PC, MK)
3. An oral presentation on a patient, including medical problems, type of surgery, anesthesia, and other interesting issues (MK)
4. Mid-Point Feedback - A mid-point evaluation form will be completed half way 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
Students are expected to take call when their assigned resident is on call, with the exception of Friday-Monday night call.
Does this rotation accept visiting students? □ YES  □ NO

COURSE DESCRIPTION:
This critical care rotation in the combined medical-surgical MSICU will challenge the fourth-year medical student with managing complex patients with a wide variety of medical and surgical problems.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Manage, with supervision, a patient with a common critical illness as part of a multidisciplinary team (PC)
2. Understand and explain the physiology, pharmacology, and pathophysiology related to the management of critically ill patients (MK)
3. Interpret a variety of invasive and noninvasive monitoring, imaging, and laboratory data necessary to manage critically ill patients (MK)

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. Participation in examining and evaluating admitted patients
2. Daily rounding on ICU patients and presentation of patient condition during morning attending/teaching rounds
3. Frequent/continuous reevaluation of patients according to acute changes of medical conditions
4. Attendance at 4 - 6 informal lectures on critical care topics (typically at 1:00 pm in the MSICU)
5. Completion of problem-based learning focused on using the available literature to research one patient/problem per week

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Postoperative recovery of patients with multiple or severe comorbidities and/or conditions after intraoperative complications
2. Respiratory dysfunction requiring mechanical ventilation and/or extended respiratory treatment
3. Hemodynamical and/or cardiological dysfunction requiring extended and/or invasive monitoring
4. Multi-organ-dysfunction syndrome in patients having long lasting life-threatening conditions
5. Altered mental status due to conditions with high risk of severe complications

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 clinical/practical skills performance by residents and attending on a daily basis (PC, PR, PL)
3. Discussion and communication with staff, residents and attendings during daily rounds and work in the ICU, confirming student’s appropriate level of knowledge and understanding (PC, PR, MK, CS, SL, PL)
4. Specific personal feedback according to outstanding events and extraordinary occasions by staff, residents, and attendings (PC, CS)
5. Discussion in interactive didactic sessions (MK, PL)
6) Mid-Point Feedback - A mid-point evaluation form will be completed half way 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
Students will be expected to take night call once per week. Weekend days will be evenly split amongst available students (with a maximum of 4 weekend days per 4-week block).
Does this rotation accept visiting students? ☒ YES ☐ NO

COURSE DESCRIPTION:
The pain management rotation is an opportunity for the student to learn the fundamentals of pain and pain management. The rotation is intended to provide an overview of the neuroanatomy, physiology, pathology, diagnosis and treatment of pain. Students are exposed to a wide variety of disease processes requiring pain management and these include acute, chronic and cancer pain in the adult and pediatric populations.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Understand and discuss the types of pain and classification of pain (MK)
2. Understand pharmacology of local anesthetics (MK)
3. Understand the use of patient-controlled analgesia (MK)
4. Identify the landmarks and techniques for performing, indications, risks, and complications for nerve blocks in pain treatment (MK)
5. Demonstrate knowledge of the psychosocial aspects of chronic pain (MK)

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 at Tuesday morning grand rounds, Tuesday afternoon simulation sessions (led by attending anesthesiologist), Wednesday afternoon resident lectures, Thursday afternoon medical student lectures (led by an anesthesia resident) optional
2. Attendance and participation in rounds and discussions of patients
3. Evaluations of and interaction with the patients

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Acute pain
2. Chronic pain
3. Cancer pain

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 interviewing and examining of the patients (PC, CS)
3. Following each patient interaction, the student will give an oral presentation describing the findings along with a diagnosis and treatment plan (MK)
4. Mid-Point Feedback - A mid-point evaluation form will be completed half way 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
DERM 863: Dermatology

Course Director: Richard Marchell, MD
Email: marchell@musc.edu

Course Coordinator: Cathy Barrus
Telephone #: 843-792-9784
Email: barrusc@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td></td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>Block 8A: 1/26/15 – 2/6/15</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Does this rotation accept visiting students? ☒ YES ☐ NO

COURSE DESCRIPTION:
Students will observe and participate in the diagnosis and management of a wide variety of dermatologic diseases. All students scheduled in blocks 1 through 6 must receive approval first from Dr. Marchell. MUSC students should contact Dr. Marchell by email at marchell@musc.edu. Visiting students will be screened through VSAS.

LEARNING GOALS AND OBJECTIVES: At the completion of this clinical rotation, students should be able to:
1. Perform a complete skin examination (MK, PC)
2. Diagnose and treat common skin conditions (MK, PC)
3. Describe basic dermatologic procedures (MK, PC)
4. Discuss the basics of dermatologic therapy (MK, PC)
5. Identify which patients need referral to a dermatologist (MK, PC)
6. Demonstrate the ability to use proper terminology to describe skin lesions or rashes (MK, 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. Independent completion of the American Academy of Dermatology 4-week medical student core curriculum (online).
2. Participation in inpatient rounds.
3. Participation in resident clinics at the VA and MUSC.
4. Review of skin pathology slides at the multi-headed teaching microscope in the dermatopathology lab with Dr. Metcalf or Dr. Ralston.
5. Meet with the course director every Wednesday from 9:00 - 11:00 am for teaching sessions.

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Non-melanoma skin cancers
2. Acne
3. Psoriasis
4. Atopic Dermatitis
5. Dermatophyte Infections

EVALUATION / FEEDBACK METHODS:
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)
2. Written exam and clinical images quiz at the end of the rotation. (MK)
3. 10-minute presentation on a dermatologic topic of the student's choice. (MK, PL, CS)
4. Attending and resident evaluation of performance during clinical encounters. (PC, MK, CS, PR)
5. A mid-point evaluation form will be completed half way 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
Does this rotation accept visiting students? □ YES □ NO

COURSE DESCRIPTION:
Students will learn to save lives in the wilderness while earning Advanced Wilderness Life Support (AWLS) Certification. The course uses structured didactic sessions and hands-on practical instruction in a variety of outdoor settings to teach the diagnosis and initial management of the most common wilderness injuries and illnesses. There is a required course fee that will cover your Advanced Wilderness Life Support certification as well as some of the outdoor excursions. This fee will not exceed $200. Students are required to complete a waiver form. All students will be expected to be able to engage in moderate physical activity. Students that are pursuing Emergency Medicine as a career will have first preference for this course.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Demonstrate the correct steps in patient assessment in the wilderness. (PC, MK)
2. Describe the initial treatment guidelines for life support in the wilderness. (PC, MK, SL)
3. Describe the management of common medical and trauma emergencies and urgencies in the wilderness while awaiting definitive care. (PC, MK, 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. Attend didactic sessions to gain medical knowledge about wilderness medicine.
2. Attend practical sessions to gain hands-on experience in patient assessment and stabilization.
3. Prepare and present to the group a lecture on a chosen topic.

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Students will learn and practice patient assessment and stabilization skills utilizing learners in the scripted roles of standardized 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. Written exam at the end of elective. (MK)
3. Practical exam at the end of elective. (PC, CS)
4. Evaluation of content and presentation of lecture. (MK, PL, CS)
5. Narrative description based on learner participation and teamwork skills. (CS, PR)

Will students be expected to participate in call? □ YES □ NO
EMED 844: Procedural Skills Boot Camp

Course Director: Pauline Meekins, MD
Email: meekinsp@musc.edu

Course Coordinator: Melanie Pigott
Telephone #: 843-876-8023
Email: pigott@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Does this rotation accept visiting students? ☐ YES ☒ NO

COURSE DESCRIPTION:
The purpose of this course is to provide fourth-year medical students with the knowledge and skills to independently and successfully perform common Emergency Medicine life-saving procedures. Simulation-based education in the fourth year of medical school has been shown to increase the student’s preparedness for postgraduate training by increasing both confidence and competence. This 2-week elective course is geared towards the fourth-year medical student matching in Emergency Medicine (EM). It consists of didactic sessions focusing on core EM procedures, as well as hands-on simulations designed to help achieve competence in these procedures. Sessions will be instructed by an EM faculty member and a senior EM resident, and will take place both in classrooms and the MUSC Simulation Center.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Identify the indications, contraindications, necessary equipment, methods and techniques, and complications of common EM procedures (MK)
2. Perform the procedures in a simulated environment using deliberate practice (MK, PC, PR, PL)
3. Integrate learned procedural skills into simulated patient encounters (MK, PC, CS, PR, PL, SL)

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. Lectures and discussion in a classroom format
2. Simulation using both high-fidelity mannequins and part-task trainers

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. ACLS
2. Difficult Airway
3. Central Venous Access
4. Lumbar Puncture
5. Chest Tubes
6. Cricothyrotomies
7. Adult Medical Resuscitation
8. Adult Trauma Resuscitation

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, PL, SL)
2. Feedback provided by instructors via direct observation, debriefing methodologies, and checklists to ensure a competency standard has been met (MK, PC, PR, PL)

Will students be expected to participate in call? ☐ YES ☒ NO
EMED 852: Emergency Medicine Externship

**Course Director:** Simon Watson, MD  
Email: watsonsc@musc.edu  

**Course Coordinator:** Melanie Pigott  
Telephone #: 843-876-8023  
Email: pigott@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 2A</td>
<td>11</td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td>Block 5B: 11/9/15 – 11/20/15</td>
<td>Block 6B: 12/7/15 – 12/18/15</td>
<td>Block 7B: 1/18/16 – 1/29/16</td>
</tr>
</tbody>
</table>

Does this rotation accept visiting students? ☒ YES ☐ NO

**Course Description:**
The course consists of 15 nine-hour shifts in the Emergency Department (ED). During each shift, the student will interact with patients and learn how to perform an expeditious and focused H&P. The student will focus on how to order appropriate diagnostic tests and formulate a differential diagnosis. The student will work closely with the attending on duty and learn how to treat and manage many various illnesses and injuries. The ED operates 24 hours a day, 7 days a week. Orientation will occur on the first day of the rotation. Preference is that the months of July-November be reserved for those medical students entering Emergency Medicine as their chosen specialty.

**Learning Goals & Objectives:** At the completion of this clinical rotation students should be able to do the following:

1. Conduct an initial assessment of a patient in the ED and perform stabilization techniques (MK, PC, CS, PR)
2. Establish a differential diagnosis, and order and interpret appropriate diagnostic tests (including imaging studies) related to the differential diagnosis (MK, PL, SL)
3. Manage acutely ill and/or injured patients (MK, PC, PR, CS)
4. Perform procedural skills (i.e., I.V. access, blood drawing from femoral sticks, arterial sticks, sutures, I&D’s, wound care, fracture splinting) (MK, PC, PL)
5. Participate in reading EKGs, ABG interpretation, and patient case discussions (MK, PR, PL, SL)

**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. Lectures, rounds, and discussion
2. Patient contact and patient load

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

1. Chest pain and abdominal pain
2. Trauma
3. Altered mental state
4. Procedures may include laceration repair, abscess incision and drainage, lumbar puncture, amongst others

**Evaluation / Feedback Methods:** Students will be evaluated using the following methods.

1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, PL, SL)
2. Direct observation of clinical and patient care skills as evaluated by the ED attending physician. (MK, PC, PR, CS)
3. The students will be evaluated on their ability to follow the patient through the course of the ED which could include consultations, an admission or a discharge from the ED. (PR, CS, PL, SL)
4. Active participation in group discussion as evaluated by the ED attending physician. (MK, PC, PR, CS, SL, PL)
5. Participation in the weekly EM didactic sessions as evaluated by the faculty as well as the residents. (MK, PR, CS, PL, SL)
6. The student will be required to present a case report of their choosing during one didactic session – duration of no more than five minutes – and will be evaluated by their peers, the EM residents, and the faculty present. (MK, PC, PR, CS, PL, SL)
7. Mid-Point Feedback – Student will receive feedback from attendings at the end of clinical shifts. (MK, PC, PR, CS, SL, PL).

Will students be expected to participate in call? ☐ YES ☒ NO
Does this rotation accept visiting students? ☒ YES ☐ NO

**COURSE DESCRIPTION:**
This course is intended for students going into the field of Emergency Medicine. During the four-week rotation, the student will focus on Emergency Ultrasound (EUS) skills. They will complete a minimum of 50 scans in pertinent areas of EUS including Aorta, Biliary, Trauma, Cardiac, Renal, DVT, Soft Tissue/MSK, Thoracic, Ocular, Obstetric, and Procedural Ultrasound. There will be scheduled one on one time with EUS faculty, as well as a weekly scan review. Students will present one case at the end of their month, as well as complete interactive quizzes pertinent to required reading.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Describe the clinical indications for which bedside ultrasound would be useful. (MK5, PC3)
2. Demonstrate skills in the utilization of bedside ultrasound for diagnosis in appropriate ED patients (PC7)
3. Demonstrate skills necessary for ultrasound guided procedures (IVs, etc.) (PC7)
4. Describe the difference between normal and abnormal anatomy found on ultrasound and how these differences affect normal physiology. (MK4)
5. Outline situations in which a more complete US scan may be needed by consultative services (Radiology, Cardiology, OB/GYN) (PC3)

**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. Perform at least 50 US scans in the basic areas of Emergency Ultrasound.
2. Participate in formal scan review as well as dedicated one on one time with the Emergency Ultrasound Faculty.
3. Complete reading assignments (book chapters and journal articles) as required per the rotation handbook.
4. Present one interesting case during general Emergency Medicine Didactics.

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Students will have encounters with patients in the emergency department with a broad spectrum of disease processes.
2. Patients presenting with injuries sustained from trauma.
3. Encounters related to medical and surgical processes requiring emergent evaluation.
4. Patients with exacerbations of chronic medical conditions.

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)
2. Pre and post-test of ultrasound skills and assigned readings (MK, PC)
3. Ultrasound scan review sessions (PL, MK, PC)
4. Observed hands-on time with EUS faculty during EUS scans (PR, PC)
5. Weekly evaluations will be given to students through direct hands-on scanning with the students

Will students be expected to participate in call? ☒ YES ☐ NO
Does this rotation accept visiting students?  [ ] YES  [x] NO

COURSE DESCRIPTION:
The students work closely with a family physician, gaining genuine experience in family medicine and primary health care delivery. This elective should be beneficial in choosing a career in medicine for those considering family medicine, and future consultants may gain an appreciation for the role of the family physician.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Describe features of private practice that differ from hospital-based or academic practice (SL)
2. Identify and address the patient's reasons for the visit (PC)
3. Negotiate the assessment and plan with the preceptor and patient (PC)
4. Discuss the methods to improve the business of providing health care services in an ambulatory practice (PL)
5. Analyze the life style of the preceptor in relationship to practice style (PR)
6. Describe opportunities and optimal approaches for integrating disease prevention/health promotion into clinical practice. (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. Patient Contact

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Diabetes
2. Hypertension
3. Respiratory Infections, including pharyngitis, URI, sinusitis, and bronchitis
4. Hyperlipidemia
5. Musculoskeletal pain, including low back, shoulder, knee, hip, and ankle pain

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)
2. Preceptor's Assessment of Student Performance (PC, PR, MK, CS, SL, PL)
3. A mid-point evaluation form will be completed half way 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  [x] NO
Course Director: Alec DeCastro, MD
Email: decastrao@musc.edu

Course Coordinator: Sarah McIntyre
Telephone #: 843-876-2914
Email: mcintyrs@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1:</td>
<td></td>
<td>Block 4A:</td>
<td>9/28/15 – 10/9/15</td>
<td></td>
<td>Block 7B: 1/18/16 – 1/29/16</td>
</tr>
<tr>
<td>Block 1A:</td>
<td>7/6/15 – 7/31/15</td>
<td>Block 4B:</td>
<td>10/12/15 – 10/23/15</td>
<td></td>
<td>Block 8: 2/1/16 – 2/26/16</td>
</tr>
<tr>
<td>Block 1B:</td>
<td>7/20/15 – 7/31/15</td>
<td>Block 5:</td>
<td>10/26/15 – 11/20/15</td>
<td>1</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
</tr>
<tr>
<td>Block 2:</td>
<td>8/3/15 – 8/28/15</td>
<td>1</td>
<td>Block 5A:</td>
<td>10/26/15 – 11/6/15</td>
<td></td>
</tr>
</tbody>
</table>

Does this rotation accept visiting students? ☑ YES ☐ NO

COURSE DESCRIPTION:
The student will be scheduled to assist with direct patient care activities with sports medicine physicians. In addition, the student will rotate through physical therapy. Finally, the student will be expected to develop and present a morning report/noon conference on a primary care sports medicine topic.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Develop and utilize a basic foundation of knowledge in primary care sports medicine.
2. Demonstrate understanding and promote the role of exercise in health promotion and disease prevention (and be able to prescribe an individualized exercise program).
3. Demonstrate an understanding of injury prevention and be able to manage common exercise and sport related injuries, acutely and chronically. (Detailed objectives will be provided.)

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. Assist with direct patient care
2. Complete recommended reading assignments
3. Provide formal presentation on a sports medicine topic of choice

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Sports Medicine and Other Musculoskeletal Complaints

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)
2. At the end of each week, the preceptor will provide verbal feedback regarding your performance (MK, PC, PR, CS, PL, SL)

Will students be expected to participate in call? ☐ YES ☑ NO
FAMMD 862: Clinical Medicine Spirituality & Health

**Course Director:** Eric Matheson, MD, MS, and Russell Blackwelder, MD  
Email: matheson@musc.edu, blackwr@musc.edu  

**Course Coordinator:** Sarah McIntyre  
Phone: 843-876-2914  
Email: mcintyrs@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1: 7/6/15 – 7/31/15</td>
<td>Block 4A: 9/28/15 – 10/9/15</td>
<td>1</td>
<td>Block 7B: 1/18/16 – 1/29/16</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td>1</td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>1</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Block 2: 8/3/15 – 8/28/15</td>
<td>Block 5A: 10/26/15 – 11/6/15</td>
<td>1</td>
<td>Block 8B: 2/15/16 – 2/26/16</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Block 3A: 8/31/15 – 9/11/15</td>
<td>Block 6B: 12/7/15 – 12/18/15</td>
<td>1</td>
<td>Block 10: 3/28/16 – 4/22/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 3B: 9/14/15 – 9/25/15</td>
<td>Block 7: 1/4/16 – 1/29/16</td>
<td>1</td>
<td>Block 10A: 3/28/16 – 4/8/16</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Does this rotation accept visiting students? □ YES ☑ NO

**COURSE DESCRIPTION:**
Taking a spiritual history and referring patients with spiritual concerns to chaplains or ministers are basic clinical skills that every medical provider should learn. Inquiry into the spiritual areas of patients’ lives, previously considered taboo, is now taught as method of delivering more comprehensive and compassionate care at over 70 medical schools. Spiritual inquiry is justified by the need to obtain important medical information and explore the patient’s point of view regarding their illness, but it must be done in such a way that respects the patient’s privacy, confidentiality, and autonomy. Effectively integrating spiritual sensitivity into clinical practice is a challenge that should be addressed by all physicians and clinical care providers. **Please e-mail Jennifer Gavin the week before you begin the course to obtain the schedule and reading materials, or if you have any questions throughout the course. Also note that only 1 excused absence for interviews/exams will be allowed during the rotation.**

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Take a Spiritual History from a patient (CS, PR, PC, PL)
2. Integrate Sensitivity to Spiritual Needs into the Clinical Encounter (PC, PR, MK, CS, PL)
3. Be able to refer patients to several available Spiritual and Religious health resources in the hospital and community. (PR, PC, MK, CS, PL, SL)

**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: *(Please refer to your individual schedule for exact number of days for each activity.)*
- # half-days a week of outpatient clinical medicine
- # half-days a week with the chaplain
- # half-days a week of inpatient rounding
- # half days a week of reading time

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Acute illnesses in an outpatient family medicine clinic
2. Patients hospitalized on a family medicine inpatient service, with pneumonia, COPD, heart disease, and other conditions
3. Hospice patients with terminal cancer and other terminal conditions
**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 by faculty during direct patient care (PC, PR, CS)
3. A mid-point evaluation form will be completed half way through the rotation in order for the student to be assessed on their performance (MK, PC, PR, CS, SL, PL).
4. One write-up of an illustrative case by collecting a spiritual history from a patient, evaluating them using the H.O.P.E. assessment. (MK, CS)

Will students be expected to participate in call?  
☐ YES  ☒ NO
**FAMMD 865: Inpatient Family Medicine Externship (MUSC Hospital)**

**Course Director:** Alec DeCastro, MD  
Email: decastra@musc.edu  

**Course Coordinator:** Sarah McIntyre  
Telephone #: 843-876-2914  
Email: mcintyrs@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1: 7/6/15 – 7/31/15</td>
<td>1</td>
<td>Block 4A: 9/28/15 – 10/9/15</td>
<td>Block 7B: 1/18/16 – 1/29/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td>1</td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td>1</td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 2: 8/3/15 – 8/28/15</td>
<td>1</td>
<td>Block 5A: 10/26/15 – 11/6/15</td>
<td>Block 8B: 2/15/16 – 2/26/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 3A: 8/31/15 – 9/11/15</td>
<td>1</td>
<td>Block 6B: 12/7/15 – 12/18/15</td>
<td>Block 10: 3/28/16 – 4/22/16</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Does this rotation accept visiting students?** ✓ YES □ NO

**COURSE DESCRIPTION:**
This elective is structured to provide the student with an inpatient experience on an academic family medicine service. Students are expected to complete four weeks as an acting intern on our inpatient service. This rotation is done at MUSC Hospital.

**LEARNING GOALS & OBJECTIVES:**
At the completion of this clinical rotation students should be able to do the following:
1. Perform a complete patient interview and physical exam for patients requiring hospital admission. (PC, CS)
2. Review and synthesize patient findings, using evidence-based medicine, to develop a management plan for hospitalized patients. (MK, PC, PL)
3. Present patient evaluations and management plans to the patient care team. (CS, PR)
4. Communicate with consultants and ancillary staff regarding the care and management of a patient. (CS, PR, SL)

**INSTRUCTIONAL METHODOLOGIES AND ROTATION ACTIVITIES:**
Students on this rotation will be expected to learn and achieve the educational goals and objectives through participation in the following activities:
1. Lectures (Morning Reports and Noon Conferences)
2. Inpatient Rounds

**PATIENT ENCOUNTERS:**
Students will be expected to work-up patients with these specified conditions:
1. Congestive Heart Failure
2. Chest Pain
3. Chronic Obstructive Pulmonary Disease
4. Stroke vs. Transient Ischemic Attack
5. Pneumonia
6. Sepsis
7. Cellulitis

**EVALUATION / FEEDBACK METHODS**: Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)
2. At the end of each week, the attending on service will provide verbal feedback regarding your performance (MK, PC, PR, CS, PL, SL)

**Will students be expected to participate in call?** ✓ YES □ NO
Students are expected to participate in “late-stay” until 10:00 pm once per week.
**FAMMD 865: Inpatient/Outpatient Family Medicine Externship (Trident Hospital)**

**Course Director:** Alec DeCastro, MD  
Email: decastra@musc.edu  

**Course Coordinator:** Sarah McIntyre  
Telephone #: 843-876-2914  
Email: mcintyrs@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td></td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td></td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td>4</td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td></td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>4</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
</tr>
<tr>
<td>Block 3A: 8/31/15 – 9/11/15</td>
<td></td>
<td>Block 6B: 12/7/15 – 12/18/15</td>
<td></td>
<td>Block 10: 3/28/16 – 4/22/16</td>
<td>4</td>
</tr>
</tbody>
</table>

Does this rotation accept visiting students? ☒ YES ☐ NO

**COURSE DESCRIPTION:**
This elective will provide students with an inpatient and outpatient experience representative of a community family medicine physician. Students are expected to complete 2 weeks as an acting intern on our inpatient service, 5 nights (8pm – 10am) of night-float, and a week at our resident outpatient practice. This rotation is done at Trident Hospital. Students will be required to complete a credentialing packet before the start of the rotation.

**LEARNING GOALS & OBJECTIVES:**
1. At the completion of this clinical rotation students should be able to do the following:
2. Perform a complete patient interview and physical exam for patients requiring hospital admission. (PC, CS)
3. Review and synthesize patient findings to develop a management plan for hospitalized patients. (MK, PC, PL)
4. Communicate with consultants and ancillary staff regarding the care and management of a patient. (CS, PR, SL)
5. Assess commonly encountered outpatient problems and develop an appropriate management plan. (MK, PC)

**INSTRUCTIONAL METHODOLOGIES AND ROTATION ACTIVITIES:**
Students on this rotation will be expected to learn and achieve the educational goals and objectives through participation in the following activities:
1. Lectures (Morning Reports and Noon Conferences)
2. Inpatient Rounds
3. Ambulatory Patient Visits
4. Night-float (8pm – 10am, 5 consecutive nights)

**PATIENT ENCOUNTERS:**
Students will be expected to work-up patients with these specified conditions:
1. Congestive Heart Failure
2. Chest Pain
3. Chronic Obstructive Pulmonary Disease
4. Stroke vs. Transient Ischemic Attack
5. Pneumonia

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)
2. At the end of each inpatient week, the attending will provide verbal feedback (MK, PC, PR, CS, PL, SL)
3. Verbal feedback will be provided for night-float each morning after rounds by the attending (MK, PC, PR, CS, PL, SL)
4. During outpatient clinic, the student should give a feedback form to 1 or 2 residents worked with most frequently. They should discuss this feedback with you and then return the forms to the rotation coordinator. (MK, PC, PR, CS, PL, SL)

Will students be expected to participate in call? ☒ YES ☐ NO

The student will be expected to complete 5 consecutive nights of night-float, 8pm – 10am.
COURSE DESCRIPTION:
This comprehensive elective exposes students to all aspects of laboratory medicine including chemistry, microbiology, hematology, immunology, transfusion medicine and molecular diagnostics. The students will participate in laboratory rotations, laboratory rounds, conferences and small group sessions with attending faculty, residents, fellows and clinical laboratory staff. The overall objectives of the rotation are for the student to gain an appreciation of the role of laboratory measurements in the diagnosis and management of patients and to understand the preanalytical, analytical and post-analytical factors that influence laboratory results.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Identify the important preanalytical, analytical and post-analytical variable that influences laboratory results. (MK, PC, SL)
2. Discuss the basic principles and test methods used in the clinical chemistry, microbiology, transfusion medicine, hematology and immunology laboratories. (MK, PC, SL)
3. Describe the relationship of clinical laboratory results to diagnosis and patient management. (MK, SL)

INSTRUCTIONAL METHODOLOGIES AND ROTATION ACTIVITIES: Students on this rotation will be expected to learn and achieve the educational goals and objectives through the attending following methodologies and activities:
1. Lectures (Laboratory Medicine Core Lecture Series for Pathology Residents; Thursdays, 8 to 9 am; CH 204)
2. Lab (Rotations through the different Clinical Laboratory sections as described above)
3. Conference (Clinical Pathology On-call Conference; Mondays 8:30-9:30 am; CH 204)
4. Seminars (Pathology Journal Club; 2nd Wednesday, 8 to 9 am and Grand Rounds; 1st Wednesday, 8 to 9 am; CH 204)
5. Small Groups (Daily with faculty at various times)
6. Independent study (Assigned reading and review with faculty)

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Students present clinical problem or case in which the laboratory results were particularly important in diagnosis or management that they encountered during the laboratory rotations. Cases selected depend upon the students’ interest.

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 (MK, PR, SL CS)
3. Oral Presentation (MK, PL)
4. A mid-point evaluation form will be completed half way 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

LABMD 853: Laboratory Medicine

Course Director: Frederick Nolte, PhD
Email: nolte@musc.edu

Course Coordinator: Lisa Coulter
Telephone #: 843-792-6483
Email: coulterl@musc.edu
LEARNING GOALS & OBJECTIVES: To participate in laboratory diagnostics as well as ultrasound performance and interpretation. How to treat and manage various illnesses and injuries including tropical diseases. Furthermore, the student will have the opportunity to understand the medical limitations encountered in medical care in the developing world. The student will work closely with the attending on duty and learn to establish a differential diagnosis including potential tropical diseases, zoonotic diseases, and diseases related to inadequate public health and order/interpret appropriate diagnostic tests (including imaging/lab studies) related to the differential diagnosis (MK, PL, SL). Students on this rotation will be expected to learn to perform procedural skills if desired (i.e., I.V. access, blood drawing, sutures, I&D’s, wound care, fracture splinting) (MK, PC, PL). Students will be expected to work-up patients with conditions from all organ systems, including: Malaria, Typhoid and other Tropical or Infectious Diseases common to the area, Chest pain, abdominal pain, diabetes, hypertension, cellulitis, trauma, and non-infectious diseases.

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. Lectures, rounds, and discussion consisting of two pre-trip lectures of 1 hour each, assigned readings and one post-trip lecture of 1-2 hrs. - including a post-rotation debriefing session with course director
2. Patient contact and patient load
3. Post-elective case presentation to peers and faculty.
4. Active participation in group discussion as evaluated by the attending physicians or MKMC staff. (MK, PC, PR, CS, SL, PL)
5. Participation in weekly didactic sessions as evaluated by the course director. (MK, PR, CS, PL, SL)

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.

1. Clinical Performance Evaluation (PC, PR, MK, CS, PL, SL) with direct observation of clinical and patient care skills evaluated by the attending physician. (MK, PC, PR, CS)
2. Participation/reading blood smears, lab interpretation, ultrasound interpretation, and patient case discussions (MK, PR, PL, SL)
3. The students will be evaluated on their ability to follow the patient through the course of their time at MKMC which could include an admission. (PR, CS, PL, SL)
4. Participation in ongoing research (optional).
5. Active participation in group discussion as evaluated by the attending physicians or MKMC staff. (MK, PC, PR, CS, SL, PL)

Does this rotation accept visiting students? ☑ YES ☒ NO

COURSE DESCRIPTION: This course is a four-week clinical elective at the PMI Nicaragua Medical Center in El-Viejo, Nicaragua sponsored by the Palmetto Medical Initiative. The course will involve Monday through Friday clinical shifts of 8 hours (9am-5pm) in the outpatient, urgent care, and emergency medicine settings in El-Viejo, Nicaragua, as well as the Emergency Department of the University Medical Center in Leon, Nicaragua. Students will have the opportunity to shadow physicians in Chinandega, Nicaragua. Optional 8am-12pm shifts are available on Saturdays as well. During each shift, the student will interact with patients and learn how to perform a focused H&P. The student will focus on how to order appropriate diagnostic tests and formulate a differential diagnosis while adapting to the many limitations encountered in medical care in the developing world. The student will work closely with the attending on duty and learn how to treat and manage various illnesses and injuries including tropical diseases. Furthermore, the student will have the opportunity to participate in laboratory diagnostics as well as ultrasound performance and interpretation.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Conduct an initial assessment of a patient in the developing world and perform stabilization techniques (MK, PC, CS, PR)
2. Establish a differential diagnosis including potential tropical diseases, zoonotic diseases, and diseases related to inadequate public health and order/interpret appropriate diagnostic tests (including imaging/lab studies) related to the differential diagnosis (MK, PL, SL)
3. Manage acutely ill and/or injured patients as well as stable outpatients (MK, PC, PR, CS, PL, SL)
4. Perform procedural skills if desired (i.e., I.V. access, blood drawing, sutures, I&D’s, wound care, fracture splinting) (MK, PC, PL)
5. Participation/reading blood smears, lab interpretation, ultrasound interpretation, and patient case discussions (MK, PR, PL, SL)
6. Develop an understanding of the differences in the healthcare systems in Nicaragua and the US (PL, SL)
7. Participate in ongoing research (optional).

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. Lectures, rounds, and discussion consisting of two pre-trip lectures of 1 hour each, assigned readings and one post-trip lecture of 1-2 hrs. - including a post-rotation debriefing session with course director
2. Patient contact and patient load
3. Post-elective case presentation to peers and faculty.

PATIENT ENCOUNTERS: Students will be expected to work-up patients with conditions from all organ systems, including:
1. Malaria, Typhoid and other Tropical or Infectious Diseases common to the area
2. Chest pain, abdominal pain, diabetes, hypertension, cellulitis, trauma, and non-infectious diseases

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.

1. Clinical Performance Evaluation (PC, PR, MK, CS, PL, SL) with direct observation of clinical and patient care skills evaluated by the attending physician. (MK, PC, PR, CS)
2. Participation/reading blood smears, lab interpretation, ultrasound interpretation, and patient case discussions (MK, PR, PL, SL)
3. The students will be evaluated on their ability to follow the patient through the course of their time at MKMC which could include an admission. (PR, CS, PL, SL)
4. Active participation in group discussion as evaluated by the attending physicians or MKMC staff. (MK, PC, PR, CS, SL, PL)
5. Participation in weekly didactic sessions as evaluated by the course director. (MK, PR, CS, PL, SL)
6. The student will be required to present a case report or original paper of their choosing during one didactic session and will be evaluated by their peers, the EM residents, and the faculty present at EM conference. (MK, PC, PR, CS, PL, SL)

**Will students be expected to participate in call?** ☑ YES ☐ NO

**ADDITIONAL INFORMATION:** This course requires the following:

1. Approval by the COM Associate Dean for Curriculum – Clinical Sciences and the COM Selectives and Electives Committee. **Permission to participate in this elective may be denied or revoked after original permission is granted if for any reason concerns arise regarding safety or quality of the educational experience.**

2. Coordination of travel with the MUSC Global Health Center and registration of travel according to MUSC International Travel policy and restrictions, which includes registration with S.O.S. travel contracting group.

3. Completion of a separate application and waiver of liability prior to departure through the Palmetto Medical Initiative, which serves as host during the rotation. This can be found at www.palmettomedical.org

4. Vaccines are required for travel into Nicaragua; please see the CDC website on travelers’ health and/or visit the MUSC Travel Medicine Clinic for more details.

*Scholarship money may be available to cover costs associated with this elective, please see your COM Deans Office Representative for details.*
**EVALUATION / FEEDBACK METHODS**

2. Establish a differential diagnosis including potential tropical diseases, zoonotic diseases, and diseases related to inadequate public health and order/interpret appropriate diagnostic tests related to the differential diagnosis (MK, PL, SL)

1. Lectures, rounds, and discussion including two pre-trip lectures of 1 hour each and one post-trip lecture of 1-2 hrs. including a post-rotation debriefing session with course director

**COURSE DESCRIPTION:**

The course consists of 18 eight-hour shifts at the Palmetto Medical Initiative (PMI) Masindi-Kitara Medical Center (MKMC) in Masindi, Uganda. During each shift, the student will interact with patients and learn how to perform a focused H&P. The student will focus on how to order appropriate diagnostic tests and formulate a differential diagnosis while focusing on the many limitations of medical care in the developing world. The student will work closely with the attending on duty and learn how to treat and manage many various illnesses and injuries including tropical diseases. The MKMC Medical Center in Uganda operates 24 hours a day, 7 days a week and sees over 2,000 patients a month on average. The student will have the opportunity to work in Emergency and Urgent care, inpatient care, outpatient clinical care, OB/GYN care, and surgical care. Furthermore, the student will have the opportunity to participate in laboratory diagnostics as well as ultrasound performance and interpretation. If the rotation falls during one of four PMI short-term mission teams to Uganda, the student will have the opportunity to join the team in remote mobile clinic locations.

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

1. Conduct an initial assessment of a patient in the developing world and perform stabilization techniques (MK, PC, CS, PR)
2. Establish a differential diagnosis including potential tropical diseases, zoonotic diseases, and diseases related to inadequate public health and order/interpret appropriate diagnostic tests (including imaging/lab studies) related to the differential diagnosis (MK, PL, SL)
3. Manage acutely ill and/or injured patients as well as inpatients (MK,PC,PR,CS)
4. Perform procedural skills if desired (i.e., I.V. access, blood drawing, sutures, I&Ds, wound care, fracture splinting) (MK, PC, PL)
5. Participation/reading blood smears, lab interpretation, ultrasound interpretation, and patient case discussions (MK,PR,PL,SL)

**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. Lectures, rounds, and discussion including two pre-trip lectures of 1 hour each and one post-trip lecture of 1-2 hrs. including a post-rotation debriefing session with course director
2. Patient contact and patient load

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with conditions from all organ systems, including:

1. Malaria, Typhoid and other Tropical or Infectious Diseases common to the area
2. Chest pain, abdominal pain, diabetes, hypertension, cellulitis, trauma, and non-infectious diseases

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.

2. Direct observation of clinical and patient care skills evaluated by the attending physician. (MK, PC, PR, CS)
3. The students will be evaluated on their ability to follow the patient through the course of their time at MKMC which could include an admission. (PR, CS, PL, SL)
4. Active participation in group discussion as evaluated by the attending physicians or MKMC staff. (MK, PC, PR, CS, SL, PL)
5. Participation in weekly didactic sessions evaluated by the course director. (MK, PR, CS, PL, SL)
6. The student will be required to present a case report or original paper of their choosing during one didactic session – duration of no more than five minutes – and will be evaluated by their peers, the EM residents, and the faculty present at EM conference. (MK, PC, PR, CS, PL, SL)
7. In order to continue to improve the rotation, you will be required to critique both the course and the attendings, residents, and/or
MKMC staff with whom you worked. These evaluations need to be completed no later than two weeks after the completion of the rotation. (PL)

Will students be expected to participate in call? ☑ YES ☐ NO

ADDITIONAL INFORMATION: This course requires the following
1. Approval by the COM Associate Dean for Curriculum – Clinical Sciences and the COM Selectives and Electives Committee. Permission to participate in this elective may be denied or revoked after original permission is granted if for any reason concerns arise regarding safety or quality of the educational experience.
2. Coordination of travel with the MUSC Global Health Center and registration of travel according to MUSC International Travel policy and restrictions, which includes registration with S.O.S. travel contracting group
3. Completion of a separate application and waiver of liability prior to departure through the Palmetto Medical Initiative, which serves as host during the rotation. This can be found at www.palmettomedical.org
4. Vaccines are required for travel into Uganda; please see the CDC website on travelers’ health and/or visit the MUSC Travel Medicine Clinic for more details

**Scholarship money may be available to cover costs associated with this elective, please see your COM Deans Office Representative for details.**
Lectures, discussion, public health project implementation and achieve the educational goals and objectives through the following methodologies and activities:

**INSTRUCTIONAL METHODOLOGIES AND ROTATION ACTIVITIES:**

1. Demonstrate analysis, synthesis, and integration of pertinent public health data.
2. Formulate a comprehensive, ordered public health intervention plan.
3. Demonstrate an ability to build a positive, proactive relationships with patients.
4. Demonstrate professional demeanor and ethical behavior.
5. Demonstrate the ability to incorporate best medical practice into existing cultural beliefs
6. Apply knowledge of the pathophysiology, epidemiology, and natural history of public health issues specific to Sub-Saharan Africa.
7. Demonstrate and apply knowledge of the epidemiology, and natural history of public health management of patient populations.
8. Present pertinent public health data gathered from research, current initiatives, and best practice to MKMC staff as well as public health patients.
9. Demonstrate effective and professional interpersonal and communication skills in interactions with patients and families, including an awareness of psychosocial factors related to public health deficits.
10. Identify public health knowledge deficits. Change future practices based on deficits.
11. Demonstrate appreciation and collaboration with other members of the public health team including Peace Corps Staff, USAID Staff, nursing, and community leaders.
12. Identify issues related to the cost-effectiveness of public health interventions.

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

1. Demonstrate analysis, synthesis, and integration of pertinent public health data.
2. Formulate a comprehensive, ordered public health intervention plan.
3. Demonstrate an ability to build a positive, proactive relationships with patients.
4. Demonstrate professional demeanor and ethical behavior.
5. Demonstrate the ability to incorporate best medical practice into existing cultural beliefs
6. Apply knowledge of the pathophysiology, epidemiology, and natural history of public health issues specific to Sub-Saharan Africa.
7. Demonstrate and apply knowledge of the epidemiology, and natural history of public health management of patient populations.
8. Present pertinent public health data gathered from research, current initiatives, and best practice to MKMC staff as well as public health patients.
9. Demonstrate effective and professional interpersonal and communication skills in interactions with patients and families, including an awareness of psychosocial factors related to public health deficits.
10. Identify public health knowledge deficits. Change future practices based on deficits.
11. Demonstrate appreciation and collaboration with other members of the public health team including Peace Corps Staff, USAID Staff, nursing, and community leaders.
12. Identify issues related to the cost-effectiveness of public health interventions.

**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. Lectures, discussion, public health project implementation
2. Coordination with Peace Corps Workers, MKMC staff and local community leaders to assess effectiveness of public health interventions
3. Attendance at weekly public health outreaches with Peace Corps and MKMC staff, as well as twice weekly public health teaching sessions at MKMC.
4. Attendance at a mandatory “mini-course” (usually 2-3 hours long) to cover important aspects of public health, global and travel medicine prior to travel.
5. Complete a 2-3 page paper on a public health issue addressed while on rotation.
6. Attendance at a mandatory lecture and debriefing meeting (2 hrs) with course director within one week of returning from rotation.

---

**Course Director:** Edward O’Bryan, MD
Email: obryanec@musc.edu

**Course Coordinator:** Christine Talbot-Bond
Telephone #: 843-792-2427
Email: talbotbo@musc.edu

---

**Does this rotation accept visiting students?** □ YES □ NO

**COURSE DESCRIPTION:**
This rotation is structured to give students a broad-based experience in development, organization, and implementation of Public Health Initiatives in the setting of the developing world. The student will become an integral part of the Public Health team at the Masindi-Kitara Medical Center (MKMC) in Masindi, Uganda, and will participate in public health community outreach as well as public health teaching and training within the medical center that serves a population of over 600,000 people. The student will work closely with the current and future United States Peace Corps Members stationed at the medical center as well as participate in new public health opportunities through the United States Agency for International Development (USAID) Diagnostic and Public Health Center being constructed currently at MKMC. The student will also have the opportunity to participate in ongoing public health research as well as craft new research opportunities in both a public health and clinical setting (optional). Furthermore, should the rotation fall on one of the four annual Palmetto Medical Initiative (PMI) short-term mission weeks, the student may participate in remote mobile outreach clinics as well where they will have a specific pre-determined public health agenda and focus.

---

**BLO**

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1: 7/6/15 – 7/31/15</td>
<td>1</td>
<td>Block 4A: 9/28/15 – 10/9/15</td>
<td></td>
<td>Block 7B: 1/18/16 – 1/29/16</td>
<td></td>
</tr>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td></td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td>1</td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td></td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td></td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>1</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
</tr>
<tr>
<td>Block 2: 8/3/15 – 8/28/15</td>
<td>1</td>
<td>Block 5A: 10/26/15 – 11/6/15</td>
<td>1</td>
<td>Block 9B: 2/15/16 – 2/26/16</td>
<td></td>
</tr>
</tbody>
</table>
**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with conditions from all organ systems, including:

2. Direct observation of public health presentation skills as evaluated by the attending physician. (MK, PC, PR, CS)
3. Feedback and evaluation of writing assignment (MK)
4. Active participation in group discussion as evaluated by the course director and public health staff. (MK, PC, PR, CS, SL, PL)
5. Participation in the weekly public health didactic sessions as evaluated by the faculty as well as potential residents and Peace Corps workers. (MK, PR, CS, PL, SL)
6. The student will be required to present a public health case report or research topic of their choosing during one didactic session – duration of no more than five minutes – and will be evaluated by their peers, the EM residents, and the faculty present at conference. (MK, PC, PR, CS, PL, SL)
7. In order to continue to improve the Public Health Rotation, you will be required to critique both the course and the attendings, residents, and/or Peace Corps Volunteers with whom you worked. These evaluations need to be completed no later than two weeks after the completion of the rotation. (PL)

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.

2. Direct observation of public health presentation skills as evaluated by the attending physician. (MK, PC, PR, CS)
3. Feedback and evaluation of writing assignment (MK)
4. Active participation in group discussion as evaluated by the course director and public health staff. (MK, PC, PR, CS, SL, PL)
5. Participation in the weekly public health didactic sessions as evaluated by the faculty as well as potential residents and Peace Corps workers. (MK, PR, CS, PL, SL)
6. The student will be required to present a public health case report or research topic of their choosing during one didactic session – duration of no more than five minutes – and will be evaluated by their peers, the EM residents, and the faculty present at conference. (MK, PC, PR, CS, PL, SL)
7. In order to continue to improve the Public Health Rotation, you will be required to critique both the course and the attendings, residents, and/or Peace Corps Volunteers with whom you worked. These evaluations need to be completed no later than two weeks after the completion of the rotation. (PL)

**Will students be expected to participate in call?** 
☐ YES ☒ NO

**ADDITIONAL INFORMATION:** This course requires the following:

1. Approval by the COM Associate Dean for Curriculum – Clinical Sciences and the COM Selectives and Electives Committee. 
   Permission to participate in this elective may be denied or revoked after original permission is granted if for any reason concerns arise regarding safety or quality of the educational experience.
2. Coordination of travel with the MUSC Global Health Center and registration of travel according to MUSC International Travel policy and restrictions, which includes registration with S.O.S. travel contracting group
3. Completion of a separate application and waiver of liability prior to departure through the Palmetto Medical Initiative, which serves as host during the rotation. This can be found at www.palmettomedical.org
4. Vaccines are required for travel into Uganda; please see the CDC website on travelers’ health and/or visit the MUSC Travel Medicine Clinic for more details

**Scholarship money may be available to cover costs associated with this elective, please see your COM Deans Office Representative for details.**
### MED 820: Allergy & Immunology

**Course Director:** John Ramey, MD  
**Telephone #:** 843-729-2374  
**Email:** jtramey@yahoo.com  

**Course Coordinator:** Mary Ann Snell  
**Telephone #:** 843-792-7282  
**Email:** snellma@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1: 7/6/15 – 7/31/15</td>
<td>1</td>
<td>Block 4A: 9/28/15 – 10/9/15</td>
<td>1</td>
<td>Block 7B: 1/18/16 – 1/29/16</td>
<td></td>
</tr>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td>1</td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td>1</td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td></td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td>1</td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>1</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
</tr>
<tr>
<td>Block 2: 8/3/15 – 8/28/15</td>
<td>1</td>
<td>Block 5A: 10/26/15 – 11/6/15</td>
<td>1</td>
<td>Block 8B: 2/1/15 – 2/26/16</td>
<td></td>
</tr>
<tr>
<td>Block 2A: 8/3/15 – 8/14/15</td>
<td>1</td>
<td>Block 5B: 11/9/15 – 11/20/15</td>
<td>1</td>
<td>Block 9: 2/29/16 – 3/25/16</td>
<td></td>
</tr>
<tr>
<td>Block 3A: 8/31/15 – 9/11/15</td>
<td>1</td>
<td>Block 6B: 12/7/15 – 12/18/15</td>
<td>1</td>
<td>Block 10: 3/28/16 – 4/22/16</td>
<td></td>
</tr>
<tr>
<td>Block 3B: 9/14/15 – 9/25/15</td>
<td>1</td>
<td>Block 7: 1/4/16 – 1/29/16</td>
<td>1</td>
<td>Block 10A: 3/28/16 – 4/8/16</td>
<td></td>
</tr>
</tbody>
</table>

**Does this rotation accept visiting students?** ☑ YES ✗ NO

**COURSE DESCRIPTION:**  
Students will see both adult and pediatric patients 5 days a week in our outpatient Allergy clinics (West Ashley, Mt. Pleasant, N. Charleston, & Moncks Corner). Students will learn about asthma, allergic skin diseases, food allergies, insect allergies, and immune deficiencies. Please call Dr. Ramey at 843-729-2374 to get instructions about the rotation. If you start on a Monday, then please come to 1470 Tobias Gadsen, Unit 204 at 8:30am. This course is also available as a 2-week rotation. Please contact Dr. Ramey for prior approval.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:  
1. Diagnosis and treat allergic and non-allergic rhinitis, asthma, atopic dermatitis, urticarial, and chronic sinusitis. (MK, PC)  
2. Define indications for skin testing and immunotherapy (MK, PC)  
3. Realize the complexities of the economics of running an outpatient office (MK, 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. Will be given an allergy/immunology review book to read during the rotation  
2. Direct observation by faculty during direct patient care and review of other clinical and didactic activities (history and physical, progress notes, prescriptions, etc.)  
3. Students will take an ungraded quiz at the end of the rotation. Dr. Ramey will review the test with the student to help them evaluate knowledge

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:  
1. Allergic and non-allergic rhinitis  
2. Asthma/COPD  
3. Atopic dermatitis/contact dermatitis/urticaria  
4. Recurrent infections  
5. Food allergy

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.  
1. E*Value Clinical Performance Evaluation (MK, PC, PR, CS, SL, PL)  
2. Direct observation by physician (MK, PC, PR, CS)  
3. The students will give their attending a mid-point evaluation form half way through the rotation in order to be assessed on their performance (MK, PC, PR, CS, SL, PL).  
4. Written examination (MK)  
5. Staff interaction and interaction with patients (PC, CS)

**Will students be expected to participate in call?** ☑ YES ✗ NO
**Course Director:** Carol Wagner, MD  
Email: wagnercl@musc.edu  

**Course Coordinator:** Bridget Micka  
Telephone #: 792-8446  
Email: micka@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Does this rotation accept visiting students? □ YES □ NO

**COURSE DESCRIPTION:**  
This course is for MD/PhD students and other pre-doctoral trainees. The objective of this elective is to help students write a research proposal in the format of a NRSA F32 or R21 that expands on their clinical, basic science or translational research. The course consists of research topic specialist lectures, literature review, completion of a mini-course covering basics of human subject regulations, active discussion about designing various clinical and translational research studies, development of a clinical study including sample size calculation and power analysis, how to set up a database for your study, and how to statistically analyze your data. Completion of this course will provide students with an excellent foundation in translational research, a relevant addition to a basic science base. Each student works with a mentor and obtains the assistance necessary to fully develop the clinical study. At the end of the course each student will formally present his/her R21 to members of the SCTR Research Nexus rotation course, his/her mentor and selected other individuals.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:  
1. Develop a clinical investigation protocol based on the student’s dissertation and/or research interest  
2. Apply appropriate statistical approaches in developing a clinical protocol  
3. Demonstrate understanding of the basics of the informed consent process, IRB review, good clinical practice, strategies for patient recruitment / retention, standard operating procedures, study audits, adverse events / reporting, clinical trial budgets and research misconduct  
4. Employ effective strategies for managing research teams  
5. Demonstrate understanding of the importance of preliminary data, rationale for methodology and experimental design in the context of the presented research study

**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. Lectures from various research topic specialists across campus  
2. Successful completion of the Core Clinical Research Training  
3. Attend IRB and Scientific Review Committee meetings  
4. Literature review  
5. Rounds/Discussions  
6. Participate in a mock review  
7. Attend a R21 and Biostatistics - Power / Sample Size Consults

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:  
Not Applicable

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.  
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)  
2. Clinical Protocol Development  
3. Participation in discussions  
4. Core Clinical Research Training Quizzes  
5. Interpersonal/Communication Skills
6. Presentation of a final proposal.
7. Written proposal to be scored by two reviewers
8. Weekly course satisfaction REDCap surveys

Will students be expected to participate in call? □ YES ☑ NO
COURSE DESCRIPTION:
Students will have an opportunity to advance basic clinical skills, EKG interpretation, as well as develop better understanding of the role of modern diagnostic and therapeutic modalities in the management of acutely ill cardiac patients. Students are required to attend cardiology conferences.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Become familiar with admission criteria for the Coronary Care Unit (MK, PC).
2. Develop skills in the management of acute cardiac illnesses, like myocardial infarction, arrhythmia & CHF. (MK, PC)
3. Better understand hemodynamic monitoring and management of critically ill patients, including the role of percutaneous coronary intervention, pacemakers, implantable cardiac defibrillator, intra-aortic balloon pump, and ventricular assist device. (MK)
4. Perform procedures, including placement of arterial lines, central venous catheters, and Swan Ganz catheters. (MK, PC)
5. Demonstrate professionalism, ethical behavior, effective interpersonal and communication skills in interactions with patients. (PR, IC)

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. Perform the admission work-up of new patients being admitted to the CCU.
2. Continue on a daily basis to evaluate his/her assigned patients (through follow-up histories and physicals on a daily basis or more often as appropriate, plus reviewing all diagnostic testing results).
3. Present on a daily basis his findings and interpretations on his/her patients to the supervising physicians on rounds.
4. Perform all appropriate written documentation on his/her assigned patients including filling out admission H&P forms, writing daily progress notes in the standard format, and writing orders and filling out associated test requisition forms.
5. Perform necessary procedures suitable for him/her level of skill such as placement of arterial lines and central venous catheters.

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Coronary artery disease
2. Congestive heart failure
3. Arrhythmia
4. Valvular heart disease

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (MK, PC, PR, CS, SL, PL)
2. Direct observation of patient care skills by the attending physician, fellows, and residents on service (MK, PC, PR, CS).
3. The students will give their attending a mid-point evaluation form half way through the rotation in order to be assessed on their performance (MK, PC, PR, CS, SL, PL).
4. The attending physicians and fellows will provide the students with a verbal evaluation at the end of the rotation as well as a formal electronic evaluation (MK, PC, PR, CS, SL, PL).
5. Students will complete a written exam (MK).

Does this rotation accept visiting students? □ YES □ NO

Will students be expected to participate in call? □ YES □ NO
Students will do 4 overnight shifts from 7 a.m. to noon the next day (1 per week) and then have every weekend off.
MED 835: Hospice & Palliative Care

**Course Director:** Maribeth Bosshardt, MD  
Email: bossharm@musc.edu  

**Course Coordinator:** Mary Ann Snell  
Telephone #: 843-792-7282  
Email: snellma@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td>2</td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td>2</td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Does this rotation accept visiting students?** ☑ YES ☒ NO

**COURSE DESCRIPTION:**
This course is designed to expose 4th-year medical students to palliative care. Students will learn how to approach and support those patients with serious illness who have emotional, spiritual and symptomatic needs, including the dying patient and their families via the inpatient palliative care consultation team.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Manage symptoms experienced by the dying patient. (PC, MK)
2. Express empathy to the patient’s family. (PR, CS, PC)
3. Discuss end of life issues with the patient and family. (CS)
4. Perform an appropriate history and physical for the dying patient. (PC)
5. Understand the difference between Palliative Care and Hospice.
6. Perform a basic family meeting to discuss goals of care.
5. Write a palliative care consultation note. (PC, 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. Inpatient experience (90% of time): Palliative Care Consultation Service, Pain & Symptom Management Consultation Service, and Palliative Care Interdisciplinary Team Meeting.
2. Structured learning & discussion (10% of time): Read select references in Pain & Palliative Care and will have teaching sessions 3 times weekly to cover pertinent topics in Palliative care.
3. Hospice: students will have the opportunity to visit the inpatient hospice unit in Mt. Pleasant if they wish to do so.

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. The student will encounter patients who are dying or have unmanaged symptoms from chronic disease.

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (MK, PC, PR, CS, SL, PL)
2. Direct observation of patient care skills by the attending physician, fellows, and residents on service (MK, PC, PR, CS).
3. The students will give their attending a mid-point evaluation form half way through the rotation in order to be assessed on their performance (MK, PC, PR, CS, SL, PL).
4. The attending physicians and fellows will provide the students with a verbal evaluation at the end of the rotation (MK, PC, PR, CS, SL, PL).

Will students be expected to participate in call? ☑ YES ☒ NO
Does this rotation accept visiting students? ☐ YES ☒ NO

COURSE DESCRIPTION:
This course is an opportunity for fourth-year medical students to experience a busy medical intensive care unit and is an introduction to management of adult critically ill patients with a variety of complex diseases. They will be exposed to a variety of critical illnesses and the procedures that occur in the MICU. The students will be exposed to ventilator and sepsis management, central line placement, and end of life discussions.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Understand the admission process to the MICU (PC).
2. Develop skills in the management of critically ill patients secondary to a variety of illnesses, which includes understanding hemodynamic monitoring, and management of critically ill patients, such as use of ventilators and blood pressure support (MK, PC).
3. Perform procedures under direct supervision, including placement of arterial lines, and central venous catheters (MK, PC).
4. Practice reviewing relevant information in the medical literature regarding their patients’ disease state (PL).
5. Demonstrate effective and professional interpersonal and communication skills in interactions with patients and demonstrate professional demeanor and ethical behavior (CS, PR).

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. The student will participate in all aspects of care including diagnosis and management.
2. They will receive instruction in ventilator management, pulmonary artery catheter use, and central line use.
3. They will receive instruction in pharmacotherapy of the critically ill, and will have the opportunity to learn a variety of procedures.
4. Attendance at teaching rounds and pulmonary conferences including the monthly Critical Care Morbidity and Mortality conference.

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Acute hypoxic/hypercarbic respiratory failure
2. Septic Shock
3. Acute Respiratory Distress Syndrome
4. Acute Liver Failure
5. Pneumonia

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (MK, PC, CS, SL, PL, PR)
2. Direct observation of patient care skills by the attending physician, fellows, and residents on service (MK, PC, PR, CS).
3. The students will give their attending a mid-point evaluation form half way through the rotation in order to be assessed on their performance (MK, CS, PR, PC, SL, PL).
4. The attending physicians and fellows will provide the students with a verbal evaluation at the end of the rotation (MK, CS, PR, PC, SL, PL).

Will students be expected to participate in call? ☐ YES ☒ NO
Students will do 4 overnight shifts from 7 a.m. to noon the next day (1 per week) and then have every weekend off.
PATIENT ENCOUNTERS:

5. Students will complete modules and attend conferences which cover physician handoffs, consultative medicine, and palliative care.

4. Students will attend the following Hepatology (and Gastroenterology) didactic conferences: GI Fellows Conference, Liver Biopsy Conference, Liver Imaging and Tumor Board, and Liver Transplant Selection Committee.

LEARNING GOALS & OBJECTIVES:

1. E*Value Clinical Performance Evaluation (MK, PC, PR, CS, SL, PL)

2. Students will round with the Liver Attending on the inpatient Liver Service and hospital Liver Consults.

3. Students will give their attending a mid-point evaluation form halfway through the rotation in order to be assessed on their performance (MK, PC, PR, CS, SL, PL)

4. The attending physicians will provide the students with a verbal evaluation at the end of the rotation (MK, PC, PR, CS, SL, PL)

5. Students will receive formative feedback via the completion of online modules which include assessment questions (MK, 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. In Hepatology clinic, students will be responsible creating a clinical plan for the patients. (MK, PC)

2. Students will round with the Liver Attending on the inpatient Liver Service and hospital Liver Consults.

3. Students will observe outpatient endoscopy, to learn the management of patients with esophageal varices. (MK, PC)

4. Students will attend the following Hepatology (and Gastroenterology) didactic conferences: GI Fellows Conference, Liver Biopsy conference, Liver Imaging and Tumor Board, and Liver Transplant Selection Committee.

5. Students will complete modules and attend conferences which cover physician handoffs, consultative medicine, and palliative care.

PATIENT ENCOUNTERS:

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

1. Complications of cirrhosis/portal hypertension: ascites, varices, hepatic encephalopathy, and spontaneous bacterial peritonitis

2. Complications that arise after Liver Transplant

3. Chronic Hepatitis C (outpatient management and treatment)

4. Alcoholic Liver Disease (including patients with alcoholic hepatitis)

5. Patients with chronic hepatitis of unclear etiology (outpatient evaluation including the role of liver biopsy)

EVALUATION / FEEDBACK METHODS:

Students will be evaluated using the following methods.

1. E*Value Clinical Performance Evaluation (MK, PC, PR, CS, SL, PL)

2. Direct observation of patient care skills by the attending physician, fellows, and residents on service (MK, PC, PR, CS).

3. The students will give their attending a mid-point evaluation form halfway through the rotation in order to be assessed on their performance (MK, PC, PR, CS, SL, PL)

4. The attending physicians will provide the students with a verbal evaluation at the end of the rotation (MK, PC, PR, CS, SL, PL)

5. Students will receive formative feedback via the completion of online modules which include assessment questions (MK, PC)

Does this rotation accept visiting students? ☑ YES ☐ NO

COURSE DESCRIPTION:

This is an outpatient clinical (2 weeks) and inpatient consultation service (2 weeks) rotation designed to expose the 4th-year medical student to the field of Hepatology. The student will also observe endoscopic procedures and understand their role in the care of the patients. Students will rotate over at the VA Clinic so must be current with VA logins and codes before starting this rotation.

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

1. Assess patients with liver disease and demonstrate the components of the H&P essential to caring for these patients. (MK, PC)

2. Define and describe pathophysiology and management of complications resulting from cirrhosis and portal hypertension. (MK, PC)

3. Define and describe when referral for liver transplant evaluation is appropriate by assessing severity of liver disease and short term prognosis in patients with cirrhosis. (MK, PC)

4. Observe the comprehensive evaluation required of patients undergoing consideration for liver transplantation and the selection process that occurs in determining a patient's potential candidacy. (MK, PC)

5. Describe immunosuppressive agents post-transplant, including mechanism of action and common side effects, and toxicities. (MK)
COURSE DESCRIPTION:
The Patient Centered Medical Home (PCMH) care delivery model has moved to the forefront of primary care re-design. The goals of a PCMH are to provide well-coordinated, high quality, accessible, comprehensive, and patient-focused primary care. This 4-week elective will teach students the key elements of PCMH by pairing an experiential rotation in an adult medicine PCMH with a structured small group curriculum highlighting key concepts. Students will spend 4.5 days per week in an NCQA-designated PCMH practice and 0.5 days per week in small group didactics.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Perform organized history and PEs and integrate key clinical information into accurate assessment and plans. (MK, PC, CS)
2. Manage acute and chronic adult medical conditions as part of an interprofessional primary care team. (MK, PC, CS)
3. Identify members of a primary care interprofessional care team and understand their roles and responsibilities (PR, PL)
4. Understand and practice the key concepts of the PCMH care delivery model, including team-based care, care coordination, panel management, quality improvement, and self-management support. (PL, SL, PR)
5. Demonstrate understanding of key USPSTF guidelines for clinical preventative services. (MK, 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. Providing direct patient care supervised by an attending physician in one of several primary care practices in the Charleston area.
2. Providing patient care and care coordination with a variety of inter-professional team members which may include case managers, clinical nurses, patient navigators, social workers, pharmacists, nurse practitioners, and physicians assistants.
3. Participating in inter-professional clinic team meetings.
4. Participating in weekly small group didactic sessions.
5. Handing in components of patient care documentation as relates to PCMH concepts taught.

PATIENT ENCOUNTERS: Students will be expected to work-up patients with conditions from all organ systems, including:
1. Cardiovascular (hypertension, coronary artery disease, congestive heart failure)
2. Endocrinology (diabetes, thyroid disorders)
3. Infectious disease (upper respiratory infections, pneumonia)
4. Pulmonary (asthma, COPD)
5. Mental health (depression, anxiety)
6. Health maintenance (routine cancer screening, immunizations)

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (MK, PC, PR, CS, SL, PL)
2. Direct observation of patient care skills by attending physicians, residents, and other care team members. (MK, PC, PR, CS)
3. Review of aspects of patient care documentation by course director.
5. Attending physicians will give students a verbal evaluation and formal electronic eval at rotation end. (MK, PC, PR, CS, SL, PL).

Does this rotation accept visiting students? ☐ YES ☒ NO
**Course Director:** Jeremy Richards, MD  
Email: richarje@musc.edu  
**Course Coordinator:** Mary Ann Snell  
Telephone #: 843-792-7282  
Email: snellma@musc.edu

### Schedule

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1A: 6/30/14 – 7/11/14</td>
<td></td>
<td>Block 4B: 10/6/14 – 10/17/14</td>
<td></td>
<td>Block 8: 1/26/15 – 2/20/15</td>
<td>1</td>
</tr>
<tr>
<td>Block 1B: 7/14/14 – 7/25/14</td>
<td></td>
<td>Block 5: 10/20/14 – 11/14/14</td>
<td>1</td>
<td>Block 8A: 1/26/15 – 2/6/15</td>
<td></td>
</tr>
<tr>
<td>Block 2: 7/28/14 – 8/22/14</td>
<td>1</td>
<td>Block 5A: 10/20/14 – 10/31/14</td>
<td></td>
<td>Block 8B: 2/9/15 – 2/20/15</td>
<td></td>
</tr>
<tr>
<td>Block 4: 9/22/14 – 10/17/14</td>
<td>1</td>
<td>Block 7A: 1/4/16 – 1/15/16</td>
<td></td>
<td>Block 10B: 4/6/15 – 4/17/15</td>
<td></td>
</tr>
</tbody>
</table>

**Does this rotation accept visiting students?** ☐ YES ☒ NO

**Course Description:** Students will be assigned to the VA; therefore, students must be current with VA logins and codes before starting this rotation. This is an opportunity for 4th-year students to experience a medical intensive care unit and the introduction of the management of critically ill patients with a variety of complex diseases. To understand the critically ill patients in the ICU, the students will also participate in the pulmonary consult service and inpatient and outpatient procedures. Students will learn how to interpret pulmonary function, and be exposed to common pulmonary and critical care procedures such as thorocentesis, bronchoscopy, ventilator and sepsis management, central line placement, and end of life discussions.

**Learning Goals & Objectives:** At the completion of this clinical rotation students should be able to do the following:
1. Develop skills in the management of critically ill patients secondary to a variety of illnesses, which includes understanding hemodynamic monitoring, and management of critically ill patients, such as use of ventilators and blood pressure support (MK, PC).
2. Perform under direct supervision, procedures, including placement of arterial lines, and central venous catheters (MK, PC).
3. Demonstrate effective and professional interpersonal and communication skills in interactions with patients and demonstrate professional demeanor and ethical behavior (CS, PR).
4. Lab test interpretation, presentation and documentation of patient data gathered from patient interviews, physical examinations, and laboratory sources, including progress notes on patients, in standardized format (PC, MK, CS).
5. Apply knowledge of the pathophysiology, epidemiology, and natural history of diseases to the diagnosis and management of common patient conditions in Critical Care and Pulmonary Medicine (MK, 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. Participation in the VAICU and the pulmonary consult service and evaluate patients under attending/fellow supervision.
2. Presentation and discussion of patients with the consult attending.
3. Selected reading material on topics pertinent to critical care and pulmonary medicine.
4. Attendance at Pulmonary Clinical Conferences at noon on Mondays and Fridays and the pulmonary medical student lecture series.

**Patient Encounters:** Students will be expected to work-up patients with these specified conditions:
1. Chronic hypoxic respiratory failure in addition to Acute hypoxic/hypercarbic respiratory failure
2. Chronic Obstructive Lung Disease and Interstitial Lung Disease
3. Pneumothorax and Sarcoidosis
4. Solitary Pulmonary Nodule

**Evaluation / Feedback Methods:** Students will be evaluated using the following methods.
2. Direct observation of patient care skills by the attending physician, fellows, and residents on service (MK, PC, PR, CS).
3. The students will give their attending a mid-point evaluation form half way through the selective in order to be assessed on their performance (MK, PC, PR, CS, SL, PL).
4. The attending physicians and fellows will provide the students with a verbal evaluation at the end of the rotation (MK, PC, PR, CS, SL, PL).

**Will students be expected to participate in call?** ☐ YES ☒ NO
**MED 851: Nephrology MC**

**Course Director:** Nithin Karakala, MD  
Email: Karakala@musc.edu  

**Course Coordinator:** Mary Ann Snell  
Telephone #: 843-792-7282  
Email: snellma@musc.edu

---

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Complete an evaluation for Acute Kidney Injury, interpret lab, radiological studies and synthesize a differential diagnosis. (MK, PC)
2. Describe the steps involved in urine microscopy and interpretation of urine microscopy in patient with AKI. (MK)
3. Define and describe the indications for dialysis therapy and the mechanics of different modes of dialysis. (MK)
4. Evaluate and treat hypo/hypernatremia, hypo/hyperkalemia, acidosis and alkalosis. (MK, PC)
5. Define and describe the treatment and public health significance of Chronic Kidney Disease and Hypertension. (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. Students will evaluate patients both in hospital and in clinic and present patients orally to the attending physician to attain feedback on presenting cohesively and on ability to synthesize information and provide a well thought out plan.
2. Students will be expected to continue independent scholarly activity by reading journal articles/books pertinent to their patients.
3. The nephrology faculty and fellows on service will be actively involved in team based teaching during the rounds.
4. The faculty and fellows on service dedicate time outside patient care activities to provide didactic sessions involving but not restricted to AKI, electrolyte and acid base problems and dialysis.
5. Students will complete modules and attend conferences which cover physician handoffs, consultative medicine, and palliative care.

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Acute Kidney Injury and Acute Glomerulonephritis
2. Electrolyte Disorders: hyponatremia, hypernatremia, hyperkalemia
3. Proteinuria with and without nephrotic syndrome
4. Acid Base Disturbances
5. End stage renal disease: management of medical problems associated with ESRD.

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (MK, PC, PR, CS, SL, PL)
2. Completion of Urinalysis Laboratory Module (MK)
3. Graded History and Physical with Assessment and Plan (PC, PR, CS, SBP)
4. The students will be evaluated and feedback will be given by the attending half way through the rotation in order to be assessed on their performance (MK, PC, PR, CS, SL, PL).
5. Students will receive formative feedback via completion of online modules which include assessment questions/quizzes (MK, PC)

---

**Does this rotation accept visiting students?** ☑ YES ☐ NO

**COURSE DESCRIPTION:** Students rotating on the Nephrology Consult Service will care for patients with Acute Kidney Injury (AKI), electrolyte abnormalities, and End Stage Renal Disease in the hospital with an emphasis on the evaluation, diagnosis and treatment of AKI. Students will also be expected to attend at least one ambulatory clinic per week to understand the care of the patient with Chronic Kidney Disease (CKD) and to participate in the evaluation. The students will learn about outpatient dialysis at the DCI dialysis units, under faculty supervision. **Students will rotate over at the VA Clinic weekly so must be current with VA logins and codes before starting this rotation.**

**PATIENT ENCOUNTERS:** Students will evaluate patients both in hospital and in clinic and present patients orally to the attending physician to attain feedback on presenting cohesively and on ability to synthesize information and provide a well thought out plan.

**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. Students will evaluate patients both in hospital and in clinic and present patients orally to the attending physician to attain feedback on presenting cohesively and on ability to synthesize information and provide a well thought out plan.
2. Students will be expected to continue independent scholarly activity by reading journal articles/books pertinent to their patients.
3. The nephrology faculty and fellows on service will be actively involved in team based teaching during the rounds.
4. The faculty and fellows on service dedicate time outside patient care activities to provide didactic sessions involving but not restricted to AKI, electrolyte and acid base problems and dialysis.
5. Students will complete modules and attend conferences which cover physician handoffs, consultative medicine, and palliative care.

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Acute Kidney Injury and Acute Glomerulonephritis
2. Electrolyte Disorders: hyponatremia, hypernatremia, hyperkalemia
3. Proteinuria with and without nephrotic syndrome
4. Acid Base Disturbances
5. End stage renal disease: management of medical problems associated with ESRD.

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (MK, PC, PR, CS, SL, PL)
2. Completion of Urinalysis Laboratory Module (MK)
3. Graded History and Physical with Assessment and Plan (PC, PR, CS, SBP)
4. The students will be evaluated and feedback will be given by the attending half way through the rotation in order to be assessed on their performance (MK, PC, PR, CS, SL, PL).
5. Students will receive formative feedback via completion of online modules which include assessment questions/quizzes (MK, PC)

---

**Will students be expected to participate in call?** ☑ YES ☐ NO

---

**Course Director:** Nithin Karakala, MD  
Email: Karakala@musc.edu  

**Course Coordinator:** Mary Ann Snell  
Telephone #: 843-792-7282  
Email: snellma@musc.edu

---

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td></td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td></td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td>4</td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td>4</td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td></td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
</tr>
<tr>
<td>Block 3A: 8/31/15 – 9/11/15</td>
<td></td>
<td>Block 6B: 12/7/15 – 12/18/15</td>
<td></td>
<td>Block 10: 3/28/16 – 4/22/16</td>
<td>4</td>
</tr>
</tbody>
</table>
Does this rotation accept visiting students? ☒ YES ☐ NO

**COURSE DESCRIPTION:**
This is an inpatient consultation service rotation designed to expose 4th-year medical students to the field of cardiology. The student will be exposed to patients with cardiac diseases, learn the diagnostic approach, as well as medical management of these patients. Four students will be assigned to the ART and three students will be assigned to the VA; therefore, VA logins and codes must be current and up-to-date.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Take a good cardiac history and understand cardiac risk factors. (MK, PC)
2. Perform a complete cardiovascular examination. (PC)
3. Understand use of lab tests, EKGs, ECHO, stress testing and cardiac invasive procedures in working up cardiac disorders. (MK, PC)
4. Understand basic cardiac, coronary and electrophysiological anatomy & basic cardiac hemodynamics. (MK, PC)
5. Present new cases confidently, follow-up cases allotted and learn to work efficiently as a team member. (MK, PC, CS, PR)

**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. When on the consult service students will practice reviewing charts, obtaining medical history, performing physical examination, reviewing laboratory data, discussing gathered material with fellow and attending, and writing up consult report.
2. Students should attend all Cardiology conferences and didactic sessions that the division offers. (7:30-8:30 am, M, W-F)
3. Students will complete online modules and attend conferences which cover physician handoffs, consultative medicine, and palliative care.

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Coronary artery disease
2. Congestive heart failure
3. Arrhythmia
4. Valvular heart disease
5. Risk Factor Modification (EM, HTN, Hyperlipidemia, Smoking)

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (MK, PC, PR, CS, SL, PL)
2. Direct observation of patient care skills by the attending physician, fellows, and residents on service (MK, PC, PR, CS).
3. The students will give their attending a mid-point evaluation form half way through the rotation in order to be assessed on their performance (MK, PC, PR, CS, SL, PL).
4. The attending physicians and fellows will provide the students with a verbal evaluation at the end of the rotation as well as a formal electronic evaluation MK, PC, PR, CS, SL, PL).
5. Students will receive formative feedback via the completion of online modules that include assessment questions/quizzes (MK, PC)

Will students be expected to participate in call? ☐ YES ☒ NO
Does this rotation accept visiting students? ✗ YES ☑ NO

**COURSE DESCRIPTION:**
This is a predominantly inpatient consultation rotation designed to expose the 4th-year medical student to the field of gastroenterology. There are self-directed opportunities to participate in the outpatient clinical setting. The student will be exposed to patients with digestive diseases and learn the diagnostic approach as well as medical management of these patients. The student will also observe endoscopic procedures and understand their role in the care of these patients as well. **Students will rotate over at the VA Clinic weekly so must be current with VA logins and codes before starting this rotation.**

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Recognize typical clinical presentations of various etiologies of abdominal pain (peptic ulcer disease, cholecystitis, pancreatitis, bowel obstruction). (MK)
2. Recognize and understand the treatment of esophageal disorders such as GERD, dysphagia, Barrett’s esophagus. (MK)
3. Define and describe the basic causes of diarrhea and outline an appropriate work-up for both acute and chronic diarrhea. (MK)
4. Define and describe the role of endoscopy for both screening and therapeutic purposes. (MK, PC)
5. Demonstrate professional demeanor, ethical behavior, and effective communication skills in interactions with patients. (PR, PC. 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. Bedside teaching during daily team rounds (inpatient consultation service) or in clinic (outpatient service).
2. Formal didactic GI Divisional conferences held on a weekly basis.
3. Informal didactic sessions throughout the rotation focusing on topics/cases proposed by the student/housestaff.
4. Observation of endoscopic procedures such as EGD, colonoscopy, ERCP, EUS, small bowel capsule study, and motility studies.
5. Directed reading on general and selected topics in Gastroenterology.
6. Students will complete online modules, attend conferences that cover physician handoffs, consultative medicine, & palliative care.

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Bowel obstruction
2. Cholecystitis/Peptic ulcer disease/Pancreatitis
3. Inflammatory bowel disease/Irritable bowel syndrome
4. Diarrhea: acute vs chronic
5. Dysphagia/GERD

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.
2. Direct observation of patient care skills by the attending physician, fellows, and residents on service (MK, PC, PR, CS).
3. Students will give their attending a mid-point evaluation form half way through the rotation in order to be assessed on their performance (MK, PC, PR, CS, SL, PL).
4. Attending physicians and fellows will provide the students with a verbal evaluation at end of rotation (MK, PC, PR, CS, SL, PL).
5. Students will receive formative feedback via the completion of online modules that include assessment questions/quizzes (MK, PC)

Will students be expected to participate in call? ☑ YES ✗ NO
INSTRUCTIONAL METHODOLOGIES AND ROTATION ACTIVITIES:

1. Demonstrate proper techniques to obtain medical history and perform physical exam in the consultative and outpatient setting (PC).
2. They will receive training with the instructor in the interpretation of peripheral blood smears and bone marrow aspirates.
3. Document patient data gathered from interviews, physical examinations, and laboratory sources, including progress notes on patients, in standardized format (PC, CS).
4. Apply knowledge of the pathophysiology, epidemiology, and natural history of diseases to the diagnosis and management of patients, in standardized format (PC, CS).
5. Perform diagnostic and lab test interpretation skills commonly used in hematology/oncology (MK, PC).

PATIENT ENCOUNTERS:

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

Hematology: 1. Disorders of cell number, i.e. leuko/neutropenia, as well as erythrocytosis, thrombocytosis, & leukocytosis
2. Hereditary and acquired bleeding/clotting disorders and Hematologic malignancies

Oncology: 1. Newly diagnosed solid tumors-commonly encountered in the inpatient setting such as lung cancer, GI cancers, etc.
2. Common problems associated with chemotherapy (neutropenic fever, tumor lysis syndrome, severe diarrhea, etc)

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.

1. E*Value Clinical Performance Evaluation (MK, PC, PR, CS, SL, PL)
2. Direct observation of patient care skills by the attending physician, fellows, and residents on service (MK, PC, PR, CS).
3. The students will give their attending a mid-point evaluation form half way through the rotation in order to be assessed on their performance (MK, PC, PR, CS, SL, PL).

Will students be expected to participate in call? ☐ YES ☑ NO
Does this rotation accept visiting students? ☑ YES ☐ NO

COURSE DESCRIPTION:
This is an outpatient clinical and inpatient consultation service rotation designed to expose the 4th-year medical student to the field of Infectious Disease. The student will be exposed to patients with infectious disease and learn the diagnostic approach as well as medical management of these patients. Two students will be assigned to the University and two students will be assigned to the VA; therefore, VA logins and codes must be current and up-to-date.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Diagnose and assess common community and hospital acquired infections. (MK)
2. Learn basic aspects of antimicrobial treatment of proven and suspected infectious diseases. (MK)
3. Learn the rational use of anti-infective therapeutic agents. (MK)
4. Understand the basics of HIV diagnosis and management, the identification of complications in the HIV-infected patient including prevention and management. (MK)

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. A minimum of 2 weeks of consultation rounds with the infectious disease attending, fellow and medical resident at MUHA, ART, or VA providing extensive exposure to the diagnosis and treatment of infectious diseases precipitating hospital admission or occurring during hospitalization for non-infectious problems with up to an additional two weeks spent in the Infectious Diseases clinics.
2. Clinical experience is supplemented and extended by case conferences, Journal Club and a didactic lecture series.
3. An infectious disease textbook is provided to each student at the beginning of the rotation.
4. Students will attend conferences which cover consultative medicine.
5. Students will complete modules and attend conferences that cover physician handoffs, consultative medicine, and palliative care.

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. HIV/AIDS
2. Wound infections and Prosthetic joint infections
3. Osteomyelitis
4. Patients on home IV antibiotics
5. Infectious diseases unique to travel or tropical environments. Exposure to multiple different specific ID clinics are also available.

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (MK, PC, PR, CS, SL, PL)
2. Direct observation of patient care skills by the attending physician, fellows, and residents on service (MK, PC, PR, CS)
3. The students will give their attending a mid-point evaluation form half way through the rotation in order to be assessed on their performance (MK, PC, PR, CS, SL, PL).
4. The attending physicians and fellows will provide the students with a verbal evaluation at the end of the rotation as well as a formal electronic evaluation (MK, PC, PR, CS, SL, PL).
5. Students will receive formative feedback via the completion of online modules that include assessment questions (MK, PC).

Will students be expected to participate in call? ☑ YES ☐ NO
Does this rotation accept visiting students? ☑ YES ☐ NO

COURSE DESCRIPTION:
During this course, 4th-year medical students will see patients with endocrine disorders. Students will be able to establish a diagnostic and treatment plan. Students will rotate over at the VA Clinic weekly so must be current with VA logins and codes before starting this rotation.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to:
1. Define and describe pathophysiology of common endocrine disorders (MK).
2. Evaluate with supervision endocrine disorders commonly seen in primary care (MK, PC).
3. Define and describe treatment strategies for these diseases (PC).
4. Describe the importance of laboratory investigation in evaluations (MK, PC).
5. Appreciate the importance of endocrine research in this field (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. Student will see patients in attending clinics
2. Student will work with inpatient consultation team and will see patients in inpatient setting
3. Student will participate in weekly grand rounds and journal club
4. Students will complete online modules and attend conferences which cover physician handoffs, consultative medicine, and palliative care.

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Diabetes Mellitus (Type I and II)
2. Diseases of the Thyroid
3. Diseases of the Adrenal Gland
4. Osteoporosis

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (MK, PC, PR, CS, SL, PL)
2. Direct observation of patient care skills by the attending physician, fellows, and residents on service (MK, PC, PR, CS)
3. The students will give their attending a mid-point evaluation form half way through the rotation in order to be assessed on their performance (MK, PC, PR, CS, SL, PL)
4. Attending physicians will provide the students with a verbal evaluation at the end of the rotation (MK, PC, PR, CS, SL, PL)
5. Students will receive formative feedback via the completion of online modules which include assessment questions and quizzes (MK, PC)

Will students be expected to participate in call? ☑ YES ☐ NO
Does this rotation accept visiting students? ☒ YES ☐ NO

**COURSE DESCRIPTION:**
The Externship is structured to give students a broad-based experience in managing acutely ill general medicine patients. The rotation provides each extern with “the intern” experience that is directly supervised by expert faculty individually or with a 2nd or 3rd year resident. Students must take the NBME IM Sub-I exam in order to pass the externship. They must achieve a passing score of ≥ 64 in order to pass the rotation. Some students will be assigned to the VA so must be current with their VA login and codes before starting the rotation.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Take a history and complete a physical exam. (MK, PC)
2. Develop differential diagnoses and formulate a treatment plan on acutely ill patients at the level of an intern. (MK, PC)
3. Manage the inpatient illnesses that are commonly cared for by the general internist. (MK, PC)
4. Describe the indications/need for appropriate subspecialty consultation. (MK, PC, CS)
5. Practice applying the principles of appropriate pain control and the tenets of end of life care. (MK, PC, 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. The majority of teaching on the General Medicine service is case-based at the time of clinical encounters. Inpatient rounds provide the best opportunities for education at the bedside. This teaching can include demonstration of history taking or examination skills, modeling communication or exploration of medical knowledge, with an explicit focus on the published clinical evidence supporting clinical decision-making.
2. Externs are expected to attend morning report three days per week, Grand Rounds on Tuesdays, and noon conference daily.
3. The attending physician may also conduct didactic sessions on multiple occasions throughout the month.

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Students care for a diverse patient population with respect to age, ethnicity, gender and socioeconomic status.
2. Students will care for patients with a wide variety of clinical syndromes including chest pain, coronary artery disease, CVAs, CHF, diabetes mellitus, DKA, pneumonia, COPD, asthma, pyelonephritis, acute and chronic renal insufficiency, SLE, vasculitis, dementia and many others.

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (MK, PC, PR, CS, SL, PL)
2. Direct observation of patient care skills by the attending physician, fellows, and residents on service (MK, PC, PR, CS).
3. The students will give their attending a mid-point evaluation form halfway through the rotation in order to be assessed on their performance (MK, PC, PR, CS, SL, PL).
4. The attending physicians and fellows will provide the students with a verbal evaluation at the end of the rotation as well as a formal electronic evaluation (MK, PC, PR, CS, SL, PL).

**Will students be expected to participate in call?** ☒ YES ☐ NO
Students will take 3 overnight (in-house) calls and 4 nights until 8:00 p.m.
Does this rotation accept visiting students?  ☑ YES ☐ NO

**COURSE DESCRIPTION:** This course is designed to expose fourth-year medical students to common pulmonary diseases that are seen in the in-patient setting on a consultative basis. The students will participate in the care of pulmonary patients on the pulmonary consult service, learn how to interpret pulmonary function, and be exposed to common pulmonary procedures such as thorocentesis and bronchoscopy and their indications.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Demonstrate proper techniques for interviewing a patient, performing a physical examination, analyze, synthesize, and integrate pertinent patient data, and finally the formulation of a comprehensive ordered differential diagnosis in the inpatient setting (PC).
2. Present and document patient data gathered from patient interviews, physical examinations, and laboratory sources, including progress notes on patients, in standardized format (PC, MK, CS).
3. Perform diagnostic and lab test interpretation skills commonly used in Pulmonary Medicine (e.g. interpret chest radiographs and pulmonary function tests) and identify issues related to the cost-effectiveness of diagnostic evaluations and patient care (MK, PC, PL).
4. Apply knowledge of the pathophysiology, epidemiology, and natural history of diseases to the diagnosis and management of common patient conditions in Pulmonary Medicine (MK, PC).
5. Demonstrate effective and professional interpersonal and communication skills in interactions with patients, including an awareness of psychosocial factors related to patients’ problems (CS, PR).

**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. Students will participate on the pulmonary consult service and evaluate consult patients under attending/fellow supervision.
2. Presentation and discussion of patients with the consult attending.
3. Selected reading material on topics pertinent to the pulmonary medicine.
4. Attendance at Pulmonary Clinical Conferences at noon on Mondays and Fridays.
5. Students will complete online modules, attend conferences that cover physician handoffs, consultative medicine, & palliative care.

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Chronic hypoxic respiratory failure in addition to acute hypoxic/hypercarbic respiratory failure
2. Chronic Obstructive Lung Disease and Interstitial Lung Disease
3. Pneumothorax and Sarcoidosis
4. Solitary Pulmonary Nodule

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.
2. Direct observation of patient care skills by the attending physician, fellows, and residents on service (MK, PC, PR, CS).
3. The students will give their attending a mid-point evaluation form half way through the rotation in order to be assessed on their performance (MK, PC, PR, CS, SL, PL).
4. Attending physicians and fellows will provide students with verbal evaluation at the end of the rotation (MK, PC, PR, CS, SL, PL).
5. Students will receive formative feedback at the completion of online modules including assessment questions and quizzes (MK, PC).

Will students be expected to participate in call?  ☐ YES ☑ NO
Does this rotation accept visiting students? ☒ YES ☐ NO

**COURSE DESCRIPTION:**
Students will rotate at the VA Clinic weekly so must be current with VA logins and codes before starting this rotation. This rotation will emphasize the evaluation and management of patients with common musculoskeletal and autoimmune conditions. The majority of the time will be spent in the ambulatory Rheumatology clinics. Limited exposure to complicated inpatient consultations is available. Students will have intense one-on-one contact with multiple Rheumatology faculty members in learning to evaluate patients.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Evaluation of patients with joint pain and inflammatory arthritis. (MK, PC, CS)
2. Musculoskeletal examination techniques and exposure to procedures such as arthrocentesis and injections. (MK, PC)
3. Use of a diagnostic evaluation of patients with suspected autoimmune disease. (MK, PC)
4. Learn commonly utilized therapies in the treatment of the patient with a broad range of musculoskeletal diseases. (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. The majority of time is spent in ambulatory clinics.
2. Students will have intense one-on-one contact with faculty in the evaluation of ambulatory patients.
3. Instruction on indications and methodology for joint aspiration and injection, including hands on when applicable.
4. Conferences
5. Patient Contact
6. Students will complete online modules, attend conferences that cover physician handoffs, consultative medicine, & palliative care.

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Rheumatoid arthritis
2. Systemic Lupus Erythematosus
3. Vasculitis
4. Gout

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SBL, PBL)
2. Direct observation of patient care skills by the attending physician, fellows, and residents on service. May include communication with other specialists or health care providers participating in the care of the rheumatologic patients (MK, PC, PR, CS)
3. The students will give their attending a mid-point evaluation form half way through the rotation in order to be assessed on their performance (MK, PC, PR, CS, SL, PBL).
4. Documentation of patient encounters is expected and the Electronic Medical Record will be utilized and reviewed with the student by the attending physician (PL, SL).
5. Preparation and presentation of a 10-15 min. talk to the Division on an aspect of rheumatology encountered in their clinical experience. Feedback and evaluation will be given by the teaching attending and teaching fellow that month (MK, CS)
6. Participation in the weekly scheduled conferences and teaching sessions (MK, PR, CS)
7. Students will receive formative feedback via completion of online modules that include assessment questions/quizzes (MK, PC)

Will students be expected to participate in call? ☒ YES ☐ NO
Course Director: Adrian Van Bakel, MD
Email: Vanbakel@musc.edu

Course Coordinator: Mary Ann Snell
Telephone #: 843-792-7282
Email: snellma@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1: 7/6/15 – 7/31/15</td>
<td>Block 4A: 9/28/15 – 10/9/15</td>
<td>1</td>
<td>Block 7B: 1/18/16 – 1/29/16</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td>1</td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>1</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Block 2: 8/3/15 – 8/28/15</td>
<td>Block 5A: 10/26/15 – 11/6/15</td>
<td>1</td>
<td>Block 8B: 2/1/16 – 2/26/16</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Block 3A: 8/31/15 – 9/11/15</td>
<td>Block 6B: 12/7/15 – 12/18/15</td>
<td>1</td>
<td>Block 10: 3/28/16 – 4/22/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 3B: 9/14/15 – 9/25/15</td>
<td>Block 7: 1/4/16 – 1/29/16</td>
<td>1</td>
<td>Block 10A: 3/28/16 – 4/8/16</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

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

COURSE DESCRIPTION:
The CHF/Transplant Selective is an inpatient rotation designed to give students an in-depth experience treating complex patients with a primary diagnosis of congestive heart failure. In addition to medical management, the student will be exposed to the intricacies of selecting treatment options for advanced heart failure therapy including heart transplantation and left ventricular assist device placement. This course can be taken for 4 weeks for full credit as long as there is no one else scheduled in the other block. Please contact Mary Ann Snell if you are interested.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Define and describe pathophysiology, recognize clinical features of congestive heart failure (MK).
2. Define and describe pharmacological and device therapy of congestive heart failure (MK, PC).
3. Recognize arrhythmias and describe their therapy in congestive heart failure (MK, PC).
4. Define and describe evaluation for heart transplant including post-transplant care (MK, 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. Students will evaluate inpatients under Attending and Fellow supervision. They will take and record a detailed history and physical of new patients. Cardiovascular examination skills will be imparted to the students at the bedside.
2. Students will be taught cardiovascular hemodynamics and the use of pulmonary artery catheters, right heart catheterizations and how to titrate medications.
3. Students will follow CHF patients in the coronary intensive care unit (CCU) patients who are on mechanical left ventricular assist devices including: percutaneous temporary devices and the heart mate 2 long term device. They will learn about patient selection, device selection and patient management with respect to cardiac assist devices.
4. Students will be exposed to cardiac transplant medicine and learn about: patient selection, postoperative and long term transplant care. Additionally they will learn about the end organ complications, malignancies and infectious disease complications of heart transplant.

PATIENT ENCOUNTERS: Students will encounter patients along the entire continuum of heart failure management including: new onset CHF, acutely decompensated heart failure, severe chronic heart failure, ischemic cardiomyopathy, non-ischemic cardiomyopathy, restrictive cardiomyopathy, & dilated cardiomyopathy. Students will be expected to evaluate and with housestaff supervision, manage this challenging group of patients.

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.
2. Direct observation of patient care skills by the attending physician, fellows, and residents on service (MK, PC, PR, CS).
3. The students will give their attending a mid-point evaluation form half way through the rotation in order to be assessed on their performance (MK, PC, PR, CS, PL, SL).
4. The attending physicians and fellows will provide the students with a verbal evaluation at the end of the rotation (MK, PC, PR, CS, PL, SL).

Will students be expected to participate in call? [ ] YES [x] NO
### Course Description:

This course is designed to expose 4th-year medical students to the common general medicine diseases, particularly post-operative complications that are seen in the inpatient setting on a consultative basis.

### Learning Goals & Objectives:

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

1. Define and apply risk assessment and risk reduction strategies in patients with medical problems undergoing surgery. (MK, PC)
2. Demonstrate fundamentals of perioperative cardiovascular, pulmonary, and diabetes management. (MK, PC)
3. Demonstrate basics of perioperative venous thromboembolism prophylaxis, anticoagulation management, and antibiotic prophylaxis management. (MK, PC)
4. Understand diagnosis and treatment of basic nosocomial infections such as pneumonia and urinary tract infections. (MK, 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. Student will round with the general medicine/hospitalist consult team at MUSC.
2. Students are expected to independently evaluate patients, follow and write daily notes on their patients, and present findings and plans to the hospitalist attending.
3. The consult team at MUSC consists of an attending hospitalist and a medical resident.
4. Students are encouraged to come to the department of medicine’s conferences such as morning report, noon conference and grand rounds.
5. Students will complete modules and attend conferences that cover physician handoffs, consultative medicine, and palliative care.

### Patient Encounters:

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

1. Sinus tachycardia, Hypertension
2. Pneumonia
3. Urinary tract infections
4. Pulmonary embolus
5. Diabetes mellitus
6. Anemia

### Evaluation / Feedback Methods:

Students will be evaluated using the following methods.

1. E*Value Clinical Performance Evaluation (MK, PC, PR, CS, SL, PL)
2. Direct observation of patient care skills by the attending physician, fellows, and residents on service (MK, PC, PR, CS).
3. The students will give their attending a mid-point evaluation form half way through the rotation in order to be assessed on their performance (MK, PC, PR, CS, SL, PL).
4. The attending physicians and fellows will provide the students with a verbal evaluation at the end of the rotation (MK, PC, PR, CS, SL, PL).
5. Students will receive formative feedback via the completion of online modules that include assessment questions (MK, PC).

---

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

---

### Course Director: Deborah DeWaay, MD  
Email: dewaay@musc.edu

### Course Coordinator: Mary Ann Snell  
Telephone #: 843-792-7282  
Email: snellma@musc.edu

---

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1:</td>
<td>1</td>
<td>Block 4A: 9/28/15 – 10/9/15</td>
<td>Block 7B:</td>
<td>1/18/16 – 1/29/16</td>
<td></td>
</tr>
<tr>
<td>Block 1A:</td>
<td>7/6/15 – 7/17/15</td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td>Block 8:</td>
<td>2/1/16 – 2/26/16</td>
<td></td>
</tr>
<tr>
<td>Block 1B:</td>
<td>7/20/15 – 7/31/15</td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>Block 8A:</td>
<td>2/1/16 – 2/12/16</td>
<td></td>
</tr>
</tbody>
</table>
### Medical School Rotation Description

**Course Director:** Martin Smith, MD  
Email: harvestfree.marty@gmail.com

**Course Coordinator:** Mary Ann Snell  
Telephone #: 843-792-7282  
Email: snellma@musc.edu

**Course Title:** MED 892: Novel Approaches to Primary Care

### Course Description:
This course will demonstrate to students the delivery of primary care to indigent, uninsured patients in a Christian faith-based clinic and insured patients in a self-insured corporate health network. Attention will be given to the cost of care relative to its efficacy, as well as the financial forces at work in the American health care system.

### Learning Goals & Objectives:
At the completion of this clinical rotation students should be able to do the following:
1. Care for common medical problems of indigent populations with an all-generic formulary and care for all patients in a cost-effective manner. (MK, PC, PL)
2. Demonstrate a firm grasp on the diagnosis and management of common primary care medical problems such as diabetes, hypertension, and mental health issues. (MK, PC)
3. Assess current state of the delivery of safe, cost-effective, efficient, patient-centered and equitable health care in the U.S. (PL)
4. Identify and support policy and service delivery changes that could improve access to, quality of, and effectiveness of healthcare in the US. (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. Observation and participation in outpatient care at the Harvest Free Medical Center, a faith-based facility in North Charleston that delivers primary care to the indigent.
2. Observation and participation in patient care at the Detyens Medical Center, a facility owned by Detyens Shipyards, Inc., a center that cares for its employees and their families at no cost to the employees.
3. Participation in small group didactic sessions covering diagnosis and management of common primary care medical problems.
4. Participation in small group discussions about patient cases, focusing on medical decision-making with a focus on effectiveness/cost.
5. Reading materials on the most widely accepted standards of care for common primary care patient problems.

### Patient Encounters:
Students will be expected to work-up patients with specified conditions such as:
1. Diabetes Mellitus
2. Hypertension
3. Hyperlipidemia
4. Asthma
5. Wellness checks

### Evaluation / Feedback Methods:
Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (MK, PC, PR, CS, SL, PL)
2. Verbal feedback after direct observation of patient care skills (PC, PR, CS).
3. The students will give their attending a mid-point evaluation form half way through the rotation in order to be assessed on their performance (MK, PC, PR, CS, SL, PL).
4. Verbal evaluation at the rotation's conclusion (MK, PC, PR, CS).

---

### Table: Student Blocks

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Does this rotation accept visiting students?**  
☐ YES  ☒ NO
Does this rotation accept visiting students? ☑ YES ☐ NO

COURSE DESCRIPTION:
This outpatient clinical stroke rotation is designed to give fourth-year medical students an opportunity to interact with the Department of Neurology stroke faculty in a clinical setting. They will have the opportunity to learn stroke etiologies, diagnosis, treatment and management, secondary stroke prevention and stroke recovery, and management of post-stroke complications. In addition, students will have the chance to learn about the MUSC REACH tele-stroke network.

LEARNING GOALS & OBJECTIVES:
At the completion of this clinical rotation students should be able to do the following:
1. Understand and discuss stroke diagnosis, secondary stroke prevention and management of post-stroke complications. (MK, PC, PL, SL)
2. Recognize common stroke syndromes and correlate with the neuro-anatomy involved. (MK, CS, PC, PL, SL)
3. Conduct a complete history and neurological examination in stroke patients. (MK, PC, CS, PR, PL, SL).
4. Discuss tele-stroke consultations learned through a real case consultation or a faculty demonstration. (MK, PC, CS, PR, PL, SL)

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. Patient contact by attending post-stroke follow-up clinics and post-stroke spasticity management clinic.
2. Attend daily neurology/stroke conferences which may involve directed reading/literature reviews.
3. One-on-one or group discussions.
4. Attend a MUSC REACH tele-stroke consultation session.
5. Oral, written, or small group presentation on stroke as assigned.

PATIENT ENCOUNTERS:
Students will be expected to work-up patients with these specified conditions:
1. New stroke consults – Patients referred to the stroke team from non-MUSC physicians.
2. Post-stroke hospitalization follow-ups
3. Post-stroke limb spasticity
4. Tele-stroke consultation

EVALUATION / FEEDBACK METHODS:
Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)
2. Daily verbal feedback from the course director or the assigned faculty co-director (PC, PR, MK, CS, SL, PL)
3. Midpoint feedback from the course director or the assigned faculty co-director (PC, PR, MK, CS, SL, PL)

Will students be expected to participate in call? ☐ YES ☑ NO
NSCS 845: Neuro-Ophthalmology

**Course Director:** Aljoeson Walker, MD  
Email: walkeral@musc.edu  
**Course Coordinator:** Caroline Diez  
Telephone #: 843-876-5053  
Email: diezc@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1: 7/6/15 – 7/31/15</td>
<td>1</td>
<td>Block 4A: 9/28/15 – 10/9/15</td>
<td>Block 7B: 1/18/16 – 1/29/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td>1</td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td>1</td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 2: 8/3/15 – 8/28/15</td>
<td>1</td>
<td>Block 5A: 10/26/15 – 11/6/15</td>
<td>Block 8B: 2/15/16 – 2/26/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 3A: 8/31/15 – 9/11/15</td>
<td>1</td>
<td>Block 6B: 12/7/15 – 12/18/15</td>
<td>Block 10: 3/28/16 – 4/22/16</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Does this rotation accept visiting students?** ☒ YES ☐ NO

**Course Description:** Students will learn and apply neurology knowledge to the ophthalmic system. He or she will be able to reasonably identify and appropriately determine objectives indicated for the visual concerns of the patient. Reading materials are: *Neuro-Ophthalmology: Clinical Signs and Symptoms* (Thomas J. Walsh) and *Neuroradiology* (D. Yousem and R. Grossman).

**Learning Goals & Objectives:** At the completion of this clinical rotation students should be able to do the following:
1. Perform a complete eye exam (MK, PC)
2. Identify misalignment/muscle imbalance of the eyes (MK, PC)
3. Identify papilledema and discuss its differential diagnosis in neuro-ophthalmologic diseases (MK, PC, CS)
4. Review and discuss neurologic disease as it relates to the visual system (MK, PC, CS)
5. Discuss the use of treatment options as they pertain to neuro-ophthalmologic diseases (MK, PC, 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 at neurosciences and selected neuro-ophthalmology conferences.
2. Patient contact with patients primarily in outpatient clinics.
3. Independent Patient Case Presentation neuro-ophthalmologic or headache disorders, to be presented at weekly conference.

**Patient Encounters:** Students will be expected to work-up patients with these specified conditions:
1. Migraine and related visual issues
2. Papilledema and headache complaints
3. Diplopia
4. Complicated visual issues and MS or pseudotumor cerebri (headaches)
5. Spinal tap

**Evaluation / Feedback Methods:** Students will be evaluated using the following methods:
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)
2. Daily verbal feedback from the course director or the assigned faculty co-director (PC, PR, MK, CS, SL, PL)
3. Midpoint feedback from the course director or the assigned faculty co-director (PC, PR, MK, CS, SL, PL)

**Will students be expected to participate in call?** ☐ YES ☒ NO
COURSE DESCRIPTION:
This elective exposes students to the spectrum of neurologic disease in children through a mixture of inpatient and outpatient experiences. The emphasis is on mastering the fundamentals of taking a neurologic history and performing a neurologic examination; localizing lesions within the neuraxis; selecting diagnostic tests; and managing common neurologic disorders. Hours are approximately 8:00am–5:30pm.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Elicit accurate neurologic histories and perform comprehensive neurologic exams on pediatric patients of varying ages. (CS, MK, PC)
2. Demonstrate increasing sophistication in interpreting & synthesizing clinical findings into rational differential diagnoses. (MK, PL)
3. Select appropriate laboratory studies to establish specific diagnoses. (MK, PL)
4. Demonstrate an increased understanding of management principles including appropriate choice of therapeutic modalities and the inherent risks of each. (MK, PC, PL)
5. Exhibit effective communication skills with pediatric patients and their parents. (CS, 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. Patient contact
2. One-on-one and/or group discussions
3. Attendance at neuroscience conferences including the Pediatric Neurology Thursday A.M. Conference
4. Independent study
5. Participation in outreach opportunities when available

PATIENT ENCOUNTERS: Students will be expected to work-up patients with some of these specified conditions:
1. Seizures (febrile, new-onset, status epilepticus)
2. Headache
3. Neurodevelopmental disabilities (includes developmental delay, intellectual disability, autism spectrum disorders, cerebral palsy)
4. Movement disorders (includes tics and Tourette syndrome)
5. Traumatic brain injury (includes concussion)
6. Other conditions as available including brain tumors, neuromuscular disorders, neurocutaneous syndromes, inborn errors of metabolism/mitochondrial disorders, and demyelinating disorders.

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)
2. Daily verbal feedback from the course director or the assigned faculty co-director (PC, PR, MK, CS, SL, PL)
3. Midpoint feedback from the course director or the assigned faculty co-director (PC, PR, MK, CS, SL, PL)

Will students be expected to participate in call? □ YES ☒ NO
Does this rotation accept visiting students? ☑ YES ☐ NO

**COURSE DESCRIPTION:**
This neurosurgery externship will provide exposure to all facets of neurosurgery, both pediatric and adult. Students will have the opportunity to provide outpatient and inpatient preoperative and postoperative care in the clinical and hospital setting. Through didactic teaching, care of patients in the clinic and hospital, and direct observation of neurosurgical procedures, students will become familiar with common neurosurgical disorders and methods of treatment at all ages.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Describe clinical neurosurgical diagnoses and discuss their management issues in some of the most common neurosurgical disorders. (MK, PC, CS)
2. Perform a focused history and neurological exam for common neurosurgical disorders. (MK, PC, PL, SL)
3. Review and discuss basic neurosurgical approaches to common neurosurgical disorders, as well as the postoperative care and long-term management issues. (MK, PC, CS, PL, SL)
4. Identify and discuss the contributions and limitations of diagnostic imaging and neuro-physiological testing in patient assessments. (MK, PC, CS)
5. Formulate and be able to discuss non-surgical treatment plans for neurosurgical diagnosis and identify the common complications that may occur with or without neurosurgical interventions. (MK, PC, CS, PR, PL, SL)

**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. Direct observation and patient contact in outpatient clinics, hospital inpatients, and in the operating room.
2. Attendance at neurosurgery and other assigned neurosciences conferences.
3. Oral presentation on an assigned topic in neurosurgery. (30-45 minute platform presentation to include topic review, research presentation or interesting case presentation of value to neurological surgery.)
4. One on one and/or group team discussions

**PATIENT ENCOUNTERS:** Students will be expected to evaluate patients with:
1. Neuro trauma –traumatic injury and spinal column/cord injury
2. Degenerative spine disorders/myelopathy,
3. Hydrocephalus,
4. Brain/spine tumors,
5. Vascular lesions of brain
6. Entrapment neuropathies

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)
2. Daily verbal feedback from the course director or the assigned faculty co-director (PC, PR, MK, CS, SL, PL)
3. Midpoint feedback from course director or the assigned faculty co-director. (PC, PR, MK, CS, SL, PL)

Will students be expected to participate in call? ☑ YES ☐ NO
One call night per week supervised by the upper level neurological surgery residents/attending
Does this rotation accept visiting students? ☑ YES ☐ NO

**COURSE DESCRIPTION:**
Pediatric Neurosurgery diagnoses and treats disorders of the nervous system through surgical means in patients up to eighteen years of age. Students participating in a pediatric neurosurgery elective will gain experience through didactic neurosurgery conferences, assisting the physician in both outpatient clinic visits and inpatient care in the hospital, and through observation/assisting of surgical procedures. Students who are taking a neurology course for the first time will be required to take the NBME Neurology Shelf Exam and take call as described below.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Identify and discuss common disorders of pediatric neurosurgery. (MK, PC, CS, PL)
2. Differentiate the various imaging modalities used to evaluate pediatric neurosurgical disorders. (MK, PC, PL)
3. Perform the physical and neurological examination of pediatric patients with neurosurgical disorders. (MK, PC, PL, CS)
4. Propose and discuss treatment methods for common pediatric neurosurgical disorders. (MK, PC, CS)
5. Show consideration and advocacy for the patient and patient’s family. (MK, PC, 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. Direct observation and patient contact in outpatient clinics, hospital inpatients, and in the operating room.
2. Attendance at neurosurgery and other assigned neurosciences conferences.
3. Oral presentation on an assigned topic in neurosurgery (30-45 minute platform presentation to include topic review, research presentation or interesting case presentation of value to neurological surgery) – Attending for the case being discussed/topic being picked will be the mentor for this presentation.
4. One-on-one and/or group team discussions

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Pediatric hydrocephalus
2. Pediatric traumatic brain injury
3. Pediatric Abnormal head shape (both pathologic and non-pathologic)
4. Pediatric Spinal disorders

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)
2. Verbal feedback from the course director or the assigned faculty co-director (PC, PR, MK, CS, SL, PL)
3. Midpoint feedback from the course director or the assigned faculty co-director (PC, PR, MK, CS, SL, PL)

Will students be expected to participate in call? ☐ YES ☑ NO
Does this rotation accept visiting students? ☑️ YES ☐ NO

COURSE DESCRIPTION:
Students will be exposed to clinical neurovascular (stroke) patients to acquire a basic knowledge of the clinical examination and patient interviewing, vascular risk factors for stroke and neuro-imaging (CT, MRI, TCD, etc.). Academic opportunities will be presented from shadowing the attending on wards, stroke clinic, research meetings/conferences as well as attending at least two (but more if possible) open or endovascular surgical procedures arranged by the course director. Student will learn about evidence-based clinical study design and journal article review. Student will be introduced to the REACH-MUSC telemedicine program.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Review and discuss journal articles pertaining to stroke. (MK, PC, CS)
2. Identify and discuss the basic design of evidence-based clinical studies in acute and stroke prevention, both locally at MUSC as well as nationally. (MK, PC, CS, PL, SL)
3. Develop and discuss a research question suitable for future clinical and/or laboratory investigation. (MK, CS, SL)
4. Demonstrate enhanced clinical examination skills, interviewing skills, understanding the vascular risk factors for stroke and a basic understanding of neuroimaging (CT, MRI, and TCD). (MK, PC, CS, PR, PL, SL)
5. Discuss and demonstrate procedures for evidence-based guidelines relevant to ischemic and hemorrhagic stroke and generalized neuro-vascular disease. (MK, CS, PL, SL)

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. Patient contact with inpatients on the Stroke Unit/Vascular Neurology Ward at MUH.
2. One-on-one and/or group/team discussions; one formal lecture per week on stroke topics.
3. Directed reading on general and selected topics in the neurosciences as well as handouts on cerebrovascular diseases.
4. Attendance at neurosciences conferences
5. Written or oral presentation on selected stroke topic.
6. Independent study on a selected stroke topic.

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Ischemic stroke small vessel and large vessel
2. Hemorrhagic stroke
3. Transient ischemic attack
4. Encephalopathy

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)
2. Daily verbal feedback from the course director or the assigned faculty co-director (PC, PR, MK, CS, SL, PL)
3. Midpoint feedback from the course director or the assigned faculty co-director (PC, PR, MK, CS, SL, PL)

Will students be expected to participate in call? ☑️ YES ☐ NO
Does this rotation accept visiting students? ☑ YES ☐ NO

COURSE DESCRIPTION:
This course exposes students to intern-level responsibilities for patient care and allows the student to perform clinically while under close supervision. The experience occurs on a hospital inpatient service where students will be expected to work-up and evaluate patients with general neurologic diseases, present cases to attending physicians, and participate in all aspects of the patient’s care. Teaching will emphasize clinical/anatomical correlations as well as other aspects of professionalism in patient care.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Demonstrate understanding of intern-level responsibilities for neurological patient care. (MK, PC, CS, PL, SL, PR)
2. Demonstrate the ability to perform a history and general physical and neurological exam. (MK, PC, PR, CS, PL)
3. Understand and discuss the contribution of diagnostic testing to the evaluation of neurologic patients. (MK, PC, CS)
4. Demonstrate an ability to critically review and discuss medical neurological literature. (MK, CS, 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. Direct observation and patient contact in a clinical setting.
2. Attendance at neurosciences conferences and Grand Rounds as well as other assigned relevant conferences.
3. Oral, written, or small group presentations as assigned by course director or the assigned faculty co-director.

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Epilepsy
2. Stroke
3. Myasthenia Gravis
4. Multiple Sclerosis
5. Neuromyelitis Optica
6. Encephalitis
7. Guillain Barre Syndrome

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)
2. Daily verbal feedback from the course director or the assigned faculty co-director (PC, PR, MK, CS, SL, PL)
3. Midpoint feedback from the course director or the assigned faculty co-director (PC, PR, MK, CS, SL, PL)

Will students be expected to participate in call? ☑ YES ☐ NO
One night of Neurology call per week is required.
NSCS 860: Neuroscience ICU Externship

**Course Director:** Julio Chalela, MD  
Email: chalela@musc.edu  

**Course Coordinator:** Caroline Diez  
Telephone #: 843-876-5053  
Email: diezc@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1: 7/6/15 – 7/31/15</td>
<td>1</td>
<td>Block 4A: 9/28/15 – 10/9/15</td>
<td>1</td>
<td>Block 7B: 1/18/16 – 1/29/16</td>
<td>1</td>
</tr>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td>1</td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td>1</td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td>1</td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td>1</td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>1</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td>1</td>
</tr>
<tr>
<td>Block 2: 8/3/15 – 8/28/15</td>
<td>1</td>
<td>Block 5A: 10/26/15 – 11/6/15</td>
<td>1</td>
<td>Block 8B: 2/15/16 – 2/26/16</td>
<td>1</td>
</tr>
<tr>
<td>Block 2A: 8/3/15 – 8/14/15</td>
<td>1</td>
<td>Block 5B: 11/9/15 – 11/20/15</td>
<td>1</td>
<td>Block 9: 2/29/16 – 3/25/16</td>
<td>1</td>
</tr>
<tr>
<td>Block 3A: 8/31/15 – 9/11/15</td>
<td>1</td>
<td>Block 6B: 12/7/15 – 12/18/15</td>
<td>1</td>
<td>Block 10: 3/28/16 – 4/22/16</td>
<td>1</td>
</tr>
<tr>
<td>Block 3B: 9/14/15 – 9/25/15</td>
<td>1</td>
<td>Block 7: 1/4/16 – 1/29/16</td>
<td>1</td>
<td>Block 10A: 3/28/16 – 4/8/16</td>
<td>1</td>
</tr>
<tr>
<td>Block 4: 9/28/15 – 10/23/15</td>
<td>1</td>
<td>Block 7A: 1/4/16 – 1/15/16</td>
<td>1</td>
<td>Block 10B: 4/11/16 – 4/22/16</td>
<td>1</td>
</tr>
</tbody>
</table>

Does this rotation accept visiting students?  
☐ YES  ☐ NO

**COURSE DESCRIPTION:**
This neurosciences ICU externship will provide students with a thorough understanding of basic general critical care and neurocritical care concepts. The students are expected to read the syllabus that is provided to them. Students are expected to learn the fundamentals of resuscitating patients with severe acute neurologic injuries. Students will become familiar with airway management issues, respiratory management, circulatory support, management of increased intracranial pressure, and management of comorbid conditions seen in patients with acute neurologic injury. Students will be expected to become familiar with all critical care issues and instructed on imaging interpretation as it pertains to ICU patients. Students will participate in hands-on procedures under close supervision and will be expected to take call similar to a PGY-II neurology resident.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Evaluate and discuss a critically ill patient with neurologic/neurosurgical illness. (MK, PC, CS)
2. Develop and discuss a clinical care/management plan for Neuro-ICU patients. (MK, PC, CS, PL)
3. Manage the most common neurologic emergencies requiring neurocritical care. (MK, PC, PL)
4. Learn and perform some critical care procedures required in the Neuro ICU. (MK, PC, PL)
5. Understand and discuss the contributions and limitations of diagnostic imaging (MRI, CT) and neurophysiological testing (EEG, MG/NCV) in the assessment of Neuro ICU patients. (MK, PC, 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. Direct observation and patient contact in a clinical setting.
2. Attendance at neurosciences conferences and Grand Rounds as well as other assigned relevant conferences.
3. Oral, written, or small group presentations as assigned by course director or the assigned faculty co-director.

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Acute cerebrovascular emergencies requiring critical care
2. Acute neuromuscular emergencies requiring critical care
3. Post-operative neurosurgical patients
4. Status epilepticus patients
5. Head and spinal cord trauma
6. Brain tumor patients
7. CNS infections

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)
2. Daily verbal feedback from the course director or the assigned faculty co-director (PC, PR, MK, CS, SL, PL)
3. Midpoint feedback from the course director or the assigned faculty co-director (PC, PR, MK, CS, SL, PL)

Will students be expected to participate in call?  
☐ YES  ☐ NO

One call night per week supervised by the upper level neurology residents/attending.
### Course Description:
This neurosurgical externship gives students a firsthand look at the challenges and rigors of neurosurgery, with a focus on participating in surgical treatment of the spine. Students will also attend didactic Neurosurgery conferences in the Department of Neurosciences, will participate in the diagnosis and treatment of patients in the outpatient clinic setting, and will assist in the care of patients in the Neurosciences ICU.

### Learning Goals & Objectives:
At the completion of this clinical rotation students should be able to do the following:
1. Recognize clinically common disorders of the spine. (MK, PC)
2. Understand and discuss the various imaging modalities (MRI, CT) to evaluate spine disorders. (MK, PC, CS)
3. Perform a focused history, physical and neurological examination on patients with spinal disorders. (MK, PC)
4. Understand and discuss the various treatments (surgical and non-surgical) for the common disorders of the spine; understand and discuss the pain management referral process for non-surgical patients. (MK, CS, 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. Direct observation and patient contact in outpatient clinics, hospital inpatients, and in the operating room.
2. Attendance at neurosurgery and other assigned neurosciences conferences.
3. Oral presentation on a topic in neurosurgery as assigned (30-45 minute platform presentation to include topic review, research presentation or interesting case presentation of value to neurological surgery).

### Patient Encounters:
Students will be expected to evaluate and treat patients with these specified conditions:
1. Degenerative Spine Disease
2. Spine Trauma
3. Spine Infections
4. Spine Tumors

### Evaluation / Feedback Methods:
Students will be evaluated using the following methods:
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)
2. Daily verbal feedback from the course director or the assigned faculty co-director (PC, PR, MK, CS, SL, PL)
3. Midpoint feedback from course director or the assigned faculty co-director. (PC, PR, MK, CS, SL, PL)

### Does this rotation accept visiting students? ☑ YES ☐ NO

---

**Course Director:** Abhay Varma, MD  
Email: varma@musc.edu

**Course Coordinator:** Caroline Diez  
Telephone #: 843-876-5053  
Email: diezc@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1: 7/6/15 – 7/31/15</td>
<td>1</td>
<td>Block 4A: 9/28/15 – 10/9/15</td>
<td></td>
<td>Block 7B: 1/18/16 – 1/29/16</td>
<td></td>
</tr>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td></td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td>1</td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 2: 8/3/15 – 8/28/15</td>
<td>1</td>
<td>Block 5A: 10/26/15 – 11/6/15</td>
<td>Block 8B: 2/15/16 – 2/26/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 3A: 8/31/15 – 9/11/15</td>
<td></td>
<td>Block 6B: 12/7/15 – 12/18/15</td>
<td>Block 10: 3/28/16 – 4/22/16</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Will students be expected to participate in call? ☑ YES ☐ NO
COURSE DESCRIPTION:
Students will have contact with pediatric and adult outpatients as well as neurogenetic clinical research work at the Greenwood Genetic Center in North Charleston, SC and, if special arrangements are made, at the main office of the Greenwood Genetic Center in Greenwood, SC.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Discuss major topics in neurometabolic-genetic disease. (MK, PC, CS)
2. Demonstrate developing skills to identify and evaluate possible genetic neurodevelopmental disabilities. (MK, PC, CS, PL)
3. Know and discuss the mechanics and application of neurometabolic-genetic diagnostic studies. (MK, PC, CS, PL, SL)
4. Participate in the presentation/counseling of an affected patient/family. (CS, PL, SL, PR)

INSTRUCTIONAL METHODOLOGIES & 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. Patient contact and/or video case presentations.
2. One-on-one and/or group discussions.
3. Textbook and literature searches on selected neurogenetic topics, as well as general topics in the neurosciences.
4. Clinical laboratory exposure to metabolic-genetic diseases/case presentations.
5. Attend Greenwood Genetic Center monthly case conference and MUSC neurosciences conferences.

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Patients with neurodevelopmental disabilities (NDD) of suspected genetic origin
2. Video/power-point patient presentations to experience the broad differential diagnosis of patients with NDD.

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 and in-person feedback by attending physician and/or resident physician. (CS, MK, PC, PR, PL, SL)
3. Midpoint feedback from the course director or the assigned faculty co-director. (MK, PC, PR, PL, SL, CS)

Does this rotation accept visiting students?  □ YES  ☒ NO

Will students be expected to participate in call?   □ YES  ☒ NO
COURSE DESCRIPTION:
Student will function as a sub intern on the Gynecologic Oncology services in the setting of the inpatient service, outpatient clinic, and operating room. Formal didactic teaching and a weekly tumor board are included. Students must receive approval from the OBGYN Medical Student Education Director to schedule Blocks 1-6.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Demonstrate an understanding of the essentials of diagnosis and treatment of gynecologic cancers (MK, PC)
2. Apply the knowledge gained to assess patients and develop treatment plans (PC, CS, MK)
3. Interact with specialists in the field of gynecologic oncology, radiation oncology and hematology/oncology (CS, PC)
4. Observe and learn basic principles of surgery for gynecologic cancer (MK)
5. Describe the fundamentals of chemotherapy and radiation therapy for gynecologic cancer (MK)

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. Didactics
2. Rounds/Discussions
3. Clinic
4. Patient Load
5. Operating Room

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Ovarian cancer, new diagnosis
2. Endometrial cancer, new diagnosis
3. Cervical cancer, new diagnosis
4. Advanced gynecologic malignancy requiring cytotoxic chemotherapy
5. Acute perioperative complications following surgery for gynecologic cancer

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)
2. A mid-point evaluation form will be completed half way 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
Weekend rounds (per your ONC Resident Team instructions)
BLOCK | # Students | BLOCK | # Students | BLOCK | # Students
--- | --- | --- | --- | --- | ---
Block 1: 7/6/15 – 7/31/15 | 1 | Block 4A: 9/28/15 – 10/9/15 | Block 7B: 1/18/16 – 1/29/16 | 1
Block 1A: 7/6/15 – 7/17/15 | 1 | Block 4B: 10/12/15 – 10/23/15 | Block 8: 2/1/16 – 2/26/16 | 1
Block 1B: 7/20/15 – 7/31/15 | 1 | Block 5: 10/26/15 – 11/20/15 | Block 8A: 2/1/16 – 2/12/16 | 1
Block 2: 8/3/15 – 8/28/15 | 1 | Block 5A: 10/26/15 – 11/6/15 | Block 8B: 2/15/16 – 2/26/16 | 1
Block 2A: 8/3/15 – 8/14/15 | 1 | Block 5B: 11/9/15 – 11/20/15 | Block 9: 2/29/16 – 3/25/16 | 1
Block 3A: 8/31/15 – 9/11/15 | 1 | Block 6B: 12/7/15 – 12/18/15 | Block 10: 3/28/16 – 4/22/16 | 1
Block 3B: 9/14/15 – 9/25/15 | 1 | Block 7: 1/4/16 – 1/29/16 | Block 10A: 3/28/16 – 4/8/16 | 1

Does this rotation accept visiting students? ☒ YES ☐ NO

COURSE DESCRIPTION:
This elective is designed to offer the student an opportunity to enhance their experience in the management of outpatient gynecological patients. This will include gynecological care for women of all age groups, through inpatient and outpatient experiences. The student will work with specialty clinics with faculty and residents. Students must receive approval from the OBGYN Medical Student Education Director to schedule Blocks 1-6.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Demonstrate an understanding of primary and preventive care for women (MK, PC)
2. Demonstrate the ability to perform a thorough gynecologic history and physical examination (MK, PC, CS)
3. Apply the knowledge gained to assess patients and develop treatment plans (MK, PC, CS)
4. Interact with specialists and generalists in the field of obstetrics and gynecology in order to recognize the breadth and depth of the specialty (CS, PC)
5. Practice surgical skills (MK, 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. Didactics - Grand Rounds, M&M, weekly resident didactic lecture sessions
2. Rounds/Discussions
3. Clinic
4. Patient Load
5. Operating Room

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Abnormal uterine bleeding
2. Urinary incontinence
3. Undesired fertility
4. Menopausal symptoms
5. Gynecologic infections

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)
2. A mid-point evaluation form will be completed half way 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
Weekend rounds – no overnight call.
Does this rotation accept visiting students? ☒ YES ☐ NO

COURSE DESCRIPTION:
The rotation is designed to offer the student an opportunity for enhanced experience in the management of high-risk obstetrical patients. The student will work closely with the faculty and fellows from the Division of Maternal-Fetal Medicine in the Department of Obstetrics and Gynecology. Clinically, the primary focus is the care of antepartum inpatients and participation in High Risk Obstetrics clinic. The student will also develop skills in the interpretation of NST’s and ultrasounds. Students must receive approval from the OBGYN Medical Student Education Director to schedule Blocks 1-6.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Demonstrate an understanding of the management of high-risk obstetrical patients including those with obstetric complications as well as medical complications of pregnancy. (MK, PC)
2. Demonstrate the ability to perform a thorough obstetrical history and physical examination (MK, PC, CS, PR)
3. Interact with specialists in the field of high-risk obstetrics and genetics in order to recognize the breadth and depth of the specialty (CS, PC)
4. Practice basic clinical skills during obstetrical procedures (MK, PC)
5. Demonstrate the ability to research a clinical problem and educate peers by preparing a lecture based on an antepartum patient directed to 3rd-year medical students and residents (PL, CS, MK, PR)

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. Didactics: Grand Rounds, M&M, Weekly resident didactic lecture sessions, Weekly MFM fellow’s conferences
2. Daily Rounds/Discussions
3. Clinic
4. Patient Load
5. Preparation of a lecture based on a case on the Antepartum Service directed at the residents and 3rd year students on the service

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Preterm labor
2. HTN/Preeclampsia
3. Multiple gestations
4. Diabetes in pregnancy
5. Term Labor

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)
2. Evaluation of the student lecture (CS, PL, MK, PR)
3. A mid-point evaluation form will be completed half way 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
Students will take one call per week.
Does this rotation accept visiting students? ☑ YES ☐ NO

COURSE DESCRIPTION:
This elective will provide students an opportunity to explore the subspecialty of family planning including contraception, pregnancy options counseling, pregnancy termination, and management of miscarriage. Students will have the opportunity to observe patient care at an abortion clinic in Charleston, participate in patient care in our Early Pregnancy Failure and Contraception Clinics, and assist with gynecologic procedures in the operating room. Students will also have structured didactics and will complete an evidence-based medicine assignment and a narrative medicine assignment. The elective includes protected time for completion of readings and projects.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Provide comprehensive and accurate contraceptive counseling to patients in a manner that is sensitive to their personhood. (PC4, PC5)
2. Evaluate patients with unintended or abnormal pregnancy and counsel them regarding their diagnosis and management options. (PC1, PC2, PC3, CS2, MK5, PR3)
3. Describe the epidemiology of unintended pregnancy and abortion in the United States and health systems barriers to accessing reproductive health care. (MK7, SL2, SL5)
4. Identify an area of clinical knowledge deficiency, conduct a literature search and summarize the results for the attending and resident on the family planning service. (PL1, PL3, CS3, MK8, PR4)

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. Participating in patient care in 3 locations: an abortion clinic, MUSC’s family planning clinic, and the operating room.
2. Structured didactic reading about family planning designed for a medical student.
3. Completion of a literature search and summary of the results.
4. Completion of a narrative medicine project.

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions
1. Unintended pregnancy
2. Early pregnancy failure (miscarriage, ectopic pregnancy)
3. Contraception initiation and management
4. IUD and implant insertions and removals
5. Induced abortion
6. Fetal demise

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (MK, PC, PR, CS, PL, SL)
2. Feedback card for evaluation of the literature search and summary. (MK, PR, PL, CS)
3. Midpoint feedback with the course director

Will students be expected to participate in call? ☑ YES ☐ NO
However, call on labor and delivery can be facilitated if desired by the student.
COURSE DESCRIPTION:
The rotation will introduce students to the discipline of Reproductive Infectious Diseases (RID). The student will work with the RID fellows and faculty in both outpatient and inpatient settings. This will include attending specialty clinics at MUSC Women’s Health for sexually transmitted infections, perinatal HIV, and women with vulvar disease and recurrent vaginitis. Under the guidance of the RID attendings and fellows, RID elective students will see women with postpartum and postoperative infections, inpatient RID consultations, and patients admitted with reproductive infections, e.g. PID, complications of HIV in pregnancy. Students must receive approval from the OBGYN Medical Student Education Director to schedule Blocks 1-6.

LEARNING GOALS & OBJECTIVES:
At the completion of this clinical rotation students should be able to do the following:
1. Demonstrate an understanding of reproductive infections (RI) in women (MK)
2. Demonstrate the ability to perform point of care testing in the diagnosis of RI. (MK, PC, CS)
3. Apply knowledge gained to appropriately diagnose and treat RI (MK, PC, CS)
4. Demonstrate an understanding of vulvovaginal diseases and their diagnosis and treatment (MK, PC)
5. Demonstrate knowledge in perinatal and gynecologic care specific to HIV positive women (MK, 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. Didactics – The following conference and didactics will be attended weekly: OBGYN and ID Grand Rounds, OBGYN M&M, OBGYN resident and Adult ID fellows lecture sessions, and Adult ID and MFM teaching conferences.
2. Patient contact in the following specialty clinics: GYN ID, HIV OB clinic, STD clinic, and Pediatric HIV clinic.
3. Diagnostics and lab experience – point of care testing e.g. microscopy of the vaginal secretions, nucleic acid amplification for common STIs, and participation in microbiology lab exercises as directed by Dr. Lisa Steed

PATIENT ENCOUNTERS:
Students will be expected to work-up patients with these specified conditions
1. HIV in pregnancy
2. Patients with STD symptoms or PID
3. Patients with vaginitis
4. Vulvar diseases
5. Abnormal cervical cytology

EVALUATION / FEEDBACK METHODS:
Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (MK, PC, PR, CS, PL, SL)
2. Students are expected to prepare a 45-minute presentation with immediate feedback provided from the faculty and residents. (MK, CS, PL)
3. A mid-point evaluation form will be completed half way 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

PATIENT ENCOUNTERS:
1. HIV in pregnancy
2. Patients with STD symptoms or PID
3. Patients with vaginitis
4. Vulvar diseases
5. Abnormal cervical cytology

EVALUATION / FEEDBACK METHODS:
1. E*Value Clinical Performance Evaluation (MK, PC, PR, CS, PL, SL)
2. Students are expected to prepare a 45-minute presentation with immediate feedback provided from the faculty and residents. (MK, CS, PL)
3. A mid-point evaluation form will be completed half way through the rotation in order for the student to be assessed on their performance (MK, PC, PR, CS, SL, PL).
OPTHO 854: General Ophthalmology

**Course Director:** Edward Cheeseman, MD
Email: cheesema@musc.edu

**Course Coordinator:** Sophia Zimmermann
Telephone #: 843-792-8864
Email: zimmers@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1: 7/6/15 – 7/31/15</td>
<td>5</td>
<td>Block 4A: 9/28/15 – 10/9/15</td>
<td></td>
<td>Block 7B: 1/18/16 – 1/29/16</td>
<td></td>
</tr>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td></td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td>Block 8: 2/1/16 – 2/26/15</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>2</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 2: 8/3/15 – 8/28/15</td>
<td>5</td>
<td>Block 5A: 10/26/15 – 11/6/15</td>
<td>Block 8B: 2/15/16 – 2/26/16</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Does this rotation accept visiting students? ☑ YES ☐ NO

**COURSE DESCRIPTION:**
This elective will introduce students to clinical ophthalmology. Students will participate in didactic sessions including Grand Rounds, Journal Clubs, and Friday afternoon lectures. Students will work one-on-one with ophthalmology residents and attendings examining patients and observing surgery. A text will be provided as a checklist of practical goals to be achieved over the course of the rotation.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Demonstrate understanding of the role and scope of ophthalmology within medicine. (MK, PR, SL, PL)
2. Initiate an ophthalmology exam with a standard screening protocol. (MK, CS, PR PL)
3. Identify the presentation of acute and common ophthalmology complaints. (MK, PL, SL)
4. Triage acute and common complaints and understand when to consult the ophthalmology service. (PL MK, PC, SL)
5. Identify common ophthalmology surgeries, such as cataract, strabismus, corneal transplant, retinal detachment, glaucoma, and oculoplastic surgeries. (MK, PL 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. Observation/participation in different clinics with mentorship by a resident or attending physician.
2. Observation of surgery with mentorship by a resident or attending physician.
3. Observation of a consultation on the wards or emergency department with mentorship by a resident or attending physician.
4. Attendance at department grand rounds.
5. Completion of required reading: Basic Ophthalmology for Medical Students and Primary Care Residents, 8th edition

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Cataracts
2. Diabetes
3. Neuro-ophthalmology
4. Glaucoma
5. Strabismus
6. “Red painful eye”

**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 clinical and patient care skills by the attending physician and residents. Learners will receive verbal feedback on their clinical performances following clinics and surgeries. (PC, CS, PR)
3. Completion of a 40-item multiple choice question quiz at the end of the rotation. The quiz will be graded and reviewed with the first-year resident in the general ophthalmology clinic. (MK, SL)
4. Attendance as documented in a daily log of clinical/surgery/patients evaluated by course director. (PC, PR PL, SL)
5. Adequate screening of 1 patient in general clinic per protocol and evaluated by general ophthalmology team. (MK, CS, PR SL, PL)
6. A mid-point evaluation form will be completed half way 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
OSURG 850: Orthopaedic Surgery Externship ASE

**Course Director:** Joseph J. Calandra, MD
Email: jcalandra@bellsouth.net

**Course Coordinator:** Cassandra Tucker
Telephone #: 843-792-0245
Email: tuckerc@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1: 7/6/15 – 7/31/15</td>
<td>5</td>
<td>Block 4A: 9/28/15 – 10/9/15</td>
<td>Block 7B: 1/18/16 – 1/29/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td></td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td>5</td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 2: 8/3/15 – 8/28/15</td>
<td>5</td>
<td>Block 5A: 10/26/15 – 11/6/15</td>
<td>Block 8B: 2/15/16 – 2/26/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 3A: 8/31/15 – 9/11/15</td>
<td>5</td>
<td>Block 6B: 12/7/15 – 12/18/15</td>
<td>Block 10: 3/28/16 – 4/22/16</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Does this rotation accept visiting students?** ☑ YES ☐ NO

**COURSE DESCRIPTION:**
This course includes daily involvement with the orthopaedic service, including office-based clinics as well as outpatient and inpatient surgery. Students will also be involved in post-surgical care. Student will function as a sub-intern while on this rotation.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Diagnose, understand, and discuss the treatment of many MSK injuries. This will be accomplished through one-to-one teaching in clinics and the operating room setting for patients on that particular service. The student will be responsible for the post-operative care of patients, including rounding on patients, writing notes, and discussing patients with either an upper-level resident or the attending on the service. (MK, PC, CS, PL, SL)
2. Present patients on rounds to upper-level residents and attendings. (PR, CS)
3. Give weekly case presentations to faculty members. (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. One-on-one teaching
2. Small group didactic sessions
3. Attendance at all resident educational conferences, including a 3-hour weekly didactic session
4. Case presentations
5. Patient care morning and evening rounds
6. Participate in the pre-operative, intra-operative and post-operative care of orthopaedic surgery patients

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Long bone fractures
2. Musculoskeletal tumors
3. Multi Trauma patients
4. Musculoskeletal disorders such as O.A., R.A., Septic arthritis,
5. Low Back Pain, compartment syndrome.
6. Upper extremity reconstruction and compressive neuropathies

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)
2. Presentations to attendings and residents (CS, MK, PL, PR)
3. Research (PL, SL)
4. One to One Discussions (MK, PR, CS)
5. Clinics and Hospital Rounds (PC)
6. Daily interactions with faculty and residents in small groups and one to one sessions (PR, MK, CS)
7. Midpoint feedback will be done via one-to-one discussions between the faculty and student (PR, MK, CS)

**Will students be expected to participate in call?** ☑ YES ☐ NO
One week night until 10:00 pm and one weekend day (Fri, Sat, or Sun) per week.
OSURG 864: Office Based Orthopaedics ASE

**Course Director:** Joseph Calandra, MD  
Email: jcalandra@bellsouth.net

**Course Coordinator:** Cassandra Tucker  
Telephone #: 843-792-0245  
Email: tuckerc@musc.edu

---

**BLOCK** | **# Students** | **BLOCK** | **# Students** | **BLOCK** | **# Students**
--- | --- | --- | --- | --- | ---
Block 1B: 7/20/15 – 8/31/15 | 2 | Block 5: 10/26/15 – 11/20/15 | 2 | Block 8B: 2/1/16 – 2/26/16 | 

---

**Does this rotation accept visiting students?**  ❌ NO

---

**COURSE DESCRIPTION:**

This course offers students the opportunity to develop their evaluation and management of disorders of the musculoskeletal system. Students spend four weeks rotating through the orthopaedic subspecialty services. These services may include sports medicine, pediatric orthopaedics, adult reconstruction, hand, oncology foot and ankle, and spine. This rotation is for students interested in the care of the musculoskeletal system but not interested in a career in orthopaedic surgery. The students will also rotate at the South Carolina Sports Medicine and Orthopaedic Center.

---

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

1. Perform a subspecialty specific and problem focused history and examination. (MK, PC, PR)
2. Describe how special tests aid in establishing a diagnosis. (MK, SL)
3. Describe subspecialty specific issues in the peri-operative period. (PL, MK)
4. Present patients to colleagues. (PR, CS, SL)
5. Demonstrate an understanding of the need to refer MSK conditions to a specialist. (PC, SL, MK)
6. Identify which resources are most applicable to the MSK system. (PL, 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. One formal presentation per week
2. Daily work rounds/discussions with attendings in clinic
3. Orthopaedic conferences and Grand Rounds
4. Specific reading assignments

---

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

1. Upper extremity compressive neuropathies
2. Sports-related injuries
3. MSK complaints of the foot and ankle
4. Degenerative Joint Disease/Osteoarthritis
5. Shoulder and rotator pathology

---

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.

1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)
2. Case presentations (PC, PR, CS, MK, SL)
3. Formal presentations (PC, PR, CS, MK, PL)
4. Midpoint evaluations will be accomplished via small group and one-to-one sessions with the course director (CS, PR, PC)

---

**Will students be expected to participate in call?**  ❌ NO
OTOL 850: Otolaryngology Primary Care ASE

**Course Director:** Lucinda Halstead, MD, and David White, MD  
Email: halstead@musc.edu; white@dr@musc.edu  
**Course Coordinator:** Anita Cheslek  
Telephone #: 843-792-7162  
Email: cheslear@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td></td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td></td>
<td>Block 8: 2/1/16 – 2/26/15</td>
<td>2</td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td></td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td></td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
</tr>
</tbody>
</table>

Does this rotation accept visiting students? ☐ YES ☒ NO

**COURSE DESCRIPTION:**
This course is an introduction to the evaluation and management of diseases of the ear, nose, throat, and head and neck. (It is not an externship.) Students attend a clinically oriented lecture series, participate in the outpatient subspecialty clinics, and have closely supervised inpatient responsibility with all the sub-specialties in otolaryngology, as well as observe surgical procedures. Students participate in the clinical management of a wide assortment of the most common problems seen in the outpatient setting in otolaryngology with specific time devoted to the medical and surgical management of otitis media, chronic sinusitis, adenotonsillar hypertrophy, hearing loss, and common neck masses in adults and children.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Demonstrate proficiency with the ear, nose, throat, and head and neck exam. (PC, PR, CS)
2. Describe the role of office-based endoscopy for diagnosis and management of ear, nose, and throat problems. (PC, PR, CS)
3. Demonstrate the ability to treat the most common ENT problems effectively (PC, PR, CS, SL)
4. Discuss when to refer patients effectively (PC, PR, CS, SL)

**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. Regularly scheduled didactic lectures
2. Rounds and discussions
3. Patient encounters
4. Conferences

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Thyroid mass in an adult
2. Adenotonsillar hypertrophy in a child
3. Chronic otitis media in a child
4. Chronic sinusitis in an adult
5. Hoarseness/voice problem in an adult
6. Hearing loss in an adult

**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 feedback after outpatient clinic, inpatient rounds and management, and operating room experiences (MK, PC, PR, CS, PL, SL)
3. 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
Does this rotation accept visiting students? □ YES □ NO

**COURSE DESCRIPTION:**
This acting internship is limited to students applying for residency in ORL and provides a comprehensive overview of otolaryngology with in-depth experience in medical and surgical management of head and neck cancer, rhinology, otology, laryngology, and pediatric otolaryngology. MUSC students applying to ORL residency must contact the course coordinator PRIOR to registering and acceptance is on a first-come basis. MUSC students seeking ORL residency are strongly encouraged to rotate during Blocks 1 or 2. Students from other institutions must contact the course coordinator for details of the application requirements. The majority of our faculty will be unavailable from September 27-30, 2015, in order to attend the annual AAOHNS meeting.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Demonstrate the head and neck exam (PC, PR, CS)
2. Describe the whole spectrum of ENT surgery and medical management (PC, PR, SL, PL, CS, MK)
3. Formulate a plan to manage the postoperative inpatient (PC, PR, SL, CS, MK, 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. Lectures
2. Rounds/discussions
3. Patient contact
4. Patient load – Same as PGY 1 or 2

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Oral Cancer
2. Thyroid Nodule
3. Salivary Gland Neoplasm
4. Skin Cancer
5. Neck Mass

**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 feedback after outpatient clinic, inpatient rounds and management, and operating room experiences (MK, PC, PR, CS, PL, SL)
3. Oral presentation: 15 minute presentation with review of the literature based on a research project or patient they are following (MK, PR, CS)
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
Will follow the call schedule of the PGY2 on each team as they rotate the teams. Call will be approximately 2-3 times per week until 10:00 pm.
**Course Director:** Mark Hoy, MD  
Email: hoymark@musc.edu  

**Course Coordinator:** Anita Cheslek  
Telephone #: 843-792-7162  
Email: cheslear@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1: 7/6/15 – 7/31/15</td>
<td>1</td>
<td>Block 4A: 9/28/15 – 10/9/15</td>
<td>Block 7B: 1/18/16 – 1/29/16</td>
<td></td>
</tr>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 2: 8/3/15 – 8/28/15</td>
<td>1</td>
<td>Block 5A: 10/26/15 – 11/6/15</td>
<td>Block 8B: 2/15/16 – 2/26/16</td>
<td></td>
</tr>
<tr>
<td>Block 3A: 8/31/15 – 9/11/15</td>
<td>Block 6B: 12/7/15 – 12/18/15</td>
<td>Block 10: 3/28/16 – 4/22/16</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

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

**Course Description:**
This is an introductory course of adult and pediatric General Otolaryngology designed primarily for students pursuing careers in primary care medicine (Pediatrics, Internal Medicine, Family Medicine). Students will be mentored by the instructor, accompanying him throughout his weekly clinical activities including outpatient clinics (Rutledge Tower, North Charleston, Mount Pleasant) and outpatient surgery. In addition, students will have opportunities to participate in all departmental activities including, but not limited to Grand Rounds, M&M, journal club, and didactic lectures. Other attendings in the department may fill in for the mentor in rare instances and provide subspecialty experience in their areas of expertise.

**Learning Goals & Objectives:**
At the completion of this clinical rotation students should be able to do the following:
1. Perform a comprehensive otolaryngologic history and head and neck exam (MK, PC, PR, CS)
2. Demonstrate proficiency in diagnosing and treating common ENT diseases (MK, PC, PR, CS, SL)
3. Explain when referral to ENT specialist is indicated/necessary (MK, PC, PR, CS, SL)
4. Describe the scope of otolaryngology and its subspecialties (MK, PL, SL)

**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. Direct patient care in outpatient clinics
2. Assigned reading from basic ENT text and independent study
3. Daily review of topics encountered in clinic

**Patient Encounters:**
Students will be expected to work-up patients with these specified conditions:
1. Hearing loss
2. Chronic sinusitis
3. Dysphagia
4. Eustachian tube dysfunction
5. Chronic tonsillitis

**Evaluation / Feedback Methods:**
Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)
2. Daily/weekly summaries of topics encountered (MK, PC, PL)
3. Direct feedback after patient encounters (CS, PR, MK, PL, SL)
4. A mid-point evaluation form will be completed half way 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

**OTOL 853: Community Based Otolaryngology ASE**
OTOL 854: Otorhinolaryngology ASE

**Course Director:** Lucinda Halstead, MD  
Email: halstead@musc.edu  
**Course Coordinator:** Anita Cheslek  
Telephone #: 843-792-7162  
Email: cheslear@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td></td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
</tr>
</tbody>
</table>

**Does this rotation accept visiting students?** ☑ YES ☐ NO

**COURSE DESCRIPTION:**
This acting surgical internship is only open to MUSC students who are NOT applying to ORL residency. This course is an introduction to the evaluation and management of diseases of the head and neck. Students attend a clinically-oriented lecture series, participate in the outpatient clinics and have closely supervised inpatient responsibility.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Demonstrate mastery of the head and neck exam (PC, PR, CS, MK)
2. Discuss the spectrum of ENT surgery and medical management (PC, CS, PL, SL)
3. Manage the postoperative inpatient (MK, PC, CS, PR, PL, SL)

**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. Lectures
2. Rounds/discussions
3. Patient contact
4. Patient load is the same as PGY 1 or 2 resident

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Oral Cancer
2. Thyroid Nodule
3. Salivary Gland Neoplasm
4. Skin Cancer
5. Neck Mass

**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 feedback after outpatient clinic, inpatient rounds and management, and operating room experiences (MK, PC, PR, CS, PL, SL)
3. A mid-point evaluation form will be completed half way 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
Students will follow the call schedule of interns/GPY2 as they rotate on each team. Call will be approximately 2-3 times per week until 10:00 pm.
Course Director: Terry Day, MD  
Email: dayt@musc.edu  

Course Coordinator: Anita Cheslek  
Telephone #: 843-792-7162  
Email: cheslear@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td></td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td></td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td>1</td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td></td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td></td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
</tr>
<tr>
<td>Block 3A: 8/31/15 – 9/11/15</td>
<td></td>
<td>Block 6B: 12/7/15 – 12/18/15</td>
<td></td>
<td>Block 10: 3/28/16 – 4/22/16</td>
<td>1</td>
</tr>
</tbody>
</table>

Does this rotation accept visiting students? ☐ YES ☑ NO

### COURSE DESCRIPTION:
This course provides students with exposure to the multidisciplinary evaluation and management of tumors of the head and neck. The clinical experience will include patients with HPV-related oropharyngeal cancer, tobacco-related tongue and laryngeal cancer, tumors of the thyroid and salivary glands, skin cancer of the head and neck, and the wide variety of other tumors occurring in the head and neck region. Many of these tumors have symptoms that mimic much more common problems such as lymphadenitis, tonsillitis, pharyngitis, Bell’s palsy, and clinicians should be aware of the subtle differences between a patient with a common primary care problem treated with antibiotics versus a patient who may harbor an occult cancer. Students will function as an acting extern and be responsible for learning the early diagnosis, evaluation, and multidisciplinary treatment and rehabilitation for these diseases.

### LEARNING GOALS & OBJECTIVES:
At the completion of this clinical rotation students should be able to do the following:
1. Complete a comprehensive head and neck examination (PC, PR, CS, MK, PL)
2. Integrate and manage the diagnosis, staging, and management of patients with head and neck tumors into the clinical practice (MK, SL, PL, CS, PR)
3. Illustrate the neck lymph node levels and staging of head and neck cancers.
4. Summarize the NCCN Guidelines for the diagnosis and treatment of cancers of the thyroid, skin, parotid, tongue, pharynx, and larynx (SL, MK, 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. Lectures, rounds, and discussions
2. Patient contact – the patient load will be the same as a PGY 1 or 2 resident

### PATIENT ENCOUNTERS:
Students will be expected to work-up patients with these specified conditions:
1. Oral Cancer / Oropharyngeal Cancer
2. Thyroid Nodule
3. Salivary Gland Neoplasm
4. Neck Mass

### EVALUATION / FEEDBACK METHODS:
Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL)
2. Direct feedback after the following clinical experiences: operating room, outpatient clinics, inpatient rounds and management, Operating Room (MK, PC, PR, CS, PL, SL)
3. Attendance at Tumor Board and Lectures (MK, PR, 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
Students will follow the call schedule of the PGY 1 or PGY2. Call will be approximately 2-3 times per week until 10:00 pm.
**Course Director:** Nicholas Batalis, MD  
Email: batalini@musc.edu

**Course Coordinator:** Lisa Coulter  
Telephone #: 843-792-6483  
Email: coulterl@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1: 7/6/15 – 7/31/15</td>
<td>1</td>
<td>Block 4A: 9/28/15 – 10/9/15</td>
<td>Block 7B: 1/18/16 – 1/29/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td></td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td>1</td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 2: 8/3/15 – 8/28/15</td>
<td>1</td>
<td>Block 5A: 10/26/15 – 11/6/15</td>
<td>Block 8B: 2/15/16 – 2/26/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 3A: 8/31/15 – 9/11/15</td>
<td>1</td>
<td>Block 6B: 12/7/15 – 12/18/15</td>
<td>Block 10: 3/28/16 – 4/22/16</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Does this rotation accept visiting students? ☑ YES ☐ NO

**COURSE DESCRIPTION:**
This course offers insight into forensic pathology and medicolegal death investigation as well as the workup and certification of in-hospital deaths. The student will be involved in the performance of autopsies, including the performance of external examinations, disposition of fluid/tissue samples for ancillary studies, and basic dissection of the internal organs. This course offers an excellent opportunity for review of normal anatomy and exposes the student to common pathologies and traumas. Contact Dr. Nick Batalis via e-mail one week prior to the start of the rotation.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Identify factors that qualify a death for a forensic autopsy. (MK, SL)
2. Identify the benefits and limitations of medical or hospital autopsies. (MK, SL, PC)
3. Explain the complete details of how an autopsy is performed. (MK, PC)
4. Perform uncomplicated autopsy organ dissection. (MK, PC)
5. Properly complete the cause and manner of death section on a death certificate. (MK, SL, PC, 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 and participation in weekly autopsy conferences
2. Rotation specific didactics
3. Pre-case and post-case discussions with attending pathologist, residents, and /or forensic fellow
4. Active participation in autopsy casework
5. Student presentation of a 15-minute autopsy/forensic topic at the end of the rotation

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Natural diseases including hypertension, atherosclerosis, pneumonia, and/or cancer
2. Various forms of trauma including motor vehicle accidents, burns, gunshot wounds, and/or sharp force injuries
3. Illicit and prescription drug overdoses

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)
2. Attending physicians, forensic fellow, and pathology residents will provide on-site verbal evaluation/feedback about daily service work (MK, PC, SL)
3. Attending physicians, forensic fellow, and pathology residents will provide on-site verbal feedback of the 1- minute student presentation at the end of the rotation (MK, PR, CS)
4. A mid-point evaluation form will be completed half way 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

One weekend day during rotation
Does this rotation accept visiting students? ☑ YES ☐ NO

**COURSE DESCRIPTION:**
This course will introduce students to Cytopathology. Students will learn basic preparatory techniques and be involved in evaluation of gynecologic and non-gynecologic preparations. Students will have the opportunity to participate in the entire cytologic diagnostic process, including taking patients’ medical history, examination of targeted lesions (physically and radiologically), specimen preparation, and final cytologic diagnosis. The course includes didactic lectures and participation of daily cytology sign-out sessions. Students will also have the opportunity to attend cytology teleconferences provided by the American Society of Clinical Pathology and pathology resident seminars that are related to Cytopathology. Course materials/reference textbooks include *The Art & Science of Cytopathology* by Richard M. DeMay and *The Bethesda System for Reporting Cervical Cytology* by Diane Solomon, Ritu Nayar. Students will meet with Dr. Yang in CH303F at 9:00am on the first day of rotation. **NOTE:** Students pursuing pathology as a career may request to take the course for four weeks.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Develop medical vocabulary and use written language effectively to communicate with clinicians and patients (PC, PR, MK, CS)
2. Recognize the elements of the pathologic basis of diseases (MK, PL).
3. Correlate clinical symptoms w/ underlying pathophysiologic mechanisms (MK, PL)
4. Discuss personal limits in knowledge and experience. (PC, MK, SL)

**INSTRUCTIONAL METHODOLOGIES AND ROTATION ACTIVITIES:** Students on this rotation will be expected to achieve the educational goals and objectives through the following methodologies and activities:
1. Participation in Cytopathology sign-out (pap smears and fluid analysis) and performance of fine needle aspiration specimens (PC, PR, MK, CS)
2. Attend histo/cyto correlation conference (PC, PR, MK, CS)
3. Attend general pathology lectures (PC, PR, MK, CS)
4. Identify topic of interest and give 10 minute cytopathology-related oral presentation (MK, CS, PL)

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Thyroid nodule
2. Mediastinal lymphadenopathy
3. Hematuria

**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 by faculty and residents during patient care and review of other clinical and didactic activities (PC, MK, CS, PL)
3. Direct observation and Question/Answer sessions (MK, CS)
4. Direct observation by residents and attending of student day-to-day activities on the team (PR, CS)
5. Give a 10-minute presentation on a topic related to Cytopathology (PC, MK, CS, PL)
6. A mid-point evaluation form will be completed half way through any 4-week rotation in order for the student to be assessed on their performance (MK, PC, PR, CS, SL, PL).
**Course Director:** Cindy Welsh, MD  
Email: welshct@musc.edu  

**Course Coordinator:** Lisa Coulter  
Telephone #: 843-792-6483  
Email: coulterl@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1A:</td>
<td>7/6/15 – 7/17/15</td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 1B:</td>
<td>7/20/15 – 7/31/15</td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Does this rotation accept visiting students?**  
☑️ YES ☐ NO

**COURSE DESCRIPTION:**  
This course will introduce students to surgical pathology. Students will be exposed to gross examination of surgical specimens, frozen section examination, and microscopic pathology. The course will have an emphasis in surgical pathology on topics that are of interest to the student in their ultimate career path. The student will be expected to choose a clinical case that occurs during their four-week rotation to present as a short (5-min) Powerpoint presentation at the last Friday morning resident’s conference or in another conference time (arranged and approved by the course director) prior to leaving the elective. The students will also be expected to attend the morning lectures and conferences that occur Monday-Friday at 8:00 a.m.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Describe the scope of pathology and what surgical pathologists do (MK, CS)
2. Discuss the indications for and the methodology of intraoperative consultation (frozen section) (MK)
3. Recognize the dissection techniques for common surgical specimens (MK).
4. Identify the gross and microscopic features of common neoplasms (MK).

**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 of general pathology lectures.
2. Must attend at least one tumor board during this course to see the interaction of pathologists and clinicians.
3. Participation in surgical pathology, including gross examination of specimens, evaluation of frozen sections and microscopic evaluation of surgical specimens.
4. Choose a topic of interest and present 5 minute oral presentation with review of the pertinent literature.
5. Present a patient case selected during the four week rotation with an emphasis on pathology (MK, CS).

**PATIENT ENCOUNTERS:**
1. N/A

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.
2. Evaluation of medical knowledge by attending physician on surgical pathology sign-out (MK).
3. Observation of interpersonal communicative skills and professionalism (PR, CS).
4. Quality of oral presentation by selective director (MK, CS).
5. A mid-point evaluation form will be completed half way 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
PATH 865: Dermatopathology

**Course Director:** John Metcalf, MD  
Email: metcalfj@musc.edu  

**Course Coordinator:** Lisa Coulter  
Telephone #: 843-792-6483  
Email: coulterl@musc.edu

**Bomb by Block**

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>Block 8A: 2/15/16 – 2/26/16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 2: 8/3/15 – 8/28/15</td>
<td>1</td>
<td>Block 5A: 10/26/15 – 11/6/15</td>
<td>Block 8B: 2/15/16 – 2/26/16</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Does this rotation accept visiting students? ☑ YES ☐ NO

**Course Description:**
The student will participate in the daily readouts of skin pathology specimens and in self-study of teaching sets. The student will also participate in the daily teaching conferences in the Department of Dermatology including the Clinicopathologic Conference and the Dermatopathology Conference.

**Learning Goals & Objectives:** At the completion of this clinical rotation students should be able to do the following:
1. Communicate the terminology of Dermatopathology (MK, CS, PL)
2. Identify the basic pathologic changes that occur in the skin (MK, PL)
3. Analyze skin specimens (MK, PL)
4. Recognize the pathologic features of common inflammatory diseases and neoplasms of the skin (MK, PL)
5. Integrate clinical and pathological features of skin diseases (PC, PR, MK, CS, 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. Lectures
2. Rounds/discussions
3. Lab
4. Conferences

**Patient Encounters:** Students will be expected to work-up patients with these specified conditions:
1. Basal Cell Carcinoma
2. Squamous cell Carcinoma
3. Actinic Keratosis
4. Seborrheic Keratosis
5. Melanocytic nevi
6. Psoriasis
7. Eczematous Dermatitis

**Evaluation / Feedback Methods:** Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)
2. Medical knowledge, interpersonal communication skills at Dermatopathology sign-out (MK, CS, PL)
3. Medical knowledge, professionalism in Dermatopathology (PR, MK, CS)
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
**Course Director:** G. Fred Worsham, MD  
Email: gfworsh@aol.com  

**Course Coordinator:** Lisa Coulter  
Telephone #: 843-792-6483  
Email: coulterl@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**COURSE DESCRIPTION:**  
The student will rotate with a senior pathologist on various rotations including surgical pathology, cytopathology, autopsy pathology, and clinical pathology. This course is designed for students who are considering a career in pathology. Please contact Ms. Lissa Spigner via email one week prior to start of rotation (lspigner@coastalpath.com) to make arrangements for the first day of rotation.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:  
1. Describe the breadth of pathology as a specialty (SL, PC)  
2. Explain a pathologist's role as a consultant in clinical medicine (SL, PC, PL, CS)  
3. Discuss some basic pathology procedures (MK, PC)  
4. Describe the role of laboratory direction (SL, PC, PL, PR, CS, MK)

**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. Rotate on non-GYN cytopathology service including fine needle aspiration biopsy with “wet reads”  
2. Rotate on surgical pathology services, observe frozen sections, and understand the intra-operative role of pathologists  
3. Observe autopsies  
4. Rotate on clinical pathology service, including laboratory planning meetings, blood bank consultation, and clinical chemistry test interpretation

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:  
1. Accompany pathologists in the performance of bone marrow procedures and fine needle aspiration biopsy procedures  
2. Evaluate surgical biopsy and resection specimens from patients with a wide variety of malignant and inflammatory disease processes

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.  
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)  
2. Attending physicians will provide direct observation and verbal evaluation/feedback (SL, PC, PL, PR, CS, MK)  
3. 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: John Lazarchick, MD  
Email: lazarj@musc.edu  

Course Coordinator: Lisa Coulter  
Telephone #: 843-792-6483  
Email: coulterl@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1: 7/6/15 – 7/31/15</td>
<td></td>
<td>Block 4A: 9/28/15 – 10/9/15</td>
<td>1</td>
<td>Block 7B: 1/18/16 – 1/29/16</td>
<td></td>
</tr>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td>1</td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td>1</td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td></td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td>1</td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td></td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
</tr>
<tr>
<td>Block 2: 8/3/15 – 8/28/15</td>
<td></td>
<td>Block 5A: 10/26/15 – 11/6/15</td>
<td>1</td>
<td>Block 8B: 2/15/16 – 2/26/16</td>
<td></td>
</tr>
<tr>
<td>Block 3A: 8/31/15 – 9/11/15</td>
<td>1</td>
<td>Block 6B: 12/7/15 – 12/18/15</td>
<td></td>
<td>Block 10: 3/28/16 – 4/22/16</td>
<td></td>
</tr>
</tbody>
</table>

Does this rotation accept visiting students? ☑ YES ☐ NO

COURSE DESCRIPTION:  
In this course, students will participate in the laboratory evaluation and diagnosis of malignant and nonmalignant hematologic disorders. Students will be involved in the morphologic, histochemical and immunohistochemical, immunophenotypic, cytogenetic, and molecular analyses of peripheral blood smear, bone marrow aspirate and biopsies, and lymph node biopsies. Correlation of these data with the clinical history and physical findings will be emphasized.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:  
1. Describe how to use a multidisciplinary, integrated approach to the diagnosis of hematologic disorders utilizing morphology, flow cytometry, classical cytogenetics and molecular analysis. (MK, PC, PR, CS, PL, SL)  
2. Discuss how to diagnose acute and chronic leukemias and determine cell lineage, to distinguish myeloproliferative and myelodysplastic disorders from reactive processes and be familiar with the protean manifestations of plasma cell dyscrasias. (MK, PC, PR, CS, PL, SL)  
3. Distinguish myeloproliferative/myelodysplastic disorders from reactive processes. (MK, PC, PR, CS, PL, SL)

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. Lectures  
2. Rounds/discussions  
3. Lab

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:  
1. N/A

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.  
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)  
2. Students will be quizzed regarding concepts and principles in response to routine questions about pathologic diagnosis of case slide being reviewed. (MK)  
3. Students will be evaluated on their ability to document patient information through synthesis of clinical data and additional laboratory tests. (PC)  
4. Students will be evaluated on their ability to present clear, concise and well organized case presentations. (CS)  
5. Students will be evaluated for their skill, initiative and capability as a member of the medical team on service in their diligence in completing assignments in a reliable and conscientious manner. (PR)  
6. Students will be evaluated in their ability to investigate and evaluate their diagnostic and consultative practice, appraise and assimilate scientific evidence and improve their patient care practices. (PL)  
7. A mid-point evaluation form will be completed half way 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:** Benjamin Jackson, MD  
Email: jacksobf@musc.edu  

**Course Coordinator:** Melinda Slider  
Telephone #: 843-792-8362  
Email: slider@musc.edu  

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td></td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td></td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td>1</td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td></td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>1</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
</tr>
<tr>
<td>Block 2: 8/3/15 – 8/28/15</td>
<td>1</td>
<td>Block 5A: 10/26/15 – 11/6/15</td>
<td></td>
<td>Block 8B: 2/15/16 – 2/26/16</td>
<td></td>
</tr>
<tr>
<td>Block 3A: 8/1/15 – 9/11/15</td>
<td></td>
<td>Block 6B: 12/7/15 – 12/18/15</td>
<td></td>
<td>Block 10: 3/28/16 – 4/22/16</td>
<td>1</td>
</tr>
</tbody>
</table>

**Does this rotation accept visiting students?** ☑ YES ☐ NO

**COURSE DESCRIPTION:**
Student will function in role of intern in the acute setting of the Pediatric ED and attend morning reports/conferences/simulation center activities. Students will gain experience in peripheral IV placement, splinting of fractured extremities, placement of sutures, and lumbar punctures. This course is intended for students entering the fields of Pediatrics, Emergency Medicine, or Family Medicine and requires pre-approval from the course director for enrollment in Blocks 1-6.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Recognize a sick child and initiate diagnostics and therapy (MK, PC, PL)
2. Manage minor trauma and have an understanding of major trauma in the pediatric patient (MK, PC, PL)
3. Develop the skill of independently collecting focused, developmentally appropriate patient histories and develop the skill of performing focused, developmentally appropriate physical exams (MK, PC, CS, PL)
4. Recognize patients needing immediate attention by the supervising physician (MK, PC, PL)
5. Practice deciding which patients can be discharged home and which need admission (and to which unit) (MK, PC, SL, 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. Attendance at 3 lectures/conferences per week
2. Patient contact
3. 10-minute presentation at Pediatric Emergency Fellows conference
4. Reading 10 articles and completing questions

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Trauma
2. Infection
3. Dehydration/shock
4. Chronic diseases with acute issues

**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 and in-person feedback by attending physicians and residents (PC, PR, MK, CS, SL, PL)
3. 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
Students will follow the shift schedule in the ED, working 16 shifts including 1 Saturday and 1 Sunday determined in accordance with PEM division schedule coordinator.
**COURSE DESCRIPTION:**
Students will attend outpatient developmental clinics and perform supervised developmental assessments/evaluations for the spectrum of developmental and behavioral problems (ADHD, disruptive behavior disorders, learning disabilities, autism, developmental delay, intellectual disabilities, spina bifida, and neonatal high risk infant follow-up). Students who have previously taken the selective—Introduction to Developmental-Behavioral Pediatrics—may work with the course director to further tailor this elective to their needs and interests.

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

1. Implement the basics of developmental and behavioral screening and assessment of children ages 0-3, preschool, and school age (PC, MK)
2. Demonstrate knowledge of typical versus atypical development (MK)
3. Participate in the multidisciplinary approach to developmental disabilities (MK, PC, PR)
4. Discuss public laws, advocacy, and case management as they pertain to developmental and behavioral disorders (SL)

**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. Lectures
2. Rounds/discussions
3. Patient contact

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

1. ADHD and disruptive behavior disorders
2. Learning and intellectual disabilities
3. Autism
4. Developmental delay
5. Spina bifida

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.

1. E*Value Clinical Performance Evaluation (PC, PR, SL, PL, CS, MK)
2. Direct observation and in-person feedback by attending physicians and residents (PC, PR, SL, PL, CS, MK)
3. 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

---

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1: 7/6/15 – 7/31/15</td>
<td>1</td>
<td>Block 4A: 9/28/15 – 10/9/15</td>
<td></td>
<td>Block 7B: 1/18/16 – 1/29/16</td>
<td></td>
</tr>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td></td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td></td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td>1</td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td></td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>1</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
</tr>
<tr>
<td>Block 2: 8/3/15 – 8/28/15</td>
<td>1</td>
<td>Block 5A: 10/26/15 – 11/6/15</td>
<td></td>
<td>Block 8B: 2/15/16 – 2/26/16</td>
<td></td>
</tr>
<tr>
<td>Block 3A: 8/31/15 – 9/11/15</td>
<td></td>
<td>Block 6B: 12/7/15 – 12/18/15</td>
<td></td>
<td>Block 10: 3/28/16 – 4/22/16</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1: 7/6/15 – 7/31/15</td>
<td>1</td>
<td>Block 4A: 9/28/15 – 10/9/15</td>
<td></td>
<td>Block 7B: 1/18/16 – 1/29/16</td>
<td></td>
</tr>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td></td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td></td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td>1</td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td></td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>1</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
</tr>
<tr>
<td>Block 2: 8/3/15 – 8/28/15</td>
<td>1</td>
<td>Block 5A: 10/26/15 – 11/6/15</td>
<td></td>
<td>Block 8B: 2/15/16 – 2/26/16</td>
<td></td>
</tr>
<tr>
<td>Block 3A: 8/31/15 – 9/11/15</td>
<td></td>
<td>Block 6B: 12/7/15 – 12/18/15</td>
<td></td>
<td>Block 10: 3/28/16 – 4/22/16</td>
<td>1</td>
</tr>
</tbody>
</table>
**Course Director:** Carol Wagner, MD  
Email: wagnercl@musc.edu  

**Course Coordinator:** Melinda Slider  
Telephone #: 843-792-8362  
Email: slider@musc.edu

---

**COURSE DESCRIPTION:**
Students must receive permission from the course director prior to enrolling in this class. Physiology of lactation will be discussed in the context of mother/infant dyad, maternal and infant health condition. The mechanics of breast-feeding will be understood through didactic and bedside teaching and interaction with Drs. Wagner, McPherson, and Lee and certified lactation consultant Diana Roberts, R.N., IBCLC. The structure and bioactive/protective effect of human milk will be discussed in terms of epidemiological studies. Lastly, the students will spend one afternoon in the lab processing a milk sample, staining the cells and looking at the human milk sample under the microscope. Students may have the opportunity to spend time at East Cooper Hospital.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Describe the physiology of lactation (MK)
2. Describe the mechanics of breast-feeding and how to problem-solve (MK, PL, PC)
3. Describe the health implications of human milk feedings in terms of short- and long-term health benefits (MK)
4. Demonstrate skill in counseling the breast-feeding mother in a variety of clinical settings (PL, 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. Lectures
2. Rounds/discussions
3. Patient contact
4. Lab

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Mother/baby dyad

**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 and in-person feedback by attending physicians and residents (PC, PR, MK, CS, SL, PL)
3. 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
Does this rotation accept visiting students?  ☑ YES  ☐ NO

COURSE DESCRIPTION:
Rotation will include Pediatric Nephrology outpatient clinic and inpatient consultations.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Describe the presenting signs of common pediatric nephrology problems (MK)
2. Describe the management of common pediatric nephrology problems (MK, PC)
3. Describe the issues particular to pediatric fluids and electrolytes, pediatric dialysis, and renal transplantation (MK, PC)
4. Demonstrate understanding of how a subspecialist communicates with primary care providers, hospitalists, intensivists, surgical services, and emergency department physicians, and appreciate the role of other professionals (e.g., nursing staff) in the care of children with complex renal disease (PC, CS, SL)
5. Communicate effectively with patients and families across a broad range of socioeconomic and cultural backgrounds (PC, 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. Lectures - student will give at least one talk on the rotation and will attend weekly lectures.
2. Rounds/discussions
3. Reading the recommended articles

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Hematuria and proteinuria
2. Glomerular diseases
3. Hypertension
4. Recurrent UTI
5. Nephrolithiasis

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, CS, MK, SL, PL)
2. Direct observation and in-person feedback by attending physicians and residents (PC, PR, CS, MK, SL, PL)
3. 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
Does this rotation accept visiting students? ☐ YES ☒ NO

COURSE DESCRIPTION:
Students will learn the impact of Genomics in medical practice now and in the future. Students will work closely with the geneticist to evaluate, diagnose and counsel patients with genetic diseases. Students will also be guided in their learning through computer based sources of genetic information.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Access and analyze information from computer/internet-based sources of genetic information (PL, MK)
2. Perform simple pedigree analysis and apply it to medical practice (PL, MK, PC)
3. Appreciate the social/legal/ethical implications of predictive testing using genetic markers (PL, MK, SL, PR)
4. Appreciate the advantages and limitations of gene-based testing (PL, MK)

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. Patient contact
2. Rounds/discussions
3. Self-directed learning
4. Lab

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Rare and common genetic diseases

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 and in-person feedback by attending physicians and residents (PC, PR, MK, CS, SL, PL)
3. 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
PEDS 863: Pediatric Ward Externship

**Course Director:** Patricia McBurney, MD  
Email: mcburnpg@musc.edu

**Course Coordinator:** Melinda Slider  
Telephone #: 843-792-8362  
Email: slider@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td></td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td></td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td>3</td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td></td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>3</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
</tr>
</tbody>
</table>

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

**COURSE DESCRIPTION:**
The student will be exposed to pediatric patients with acute and chronic diseases and will participate in the complete care of the patient as part of the general pediatric team. Clinical emphasis will include enhancement of interviewing and physical examination skills, discussions of pathophysiology, formulation of diagnostic and treatment plans.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Demonstrate improving interviewing and examining skills (PC, CS, PL)
2. Contribute to pathophysiology discussions (MK)
3. Demonstrate skill in formulation of diagnostic and treatment plans (MK, PC)
4. Demonstrate skill in formulating appropriate orders and preparing prescriptions (PC)
5. Identify criteria for admission and discharge from hospital (MK, PC, SL)

**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. Patient contact
2. Rounds/discussions
3. Lectures

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. ALTE/apnea/cyanosis
2. Dehydration
3. Fever
4. Respiratory distress
5. Chronic disease with complication

**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 and in-person feedback by attending physicians and residents (PC, PR, MK, CS, SL, PL)
3. 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? [X] YES [ ] NO
Students will take “short call” (until 9:00 pm) according to the intern schedule, up to every 4 nights.
Does this rotation accept visiting students? ☒ YES ☐ NO

**COURSE DESCRIPTION:**
In this rotation, students will work directly with subspecialists in pediatric cardiology in the inpatient setting. Students will spend the month as an acting intern on the inpatient floor and will be required to perform rounds on one weekend of that month. No overnight call is required.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Perform a basic pediatric cardiac examination and correlate cardiac exam findings to the cardiac physiology in the neonate and child (PL, PC)
2. Identify basic and complex congenital cardiac defects (MK)
3. Perform basic electrocardiogram reading for pediatric patients (MK, PC)
4. Describe the management and treatment of cardiac arrhythmias in pediatric patients (MK)
5. Describe the surgical treatment of congenital heart disease and the management of congenital and acquired cardiac disease (MK)

**INSTRUCTIONAL METHODOLOGIES & 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. Participation as an integral member of the cardiac inpatient team.
2. Participation in the critical evaluation and assessment of the pediatric cardiac consult.
3. Observation of the evaluation and assessment of the preoperative pediatric cardiac patient, surgical procedures, and follow-up of the patient in the early post-operative period focusing on the altered cardiac physiology.
4. Attendance at cardiology clinics to improve pediatric cardiac exam skills and observe outpatient evaluation techniques.

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Patient with a common diagnosis (i.e. VSD, ASD, and PDA, and the AV Canal defect)
2. Complex cardiac patient, including patients with Single ventricular physiology in varying stages of repair
3. Critically ill premature or full-term neonate patient with secondary pulmonary hypertension
4. Acquired heart disease, including cardiomyopathy, myocarditis, or Kawasaki’s disease
5. Cyanotic neonatal or pediatric patient

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, MK, PL, SL, PR, CS)
2. Direct observation and in-person feedback by attending physicians and residents (PC, PR, MK, CS, SL, PL)

Will students be expected to participate in call? ☒ YES ☐ NO
COURSE DESCRIPTION:
This rotation is in an ambulatory pediatric center and will allow the student to provide acute care and preventative health screenings to children ages 0-18 years of age. The student will have opportunities to participate in all aspects of patient care. Students may also have the opportunity to travel to the Georgetown outreach clinic.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Demonstrate a solid knowledge base in outpatient pediatrics (MK)
2. Demonstrate skill in independently collecting both focused and comprehensive, developmentally appropriate histories (PC, CS, PL)
3. Synthesize information gathered about sick and well children and then formulate diagnosis and treatment plans (MK, PC, PL)
4. Demonstrate skill in examining children of many developmental ages (PC, CS, PL)
5. Discuss age appropriate health supervision principles (MK, 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. Patient contact
2. Lectures/conferences

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Well child/sports and camp physicals
2. Infection
3. School/behavior issues
4. Gastrointestinal issues
5. Dermatological issues

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, CS, MK, SL, PL)
2. Direct observation and in-person feedback by attending physicians and residents (PC, PR, CS, MK, SL, PL)
3. 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
Does this rotation accept visiting students? □ YES □ NO

**COURSE DESCRIPTION:**
This is a hands-on rotation on the clinical hematology/oncology services. The student will be the acting intern for patients and will be involved in admissions, discharges, rounds, and daily care of the patients. The student will also have opportunities to participate in Tumor Board, consults, team teaching sessions, and procedures (i.e. bone marrow biopsies and pathology review).

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Describe pediatric oncology diseases and common hematological disorders (MK)
2. Present relevant clinical information in a concise manner (MK, CS, PL)
3. Interact appropriately with families of children suffering from chronic diseases (PC, CS, PL)
4. Manage time efficiently in clinical work (PC, PL, SL)
5. Demonstrate a patient and family-centered and humanistic approach to clinical work (PC, CS, PR)

**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. Lectures
2. Rounds/discussions
3. Patient contact

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Anemia
2. Leukemia
3. Tumors

**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 and in-person feedback by attending physicians and residents (PC, PR, MK, CS, SL, PL)
3. 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
Students will follow the intern’s 12-hour shift workdays (6:30am-6:30pm) with appropriate number of days off per the COM Education Hour Policy.
PEDS 871: Clinical Genetics and Counseling

Course Director: G. S. Pai, MD
Email: paig@musc.edu

Course Coordinator: Melinda Slider
Telephone #: 843-792-8362
Email: slider@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1: 7/6/15 – 7/31/15</td>
<td>1</td>
<td>Block 4A: 9/28/15 – 10/9/15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td>Block 4B: 10/10/15 – 10/23/15</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 2: 8/3/15 – 8/28/15</td>
<td>1</td>
<td>Block 5A: 10/26/15 – 11/6/15</td>
<td>Block 8B: 2/15/16 – 2/26/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 7B: 1/18/16 – 1/29/16</td>
<td>Block 8B: 2/15/16 – 2/26/16</td>
<td>Block 9A: 2/29/16 – 3/11/16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td>Block 4B: 10/10/15 – 10/23/15</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 2: 8/3/15 – 8/28/15</td>
<td>1</td>
<td>Block 5A: 10/26/15 – 11/6/15</td>
<td>Block 8B: 2/15/16 – 2/26/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 7B: 1/18/16 – 1/29/16</td>
<td>Block 8B: 2/15/16 – 2/26/16</td>
<td>Block 9A: 2/29/16 – 3/11/16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td>Block 4B: 10/10/15 – 10/23/15</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 2: 8/3/15 – 8/28/15</td>
<td>1</td>
<td>Block 5A: 10/26/15 – 11/6/15</td>
<td>Block 8B: 2/15/16 – 2/26/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 7B: 1/18/16 – 1/29/16</td>
<td>Block 8B: 2/15/16 – 2/26/16</td>
<td>Block 9A: 2/29/16 – 3/11/16</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Does this rotation accept visiting students? ☑ YES ☐ NO

COURSE DESCRIPTION:
This course allows the student to gain additional fundamental knowledge of common genetic disorders encountered in day-to-day practice and to gain experience in analyzing the complex psychosocial and emotional aspects of genetic disorders and counseling. Students will attend clinics at the Children's Hospital and outreach sites (Florence, Beaufort and Georgetown), perform supervised patient assessments, prepare case summaries and literature search assignments.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Describe the basics of dysmorphology assessment (MK)
2. Demonstrate understanding of the principles and practice of genetic counseling (MK, PC, SL)
3. Demonstrate understanding of genetic testing in clinical practice (MK, PC, SL)
4. Discuss and consider the ethics of genetic medicine (MK, PC, PR)

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. Lectures
2. Rounds/discussions
3. Patient contact
4. Lab

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Rare and common genetic diseases

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 and in-person feedback by attending physicians and residents (PC, PR, MK, CS, SL, PL)
3. 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
Does this rotation accept visiting students? ☑ YES ☐ NO

**COURSE DESCRIPTION:**
The student will participate in all aspects of patient care including admission, discharge, daily rounds and reassessment, consults, and procedures on the Pediatric Intensive Care Unit.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Demonstrate knowledge of the pathophysiology of single or multiple organ system failure (MK)
2. Demonstrate knowledge of ventilator management (MK, PL)
3. Analyze ICU decision-making that integrates clinical assessment and laboratory data into management and treatment of critically ill patients (MK, PC, PL)
4. Demonstrate knowledge of neurologic emergencies and trauma ICU management (MK, PC)
5. Recognize how clinical uncertainty affects clinical care in the ICU (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. Lectures
2. Rounds/discussions
3. Patient contact

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Trauma
2. Post-surgical care
3. Organ failure
4. Shock

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, CS, MK, SL, PL)
2. Direct observation and in-person feedback by attending physicians and residents (PC, PR, CS, MK, SL, PL)
3. 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
Students will take call every 4 nights and in compliance with the COM Duty Hour Policy. The call will be short-call until 11 p.m.
Pediatrics 877: Neonatal Intensive Care Externship

Course Director: James Kiger, MD
Email: kiger@musc.edu

Course Coordinator: Melinda Slider
Telephone #: 843-792-8362
Email: slider@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1: 7/6/15 – 7/31/15</td>
<td>1</td>
<td>Block 4A: 9/28/15 – 10/9/15</td>
<td></td>
<td>Block 7B: 1/18/16 – 1/29/16</td>
<td></td>
</tr>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td></td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>1</td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td></td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td></td>
<td>Block 5A: 10/26/15 – 11/6/15</td>
<td></td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
</tr>
<tr>
<td>Block 2: 8/3/15 – 8/28/15</td>
<td>1</td>
<td>Block 5B: 11/9/15 – 11/20/15</td>
<td></td>
<td>Block 8B: 2/15/16 – 2/26/16</td>
<td></td>
</tr>
<tr>
<td>Block 3: 8/31/15 – 9/25/15</td>
<td>1</td>
<td>Block 6B: 12/7/15 – 12/18/15</td>
<td></td>
<td>Block 9B: 3/14/16 – 3/25/16</td>
<td></td>
</tr>
</tbody>
</table>

Does this rotation accept visiting students? ✔ YES ☐ NO

Course Description:
This rotation is ideal for a student interested in pediatrics or OB-GYN. The student will act as the intern and participate in all aspects of clinical work, including delivery, daily rounds, daily care, discharge planning, and family conferences.

Learning Goals & Objectives:
At the completion of this clinical rotation students should be able to do the following:
1. Describe pathophysiology of common neonatal problems and the management of sick newborns (MK, PC)
2. Describe neonatal nutrition and neonatal pharmacology (MK)
3. Participate in the transition of care from inpatient to home (PC, PL, SL)
4. Define the importance of reassessment of patients and demonstrate the ability to reassess patients (PC, CS, PL)
5. Participate in the resuscitation of high-risk neonate (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. Lectures
2. Rounds/discussions
3. Patient contact
4. Assigned readings
5. Attendance at high-risk deliveries

Patient Encounters:
Students will be expected to work-up patients with these specified conditions:
1. Prematurity and associated myriad short-term and long-term morbidities
2. Congenital anomalies
3. Difficulties in transition to extra-uterine life in term infant
4. Respiratory distress
5. Feeding issues

Evaluation / Feedback Methods:
Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, CS, MK, SL, PL)
2. Direct observation and in-person feedback by attending physicians and residents (PC, PR, CS, MK, SL, PL)
3. 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

Students will follow the intern schedule of 12-hours shifts in compliance with the COM Duty Hours Policy. If a student wants to experience the functions and activities of the NICU at night, such arrangements can be made.
COURSE DESCRIPTION:
This elective is designed to provide an in-depth and intensive exposure to both common and unusual infectious diseases of children. The student will participate in outpatient clinical visits and inpatient consults to all the pediatric services (subspecialty, ICU, and hospitalists).

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Demonstrate an in-depth understanding of the epidemiology, pathogenesis, clinical manifestations, diagnosis and treatment of common pediatric infectious diseases (MK)
2. Explore subspecialty literature in pediatric infectious diseases and provide a basis for future independent learning (MK, PL)
3. Demonstrate how to approach complicated patients with infectious diseases and how to evaluate serious or unusual infectious diseases (PC, PL)
4. Display increasing skill in synthesizing clinical data to form a differential diagnosis list (MK, PC)
5. Display increasing skill in writing organized, appropriately focused, and accurate patient notes (PC, 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. Lectures
2. Rounds/discussions
3. Patient contact

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Chronic and acute infections
2. Immunodeficiencies

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, CS, SL, PL, PR, MK)
2. Direct observation and in-person feedback by attending physicians and residents (PC, CS, SL, PL, PR, MK)
3. 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

PEDS 879: Pediatric Infectious Diseases
Course Coordinator: Melinda Slider
Telephone #: 843-792-8362
Email: slider@musc.edu
Course Director: Terry Dixon, MD, PhD
Email: dixontc@musc.edu
Course Director: Mia Amaya, MD  
Email: amaya@musc.edu

Course Coordinator: Melinda Slider  
Telephone #: 843-792-8362  
Email: slider@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1: 7/6/15 – 7/31/15</td>
<td>1</td>
<td>Block 4A: 9/28/15 – 10/9/15</td>
<td>Block 7B: 1/18/16 – 1/29/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td>1</td>
<td>Block 4B: 10/10/15 – 10/23/15</td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td>1</td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 2: 8/3/15 – 8/28/15</td>
<td>1</td>
<td>Block 5A: 10/26/15 – 11/6/15</td>
<td>Block 8B: 2/15/16 – 2/26/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 2A: 8/3/15 – 8/14/15</td>
<td>1</td>
<td>Block 5B: 11/9/15 – 11/20/15</td>
<td>Block 9: 2/29/16 – 3/25/16</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Block 3A: 8/31/15 – 9/11/15</td>
<td>1</td>
<td>Block 6B: 12/7/15 – 12/18/15</td>
<td>Block 10: 3/28/16 – 4/22/16</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Does this rotation accept visiting students? ☐ YES ☒ NO

COURSE DESCRIPTION:
Students are welcome and encouraged. Because only 1 student can be scheduled per block, students must receive approval from the course director prior to enrolling in this course. Student will work with subspecialists in pediatric child abuse and neglect and will see patients in both the MUSC Hospital outpatient clinic and the MUSC clinic at Dee Norton Lowcountry Children’s Center (King Street). They will participate in ER and inpatient consults.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Demonstrate a logical and appropriate clinical approach to the care of suspected or confirmed victims of abuse or neglect (MK, PC, CS)
2. Access medical information efficiently, evaluate it critically, and apply it appropriately to the care of patients suspected of abuse or neglect (MK, PC, SL)
3. Communicate effectively with physicians, other health professionals, and health-related agencies (CS)
4. Access and comply with the laws that define a physician’s responsibilities when abuse or neglect is suspected (PR, SL)
5. Demonstrate understanding of how to practice high-quality healthcare and advocate for patients suspected of abuse or neglect (MK, PC, SL)

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. Patient contact
2. Discussions
3. Conferences

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Physical abuse
2. Sexual abuse
3. Emotional abuse
4. Neglect

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, CS, MK, SL, PL)
2. Direct observation and in-person feedback by attending physicians and residents (PC, PR, CS, MK, SL, PL)
3. 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:** Heather Walker, MD  
Email: walkerh@musc.edu

**Course Coordinator:** Caroline Diez  
Telephone #: 843-876-5053  
Email: diezc@musc.edu

---

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1: 7/6/15 – 7/31/15</td>
<td>1</td>
<td>Block 4A: 9/28/15 – 10/9/15</td>
<td></td>
<td>Block 7B: 1/18/16 – 1/29/16</td>
<td></td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td></td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>Block 2: 8/3/15 – 8/28/15</td>
<td>1</td>
<td>Block 8B: 2/15/16 – 2/26/16</td>
</tr>
</tbody>
</table>

**Does this rotation accept visiting students?**  □ YES  □ NO

**COURSE DESCRIPTION:**
Students will have contact with inpatients at Roper Rehabilitation Hospital, as well as consulting on patients at the Medical University of South Carolina.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Recognize diseases and aging processes that cause functional abnormalities (MK)
2. Demonstrate understanding and utilize stages of recovery in functional disease such as stroke (Brunnstrom), brain injury (Rancho Los Amigos), spinal cord injury (ASIA), and orthopedic diseases and procedures (MK, SL)
3. Communicate functional goals and expectations to patients and caregivers (PC, CS)
4. Complete daily notes using a functionally-based template (PC)
5. Demonstrate understanding of the roles and scope of practice and interact with members of a rehabilitation team (CS, PR)
6. Demonstrate understanding of patient factors and other requirements for the different rehab settings (PL)

**INSTRUCTIONAL METHODOLOGIES & 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. Direct patient contact including initial evaluation and examination with daily follow up in the inpatient setting
2. Attend interdisciplinary team conferences
3. Evaluate and examine patients in consultation to assess for rehabilitation appropriateness
4. One-on-one and didactic sessions
5. Students will be required to exercise for thirty (30) minutes daily.

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Stroke, brain injury: To include hemiplegia, hemiparesis, aphasia, apraxia, neglect, dysphagia, cognitive deficit, dementia
2. Spine and/or spinal cord injuries: bowel/bladder care, skin care, wheelchair fitting, neuropathic vs musculoskeletal pain
3. Orthopedic rehab: arthropathies, fractures, multi-trauma, VTE prophylaxis
4. Communication competency: rapport, comprehensibility, effectiveness

**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 and in-person feedback by attending physician and/or resident physician; as well as rehabilitation team members. (MK, PC, PR, PL, SL)
3. Midpoint feedback from the course director or the assigned faculty co-director. (MK, PC, PR, CS, SL, PL)

**Will students be expected to participate in call?**  □ YES  □ NO
Does this rotation accept visiting students? **YES** **NO**

**COURSE DESCRIPTION:**
Substance use disorders are among the most frequently encountered clinical conditions seen in medical and psychiatric practices. The Substance Abuse Treatment Clinic at the Charleston VAMC provides a broad array of services including an intensive outpatient program, contingency management, and an opioid replacement program utilizing buprenorphine/naloxone (bup/nlx). Students on this rotation will have the opportunity to participate in the treatment of patients who require detoxification, bup/nlx induction, stabilization, and maintenance treatment, for both substance use disorders and comorbid psychiatric disorders. Patients are primarily seen in a clinic setting. Students will also have an opportunity to attend groups and smoking cessation classes. **Interdisciplinary Education:** This elective not only benefits students interested in Psychiatry, but also those interested in: Emergency Medicine, Internal Medicine (and subspecialties) and Family Medicine.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Obtain knowledge and experience in the identification and treatment of substance use disorders including substance intoxication and withdrawal. (MK, PC, CS)
2. Diagnose common substance use and psychiatric disorders and develop a treatment plan. (MK, PC, CS)
3. Identify the medications used in the treatment of alcohol and opioid use disorders, including detoxification and smoking cessation. (MK, PC, CS)
4. Develop appropriate interpersonal interactions with patients and the treatment team; improve clinical history taking, presentation, and documentation. (MK, PC, CS, PL)

**INSTRUCTIONAL METHODOLOGIES & 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. Assessment of patients with substance use disorders followed by presentation to attending addiction psychiatrist.
2. Documentation of patient encounters as described above.
3. Attendance and participation in rotation specific didactics.
4. Participation in the weekly Addiction Psychiatry Journal Club and leading the discussion of a minimum of one article.

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Substance use disorder(s)
2. Patients with co-morbid substance use and psychiatric disorders
3. Patients with substance-related acute co-morbid medical conditions.

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.
2. Direct observation by attending psychiatrists and residents during direct patient care. (PC, PR, CS)
3. Direct evaluation and feedback provided on both verbal and written presentations. (MK, PC, PR, CS, PL, SL)
4. The student will be asked to lead a discussion of a relevant journal article during a meeting of the journal club. (PC, CS)

Will students be expected to participate in call? **YES** **NO**
PSYCH 858: Geriatric Psychiatry

Course Director: Jessica Broadway, MD
Email: reynol@musc.edu

Course Coordinator: Melissa Jacob
Telephone #: 843-792-0343
Email: jacobm@musc.edu

Does this rotation accept visiting students? ☑ YES ☐ NO

COURSE DESCRIPTION:
The inpatient geriatric psychiatry unit is a full service treatment facility for patients > 60 years old, with severe psychiatric illnesses. Students will complete initial workups on patients being admitted to the unit, as well as follow patients throughout their stay. The student, as part of a team, takes responsibility for daily rounding duties, including participation in family meetings. Interdisciplinary Education: This elective not only benefits students interested in Psychiatry, but also those interested in: Family Medicine, Internal Medicine (and subspecialties), Surgery (Opportunity to see post-op patients w/delirium and/or cognitive disorders), Neurology, and Orthopedics. Students will be required to complete one weekend of rounding.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Explain evaluation criteria and management of dementia. (MK, PC)
2. Examine an elderly patient and identify, diagnose and understand and suggest treatment options for cognitive disorder and dementia plus comorbid signs and symptoms. (MK, PC, SL)
3. Formulate the long-term treatment of dementia and how the medical team interacts with the patient’s family, assisted living, nursing home, and home health. (MK, PC, CS, PR, PL, SL)

INSTRUCTIONAL METHODOLOGIES & 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. Accurately conduct and record psychiatric and medical workup of a geriatric patient.
2. Attend rounds daily; report findings and contribute to clinical discussion regarding diagnosis, treatment, and prognosis.
3. Assess clinical status of patient daily, write progress note and establish a supportive and therapeutic relationship with patient.
4. Attend Geriatric Psychiatry Journal Club or read a paper in the Journal of the American Geriatric Association or the American Association of Geriatric Psychiatry and discuss finding with team.
5. Complete a self-directed learning project that consists of a 10-minute presentation to the team.

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Patients with dementia, depression, and/or delirium.
2. Patients with co-morbid conditions, including multiple psychiatric disorders as well as psychiatric and medical conditions.
3. Patients with schizophrenia.

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.
2. Observation of students completing an initial psychiatric examination and H & P (resident, fellow, attending). (MK, PC, CS)
3. Observation of student discussing in depth history and physical examination findings, diagnosis, and treatment plan during rounds by a resident, fellow, and/or attending. (MC, PC, CS)
4. Completion of self-directed learning project and presentation graded by selective director. (MK, PL, SL)
5. At the end of the rotation, students will again receive verbal feedback about their performance. (PC, PR, MK, CS, SL, PL)
Does this rotation accept visiting students?  ☑ YES ☐ NO

**COURSE DESCRIPTION:**
Many patients with neuropsychiatric disorders prove to be treatment-resistant or have difficulty tolerating first line psychopharmacologic treatments. These patients, particularly those with depression, are often referred for neuromodulatory interventions such as transcranial magnetic stimulation (TMS), electroconvulsive therapy (ECT), and deep brain stimulation (DBS). Psychiatry is in the early stages of formally recognizing and training “interventionalists” who perform specialized procedures. This course will introduce students to neuromodulation and the emerging field of Interventional Psychiatry.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Demonstrate appropriate interpersonal interactions with patients during exams and interviews. (MK, PC, CS, PR, PL, SL)
2. Identify psychiatric diagnoses using a multi-axial format and develop appropriate treatment plans. (MK, PC)
3. Evaluate patients with refractory psychiatric illness for neuromodulatory interventions. (MK, PC, CS, PR, PL, SL)
4. Discuss approved and experimental brain stimulation modalities, including but not limited to electroconvulsive therapy (ECT), transcranial magnetic stimulation (TMS), vagus nerve stimulation (VNS), deep brain stimulation (DBS), transcranial direct current stimulation (tDCS) and epidural cortical stimulation (EpCS). (MK, CS, SL)
5. Explain the rationale behind non-invasive stimulation paradigms (e.g. TMS, tDCS, ECT) and invasive stimulation programming (e.g. DBS, VNS). (MK, CS, SL)
6. Summarize the basic circuit dysfunction associated with common neuropsychiatric diagnoses (MK, PL, SL)

**INSTRUCTIONAL METHODOLOGIES & 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. Daily collaboration with the Interventional Psychiatry Fellow, the Brain Stimulation Service Director and the Director of the Brain Stimulation Laboratory in terms of patient evaluation, treatment and management.
2. Patient evaluation and management in weekly therapeutic clinics (e.g. TMS, ECT, etc.), which includes observation of programmable devices.
3. Self-directed learning using evidence-based medicine
4. Self-directed reading of *Brain Stimulation Therapies for the Clinician*. (Book will be provided)
5. Weekly attendance at Brain Stimulation Division meeting, Psychiatry Grand Rounds, and other clinical/didactic activities.

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Treatment-resistant mood disorders
2. Catatonia
3. Schizophrenia
4. Parkinson’s disease

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods:
2. Verbal feedback from resident, fellow, attending physician on student performance, at least weekly. (MK, PC, CS)
3. Feedback on the self-directed learning project, graded by course director. (MK, PL, SL)
4. At the end of the rotation, students will again receive verbal feedback about their performance. (PC, PR, MK, CS, SL, PL)

**Will students be expected to participate in call?**

☐ YES ☒ NO
Does this rotation accept visiting students? ☑ YES ☐ NO (This elective is located off the main campus)

COURSE DESCRIPTION:
Forensic Psychiatry is a challenging and exciting field that interfaces psychiatry with the legal system. Students will learn the fundamental principles of forensic psychiatry, including principles related to mentally ill criminal defendants, issues related to the treatment of mentally ill in correctional settings, civil commitment procedures, and the fundamental differences between forensic psychiatric evaluations and clinical psychiatric evaluations. They will be provided opportunities to learn about legal matters as they pertain to psychiatric patients. For those interested, a Sexual Behaviors Clinic track is available within this course.

Interdisciplinary Education: This elective not only benefits students interested in Psychiatry, but also those interested in: Internal Medicine (and subspecialties), Family Medicine, and Pediatrics.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Develop skills to conduct effective interviews, the ability to diagnose and differentiate primary psychiatric disorders from malingering, personality disorders and substance use disorders. Collaborate with the forensic team to develop an accurate diagnostic formulation and how diagnoses may impact legal proceedings. (MK, PC, CS, SL)
2. Demonstrate knowledge of the fundamental principles of forensic psychiatry. Recognize and pursue outside reading on unfamiliar legal and psychiatric topics. Complete assigned readings and prepare to participate in weekly discussions, landmark case law seminars and preparation of legal briefs to present to the forensic team. (MK, PC, CS, PR, PL, SL)
3. Develop skills to consult on psychiatric issues with disciplines outside of medicine, including attorneys, judges and detention center staff. (MK, CS, SL)

INSTRUCTIONAL METHODOLOGIES & 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. Completion, review, and discussion of forensic client charts, including psychiatric records and court related documents.
2. Observation/participation in forensic psychiatric evaluations with forensic faculty.
3. Observation of mental illness probate court and substance abuse probate court.
4. Attendance at forensic seminars and lectures.
5. Presentation to forensic faculty on a forensic psychiatric topic of student’s choosing studied in depth over course of rotation.

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Psychotic, Major Mood and Personality Disorders
2. Malingering
3. Substance Use Disorders

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.
2. Direct observation and supervision by faculty/residents during evaluations and other types of forensic activities. (MK, PC)
3. Evaluation of presentation skills and knowledge of specific forensic topic during rotation presentation. (MK, CS, PR, SL)

Will students be expected to participate in call? ☑ YES ☐ NO
COURSE DESCRIPTION:
Students will be instructed on the basic principles of providing psychiatric consultation in a medical and surgical setting. The students will have the opportunity to perform the consultations and function at the level of an intern. Interdisciplinary Education: This elective not only benefits students interested in Psychiatry, but also those interested in: Primary care, Internal Medicine and medicine subspecialties, General Surgery and surgery subspecialties, and Ob/Gyn.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Develop skills to communicate effectively with patients, families, treatment team, and interdisciplinary teams through written documentation and verbal communication. (MK, CS, CS)
2. Develop the ability to diagnose and differentiate primary psychiatric disorders from those secondary to medical illness. Collaborate with team to develop an appropriate assessment and treatment plan. (MK, PC, CS)
3. Demonstrate knowledge of common psychiatric presentations in the medical setting. Recognize and pursue outside reading on unfamiliar topics. (MK, PL)
4. Complete assigned readings and prepare to participate in discussion. Review a topic of interest based on a patient case to present to the team at the end of the rotation. (MK, CS, PL)
5. Identify and demonstrate the skills to stabilize psychiatric disorders in the acute medical and surgical settings. Identify patients who are in need of care in a psychiatric acute care setting. (MK, PC)

INSTRUCTIONAL METHODOLOGIES & 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. Attend rounds daily; interview and assist in completing initial H&P, report findings and contribute to clinical discussions.
2. Complete daily notes, assess vitals, check pertinent labs and communicate with family/interdisciplinary providers pertinent to your patients care
3. Attend grand rounds and case conferences
4. Complete assigned readings and present on a topic of relevant interest to the student (with guidance from attending)

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Delirium
2. Primary and secondary mood disorders
3. Substance abuse and anxiety disorders
4. Assess decisional capacity

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.
2. Observations of student’s interviewing skills and overall interactions with patients and families. (MK, PC, CS)
3. Observation of student’s presentations and discussions of patient care. (MK, CS, PL, SL)
4. At the end of the rotation, students will again receive verbal feedback about their performance. (PC, PR, MK, CS, SL, PL)
**PSYCH 877: Adult Inpatient Psychiatry Externship - IOP**

**Course Director:** Christopher Pelic, MD  
Email: pelicc@musc.edu  
**Course Coordinator:** Melissa Jacob  
Telephone #: 843-792-0343  
Email: jacobm@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td></td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td></td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td>3</td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td></td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>3</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
</tr>
</tbody>
</table>

**Does this rotation accept visiting students?** ☑ YES ☐ NO

**COURSE DESCRIPTION:**
The Adult Units in the Institute of Psychiatry (IOP) offer students the ability to enhance their knowledge of psychiatric disorders and treatment through exposure to a variety of psychiatric conditions. Students are encouraged to participate at the level of an intern. **Interdisciplinary Education:** This elective not only benefits students interested in Psychiatry, but also those interested in Family Medicine, Internal Medicine (and subspecialties), Emergency Medicine, or fields that do not offer an externship.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Develop a medical vocabulary and use written language effectively. Additionally, demonstrating appropriate interpersonal interactions with patients (patient exams/interviews) and staff will be emphasized. (MK, CS)
2. Accurately identify psychiatric diagnoses using Diagnostic and Statistical Manual 5 Criteria (DSM 5). (MK, PC, SL)
3. Recognize personal limits in knowledge and experience, and pursue information necessary to understand and solve diagnostic and therapeutic problems utilizing an evidence-based approach. (MK, PR, PL, SL)
4. Practice supervisory skills by providing third year medical students with feedback on performance, documentation, and interviewing with guidance from Residents or Attending. (MK, PC, CS, PR, PL, SL)
5. Identify and demonstrate the skills necessary to provide effective and timely care taking into account appropriate resources for patients. (MK, PC, CS, PR, PL, SL)
6. Demonstrate the ability to write orders, accurately write process notes, and complete discharge summaries consistent with that expected in the PGY 1 year. (MK, PC, CS, PR, PL, SL)

**INSTRUCTIONAL METHODOLOGIES & 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. Daily pre-rounds and rounds.
2. Self directed learning using evidenced based medicine approach.
3. Direct observation by faculty and residents during direct patient care and review of other clinical and didactic activities.

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Substance use disorders
2. Mood, Anxiety and Psychotic Disorders
3. Cognitive Disorders (Delirium and Dementia)
4. Personality Disorders

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.
2. Students will be directly observed interviewing and assessing patients (PC, PR, CS)
3. A fifteen-minute presentation, delivered to the entire treatment team, is required on a topic of his/her choice. (MK, PC)
4. Students will be expected to utilize the principals of evidence-based medicine. (MK, PC)
5. Students will receive verbal feedback about their performance. (PC, PR, MK, CS, SL, PL)

**Will students be expected to participate in call and weekend rounds?** ☑ YES ☐ NO
Does this rotation accept visiting students? ☑ YES ☐ NO

**COURSE DESCRIPTION:**
This elective offers students the chance to enhance their knowledge of psychiatric disorders and treatment while rotating at our VA location. Students are expected to participate at the level of an intern and will be exposed to a variety of psychiatric conditions.

**Interdisciplinary Education:** This elective not only benefits students interested in Psychiatry, but also those interested in Family Medicine, Internal Medicine (and subspecialties), Emergency Medicine, and fields that do not offer an externship.

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

1. Develop a medical vocabulary and use written language effectively. Additionally, demonstrating appropriate interpersonal interactions with patients (patient exams/interviews) and staff will be emphasized. (MK, CS)
2. Accurately identify psychiatric diagnoses using Diagnostic and Statistical Manual 5 Criteria (DSM 5). (MK, PC, SL)
3. Recognize personal limits in knowledge and experience, and pursue information necessary to understand and solve diagnostic and therapeutic problems utilizing an evidence-based approach. (MK, PR, PL, SL)
4. Practice supervisory skills by providing third year medical students with feedback on performance, documentation, and interviewing with guidance from Residents or Attending. (MK, PC, CS, PR, PL, SL)
5. Identify and demonstrate the skills necessary to provide effective and timely care taking into account appropriate resources for patients. (MK, PC, CS, PR, PL, SL)
6. Demonstrate the ability to write orders, accurately write process notes, and complete discharge summaries consistent with that expected in the PGY 1 year. (MK, PC, CS, PR, PL, SL)

**INSTRUCTIONAL METHODOLOGIES & 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. Daily pre-rounds and rounds.
2. Self directed learning using evidenced based medicine approach.
3. Direct observation by faculty and residents during direct patient care and review of other clinical and didactic activities.

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

1. Substance use disorders
2. Mood, Anxiety and Psychotic Disorders
3. Cognitive Disorders (Delirium and Dementia)
4. Personality Disorders

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.

2. Students will be directly observed interviewing and assessing patients (PC, PR, CS)
3. A 15-minute presentation, delivered to the entire treatment team, is required on a topic of his/her choice. (MK, PC, CS)
4. Students will be expected to utilize the principals of evidence-based medicine. (MK, PC)
5. Students will receive verbal feedback about their performance. (PC, PR, MK, CS, SL, PL)

Will students be expected to participate in call and weekend rounds? ☑ YES ☐ NO
Course Director: Jeanne Hill, MD
Email: hillj@musc.edu

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

Block 1A: 7/6/15 – 7/17/15 Block 4B: 10/12/15 – 10/23/15 Block 8: 2/1/16 – 2/26/16 10
Block 1B: 7/20/15 – 7/31/15 Block 5: 10/26/15 – 11/20/15 Block 8A: 2/1/16 – 2/12/16
Block 3A: 8/31/15 – 9/11/15 Block 6B: 12/7/15 – 12/18/15 10 Block 10: 3/28/16 – 4/22/16

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. 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 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
RAD 854: Pediatric Radiology

**Course Director:** Jeanne Hill, MD  
Email: hillj@musc.edu

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

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1: 7/6/15 – 7/31/15</td>
<td>1</td>
<td>Block 4A: 9/28/15 – 10/9/15</td>
<td></td>
<td>Block 7B: 1/18/16 – 1/29/16</td>
<td></td>
</tr>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td>1</td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td></td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td>2</td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td>1</td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>2</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
</tr>
</tbody>
</table>

**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 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)  
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 the 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).

**Will students be expected to participate in call?** ☑ YES ☐ NO
RAD 856: Interventional Radiology

**Course Director:** Ricardo Yamada, MD  
Email: yamada@musc.edu  
**Course Coordinator:** Claudia Richey  
Telephone #: 843-792-2374  
Email: richec@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1: 7/6/15 – 7/31/15</td>
<td>1</td>
<td>Block 4A: 9/28/15 – 10/9/15</td>
<td>Block 7B: 1/18/16 – 1/29/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td>1</td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td>1</td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**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 procedural 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 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).

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

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

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. 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

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
RAD 858: Ultrasound Radiology

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

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

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1: 7/6/15 – 7/31/15</td>
<td>1</td>
<td>Block 4A: 9/28/15 – 10/9/15</td>
<td></td>
<td>Block 7B: 1/18/16 – 1/29/16</td>
<td></td>
</tr>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td>1</td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td></td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td>2</td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td>1</td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>2</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
</tr>
</tbody>
</table>

**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 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. 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
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 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. 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 conference, Hollings Cancer Center breast tumor board, and Grand Rounds
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

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.
### 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).
**Course Director:** Joseph Jenrette, MD  
Email: jenretbm@musc.edu

**Course Coordinator:** Tanya Byers  
Telephone #: 843-792-3273  
Email: byerst@musc.edu

---

**COURSE DESCRIPTION:**
This elective is primarily for students with an interest in some aspect of oncology and often specifically in the field of radiation oncology. Most will have completed the third-year selective (although it is not a requirement) and be prepared to interact with the physician team, patients, and other personnel. Students should have a solid foundation in oncology and be quite familiar with oncologic care. The students will take on key roles in patient management and frequently be involved in independent research projects. They will be required to do an oral presentation on either their own research projects or some other interesting topic in radiation oncology. While the goals and objectives of this course are similar to those of the third-year selective, the expectations for proficiency are much higher.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Assess when radiation would be part of the management of a patient with cancer. (MK, PL)
2. Interact professionally with other physicians and members of the treatment team. (CS, PR)
3. Demonstrate knowledge of complex treatment planning using virtual reality treatment planning computers. (PC, MK, PL, SL)
4. Demonstrate an ability to examine a variety of adult and pediatric cases with an emphasis on CNS, Breast, Prostate, Lung, Gyn, Head/Neck and GI cancers. These examinations will entail fiber optic scopes and other sophisticated means of examination. (PC, PL, SL, CS)
5. Formulate a treatment plan of care. (PL, SL, MK, 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. Attend and participate in multidisciplinary tumor boards in which case management with other specialists will be discussed.
2. Attend and participate in daily didactic sessions regarding cancer management, radiobiology, and radiation physics.
3. One-on-one work with attending and resident physicians on patient management teams. Students will be responsible for gathering information on patients and reviewing pertinent literature regarding patients and their diseases.
4. Attend and participate in multi-disciplinary tumor boards in which case management decisions are made. Students should be prepared to discuss current literature including relevant clinical trials and evidence-based medicine.
5. Give a brief presentation during conference on a topic related to cancer.

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Breast cancer
2. Lung cancer
3. Prostate cancer
4. Pediatric cancer
5. Head and neck cancer

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, PL, SL)
2. Direct observation of clinical and patient care skills by attendings and residents. (PC, SL, CS)
3. Final discussion with the departmental chair or his representatives to assess the learning objectives.
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
Does this rotation accept visiting students? ☑ YES ☐ NO

COURSE DESCRIPTION:
This course provides in-depth exposure to patients undergoing surgery for acquired cardiac disease. The student will be an integral part of the team which includes general surgery and cardiothoracic surgery residents, cardiac surgery attendings, and midlevel providers. The student will be assigned primarily to one cardiac attending but will work with the entire staff and will receive extensive exposure to patients in the operating room, cardiothoracic intensive care unit, and on the floor as well as in the outpatient clinic.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Actively participate in surgical procedures, rounds, and clinics with their assigned attending. (PC, PR, MK, CS)
2. Discuss the basic preoperative evaluation of patients with surgically correctable cardiac disease. (PC, MK, SL, PL)
3. Discuss the postoperative management of patients undergoing cardiac surgery. (PC, MK, SL, PL, CS)
4. Describe the common complications experienced by patients undergoing cardiac surgery. (PC, MK)
5. Describe the purpose and basic functional principles of the “heart lung machine” (PC, MK)

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. Direct patient care in the clinics, on the floors, and assisting in the operating room
2. Weekly Division of Cardiothoracic Surgery M and M conferences and Grand Rounds

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Coronary Artery Disease
2. Cardiac Valvular Disease
3. Congestive Heart Failure

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 Student Performance (PC, PR, MK, CS, SL, PL)
3. Students will receive feedback about performance at the midpoint of the course. (PC, PR, MK, CS, SL, PL)

Will students be expected to participate in call? ☑ YES ☐ NO
Does this rotation accept visiting students? ☒ YES ☐ NO

**COURSE DESCRIPTION:**
Students will participate in the Night Emergency Surgery Service as members of the night float team. This service evaluates and treats a significant volume of trauma patients as well as performing emergency consultations and acute care surgery operative procedures. This service is recommended for students interested in general surgery, as well as students interested in emergency medicine and primary care specialties.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Discuss the basic principles of trauma patient evaluation and resuscitation. (MK, PC, CS)
2. Identify trauma patients who need emergent surgical intervention. (MK, PC)
3. Accurately assess and develop a differential diagnosis for patients with acute abdominal pain and other urgent surgical conditions. (MK, PC)
4. Discuss management of acute surgical emergencies and other conditions requiring urgent management in pediatric surgical patients. (MK, 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. Students will assist in evaluation and resuscitation of trauma patients presenting during the “night float service” hours
2. Students will assist the mid-level and chief surgical residents in evaluation of patients for whom a surgical consultation has been requested in the emergency room as well as in other MUH inpatient units.
3. Students will assist with operative procedures on trauma and general surgery patients during the “night float service” hours.
4. Students will follow the schedule of the Interns assigned to the Night Emergency Surgery Rotation. (Sunday 7 PM until 6 AM Monday, then 6 PM to 6 AM Monday through Friday nights Rotation starts on first Monday and ends on last Friday morning after call)

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Multisystem Trauma patient
2. Patient with Traumatic Brain Injury
3. Patient with penetrating trauma
4. Patient with an acute abdomen

**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 student performance (PC, PR, MK, CS, SL, PL)
3. Students will receive feedback about performance at the midpoint of the course. (PC, PR, MK, CS, SL, PL)

Will students be expected to participate in call? ☒ YES ☐ NO
Rotation takes place on weeknights as well as Sunday nights during the rotation consistent with the surgery “Night emergency trauma service.” Students will be “off” during the daytime hours.
Course Director: Chad Denlinger, MD  
Email: denlinge@musc.edu  
Course Coordinator: Ruth Fortini  
Telephone #: 843-792-2720  
Email: fortinir@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1: 7/6/15 – 7/31/15</td>
<td>1</td>
<td>Block 4A: 9/28/15 – 10/9/15</td>
<td></td>
<td>Block 7B: 1/18/16 – 1/29/16</td>
<td></td>
</tr>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td></td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td></td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td>1</td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td></td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>1</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
</tr>
<tr>
<td>Block 2: 8/3/15 – 8/28/15</td>
<td>1</td>
<td>Block 5A: 10/26/15 – 11/6/15</td>
<td></td>
<td>Block 8B: 2/15/16 – 2/26/16</td>
<td></td>
</tr>
<tr>
<td>Block 3A: 8/31/15 – 9/11/15</td>
<td></td>
<td>Block 6B: 12/7/15 – 12/18/15</td>
<td></td>
<td>Block 10: 3/28/16 – 4/22/16</td>
<td>1</td>
</tr>
</tbody>
</table>

Does this rotation accept visiting students? ☑ YES ☐ NO

**COURSE DESCRIPTION:**
This course provides in-depth exposure to patients with diseases of the chest including lungs, esophagus, and mediastinum. The student will be an integral part of the team which includes general surgery and cardiothoracic surgery residents, thoracic surgery attendings, and midlevel providers. The student will be assigned to the general thoracic attendings but will work with the entire staff and will receive extensive exposure to patients in the operating room, cardiothoracic intensive care unit, and on the floor as well as in the outpatient clinic at Hollings Cancer Center.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Understand how to evaluate patients with diseases of the lung, esophagus, mediastinum and chest wall. (MK, PC)
2. Stage cancer of the lung and esophagus. (MK)
3. Demonstrate the work up/admission of patients undergoing thoracic surgery. (PC, PR, CS, PL)
4. Discuss the role of surgery in management of patient’s with thoracic disease. (PC, MK)
5. Identify and institute management of postop complications from thoracic surgery. (PC, SL)

**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. Daily Rounds
2. Participation in OR
3. Participation in Outpatient Clinics
4. Thoracic Conferences

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Lung cancer
2. Esophageal cancer
3. Benign esophageal disease
4. Pleural space problems
5. Lung Transplantation

**EVALUATION / FEEDBACK METHODS:** Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, P, MK, CS, SL, PL)
2. Direct observation of student performance (PC, P, MK, CS, SL, PL)
3. Students will receive feedback about performance at the midpoint of the course. (PC, P, MK, CS, SL, PL)

Will students be expected to participate in call? ☐ YES ☑ NO
SURG 834: Pediatric Surgery Externship

Course Director: Aaron Lesher, MD
Email: smithcd@musc.edu

Course Coordinator: Ruth Fortini
Telephone #: 843-792-2720
Email: fortinir@musc.edu

Does this rotation accept visiting students? ☑ YES ☐ NO

COURSE DESCRIPTION:
Students will serve as members of the patient care team for patients on the pediatric surgical service interacting with the attendings and residents from the pediatric surgical service on a daily basis. Senior students will participate in outpatient clinics, the operating room, and rounds with residents and attending surgeons. Students will also participate in the management of inpatient consults and assessment of pediatric burn/trauma patients.

LEARNING GOALS & OBJECTIVES:
At the completion of this clinical rotation students should be able to do the following:
1. Discuss pre/post op pediatric surgical care and fluid management, the principles of pediatric burn care and basic surgical techniques. (MK, PC, PR, PL)
2. Describe the evaluation and management of common pediatric surgical problems (inpatient and outpatient). (MK, PC, PL, SL)
3. Discuss the initial assessment of the pediatric trauma patient and perform this assessment in patients with less severe injuries. (MK, PC, PL)
4. Discuss the management of neonates with congenital anomalies. (MK, PC, PL)
5. Identify and discuss management of acute pediatric surgical emergencies including the child with an acute abdomen and life threatening emergencies (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. Direct patient care in the clinics, on the floors, and assisting in the operating room
2. Weekly Department of Surgery M and M conferences and Grand Rounds
3. Weekly pediatric surgery service conferences

PATIENT ENCOUNTERS:
Students will be expected to work-up patients with these specified conditions:
1. Congenital anomaly
2. Acute abdomen
3. Pediatric trauma victim
4. Pediatric patient with burns
5. Pediatric patient with acute pediatric surgical emergency

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 student performance (PC, PR, MK, CS, SL, PL)
3. Students will receive feedback about performance at the midpoint of the course. (PC, PR, MK, CS, SL, PL)

Will students be expected to participate in call? ☐ YES ☑ NO
Call is not required but encouraged. The frequency is variable based on student’s level of interest. Discuss with course director. Students may take call from home and participate in after-hours pediatric surgical operative cases or spend time in house working with the night emergency trauma service residents.
SURG 835: Plastic Surgery Externship ASE

Course Director: Lance Tavana, MD
Email: tavana@musc.edu

Course Coordinator: Ruth Fortini
Telephone #: 843-792-2720
Email: fortinir@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1:</td>
<td>1</td>
<td>Block 4A: 9/28/15 – 10/9/15</td>
<td>Block 7B: 1/18/16 – 1/29/16</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Block 1A:</td>
<td>1</td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Block 1B:</td>
<td>1</td>
<td>Block 5A: 10/26/15 – 11/6/15</td>
<td>Block 8B: 2/15/16 – 2/26/16</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Block 3:</td>
<td>1</td>
<td>Block 6B: 12/7/15 – 12/18/15</td>
<td>Block 10: 3/28/16 – 4/22/16</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Block 4:</td>
<td>1</td>
<td>Block 7A: 1/4/16 – 1/15/16</td>
<td>Block 10B: 4/11/16 – 4/22/16</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Does this rotation accept visiting students? ☑ YES ☐ NO

COURSE DESCRIPTION:
Students will participate in plastic surgery patient care including the inpatient and outpatient settings with the faculty and residents of the Division of Plastic Surgery. The student's daily activities will be assigned by the academic chief plastic surgery resident and will include activities such as plastic surgery didactic case and visiting professor conferences as well as inpatient and ambulatory patient care. Students will be involved in operative cases on a daily basis with exposure to all aspects of reconstructive and cosmetic surgery.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Evaluate patients with common problems treated by plastic surgeons and discuss the various conditions and pathologies that plastic surgeons treat. (MK, PC, PL, SL)
2. Perform basic wound evaluation and closure techniques. (MK, PC)
3. Discuss basic wound healing and steps which can be taken to maximize healing and reduce scar formation and demonstrate core knowledge in normal and abnormal wound healing, wound care, wound closure, and scar evaluation. (MK, PC, PR, PL, SL)
4. Outline preoperative and operative plan for patients undergoing breast surgery, hand surgery and oncologic reconstruction. (MK, PC, PR, PL, SL)
5. Demonstrate familiarity with the "reconstructive ladder" and its application to patients undergoing reconstruction of soft tissue defects. (MK, PC, PR, PL, SL)
6. Discuss the role of nutrition in surgical management and steps which may be taken to maximize over all healing. (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. Intraoperative teaching of wound closure techniques.
2. Direct patient care in the clinics, inpatient floors, and assisting in the operating room.
3. Weekly Plastic Surgery division didactic and grand rounds conferences
4. Student will give a brief 10 minute presentation at the end of the rotation on a topic provided by the course director.

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Patient undergoing breast reconstruction
2. Patient undergoing surgical oncology related reconstruction
3. Patient undergoing hand surgery

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)
2. Patient-based presentation to count for 25% of grade (MK, PR, PL)
3. Direct observation of student performance (PC, PR, MK, CS, SL, PL)
4. Students will receive feedback about performance at the midpoint of the course. (PC, PR, MK, CS, SL, PL)

Will students be expected to participate in call? ☑ YES ☐ NO
## Course Description:

Students will be assigned to serve as sub-interns in the surgical intensive care unit and will be the primary care provider for assigned patients. Very close supervision will be provided by surgery residents assigned to the unit. Daily teaching rounds are made by attending surgeons board certified in critical care. This rotation is recommended for students with an interest in anesthesia or in a surgical field.

## Learning Goals & Objectives:

1. Define indications for mechanical intubation and parameters for extubation (MK, PC, PL, SL)
2. Understand basic modes of mechanical ventilation, ABG analysis, acid/base disorders and their management, and fluid and electrolyte management (MK, PC, PL, SL)
3. Identify and treat shock (hypovolemic/hemorrhagic, cardiogenic, neurogenic, septic) (MK, PC, PL, SL)
4. Demonstrate familiarity with the management of Traumatic Brain Injury and the multi-system injured trauma patient (MK, PC, PL, SL)
5. Demonstrate familiarity with the invasive procedures performed on patients in the STICU. (MK, PC, PL, SL)
6. Demonstrate proper and effective patient handoffs (PC, 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. Attending morning report daily to discuss all ICU patients on the service.
2. Daily interaction with the Surgical Critical Care Attending on rounds and at the bedside.
3. Weekly Critical Care Conference presented by the Surgical Critical Care fellow and supported by the Surgical Critical Care faculty.

## Patient Encounters:

Students will be expected to work-up patients with these specified conditions:
1. Respiratory failure
2. Shock
3. Traumatic Brain Injury
4. Multisystem injured trauma patient
5. Systemic Inflammatory Response and Multiple organ failure

## 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 student performance (PC, PR, MK, CS, SL, PL)
3. Students will receive feedback about performance at the midpoint of the course. (PC, PR, MK, CS, SL, PL)

---

**SURG 836: Surgical Critical Care Externship ASE**

**Course Director:** Stuart Leon, MD  
**Email:** leon@musc.edu

**Course Coordinator:** Ruth Fortini  
**Telephone #:** 843-792-2720  
**Email:** fortinir@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1</td>
<td>7/6/15 – 7/31/15</td>
<td>Block 4A: 9/28/15 – 10/9/15</td>
<td>Block 7B: 1/18/16 – 1/29/16</td>
</tr>
<tr>
<td>Block 1A</td>
<td>7/6/15 – 7/17/15</td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td>Block 8: 2/1/16 – 2/26/16</td>
</tr>
<tr>
<td>Block 1B</td>
<td>7/20/15 – 7/31/15</td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>3</td>
</tr>
<tr>
<td>Block 3A</td>
<td>8/31/15 – 9/11/15</td>
<td>Block 6B: 12/7/15 – 12/18/15</td>
<td>Block 10: 3/28/16 – 4/22/16</td>
</tr>
<tr>
<td>Block 3B</td>
<td>9/14/15 – 9/25/15</td>
<td>Block 7: 1/4/16 – 1/29/16</td>
<td>3</td>
</tr>
</tbody>
</table>

---

Does this rotation accept visiting students? ☑ YES ☐ NO

---

**Patient Encounters:** Students will be expected to participate in call? ☐ YES ☑ NO
COURSE DESCRIPTION:
Students on the surgical oncology rotation will participate in the ambulatory and inpatient surgical care of patients with breast, endocrine, skin, soft tissue and GI tumors. Students will be exposed to the multidisciplinary approach to patient care through tumor board conferences and clinics. Students will be orientated to the service by the course director who will provide verbal feedback through the rotation midway through the rotation.

LEARNING GOALS & OBJECTIVES:
At the completion of this clinical rotation students should be able to do the following:
1. Identify the basic steps and anatomy for several surgical oncology and endocrine procedure. (MK, PC)
2. Provide a concise presentation of patients on inpatient rounds and begin to develop an appropriate assessment and care plans and recognize postoperative surgical complications and appreciate changes in management required to address these complications. (MK, PC, PR, PL)
3. Describe inpatient responsibilities (including but not limited to: reviewing orders, following up on lab and test results, assessing patients, admitting patients, seeing consults, calling consults, performing bedside procedures) and Participate in the evaluation of patients in outpatient clinics. (MK, PC, PR, PL)
4. Identify resource guidelines (i.e., NCCN guidelines) to better understand the work up, staging and treatment of various oncologic tumors. (MK, PC)
5. Describe the multidisciplinary approach to the treatment of surgical oncology patients and develop a basic understanding of non-surgical (adjuvant) therapies. (MK, 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. Operative cases
2. Inpatient rounds
3. Outpatient clinic
4. Tumor board conferences
5. Service resident/student teaching session

PATIENT ENCOUNTERS:
Students will be expected to work-up patients with these specified conditions:
1. Breast: benign breast disease, high risk and breast cancer patients
2. Endocrine: thyroid and parathyroid cancer, hyperparathyroidism
3. Gastrointestinal malignancies including pancreatic, colorectal and gastric cancer
4. Melanoma

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 student performance (PC, PR, MK, CS, SL, PL)
3. Students will receive feedback about performance at the midpoint of the course. (PC, PR, MK, CS, SL, PL)

Will students be expected to participate in call? □ YES □ NO
Does this rotation accept visiting students? ☑ YES ☐ NO

**COURSE DESCRIPTION:**
Students will participate in all aspects of patient care including the inpatient and outpatient setting and will participate on rounds, in the clinics, and in the operating room. Students will be exposed to all aspects of the complex medical and surgical care of patients with end organ failure. This course is recommended for students interested in surgery, nephrology, hepatology, internal medicine, or other primary care specialties.

**LEARNING GOALS & OBJECTIVES:**
At the completion of this clinical rotation students should be able to do the following:
1. Formulate a medically suitable daily plan for their patients. (MK, PC)
2. Present accurately and succinctly the critical elements of their patients’ course on rounds. (PC, CS)
3. Articulate some of the medical and surgical issues that are specific to transplant patients. (MK)
4. Articulate a basic understanding of the approach to general surgical issues. (MK)
5. Articulate a basic understanding of the medical management of complicated general surgical patients. (MK)

**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. Participation in multi-disciplinary rounds with residents, fellows, and attendings.
2. Participation in solid organ transplant cases (primarily liver and kidney).
3. Participation in the daily management, medical, and surgical care of the service inpatients.
4. Participation in the outpatient evaluation and management of transplant patients.
5. Participation in organ procurement (“donor runs”).
6. Participation in recipient selection meeting

**PATIENT ENCOUNTERS:**
Students will be expected to work-up patients with these specified conditions:
1. Patients with ESRD (renal failure).
2. Patients with cirrhosis (chronic liver failure) and patients with fulminant hepatic failure (acute liver failure).
3. Patients with diabetes (pancreatic endocrine failure).
4. Patients on dialysis with vascular access issues.
5. Patients with primary liver cancers.

**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 student performance (PC, PR, MK, CS, SL, PL)
3. Students will receive feedback about performance at the midpoint of the course. (PC, PR, MK, CS, SL, PL)

Will students be expected to participate in call? ☑ YES ☐ NO
Students can expect to participate in transplantation activities as organs become available.
SURG 839: Trauma & Acute Care Surgery Externship ASE

**Course Director:** Joseph Sakran, MD  
Email: montgos@musc.edu  

**Course Coordinator:** Ruth Fortini  
Telephone #: 843-792-2720  
Email: fortinir@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td></td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td></td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

Does this rotation accept visiting students?  ☑ YES  ☐ NO

**COURSE DESCRIPTION:**
Students will serve as sub-interns on the Trauma and Acute Care Surgery service. They will be assigned to patients and will be expected to be their primary caregivers, with supervision by the resident staff and attending surgeons. Students will be expected to participate in the daily delivery of care to the Acute Care Surgery patients as well as the surgical clinics where new patients are evaluated and recently discharged patients are seen for follow up. This rotation is recommended for students that are interested in primary care, orthopedic surgery, emergency medicine, and general surgery.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Demonstrate a basic understanding of Advanced Trauma Life Support (ATLS). (MK, CS, SL)
2. Delineate the work up and treatment of common surgical conditions (MK, PC)
3. Develop polished patient presentations (PR, CS, PL)
4. Discuss the different treatment algorithms for blunt and penetrating abdominal trauma (MK, 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. Be an active team member during trauma resuscitations
2. Be involved in the work up of surgical consultations
3. Participate in daily patient rounds
4. Attend divisional educational activities such as Trauma Radiology Conference, Joint Trauma/Neurosurgery Conference, and Trauma/Emergency Medicine Case Review Conference
5. Be actively involved in the operative management of the patients on the service

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Blunt abdominal trauma
2. Penetrating abdominal trauma
3. Abdominal pain
4. Patients with non-traumatic acute surgical conditions.
5. Traumatic brain injury
6. Extremity and pelvic trauma
7. Acute chest injury

**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 student performance (PC, PR, MK, CS, SL, PL)
3. Students will receive feedback about performance at the midpoint of the course. (PC, PR, MK, CS, SL, PL)

Will students be expected to participate in call?  ☐ YES  ☑ NO
Does this rotation accept visiting students? YES

**COURSE DESCRIPTION:**
This course will be a sub-internship in vascular surgery, with the student functioning as a member of the team and responsible for many of the duties of an intern under the direct guidance and supervision of house staff and attending staff. Students will also take inpatient call 2-3 times during the rotation when our team is in-house at ART. Depending on clinical volume and the anticipated training opportunities, the student may be assigned to either the vascular service at RH Johnson VA or at Ashley River Tower. In addition, if a student manifests a high level of interest in vascular surgery and communicates with the coordinator well in advance of the rotation, 3-5 days of the rotation may be arranged to interact primarily with MUSC clinical faculty at Roper Hospital as well. This course is designed primarily for students interested in surgery who are considering post-graduate training in general surgery or vascular surgery residencies.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Describe basics of wound care, diabetic foot ulcer evaluation and management, and the role of a vascular laboratory. (MK, PC, PL)
2. Perform a basic historical and physical examination on a patient with peripheral vascular disease. (PC, MK, CS, PR)
3. Interpret basic vascular laboratory lab results (PC, MK)
4. Discuss the role of interventional techniques in the diagnosis and treatment of peripheral vascular disease (MK, PC, SL)
5. Discuss the role for medical management versus intervention for common peripheral vascular pathologies. (MK, 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. Interaction with patients and staff in the inpatient and outpatient setting for direct bedside teaching.
2. Conference presentations and participation
3. Participation in the operating room, bedside procedures, and review of images with housestaff and attendings.
4. Self-study and completion of assigned reading in texts and journal articles.
5. Students will participate in rounds, clinic and operative procedures. (PC, MK, CS, PR)
6. At least one day a week will be spent in the operating room where familiarity with underlying pathophysiology, anatomy and basic surgical principles will be expected. (PC, MK, CS, PR)
7. Participation in the weekly teaching conference will be expected. (PL, SL)
8. Students will participate in interventional radiologic procedures for the treatment of Peripheral vascular disease. (PC, SL)

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Aortic aneurysm disease
2. Carotid artery disease
3. Lower extremity peripheral vascular disease, including claudication and limb-threatening ischemia
4. Venous thromboembolic disease

**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 student performance (PC, PR, MK, CS, SL, PL)
3. Students will receive feedback about performance at the midpoint of the course (PC, PR, MK, CS, SL, PL)
4. Self-study and completion of assigned reading in texts and journal articles.
5. Degree of participation in and response to questions in conferences and the operating room (MK, PL, SL)
4. Quality of presentations in conferences (PC, CS)
5. Level of participation in OR and outpatient procedures (PC, MK)

Will students be expected to participate in call? ☑ YES ☐ NO 2-3 nights over the four weeks
Does this rotation accept visiting students?  ☒ YES ☐ NO

COURSE DESCRIPTION:
Students will work one on one with a local community surgeon participating in their clinical practices in both the office and the operation room. Recommended for students interested in primary care fields, emergency medicine. Student experience will vary based on the particular surgical practice to which they are assigned. Note: This course is not based at MUSC. Students must supply requested credentialing information in advance of the rotation to be allowed to participate in care in non-MUSC facilities.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Discuss common general surgical problems (MK, CS)
2. Assist with basic general surgery procedures at a novice level (PC, PR)
3. Describe the role of the general surgeon in a community hospital (SL)

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. Rounds with attending community surgeons
2. Assisting attending community surgeons in the operating room
3. Accompanying attending community surgeons in the office/clinic setting

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Patients requiring basic general surgical care and procedures.

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.
1. E*Value Clinical Performance Evaluation (PC, PR, MK, CS, SL, PL)
2. 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
Variable home call depending upon assigned preceptor.
Does this rotation accept visiting students? ☑ YES  ☐ NO

**COURSE DESCRIPTION:**
This course provides exposure to the operative care of patients undergoing surgery for congenital heart disease. The student will be a part of the surgical team which includes 2 pediatric cardiac surgery attendings, 2 midlevel providers and a surgical fellow. The student’s exposure will be primarily concentrated in the operating room, although it will also include making rounds in the intensive care unit and on the floor with the attendings. Additional exposure to the patients in the intensive care unit may be arranged with the pediatric cardiology team.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Discuss the pathophysiology of common congenital heart diseases. (PC, MK)
2. Discuss the preoperative workup of patients with common congenital heart diseases (PC, MK)
3. Describe the mechanisms by which common operative procedures for congenital heart disease address the pathophysiology of the condition for which surgery is being performed. (MK)
4. Be an active and knowledgeable participant in the operating room and on rounds with the attending surgeon (MK, PR, PB, SL)

**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. Rounding in the intensive care unit and on the floor with the attending surgeons and midlevel providers.
2. Scrubbing in the operating room on congenital heart operations.
3. Attendance at conferences.

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Ventricular Septal Defect.
2. Tetrology of Fallot
3. Atrial Septal defect
4. Patent Ductus Arteriosus

**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 student performance (PC, PR, MK, CS, SL, PL)
3. Students will receive feedback about performance at the midpoint of the course. (PC, PR, MK, CS, SL, PL)

Will students be expected to participate in call?  ☐ YES  ☑ NO
SURG873: GI Surgery Externship ASE

**Course Director:** Katherine Morgan, MD  
Email: adamsdav@musc.edu  
**Course Coordinator:** Ruth Fortini  
Telephone #: 843-792-2720  
Email: fortinir@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td></td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td></td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td>2</td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td></td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>2</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
</tr>
</tbody>
</table>

Does this rotation accept visiting students? ☑YES ☐NO

**COURSE DESCRIPTION:**
Students will serve as externs on one of the areas of GI Surgery covered by attending surgeons in the Section of GI surgery. Students will be given the choice of participation on the Bariatric Colorectal Service and/or the Pancreatic Biliary Service to include inpatient care as well as pre and post-operative care in the surgery clinics. Recommended for students interested in surgery, primary care, geriatrics and internal medicine.

**LEARNING GOALS & OBJECTIVES:** At the completion of this clinical rotation students should be able to do the following:
1. Perform an accurate history and physical examination of the surgical patient (PC, CS, SL)
2. Discuss operating room decorum and roles of assistant surgeon (PR, CS, SL)
3. Demonstrate ability to present patients on rounds (PR, CS, PL, PC)
4. Communicate effectively with patients, nurses, and physicians (PR, CS)
5. Describe the important role of intern in team patient care (PR, MK, PC, PL, SL, 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. Direct patient care in the clinics, on the floors, and assisting in the operating room
2. Weekly Dept. of Surgery M and M conferences and Grand Rounds
3. Students will be responsible for supervised care of 2 to 6 inpatients on either the Bariatric Colorectal Service or the Pancreatic Biliary Service

**PATIENT ENCOUNTERS:** Students will be expected to work-up patients with these specified conditions:
1. Enterocutaneous fistula
2. Acute pancreatitis
3. Chronic pancreatitis
4. Morbid Obesity
5. Diverticulitis
6. Gastroesophageal reflux disease
7. Inguinal and abdominal wall hernias
8. Pancreatic cancer
9. Symptomatic choledolithiasis

**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 student performance (PC, PR, MK, CS, SL, PL)
3. Students will receive feedback about performance at the midpoint of the course. (PC, PR, MK, CS, SL, PL)

Will students be expected to participate in call? ☑YES ☐NO
**UROL 851: Urology ASE**

**Course Director:** Michaela Prasad, MD  
Email: prasadm@musc.edu  

**Course Coordinator:** Tracy Washington  
Telephone #: 843-792-4538  
Email: washintl@musc.edu

<table>
<thead>
<tr>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
<th>BLOCK</th>
<th># Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1A: 7/6/15 – 7/17/15</td>
<td>4</td>
<td>Block 4B: 10/12/15 – 10/23/15</td>
<td>2</td>
<td>Block 8: 2/1/16 – 2/26/16</td>
<td></td>
</tr>
<tr>
<td>Block 1B: 7/20/15 – 7/31/15</td>
<td>4</td>
<td>Block 5: 10/26/15 – 11/20/15</td>
<td>2</td>
<td>Block 8A: 2/1/16 – 2/12/16</td>
<td></td>
</tr>
</tbody>
</table>

Does this rotation accept visiting students? ☑ YES ☐ NO

**Course Description:**
This is a four-week clinical rotation for students who are considering urology as a career. The student will rotate in both inpatient and outpatient areas at MUSC and the VA hospital, managing complex urologic conditions and providing a detailed look at what a career in urologic surgery will entail. Service guidelines will be emailed two weeks before the actual rotation begins. Preauthorization is required for students rotating in blocks 1-5.

**Learning Goals & Objectives:**
At the completion of this clinical rotation students should be able to do the following:
1. Describe relevant anatomy and perform a genitourinary exam on adult and pediatric patients, male and female (PC, MK)
2. Explain the natural history, diagnosis, and treatment of common urologic disorders, including nephrolithiasis, hematuria, acute scrotum, incontinence, UTI, ED, BPH, and genitourinary cancers
3. Complete uroradiology content at www.auanet.org and demonstrate familiarity with imaging techniques in urology (cystography, nuclear medicine, renal US, CT) and an understanding of the interpretation of these studies (PC, MK)
4. Identify the indications for endoscopic, laparoscopic, robotic and open surgical approaches for adults and children (PC, MK)
5. Describe pre-, intra-, & post-operative management of general, oncologic, and reconstructive urologic patients (PC, MD, CS)
6. Demonstrate basic surgical skills of a urologist, including catheterization, suturing, physical exam skills, endoscopy, laparoscopy, robotics and open surgery through simulation training and clinical practice (PC, PL)

**Instructional Methodologies and Rotation Activities:**
1. On-line didactic questions through Q-Stream platform received via e-mail, certificate of completion sent to Tracy Washington
2. Participation in morning and evening inpatient rounds/discussions
3. Following inpatient census of 1-3 patients (postop or admissions from the ER) and assisting with 1-3 consults per week
4. Attendance/participation in all urological conferences (including journal club) and 15-minute Grand Rounds presentation given to the department on a subject encountered during the rotation
5. Completion of 4th year Urology Selective Skills Checklist submitted to Tracy Washington at the conclusion of the rotation
6. Meeting with course director at the start of rotation, as a group, and individually prior to conclusion of rotation (student must arrange meeting through Tracy Washington)

**Patient Encounters:**
Students will be expected to work-up patients with these specified conditions:
1. Prostate/Bladder/Kidney Cancer
2. Voiding Dysfunction/Incontinence/BPH/Hematuria/ED
3. Nephrolithiasis/Acute Scrotum

**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 clinical and patient care skills by the chief resident and attending urologist (PC, PR, MK, CS, PL)
3. Conference Discussions and Grand Rounds presentation (MK, CS)
4. Successful completion of Q-Stream course, skills checklist, and core curriculum content located at www.auanet.org
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