

Revised: March 29, 2012



3RD YEAR COURSE CATALOG

**2012 – 2013
ACADEMIC YEAR**

ANES 822J**Adult Medicine/Surgery ICU****Course Director(s):**

Horst Rieke, MD

Course Coordinator:

Tammie Matusik

792-4365

matushe@musc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | |
|--------------------|--------------------------|-------------------------------------|------------------|--------------------|--------------------------|-------------------------------------|------------------|
| Block 1 (3 wks) | <input type="checkbox"/> | <input type="checkbox"/> | July 2 - July 20 | Block 3 (3 wks) | <input type="checkbox"/> | <input type="checkbox"/> | Sept 24 - Oct 12 |
| | <input type="checkbox"/> | <input type="checkbox"/> | July 23 - Aug 10 | | <input type="checkbox"/> | <input type="checkbox"/> | Oct 15 - Nov 2 |
| Block 2 (3 wks) | <input type="checkbox"/> | <input type="checkbox"/> | Aug 13 - Aug 31 | Block 4 (3 wks) | <input type="checkbox"/> | <input type="checkbox"/> | Nov 5 - Nov 23 |
| | <input type="checkbox"/> | <input type="checkbox"/> | Sept 3 - Sept 21 | | <input type="checkbox"/> | <input type="checkbox"/> | Nov 26 - Dec 14 |
| Block 5 (3 wks) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Jan 2 - Jan 18 | Block 6 (3 wks) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Feb 11 - Mar 1 |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Jan 21 - Feb 8 | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Mar 4 - Mar 22 |
| Block 7 (3 wks) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Mar 25 - Apr 12 | Block 8 (3 wks) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | May 6 - May 24 |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Apr 15 - May 3 | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | May 27 - June 14 |

COMMENTS:

Since there are no "seasonal" changes of patient admittance, the student limit of 2 per block applies to the whole year.

COURSE DESCRIPTION:

This critical care rotation in the combined medical-surgical MSICU will challenge the medical student with managing complex patients with a wide variety of medical and surgical problems. To aid in the planning and administration of a sound care plan, the student will need to integrate knowledge from diverse resources (personal reading, teaching rounds, consultants, and ICU staff). The attending faculty will be from the Department of Anesthesia and Perioperative Medicine, the Department of Medicine and/or the Department of Surgery, which exposes the student to different management styles.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

- To aid in the planning and administration of a sound care plan, the student will need to integrate knowledge from diverse resources (personal reading, teaching rounds, consultants, and ICU staff).
- Understand and discuss principles of physiology of vital functions with respect to clinical conditions in critical care medicine (i.e. respiratory physiology, particularly mechanical ventilation modes, hemodynamic principles with respect to specific vascular and cardiac functions, acid-base-balance, homeostasis, endocrinology and nutrition, principles of infection in ICU-environment).
- Recognize, diagnose, and pathophysiologically discuss jeopardizing conditions of vital functions in perioperative settings of patients.
- Create basic concepts of therapy for conditions of hemodynamic insufficiency, sepsis, shock, respiratory failure, multi-organ-dysfunction including renal failure and liver dysfunction, post-resuscitation problems, typical neurological problems of critically ill patients (delirium, post-critical illness neuro/myopathy, psychological distress).
- Discuss principles of pharmacology for resuscitation, antibiotics, nutrition and fluid replacement, transfusion of blood components, analgo-sedation, adjuvant medications, as well as starting/assisting intravenous lines, and other supportive catheters.
- Understand how to organize meetings with family members and powers of attorney to create adequate communication conditions; convey therapeutic options and strategies, as well as providing preparation of possible end-of-life scenarios.
- Understand, discuss and demonstrate principles of psychological approaches to team-oriented behavior and team-building as well as motivating work-attitude in an ICU, particularly under distressful conditions.

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:)

- Participation in examining and evaluation admitted patients
- Daily rounding on ICU patients and presentation of patient condition during morning attending/teaching rounds
- Frequent/continuous reevaluation of patients according to acute changes of medical conditions
- Attendance of 4 - 6 lectures on critical care topics (typically @ 1300 pm on workdays on MSICU)
- Problem-based learning focusing 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:)

- Postoperative recovery of patients with multiple or severe comorbidities, and/or conditions after intraoperative complications (i.e. bleeding, massive transfusion, resuscitation)
- Respiratory dysfunction, requiring mechanical ventilation and/or extended respiratory treatment
- Hemodynamical and/or cardiological dysfunction, requiring extended and/or invasive monitoring, as well as acute life-supportive electrical and/or pharmacological treatment.
- Multi-organ-dysfunction syndrome in patients having long lasting life-threatening conditions (i.e. sepsis, peritonitis, pancreatitis, adult respiratory distress syndrome, kidney-, liver-kidney failure)
- Altered mental status due to conditions with high risk of severe complications (i.e. delirium, withdrawal syndrome, cerebro-vascular insufficiency, status post resuscitation, intoxication, drug-overdosing)

EVALUATION / FEEDBACK METHODS:

- Direct observation of clinical/practical skills performance by residents and attending on a daily basis (Patient Care, Professionalism, Practice-Based Learning)
- Discussion and communication with staff, residents and attendings, confirming student's appropriate level of knowledge and understanding of physiological, pathophysiological, therapeutic, ethical, social, and psychological issues during rounds and daily work in the ICU. (All competencies)
- Specific personal feedback according to outstanding events and extraordinary occasions by staff, residents, and attendings (for example resuscitations, procedures, challenging interventions). (Patient Care and Interpersonal/Communication Skills)
- Discussion in interactive didactic sessions. (Medical Knowledge, Practice-Based Learning and Life-Long Learning)

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

ANES 880J**Anesthesiology & Perioperative
Medicine****Course Director(s):**

Catherine Tobin, MD

Course Coordinator:

Tammie Matusik

792-4365

matushe@muscc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | | | | | |
|--------------------|--|--------------------------------------|--------------------|--|------------------------------------|--------------------|--|----------------------------------|--------------------|--|------------------------------------|
| Block 1 (3 wks) | <input type="checkbox"/> 2 <input type="checkbox"/> 4 | July 2 - July 20 July 23 - Aug 10 | Block 3 (3 wks) | <input type="checkbox"/> 4 <input type="checkbox"/> 4 | Sept 24 - Oct 12 Oct 15 - Nov 2 | Block 5 (3 wks) | <input type="checkbox"/> 4 <input type="checkbox"/> 4 | Jan 2 - Jan 18 Jan 21 - Feb 8 | Block 7 (3 wks) | <input type="checkbox"/> 4 <input type="checkbox"/> 4 | Mar 25 - Apr 12 Apr 15 - May 3 |
| Block 2 (3 wks) | <input type="checkbox"/> 2 <input type="checkbox"/> 4 | Aug 13 - Aug 31 Sept 3 - Sept 21 | Block 4 (3 wks) | <input type="checkbox"/> 4 <input type="checkbox"/> 4 | Nov 5 - Nov 23 Nov 26 - Dec 14 | Block 6 (3 wks) | <input type="checkbox"/> 4 <input type="checkbox"/> 4 | Feb 11 - Mar 1 Mar 4 - Mar 22 | Block 8 (3 wks) | <input type="checkbox"/> 4 <input type="checkbox"/> 4 | May 6 - May 24 May 27 - June 14 |

COMMENTS:**COURSE DESCRIPTION:**

Students will rotate with our department in the operating room for 3 weeks. They will be paired with various anesthesia residents during the rotation. Students will also attend anesthesia lectures and simulation during the month.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Discuss cardiovascular and pulmonary physiology as applied in a variety of clinical settings and disease processes.
2. Discuss clinically applicable pharmacokinetics and pharmacodynamics across various pharmacologic therapies.
3. Start and intravenous line and have been guided through the process of intubations, starting an arterial line, and central venous access.
4. 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.
5. Communicate basic ACLS principles, with particular attention placed on airway management.
6. Demonstrate professional behavior in preoperative encounters with patients and their families, understanding the stress and anxiety involved in this period.
7. Understand the basics of Difficult Airway Management as demonstrated in a simulation course.

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 in weekly assignments in the operating rooms.
2. Attendance at weekly didactics, including Tuesday morning conference, the weekly lecture series for 1st-year Anesthesia Residents (CA-1), weekly medical student lectures, as well as specific didactic for obstetrics (OB) or cardiothoracic (CT) anesthesia for the assigned week.
3. Completion of one night of call in the main operating rooms with an upper level and junior anesthesia resident.
4. Completion of assignment to read chapters each week to cover aforementioned goals (cardiovascular, pulmonary, pharmacology, airway management) and those which are covered in the residency lecture series each week.
5. Review of arterial blood gas (ABG) interpretation and treatment of various physiologic derangements able to be diagnosed from an ABG.
6. Attendance at 2-3 simulation conferences during the rotation during which they will learn airway management an IV skills, as well as run through real-time computer-simulated ACLS-type patient encounters that are conducted on SimMan, an interactive, automated mannequin that simulates a variety of medical scenarios.

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

1. Patients with cardiovascular disease undergoing surgery
2. Two patients undergoing labor epidural or c-section. Student will delineate major physiologic changes with pregnancy and understand anesthetic goals for safe patient management in normal term parturient and in the pre-eclamptic patient.
3. Two patients undergoing surgery related to trauma. Student will delineate specific injury to be fixed and understand anesthetics goals for safe patient management in the setting of trauma.
4. One patient of their choice from their general OR week who had an interesting pathology or learning point (i.e. difficult airway management, anesthetic management related to specific disease process unrelated to particular surgery, etc.)

EVALUATION / FEEDBACK METHODS:

1. Direct observation of clinical skills performance by residents each day and discussion of didactic/reading topics, with application to daily clinical cases.
2. Direct observation of clinical skills and intraoperative discussion of didactic knowledge with attendings.

CALL:

Will students be expected to participate in call? YES

If yes, please describe the call schedule/frequency:

Students will be expected to participate in overnight call at least once during the rotation.

DERM 880J**Dermatology****Course Director(s):**

Anne LeClercq, MD

Course Coordinator:

Cathy Barrus

792-9784

barrusc@musc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | |
|--------------------|--|--------------------|---|--------------------|---|--------------------|---|
| Block 1 (3 wks) | <input type="checkbox"/> July 2 - July 20 <input type="checkbox"/> July 23 - Aug 10 | Block 3 (3 wks) | <input type="checkbox"/> Sept 24 - Oct 12 <input checked="" type="checkbox"/> Oct 15 - Nov 2 | Block 5 (3 wks) | <input checked="" type="checkbox"/> Jan 2 - Jan 18 <input type="checkbox"/> Jan 21 - Feb 8 | Block 7 (3 wks) | <input checked="" type="checkbox"/> Mar 25 - Apr 12 <input type="checkbox"/> Apr 15 - May 3 |
| Block 2 (3 wks) | <input type="checkbox"/> Aug 13 - Aug 31 <input checked="" type="checkbox"/> Sept 3 - Sept 21 | Block 4 (3 wks) | <input type="checkbox"/> Nov 5 - Nov 23 <input type="checkbox"/> Nov 26 - Dec 14 | Block 6 (3 wks) | <input checked="" type="checkbox"/> Feb 11 - Mar 1 <input type="checkbox"/> Mar 4 - Mar 22 | Block 8 (3 wks) | <input checked="" type="checkbox"/> May 6 - May 24 <input type="checkbox"/> May 27 - June 14 |

COMMENTS:

Course is at the North Area Specialty Clinic.

COURSE DESCRIPTION:

Selective is held at a university-affiliated private dermatology practice, and you will have the opportunity to participate in the care of a broad spectrum of patients in both the pediatric and adult age groups.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Conduct a complete skin exam.
2. Establish a differential diagnosis for a cutaneous tumor.
3. Recognize common inflammatory dermatoses.
4. Determine the appropriate diagnostic procedure to provide information for a definitive diagnosis (punch biopsy vs. shave biopsy vs. excision vs. laboratory testing).
5. Make a decision on initiation of therapy for common dermatoses.

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. Observation of performance of multiple skin exams by an attending dermatologist with progression to student performance of the exam.
2. Assistance at the performance of dermatologic procedures.
3. Discussion with the attending dermatologist to reach a treatment decision.
4. Attendance at department conferences.

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

1. Non-Melanoma Skin Cancers - 20
2. Acne - 10
3. Psoriasis - 5
4. Atopic Dermatitis - 5
5. Dermatophyte Infections - 5

EVALUATION / FEEDBACK METHODS:

1. Attending assessment of performance during clinical encounters (patient care)
2. Observation of the performance of a complete skin exam with grading on a clinical skills template (patient care & medical knowledge)
3. Performance on a written exam at the end of the rotation (medical knowledge)

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

EMED 895J**Emergency Medicine****Course Director(s):**

Simon Watson, MD

Course Coordinator:

Rob Chisholm

876-8023

chisholr@muscc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | |
|--------------------|--|--------------------|--|--------------------|--|--------------------|--|
| Block 1 (3 wks) | <input type="checkbox"/> July 2 - July 20 <input type="checkbox"/> July 23 - Aug 10 | Block 3 (3 wks) | <input type="checkbox"/> Sept 24 - Oct 12 <input type="checkbox"/> Oct 15 - Nov 2 | Block 5 (3 wks) | <input checked="" type="checkbox"/> 5 Jan 2 - Jan 18 <input checked="" type="checkbox"/> 5 Jan 21 - Feb 8 | Block 7 (3 wks) | <input checked="" type="checkbox"/> 5 Mar 25 - Apr 12 <input checked="" type="checkbox"/> 5 Apr 15 - May 3 |
| Block 2 (3 wks) | <input type="checkbox"/> Aug 13 - Aug 31 <input type="checkbox"/> Sept 3 - Sept 21 | Block 4 (3 wks) | <input type="checkbox"/> Nov 5 - Nov 23 <input type="checkbox"/> Nov 26 - Dec 14 | Block 6 (3 wks) | <input checked="" type="checkbox"/> 5 Feb 11 - Mar 1 <input checked="" type="checkbox"/> 5 Mar 4 - Mar 22 | Block 8 (3 wks) | <input checked="" type="checkbox"/> 5 May 6 - May 24 <input checked="" type="checkbox"/> 5 May 27 - June 14 |

COMMENTS:**COURSE DESCRIPTION:**

The course consists of 9-hour shifts in the Emergency Department (ED). Approximately 10-12 shifts will be offered. During each shift, the student will interact and learn how to perform an expeditious and focused history and physical. 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 student will also have opportunities to learn procedural skills, such as laceration repair, incision and drainage of abscesses, obtaining intravenous access, and others.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

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

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. Involvement in direct patient interaction (e.g., conducting history & physical examinations).
2. Reading and interpreting x-rays with the ED attending.
3. Participation in group discussions (e.g., bedside teaching).
4. Attendance at and participation in class room teaching sessions.
5. Learning and practicing procedures under ED attending supervision.
6. Completion of a multiple choice question test to enhance knowledge.
7. Completion of a topic assignment for study.

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

1. Patients with chest pain - 2
2. Patients with abdominal pain - 2
3. Patients with any type of trauma - 2
4. Patient with altered mental state - 1
5. Procedures - 2

EVALUATION / FEEDBACK METHODS:

1. Direct observation of clinical and patient care skills as evaluated by the ED attending physician. (Medical Knowledge, Patient Care, Professionalism, Interpersonal/Communication Skills)
2. Ability to follow the patient through the course of the Emergency Department which could include consultations, an admission or a discharge from the ED. (Professionalism, Interpersonal/Communication Skills, Practice-Based and Life- Long Learning, and System-Based Learning)
3. Participation (questions and answers) in group discussion as evaluated by the ED attending physician. (Medical Knowledge, Patient Care, Professionalism, Interpersonal/Communication Skills, Practice-Based and Life- Long Learning, and System-Based Learning)
4. Performance on the multiple choice exam which will be incorporated into the final grade. (Medical Knowledge)
5. Active participation in the weekly EM didactic sessions. (Medical Knowledge, Professionalism, Interpersonal/Communication Skills, Practice-Based and Life- Long Learning, and System-Based Learning)

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

FAMMD 880J**Inpatient Family Medicine****Course Director(s):**

Peter J. Carek, MD

Course Coordinator:

Karen Turner

876-7081

turnerk@musc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | | | | | | | | | |
|--------------------|----------------------------|-------------------------------------|------------------|--------------------|----------------------------|-------------------------------------|------------------|--------------------|----------------------------|-------------------------------------|----------------|--------------------|----------------------------|-------------------------------------|------------------|
| Block 1 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | July 2 - July 20 | Block 3 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Sept 24 - Oct 12 | Block 5 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Jan 2 - Jan 18 | Block 7 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Mar 25 - Apr 12 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | July 23 - Aug 10 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Oct 15 - Nov 2 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Jan 21 - Feb 8 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Apr 15 - May 3 |
| Block 2 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Aug 13 - Aug 31 | Block 4 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Nov 5 - Nov 23 | Block 6 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Feb 11 - Mar 1 | Block 8 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | May 6 - May 24 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Sept 3 - Sept 21 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Nov 26 - Dec 14 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Mar 4 - Mar 22 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | May 27 - June 14 |

COMMENTS:

This rotation is at Trident Hospital. Please contact Sara Frampton in the Dean's Office to get credentialed.

COURSE DESCRIPTION:

This elective is structured to provide the student an inpatient experience consistent with the practice of community family medicine physicians. Based on the common discharge diagnoses, the Inpatient Service is able to provide a comprehensive educational experience for a fourth year student.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Gather information through interview, physical examination, and laboratory/radiology studies to assess patients admitted to hospital.
2. Use Evidence Based Medicine resources appropriately in the care of hospitalized patients.
3. Recommend appropriate management for hospitalized patients.

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. Conduct interviews and physical examinations of patients admitted to the hospital on the Family Medicine service at Trident Hospital.
2. Write the admission history and physical examination, and subsequent progress notes for assigned patients.
3. Recommend orders for care of assigned patients.
4. Ensure complete and timely care of assigned patients.

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

1. Congestive heart failure - 3
2. Chronic obstructive pulmonary disease - 3
3. Stroke - 1
4. Pneumonia - 2
5. Multi-system organ failure - 1
6. Gastrointestinal bleeding - 1
7. Pyelonephritis - 1
8. Cellulitis - 1

EVALUATION / FEEDBACK METHODS:

1. Observation of clinical skills and knowledge by the attending (medical knowledge and patient care)

CALL:

Will students be expected to participate in call? YES

If yes, please describe the call schedule/frequency:

every 4-5 nights

MED 820J**Outpatient Allergy & Immunology****Course Director(s):**

John Ramey, MD

Course Coordinator:

John Ramey

729-2374

jtramey@yahoo.com

| Student Limit | | Student Limit | | Student Limit | | Student Limit | | | | | |
|--------------------|----------------------------|--|--------------------|----------------------------|--|--------------------|----------------------------|--|--------------------|----------------------------|--|
| Block 1 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> July 2 - July 20 | Block 3 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Sept 24 - Oct 12 | Block 5 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Jan 2 - Jan 18 | Block 7 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Mar 25 - Apr 12 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> July 23 - Aug 10 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Oct 15 - Nov 2 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Jan 21 - Feb 8 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Apr 15 - May 3 |
| Block 2 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Aug 13 - Aug 31 | Block 4 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Nov 5 - Nov 23 | Block 6 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Feb 11 - Mar 1 | Block 8 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> May 6 - May 24 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Sept 3 - Sept 21 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Nov 26 - Dec 14 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Mar 4 - Mar 22 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> May 27 - June 14 |

COMMENTS:

Please contact Dr. Ramey one week prior to the rotation for schedule and details.

COURSE DESCRIPTION:

Students will see both ADULT and PEDIATRIC patients 5 days a week in our outpatient offices. Students will learn about asthma, allergic skin diseases, food allergies, insect allergies, and immune deficiencies. They will also learn about the economics of an outpatient office.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Diagnosis and treat allergic and non-allergic rhinitis
2. Understand indications for skin testing and immunotherapy
3. Diagnosis and treat asthma
4. Diagnosis and treat atopic dermatitis and urticaria
5. Diagnosis and treat chronic sinusitis

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. 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:

1. Direct observation by physician
2. Written Examination (Medical Knowledge)
3. Clinical Evaluation Form (Patient Care and Professionalism)
4. Interaction with patients (Patient care)
5. Staff interaction (Professionalism and interpersonal skills)

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

MED 823J**Hematology Coagulation Disorder****Course Director(s):**

Larry Afrin, MD

Charles Greenberg, MD

Course Coordinator:

Mary Ann Snell

792-7282

snellma@muscc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | |
|--------------------|---|-------------------------------------|------------------|--------------------|---|-------------------------------------|------------------|
| Block 1 (3 wks) | 2 | <input checked="" type="checkbox"/> | July 2 - July 20 | Block 3 (3 wks) | 2 | <input checked="" type="checkbox"/> | Sept 24 - Oct 12 |
| | 2 | <input checked="" type="checkbox"/> | July 23 - Aug 10 | | 2 | <input checked="" type="checkbox"/> | Oct 15 - Nov 2 |
| Block 2 (3 wks) | 2 | <input checked="" type="checkbox"/> | Aug 13 - Aug 31 | Block 4 (3 wks) | 2 | <input checked="" type="checkbox"/> | Nov 5 - Nov 23 |
| | 2 | <input checked="" type="checkbox"/> | Sept 3 - Sept 21 | | 2 | <input checked="" type="checkbox"/> | Nov 26 - Dec 14 |
| Block 5 (3 wks) | 2 | <input checked="" type="checkbox"/> | Jan 2 - Jan 18 | Block 6 (3 wks) | 2 | <input checked="" type="checkbox"/> | Feb 11 - Mar 1 |
| | 2 | <input checked="" type="checkbox"/> | Jan 21 - Feb 8 | | 2 | <input checked="" type="checkbox"/> | Mar 4 - Mar 22 |
| Block 7 (3 wks) | 2 | <input checked="" type="checkbox"/> | Mar 25 - Apr 12 | Block 8 (3 wks) | 2 | <input checked="" type="checkbox"/> | May 6 - May 24 |
| | 2 | <input checked="" type="checkbox"/> | Apr 15 - May 3 | | 2 | <input checked="" type="checkbox"/> | May 27 - June 14 |

COMMENTS:**COURSE DESCRIPTION:**

This course introduces the student to the general approach to diagnosis and management of common coagulation disorders. The student will have the opportunity to see new and existing inpatients and/or outpatients with such disorders, acquire the skills needed to take specialty-appropriate histories and perform specialty-appropriate physical exams in such patients, and formulate specialty-appropriate assessments and management plans. The student will also have the opportunity to attend didactic opportunities provided by the Division of Hematology/Oncology. The student's learning will be guided by faculty attending physicians and fellows in the Division of Hematology/Oncology.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Understand, discuss, diagnose and treat common congenital and acquired bleeding disorders.
2. Provide safe and effective anti-thrombotic therapy using heparin, low molecular weight heparin, warfarin, dabigatran, and direct thrombin inhibitors.
3. Understand, discuss, diagnose and treat common thrombotic disorders including DVT and arterial thrombosis.
4. Use peripheral blood smears and clinical laboratory tests to diagnose common disorders of red blood cells, platelets, and white blood cells.

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 2 half-day clinics and complete outpatient evaluation of one new patient and one follow-up patient each clinic.
2. Make afternoon rounds with clinical Coagulation Consult service. Perform at least 3 new consult evaluations per week and 5 follow-up evaluations of patients referred to this service.
3. Attend weekly coagulation consult service. Complete one case presentation and evidence-based approach to diagnosis and treatment of a patient case seen every two weeks.
4. Attend monthly coagulation/pharmacy rounds.
5. Conduct evidence- and web-based literature search on select case management issues.

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

1. 2 new and 2 return outpatient evaluations each week.
2. 3 new inpatient evaluations per week.
3. 5 follow-up evaluations of inpatient consults per week.
4. Congenital & acquired bleeding d/o, dvt, & arterial thrombosis

EVALUATION / FEEDBACK METHODS:

1. Direct observation of patient care skills by the attending physician, fellows, and residents on service (medical knowledge, patient care, professionalism, interpersonal/communication skills).
2. The students will give their attending a mid-point evaluation form half way through the selective in order to be assessed on their performance (all 5 competencies).
3. 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 (all 5 competencies).
4. Pre- and post-rotation online quiz will assist in identifying areas that are well understood and those that could improve with further study.

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

MED 858J**Gastroenterology****Course Director(s):**

Larry Comerford, MD

Course Coordinator:

Mary Ann Snell

792-7282

snellma@muscc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | |
|--------------------|---|-------------------------------------|------------------|--------------------|---|-------------------------------------|------------------|
| Block 1 (3 wks) | 2 | <input checked="" type="checkbox"/> | July 2 - July 20 | Block 3 (3 wks) | 2 | <input checked="" type="checkbox"/> | Sept 24 - Oct 12 |
| | 2 | <input checked="" type="checkbox"/> | July 23 - Aug 10 | | 2 | <input checked="" type="checkbox"/> | Oct 15 - Nov 2 |
| Block 2 (3 wks) | 2 | <input checked="" type="checkbox"/> | Aug 13 - Aug 31 | Block 4 (3 wks) | 2 | <input checked="" type="checkbox"/> | Nov 5 - Nov 23 |
| | 2 | <input checked="" type="checkbox"/> | Sept 3 - Sept 21 | | 2 | <input checked="" type="checkbox"/> | Nov 26 - Dec 14 |
| Block 5 (3 wks) | 2 | <input checked="" type="checkbox"/> | Jan 2 - Jan 18 | Block 6 (3 wks) | 2 | <input checked="" type="checkbox"/> | Feb 11 - Mar 1 |
| | 2 | <input checked="" type="checkbox"/> | Jan 21 - Feb 8 | | 2 | <input checked="" type="checkbox"/> | Mar 4 - Mar 22 |
| Block 7 (3 wks) | 2 | <input checked="" type="checkbox"/> | Mar 25 - Apr 12 | Block 8 (3 wks) | 2 | <input checked="" type="checkbox"/> | May 6 - May 24 |
| | 2 | <input checked="" type="checkbox"/> | Apr 15 - May 3 | | 2 | <input checked="" type="checkbox"/> | May 27 - June 14 |

COMMENTS:**COURSE DESCRIPTION:**

The course is designed to expose 3rd year medical students to the diagnosis and management of inpatients with digestive diseases. As a member of the inpatient team, students will work up patients on admission and follow them throughout their hospital stay; additionally, students may also perform inpatient GI consultations. Bedside teaching as well as formal didactic conferences will be provided.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Properly interview a patient being admitted to GI service to obtain a complete medical history as well as perform a comprehensive physical examination.
2. Document and present admission patient data gathered from patient interview, physical examination, tests along with differential diagnosis and proposed treatment plan.
3. Pre-round on inpatients and document a thorough daily progress note.
4. Be familiar with diagnostic and therapeutic studies and when to incorporate them in patient management including lab tests, radiological, and endoscopic evaluations.
5. Demonstrate professional interpersonal and communication skills in interactions with patients, family members, health care team, and staff. Demonstrate professional demeanor and ethical behavior.

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. Attendance and participation at daily inpatient rounds.
2. Participation in patient care as supervised by the attending physician, fellow, and medicine residents on the service.
3. Work up a minimum of 2 new patients and follow a minimum of 3 patients on the service each week.
4. Attend regularly scheduled Medicine and GI didactic conferences (GI Fellows Conference, GI Luminal Pathology Conference, GI Research and Pancreas-Biliary Conference, GI Tumor Board, Medicine Grand Rounds, Medicine Morning Report).
5. Observe GI procedures (colonoscopy, EGD, ERCP, small bowel endocapsule, motility studies, etc.).

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

1. inflammatory bowel disease (Crohn's disease and ulcerative colitis)
2. biliary – pancreas disorders
3. abdominal pain
4. gastrointestinal bleeding
5. functional gastrointestinal disorder

EVALUATION / FEEDBACK METHODS:

1. Direct observation of patient care skills by the attending physician, fellows, and residents on service (medical knowledge, patient care, professionalism, interpersonal/communication skills).
2. The students will give their attending a mid-point evaluation form half way through the selective in order to be assessed on their performance (all 5 competencies).
3. 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 (all 5 competencies).

CALL:

Will students be expected to participate in call? YES

If yes, please describe the call schedule/frequency:

Students will stay until nine pm three times during the rotation in order to understand after hours activities that happen on the service.

MED 881J**Pulmonary Medicine Inpatient Service****Course Director(s):**

Antine Stenbit, MD, PhD

Course Coordinator:

Mary Ann Snell

792-7282

snellma@muscc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | |
|--------------------|---|-------------------------------------|------------------|--------------------|---|-------------------------------------|------------------|
| Block 1 (3 wks) | 2 | <input checked="" type="checkbox"/> | July 2 - July 20 | Block 3 (3 wks) | 2 | <input checked="" type="checkbox"/> | Sept 24 - Oct 12 |
| | 2 | <input checked="" type="checkbox"/> | July 23 - Aug 10 | | 2 | <input checked="" type="checkbox"/> | Oct 15 - Nov 2 |
| Block 2 (3 wks) | 2 | <input checked="" type="checkbox"/> | Aug 13 - Aug 31 | Block 4 (3 wks) | 2 | <input checked="" type="checkbox"/> | Nov 5 - Nov 23 |
| | 2 | <input checked="" type="checkbox"/> | Sept 3 - Sept 21 | | 2 | <input checked="" type="checkbox"/> | Nov 26 - Dec 14 |
| Block 5 (3 wks) | 2 | <input checked="" type="checkbox"/> | Jan 2 - Jan 18 | Block 6 (3 wks) | 2 | <input checked="" type="checkbox"/> | Feb 11 - Mar 1 |
| | 2 | <input checked="" type="checkbox"/> | Jan 21 - Feb 8 | | 2 | <input checked="" type="checkbox"/> | Mar 4 - Mar 22 |
| Block 7 (3 wks) | 2 | <input checked="" type="checkbox"/> | Mar 25 - Apr 12 | Block 8 (3 wks) | 2 | <input checked="" type="checkbox"/> | May 6 - May 24 |
| | 2 | <input checked="" type="checkbox"/> | Apr 15 - May 3 | | 2 | <input checked="" type="checkbox"/> | May 27 - June 14 |

COMMENTS:**COURSE DESCRIPTION:**

This course is designed to expose third year medical students to the common pulmonary disease that are seen in the in patient setting. The students will participate in the care of pulmonary patients on the pulmonary ward service, be exposed to common pulmonary procedures such as thorocentesis and bronchoscopy, and follow the patients through their hospitalization.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Demonstrate proper techniques for interviewing a patient to obtain a medical history, 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.
2. Present and document patient data gathered from patient interviews, physical examinations, and laboratory sources, including progress notes on patients, in standardized format.
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.
4. Apply knowledge of the pathophysiology, epidemiology, and natural history of diseases to the diagnosis and management of common patient conditions in Pulmonary Medicine.
5. Demonstrate effective and professional interpersonal and communication skills in interactions with patients, including an awareness of psychosocial factors related to patients' problems.

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. Attendance at in-hospital rounds services and other clinical activities.
2. Participation in patient care as supervised by the attending and residents on the service, including work up of a minimum of 2 new patients and following a minimum of 3 patients on the service each week.
3. Didactic lectures given by pulmonary attending, pulmonary fellow, internal medicine resident and interns.
4. Attendance at Pulmonary Clinical Conferences at noon on Mondays and Fridays and at Internal Medicine noon conferences Tuesday-Thursday.

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

1. Cystic fibrosis
2. Pulmonary hypertension
3. COPD
4. Asthma
5. Sarcoidosis
6. Interstitial lung diseases
7. Lung masses/nodules
8. Bronchiectasis
9. Pneumonia

EVALUATION / FEEDBACK METHODS:

1. Direct observation of patient care skills by the attending physician, fellows, and residents on service (medical knowledge, patient care, professionalism, interpersonal/communication skills).
2. The students will give their attending a mid-point evaluation form half way through the selective in order to be assessed on their performance (all 5 competencies).
3. 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 (all 5 competencies).

CALL:

Will students be expected to participate in call? YES

If yes, please describe the call schedule/frequency:

Students will stay until nine pm three times during the rotation in order to understand after hours activities that happen on the service.

MED 890J

Oncology Ward

Course Director(s):

Larry Afrin, MD

Course Coordinator:

Mary Ann Snell

792-7282

snellma@muscc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | |
|--------------------|---|-------------------------------------|------------------|--------------------|---|-------------------------------------|------------------|
| Block 1 (3 wks) | 2 | <input checked="" type="checkbox"/> | July 2 - July 20 | Block 3 (3 wks) | 2 | <input checked="" type="checkbox"/> | Sept 24 - Oct 12 |
| | 2 | <input checked="" type="checkbox"/> | July 23 - Aug 10 | | 2 | <input checked="" type="checkbox"/> | Oct 15 - Nov 2 |
| Block 2 (3 wks) | 2 | <input checked="" type="checkbox"/> | Aug 13 - Aug 31 | Block 4 (3 wks) | 2 | <input checked="" type="checkbox"/> | Nov 5 - Nov 23 |
| | 2 | <input checked="" type="checkbox"/> | Sept 3 - Sept 21 | | 2 | <input checked="" type="checkbox"/> | Nov 26 - Dec 14 |
| Block 5 (3 wks) | 2 | <input checked="" type="checkbox"/> | Jan 2 - Jan 18 | Block 6 (3 wks) | 2 | <input checked="" type="checkbox"/> | Feb 11 - Mar 1 |
| | 2 | <input checked="" type="checkbox"/> | Jan 21 - Feb 8 | | 2 | <input checked="" type="checkbox"/> | Mar 4 - Mar 22 |
| Block 7 (3 wks) | 2 | <input checked="" type="checkbox"/> | Mar 25 - Apr 12 | Block 8 (3 wks) | 2 | <input checked="" type="checkbox"/> | May 6 - May 24 |
| | 2 | <input checked="" type="checkbox"/> | Apr 15 - May 3 | | 2 | <input checked="" type="checkbox"/> | May 27 - June 14 |

COMMENTS:**COURSE DESCRIPTION:**

This course introduces the student to the general approach to diagnosis and management of common oncologic disorders. The student will have the opportunity to see new and existing inpatients and/or outpatients with such disorders, acquire the skills needed to take specialty-appropriate histories and perform specialty-appropriate physical exams in such patients, and formulate specialty-appropriate assessments and management plans. The student will also have the opportunity to attend didactic opportunities provided by the Division of Hematology/Oncology. The student's learning will be guided by faculty attending physicians and fellows in the Division of Hematology/Oncology.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Demonstrate proper techniques for interviewing a patient to obtain an oncology-focused medical history and performing an oncology-focused physical examination in the inpatient setting.
2. Perform diagnostic and lab test interpretation skills commonly used in the inpatient oncology setting.
3. Apply knowledge of the pathophysiology, epidemiology, and natural history of diseases to the diagnosis and management of common patient conditions in oncology.
4. Demonstrate effective and professional interpersonal and communication skills in interactions with patients, including an awareness of psychosocial factors related to patients' problems.
5. Identify basic concepts of oncologic preventive health care, including patient education and appropriate age/sex/race-specific screening recommendations.

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 in inpatient activities of the MUH Oncology Service.
2. The student will see and follow patients assigned by the supervising attending physician and/or fellow and/or resident and present their findings and interpretations to the supervising physicians.
3. The student also will participate in all of the Division's standing educational conferences.

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

1. The student will be expected to carry at least 2 Oncology Service inpatients at all times during the selective.
2. Prostate cancer
3. Breast cancer
4. Sarcomas
5. Head and neck cancers
6. Colon cancer
7. Other solid tumors

EVALUATION / FEEDBACK METHODS:

1. Direct observation of patient care skills by the attending physician, fellows, and residents on service (medical knowledge, patient care, professionalism, interpersonal/communication skills).
2. The students will give their attending a mid-point evaluation form half way through the selective in order to be assessed on their performance (all 5 competencies).
3. 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 (all 5 competencies).
4. Highest marks will be reserved for students who demonstrate exceptional patient care skills as well as scholarly interests (e.g., preparing a full presentation about the underlying primary oncologic problem diagnosed in one of the student's inpatients).

CALL:

Will students be expected to participate in call? YES

If yes, please describe the call schedule/frequency:

The student will be expected to stay until 9 p.m. three times during the rotation in order to understand after hours activities that happen on the service.

MED 891J

Hepatology

Course Director(s):

David Koch, MD

Course Coordinator:

Mary Ann Snell

792-7282

snellma@muscc.edu

| Student Limit | Student Limit | Student Limit | Student Limit |
|--|--|--|---|
| Block 1 (3 wks) | Block 3 (3 wks) | Block 5 (3 wks) | Block 7 (3 wks) |
| <input type="checkbox"/> July 2 - July 20 <input type="checkbox"/> July 23 - Aug 10 | <input type="checkbox"/> Sept 24 - Oct 12 <input type="checkbox"/> Oct 15 - Nov 2 | <input type="checkbox"/> Jan 2 - Jan 18 <input type="checkbox"/> Jan 21 - Feb 8 | <input type="checkbox"/> Mar 25 - Apr 12 <input checked="" type="checkbox"/> Apr 15 - May 3 |
| Block 2 (3 wks) | Block 4 (3 wks) | Block 6 (3 wks) | Block 8 (3 wks) |
| <input type="checkbox"/> Aug 13 - Aug 31 <input type="checkbox"/> Sept 3 - Sept 21 | <input type="checkbox"/> Nov 5 - Nov 23 <input type="checkbox"/> Nov 26 - Dec 14 | <input type="checkbox"/> Feb 11 - Mar 1 <input type="checkbox"/> Mar 4 - Mar 22 | <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> May 6 - May 24 <input checked="" type="checkbox"/> May 27 - June 14 |

COMMENTS:**COURSE DESCRIPTION:**

The course is designed to expose 3rd year medical students to the diagnosis and management of inpatients and outpatients with liver diseases. As a member of the inpatient team, students will work up patients on admission and follow them throughout their hospital stay. Bedside teaching as well as formal didactic conferences will be provided.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Demonstrate proficiency in assessing patients with liver disease and understanding the components of the history and physical exam that are essential for managing these patients.
2. Understand the pathophysiology and management of complications that result from cirrhosis and portal hypertension, i.e. Variceal Bleeding, Encephalopathy, Ascites, Spontaneous Bacterial Peritonitis, Hepatopulmonary Syndrome, Portopulmonary Hypertension, Hepatorenal Syndrome, and Hepatocellular Carcinoma.
3. Gain an appreciation for timing of referral for liver transplant evaluation by assessing severity of liver disease and short term prognosis in patients with cirrhosis.
4. Observe the comprehensive evaluation required of patients undergoing consideration for liver transplantation and the selection process that occurs in determining a patients' potential candidacy.
5. Become familiar with immunosuppressive agents post-transplant, including their mechanism of action, common side effects, and toxicities.

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. Students will participate in the General Hepatology Clinics and Liver Transplant Clinics under the Attending supervision. In each clinic, students will be specifically responsible for assessing and formulating a management plan for the patients seen as an Initial Clinic Visit (ICV) in the respective clinics. Additionally, students will evaluate interesting patients seen in follow up in the clinics who require continued management of their liver disease.
2. Students will round with the Liver Attending on the inpatient Liver Service and hospital Liver Consults a minimum of 1 day per week.
3. Students will observe outpatient endoscopy, to learn the management of patients with esophageal varices, including prophylactic band ligation. If available, students will also observe the inpatient endoscopic management of acute upper GI portal hypertension bleeding.
4. Students will attend the following Hepatology Sectional didactic conferences: Monday afternoon GI Fellows' Conference, Tuesday Morning Medicine Grand Rounds, Tuesday afternoon Liver Biopsy Conference, Wednesday morning Liver Transplant Selection Committee Meeting, Wednesday afternoon Liver Tumor Board, and Medicine Morning Reports
5. Time permitting; students will observe a liver transplantation under the supervision of the transplant surgeons.

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

1. Ascites
2. Esophageal Varices
3. Hepatic Encephalopathy
4. Spontaneous Bacterial Peritonitis
5. Post-Liver Transplant
6. Hepatitis C
7. Alcoholic Liver Disease

EVALUATION / FEEDBACK METHODS:

1. Direct observation of patient care skills by the attending physician, fellows, and residents on service (medical knowledge, patient care, professionalism, interpersonal/communication skills).
2. The students will give their attending a mid-point evaluation form half way through the selective in order to be assessed on their performance (all 5 competencies).
3. 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 (all 5 competencies).

CALL:

Will students be expected to participate in call? YES

If yes, please describe the call schedule/frequency:

Students will stay until nine pm three times during the rotation in order to understand after hours activities that happen on the service.

MED 892J**Medicine Ambulatory Clinics****Course Director(s):**

Deborah DeWaay, MD

Course Coordinator:

Mary Ann Snell

792-7282

snellma@muscc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | | | | | |
|--------------------|----------------------------|--|--------------------|----------------------------|--|--------------------|----------------------------|--|--------------------|----------------------------|--|
| Block 1 (3 wks) | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> July 2 - July 20 | Block 3 (3 wks) | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> Sept 24 - Oct 12 | Block 5 (3 wks) | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> Jan 2 - Jan 18 | Block 7 (3 wks) | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> Mar 25 - Apr 12 |
| | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> July 23 - Aug 10 | | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> Oct 15 - Nov 2 | | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> Jan 21 - Feb 8 | | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> Apr 15 - May 3 |
| Block 2 (3 wks) | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> Aug 13 - Aug 31 | Block 4 (3 wks) | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> Nov 5 - Nov 23 | Block 6 (3 wks) | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> Feb 11 - Mar 1 | Block 8 (3 wks) | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> May 6 - May 24 |
| | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> Sept 3 - Sept 21 | | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> Nov 26 - Dec 14 | | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> Mar 4 - Mar 22 | | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> May 27 - June 14 |

COMMENTS:**COURSE DESCRIPTION:**

Students are assigned to an outpatient general Internal Medicine clinic at University Internal Medicine, the VAH, or in the community. There they will see patients with their physician for assessment of acute and chronic conditions.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Demonstrate proper techniques for interviewing a patient to obtain a medical history and performing a physical examination in the ambulatory clinical setting.
2. Formulate a comprehensive, ordered differential diagnosis.
3. Present and document patient data gathered from patient interviews, physical examinations, and laboratory sources in standardized format.
4. Apply knowledge of the pathophysiology, epidemiology, and natural history of diseases to the diagnosis and management of common patient conditions in Internal Medicine.
5. Identify basic concepts of preventive health care, including patient education, immunization, and appropriate age-specific screening recommendations.

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 in ambulatory clinic activities in a variety of local locations.
2. Participation in patient care as supervised by the attending and residents in clinics, including work up of a minimum of 1 new patient per ½ day clinic session.

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

1. Cardiology: hypertension, atrial fibrillation, hyperlipidemia
2. Endocrinology: diabetes
3. Infectious Disease: upper respiratory infection, pneumonia, cellulitis
4. Nephrology: chronic kidney disease
5. Pulmonary: COPD, asthma

EVALUATION / FEEDBACK METHODS:

1. Direct observation of patient care skills by the attending physician, fellows, and residents on service (medical knowledge, patient care, professionalism, interpersonal/communication skills).
2. The students will give their attending a mid-point evaluation form half way through the selective in order to be assessed on their performance (all 5 competencies).
3. 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 (all 5 competencies).

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

MED 894J**Subspecialty
Consults/Clinics/Conferences****Course Director(s):**

Deborah DeWaay, MD

Course Coordinator:

Mary Ann Snell

792-7282

snellma@muscc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | |
|--------------------|---|-------------------------------------|------------------|--------------------|---|-------------------------------------|------------------|
| Block 1 (3 wks) | 2 | <input checked="" type="checkbox"/> | July 2 - July 20 | Block 3 (3 wks) | 2 | <input checked="" type="checkbox"/> | Sept 24 - Oct 12 |
| | 2 | <input checked="" type="checkbox"/> | July 23 - Aug 10 | | 2 | <input checked="" type="checkbox"/> | Oct 15 - Nov 2 |
| Block 2 (3 wks) | 2 | <input checked="" type="checkbox"/> | Aug 13 - Aug 31 | Block 4 (3 wks) | 2 | <input checked="" type="checkbox"/> | Nov 5 - Nov 23 |
| | 2 | <input checked="" type="checkbox"/> | Sept 3 - Sept 21 | | 2 | <input checked="" type="checkbox"/> | Nov 26 - Dec 14 |
| Block 5 (3 wks) | 2 | <input checked="" type="checkbox"/> | Jan 2 - Jan 18 | Block 6 (3 wks) | 2 | <input checked="" type="checkbox"/> | Feb 11 - Mar 1 |
| | 2 | <input checked="" type="checkbox"/> | Jan 21 - Feb 8 | | 2 | <input checked="" type="checkbox"/> | Mar 4 - Mar 22 |
| Block 7 (3 wks) | 2 | <input checked="" type="checkbox"/> | Mar 25 - Apr 12 | Block 8 (3 wks) | 2 | <input checked="" type="checkbox"/> | May 6 - May 24 |
| | 2 | <input checked="" type="checkbox"/> | Apr 15 - May 3 | | 2 | <input checked="" type="checkbox"/> | May 27 - June 14 |

COMMENTS:

This rotation is totally contingent on the number of seniors that are already assigned to the subspecialty. Students may need to rotate on a ward service if all consult spots are full. Students may also be rotating over at the VA for clinic each week so needs to be current with their VA login and codes.

COURSE DESCRIPTION:

In this course the student will learn how to be a consultant within an area of subspecialty Internal Medicine. They will be assigned to a particular subspecialty and attend clinics and round on their consult service. Students will be active participants in patient care.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Demonstrate proper techniques for interviewing a patient to obtain a medical history and performing a physical examination in the inpatient setting.
2. Demonstrate analysis, synthesis, and integration of pertinent patient data.
3. Formulate a comprehensive, ordered differential diagnosis.
4. Present and document patient data gathered from patient interviews, physical examinations, and laboratory sources, including progress notes on patients, in standardized format.
5. Apply knowledge of the pathophysiology, epidemiology, and natural history of diseases to the diagnosis and management of common patient conditions in Internal Medicine.

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. Attendance at in-hospital consult rounds, clinics, and other clinical activities.
2. Participation in patient care as supervised by the attending and residents on the service, including work up of a minimum of 2 new patients and following a minimum of 3 patients on the service each week.
3. Attendance at noon conferences and/or any conference supplied by the division.

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

Students will be assigned to one of the following areas of Internal Medicine: cardiology, endocrinology, gastroenterology, general internal medicine, hematology/oncology, infectious disease, nephrology, pulmonary or rheumatology. The type of patients seen depends upon the division to which they are assigned. They will be in clinic or on consults (or a combination of the two) based upon the area and the specific diseases the students see depends on their assignment.

EVALUATION / FEEDBACK METHODS:

1. Direct observation of patient care skills by the attending physician, fellows, and residents on service (medical knowledge, patient care, professionalism, interpersonal/communication skills).
2. The students will give their attending a mid-point evaluation form half way through the selective in order to be assessed on their performance (all 5 competencies).
3. 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 (all 5 competencies).

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

MED 896J**Cardiology Clinic****Course Director(s):**

Valerian Fernandes, MD

Course Coordinator:

Mary Ann Snell

792-7282

snellma@musc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | | | | | |
|--------------------|----------------------------|--|--------------------|----------------------------|--|--------------------|----------------------------|--|--------------------|----------------------------|--|
| Block 1 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> July 2 - July 20 | Block 3 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Sept 24 - Oct 12 | Block 5 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Jan 2 - Jan 18 | Block 7 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Mar 25 - Apr 12 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> July 23 - Aug 10 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Oct 15 - Nov 2 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Jan 21 - Feb 8 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Apr 15 - May 3 |
| Block 2 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Aug 13 - Aug 31 | Block 4 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Nov 5 - Nov 23 | Block 6 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Feb 11 - Mar 1 | Block 8 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> May 6 - May 24 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Sept 3 - Sept 21 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Nov 26 - Dec 14 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Mar 4 - Mar 22 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> May 27 - June 14 |

COMMENTS:

This rotation is very self-directed and requires students to be self-directed in their learning.

COURSE DESCRIPTION:

Students will see patients in the cardiology clinic. There they will practice their history taking and cardiac physical exam skills. They will also be exposed to EKGs, echocardiograms, and nuclear stress tests.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Take a good cardiac history and understand cardiac risk factors.
2. Perform a complete cardiovascular examination.
3. Use EKGs, ECHO and stress testing appropriately – in working up cardiac disorders.
4. Get familiar and comfortable with basic cardiac oral medications.
5. Evaluate cardiac risk factors and modify them appropriately- as per guidelines.

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. Students will evaluate Clinic patients under Attending supervision. They will take a detailed history of new patients. Cardiovascular examination skills will be imparted to the students at the bedside. Return visit patients will be followed along with the attending. Any interesting findings or EKGs will be brought to their attention.
2. Students will assist the nurses in obtaining vitals thereby learning how to assess pulse, BP, respiration and temperature.
3. Students will also assist with performing an EKG and in its interpretation on their own patients, accompany and observe Echocardiography and Exercise stress testing on their patients, and learn how to hook up Holter and Event Monitors.
4. Students will attend some morning reports. They will also be expected to attend all cardiology AM conferences during the rotation. After the morning conferences they will report to their clinic.
5. This rotation is very self-directed and requires students to be self-directed in their learning.

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- (DM, HTN, Hyperlipidemia, Smoking)

EVALUATION / FEEDBACK METHODS:

1. Direct observation of patient care skills by the attending physician, fellows, and residents on service (medical knowledge, patient care, professionalism, interpersonal/communication skills).
2. The students will give their attending a mid-point evaluation form half way through the selective in order to be assessed on their performance (all 5 competencies).
3. 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 (all 5 competencies).

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

MED 897J**Electrocardiography (EKG)****Course Director(s):**

Valerian Fernandes, MD

Course Coordinator:

Mary Ann Snell

792-7282

snellma@musc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | | | | | |
|--------------------|----------------------------|--|--------------------|----------------------------|--|--------------------|----------------------------|--|--------------------|----------------------------|--|
| Block 1 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> July 2 - July 20 | Block 3 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Sept 24 - Oct 12 | Block 5 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Jan 2 - Jan 18 | Block 7 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Mar 25 - Apr 12 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> July 23 - Aug 10 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Oct 15 - Nov 2 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Jan 21 - Feb 8 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Apr 15 - May 3 |
| Block 2 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Aug 13 - Aug 31 | Block 4 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Nov 5 - Nov 23 | Block 6 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Feb 11 - Mar 1 | Block 8 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> May 6 - May 24 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Sept 3 - Sept 21 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Nov 26 - Dec 14 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Mar 4 - Mar 22 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> May 27 - June 14 |

COMMENTS:

Students will be assigned to the VAH so must be current with VA logins and codes before starting this rotation. This rotation is very self-directed and requires students to be self-directed in their learning.

COURSE DESCRIPTION:

This course will teach the students all aspects of EKGs from how to obtain an EKG to how to interpret them.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Position leads and do an EKG.
2. Appreciate waves and intervals on an EKG.
3. Appreciate basic rhythms on EKG and have a general idea about treating common rhythm disorders.
4. Identify ST segment alterations on an EKG and know the differential diagnosis for the abnormality.
5. Know the basic treatments for ST segment elevation MI (STEMI) and non ST segment elevation MI (NSTEMI).

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. Students will do a few elective EKGs daily with the technician. They will position leads appropriately and do EKGs and troubleshoot the EKG machine. They will also be taught to identify EKG waves and intervals.
2. EKG didactic teaching will be done 1 day/ week at each site. They will be advised about self-learning EKG modules.
3. Students will attend morning report and (if time permits) show and briefly highlight 1-2 interesting EKGs at the morning report. They will also be expected to attend all cardiology AM conferences during the rotation.
4. They will attend the VA cardiology clinic on Tuesdays (half day) and evaluate patients and their EKGs in an ambulatory setting. They will attend one half day clinic per week at MUSC in RT-6 cardiology clinic.
5. They will learn about the basic pharmacology and applications of Adenosine, Dioxin, beta blockers, calcium channel blockers and Class1-4 Antiarrhythmic drugs.
6. This rotation is very self-directed and requires students to be self-directed in their learning.

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

1. STEMI
2. NSTEMI
3. Atrial Fibrillation/Atrial Flutter
4. Other arrhythmias

EVALUATION / FEEDBACK METHODS:

1. Direct observation of patient care skills by the attending physician, fellows, and residents on service (medical knowledge, patient care, professionalism, interpersonal/communication skills).
2. The students will give their attending a mid-point evaluation form half way through the selective in order to be assessed on their performance (all 5 competencies).
3. 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 (all 5 competencies).
4. EKG interpretive skills will be evaluated on an ongoing basis by the fellows and attendings (medical knowledge).
5. Management of patients based on EKG interpretation will also be evaluated on an ongoing basis by the fellows and attendings (patient care).
6. Their competency and professionalism in doing elective EKGs will be assessed by the supervising technician/ nurse and attending (professionalism).
7. Weekly reading home assignments will be given and assessed regularly (medical knowledge).
8. Students will be expected to keep a log of their EKG readings and will be encouraged to make a personal library of interesting EKG tracings.

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

MED 898J**Diabetology****Course Director(s):**

Beatrice Hull, MD

Course Coordinator:

Mary Ann Snell

792-7282

snellma@musc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | |
|--------------------|---|-------------------------------------|------------------|--------------------|---|-------------------------------------|------------------|
| Block 1 (3 wks) | 1 | <input checked="" type="checkbox"/> | July 2 - July 20 | Block 3 (3 wks) | 1 | <input checked="" type="checkbox"/> | Sept 24 - Oct 12 |
| | 1 | <input checked="" type="checkbox"/> | July 23 - Aug 10 | | 1 | <input checked="" type="checkbox"/> | Oct 15 - Nov 2 |
| Block 2 (3 wks) | 1 | <input checked="" type="checkbox"/> | Aug 13 - Aug 31 | Block 4 (3 wks) | 1 | <input checked="" type="checkbox"/> | Nov 5 - Nov 23 |
| | 1 | <input checked="" type="checkbox"/> | Sept 3 - Sept 21 | | 1 | <input checked="" type="checkbox"/> | Nov 26 - Dec 14 |
| Block 5 (3 wks) | 1 | <input checked="" type="checkbox"/> | Jan 2 - Jan 18 | Block 6 (3 wks) | 1 | <input checked="" type="checkbox"/> | Feb 11 - Mar 1 |
| | 1 | <input checked="" type="checkbox"/> | Jan 21 - Feb 8 | | 1 | <input checked="" type="checkbox"/> | Mar 4 - Mar 22 |
| Block 7 (3 wks) | 1 | <input checked="" type="checkbox"/> | Mar 25 - Apr 12 | Block 8 (3 wks) | 1 | <input checked="" type="checkbox"/> | May 6 - May 24 |
| | 1 | <input checked="" type="checkbox"/> | Apr 15 - May 3 | | 1 | <input checked="" type="checkbox"/> | May 27 - June 14 |

COMMENTS:**COURSE DESCRIPTION:**

During this course a student is going to see patients with various forms of diabetes in inpatient and outpatient setting. A student will learn to take diabetes focus history and do physical exam. Furthermore, a student will learn the importance of appropriate glycemic control and will be able to understand the pharmacology of antidiabetic medications and insulin.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. To understand basic classification of diabetes: Type 1, Type 2, Latent autoimmune adult onset, gestational, etc.
2. Take and present diabetes-focused histories and physical exams regarding.
3. Understand pharmacology and use of oral diabetic medicines and insulin.
4. Understand the essentials of intensive insulin therapy, including insulin pump therapy and glycemic monitoring (fingerstick blood sugars, A1c, fructosamine).
5. Understand and assess for common diabetes complications: microvascular, macrovascular and hypoglycemia.

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. Rotate with Diabetes Management Service (DMS) and assist in assessing patients and participate in DMS rounds.
2. Participate in endocrine attending, IDEAL clinic, including interactions with diabetic educators and dietician.
3. Under attending supervision, participate in private endocrine clinics and assist in the assessment of patients with diabetes
4. Attend endocrine conferences (grand rounds, research conference and Journal club).
5. Students may tailor the consult/clinic ratio to their liking.

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

1. Type 1 diabetes - 5
2. Type 2 diabetes - 10
3. Inpatient glycemic management - 10
4. Insulin pump therapy - 3

EVALUATION / FEEDBACK METHODS:

1. Direct observation of patient care skills by the attending physician, fellows, and residents on service (medical knowledge, patient care, professionalism, interpersonal/communication skills)
2. The students will give their attending a mid-point evaluation form half way through the selective in order to be assessed on their performance (all 5 competencies)
3. The attending physicians will provide the students with a verbal evaluation at the end of the rotation as well as a formal electronic evaluation (all 5 competencies)

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

MED 899J

Neoplasia

Course Director(s):

Beatrice Hull, MD

Course Coordinator:

Mary Ann Snell

792-7282

snellma@musc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | |
|--------------------|--|--------------------|---|--------------------|---|--------------------|--|
| Block 1 (3 wks) | <input type="checkbox"/> July 2 - July 20 <input type="checkbox"/> July 23 - Aug 10 | Block 3 (3 wks) | <input type="checkbox"/> Sept 24 - Oct 12 <input type="checkbox"/> Oct 15 - Nov 2 | Block 5 (3 wks) | 1 <input checked="" type="checkbox"/> Jan 2 - Jan 18 <input type="checkbox"/> Jan 21 - Feb 8 | Block 7 (3 wks) | 1 <input checked="" type="checkbox"/> Mar 25 - Apr 12 1 <input checked="" type="checkbox"/> Apr 15 - May 3 |
| Block 2 (3 wks) | <input type="checkbox"/> Aug 13 - Aug 31 <input type="checkbox"/> Sept 3 - Sept 21 | Block 4 (3 wks) | 1 <input checked="" type="checkbox"/> Nov 5 - Nov 23 1 <input checked="" type="checkbox"/> Nov 26 - Dec 14 | Block 6 (3 wks) | <input type="checkbox"/> Feb 11 - Mar 1 <input type="checkbox"/> Mar 4 - Mar 22 | Block 8 (3 wks) | 2 <input checked="" type="checkbox"/> May 6 - May 24 2 <input checked="" type="checkbox"/> May 27 - June 14 |

COMMENTS:**COURSE DESCRIPTION:**

During this course a student is going to see patients with endocrine tumors. A student will learn to take a proper problem oriented history and do focused physical exam. A student will also learn diagnostic approach and treatment of various endocrine neoplasias.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Know and understand pathophysiology of common neoplastic disorders of the endocrine system (i.e. thyroid cancer, including post-surgical hypothyroidism and hypoparathyroidism and benign thyroid nodules; pituitary tumors and pituitary hypersecretory and deficiency syndromes; hyperparathyroidism; MEN syndromes).
2. Take and present endocrine-focused histories and physical exams regarding above disorders. Special focus given to learning proficiency in exam of thyroid.
3. Learn and discuss the basics of treatment and prognosis for more common endocrine tumors
4. Learn the appropriate use and interpretation diagnostic technologies commonly used in the care of patients with endocrine tumors: thyroid ultrasound, thyroid scan and uptake, 131-iodine whole body scans and therapy for thyroid cancer; CT and MRI imaging of adrenals and pituitary; nuclear imaging for pheochromocytoma and other endocrine tumors.

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. Students will participate in Endocrine Tumor Clinic.
2. Students will participate in Thyroid clinic.
3. Students will observe Thyroid ultrasounds and biopsies.
4. With supervision of inpatient endocrine fellow and attending, follow inpatients with endocrine neoplasia as primary consult diagnosis.
5. Attend endocrine conferences (grand rounds, research conference and Journal club).

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

1. Thyroid cancer - 2
2. Thyroid nodule - 5
3. Hyperparathyroidism - 2
4. Adrenal nodule/cancer - 1 - 2
5. Pituitary tumor - 2 - 5
6. Thyroid ultrasound/biopsy - 5

EVALUATION / FEEDBACK METHODS:

1. Direct observation of patient care skills by the attending physician, fellows, and residents on service (medical knowledge, patient care, professionalism, interpersonal/communication skills).
2. The students will give their attending a mid-point evaluation form half way through the selective in order to be assessed on their performance (all 5 competencies).
3. The attending physicians will provide the students with a verbal evaluation at the end of the rotation as well as a formal electronic evaluation (all 5 competencies).

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

MED 900J**Inpatient Cardiology****Course Director(s):**

Valerian Fernandes, MD

Course Coordinator:

Mary Ann Snell

792-7282

snellma@muscc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | |
|--------------------|---|-------------------------------------|------------------|--------------------|---|-------------------------------------|------------------|
| Block 1 (3 wks) | 6 | <input checked="" type="checkbox"/> | July 2 - July 20 | Block 3 (3 wks) | 6 | <input checked="" type="checkbox"/> | Sept 24 - Oct 12 |
| | 6 | <input checked="" type="checkbox"/> | July 23 - Aug 10 | | 6 | <input checked="" type="checkbox"/> | Oct 15 - Nov 2 |
| Block 2 (3 wks) | 6 | <input checked="" type="checkbox"/> | Aug 13 - Aug 31 | Block 4 (3 wks) | 6 | <input checked="" type="checkbox"/> | Nov 5 - Nov 23 |
| | 6 | <input checked="" type="checkbox"/> | Sept 3 - Sept 21 | | 6 | <input checked="" type="checkbox"/> | Nov 26 - Dec 14 |
| Block 5 (3 wks) | 6 | <input checked="" type="checkbox"/> | Jan 2 - Jan 18 | Block 6 (3 wks) | 6 | <input checked="" type="checkbox"/> | Feb 11 - Mar 1 |
| | 6 | <input checked="" type="checkbox"/> | Jan 21 - Feb 8 | | 6 | <input checked="" type="checkbox"/> | Mar 4 - Mar 22 |
| Block 7 (3 wks) | 6 | <input checked="" type="checkbox"/> | Mar 25 - Apr 12 | Block 8 (3 wks) | 6 | <input checked="" type="checkbox"/> | May 6 - May 24 |
| | 6 | <input checked="" type="checkbox"/> | Apr 15 - May 3 | | 6 | <input checked="" type="checkbox"/> | May 27 - June 14 |

COMMENTS:**COURSE DESCRIPTION:**

The student will be assigned to an inpatient cardiology ward team. 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. They will practice case presentations with the intern and resident prior to presenting to the attendings on morning rounds. Any interesting findings or EKGs will be brought to their attention.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Take a good cardiac history, understand and modify cardiac risk factors, complete cardiovascular system examination, get comfortable with work-up of patients admitted with cardiovascular diagnosis, get familiar and comfortable with cardiac medications.
2. Understand the use of lab tests, EKGs, ECHO, stress testing and cardiac invasive procedures in working up cardiac disorders.
3. Improve EKG interpretation skills.
4. Understand basic cardiac, coronary and electrophysiological anatomy along with basic cardiac hemodynamics.
5. Present new cases confidently, follow-up cases allotted and learn to work efficiently as a team member.
6. Develop skills in patient and family interaction.

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. Students will evaluate inpatients under the Attending or Resident/Fellow supervision.
2. Students will obtain vitals (pulse, BP, respiration and temperature) and also learn how to do and interpret an EKG on their patients.
3. Students will accompany their patients and observe Echocardiography and Exercise stress testing, cardiac catheterization /EP on their patients. They will also learn how to hook up Holter and Event Monitors. They will also review Telemetry records daily and get confident with rhythm assessment.
4. Students will attend morning report and (if time permits) briefly present an interesting inpatient case at the morning report. They will also be expected to attend all cardiology AM conferences during the rotation. After the morning conferences they will report to their resident.
5. They will participate in patient counseling and advise about risk factor modifications. They will participate with assessment of patients other social needs with the social workers and discharge planners.

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 (DM, HTN, Hyperlipidemia, Smoking)

EVALUATION / FEEDBACK METHODS:

1. Direct observation of patient care skills by the attending physician, fellows, and residents on service (medical knowledge, patient care, professionalism, interpersonal/communication skills).
2. The students will give their attending a mid-point evaluation form half way through the selective in order to be assessed on their performance (all 5 competencies).
3. 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 (all 5 competencies).
4. EKG interpretive skills will be evaluated on an ongoing basis by the attendings and resident/fellow (medical knowledge).

CALL:

Will students be expected to participate in call? YES

If yes, please describe the call schedule/frequency:

Students will stay until nine pm three times during the rotation in order to understand after hours activities that happen on the service.

MED 901J**Hematology Ward****Course Director(s):**

Larry Afrin, MD

Course Coordinator:

Mary Ann Snell

792-7282

snellma@muscc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | | | | | | | | | |
|--------------------|----------------------------|-------------------------------------|------------------|--------------------|----------------------------|-------------------------------------|------------------|--------------------|----------------------------|-------------------------------------|----------------|--------------------|----------------------------|-------------------------------------|------------------|
| Block 1 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> | July 2 - July 20 | Block 3 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> | Sept 24 - Oct 12 | Block 5 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> | Jan 2 - Jan 18 | Block 7 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> | Mar 25 - Apr 12 |
| | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> | July 23 - Aug 10 | | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> | Oct 15 - Nov 2 | | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> | Jan 21 - Feb 8 | | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> | Apr 15 - May 3 |
| Block 2 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> | Aug 13 - Aug 31 | Block 4 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> | Nov 5 - Nov 23 | Block 6 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> | Feb 11 - Mar 1 | Block 8 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> | May 6 - May 24 |
| | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> | Sept 3 - Sept 21 | | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> | Nov 26 - Dec 14 | | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> | Mar 4 - Mar 22 | | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> | May 27 - June 14 |

COMMENTS:**COURSE DESCRIPTION:**

This course introduces the student to the general approach to diagnosis and management of common hematologic disorders. The student will have the opportunity to see new and existing inpatients and/or outpatients with such disorders, acquire the skills needed to take specialty-appropriate histories and perform specialty-appropriate physical exams in such patients, and formulate specialty-appropriate assessments and management plans. The student will also have the opportunity to attend didactic opportunities provided by the Division of Hematology/Oncology. The student's learning will be guided by faculty attending physicians and fellows in the Division of Hematology/Oncology.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Demonstrate proper techniques across for interviewing a patient to obtain a hematology-focused medical history and performing a hematology-focused physical examination in the inpatient setting.
2. Demonstrate an understanding, through presentations on daily rounds, of the patient's primary disease process, how complications relate to causative factors, and how diagnostic test results should be interpreted and applied to the decision-making process.
3. Understand the standard approach for obtaining a bone marrow aspirate and biopsy and a peripheral blood smear, assessing their adequacy, and interpreting the specimens, including distinguishing normal from abnormal erythrocytes, leukocytes, and platelets.

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 in the full range of inpatient activities of the MUH Hematology Service.
2. The student will (A) perform the admission work-up of new patients assigned him by the supervising attending physician and/or fellow and/or resident; (B) continue on a daily basis to evaluate his assigned patients (through follow-on histories and physicals on a daily basis (or more often as appropriate) plus reviewing all diagnostic testing results); (C) present on a daily basis his findings and interpretations on his new and follow-up patients to the supervising physicians on rounds; (D) perform all appropriate written documentation on his assigned patients including filling out admission H&P forms, writing daily progress notes in the standard SOAP format, and writing orders and filling out associated test requisition forms (for co-signature by a supervising physician in accordance with hospital policy); and (E) perform necessary procedures suitable for his level of skill such as bone marrow aspirations and biopsies and lumbar punctures on his assigned patients under the supervision of the supervising physicians within the limits specified by hospital policy (e.g., a student may perform a lumbar puncture, but only a hematology/oncology fellow or attending may administer intrathecal chemotherapy after the student has obtained the initial fluid samples).
3. The student also will participate in all of the Division's standing educational conferences.

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

1. The student will carry at least 2 Hematology Service inpatients at all times during the selective.
2. No more than 1 new patient (admission) work-up per day will be required of the student.
3. Leukemia patients: acute lymphoblastic, acute myelogenous
4. Bone marrow transplant patients
5. Lymphoma

EVALUATION / FEEDBACK METHODS:

1. Direct observation of patient care skills by the attending physician, fellows, and residents on service (medical knowledge, patient care, professionalism, interpersonal/communication skills).
2. The students will give their attending a mid-point evaluation form half way through the selective in order to be assessed on their performance (all 5 competencies).
3. 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 (all 5 competencies).
4. Highest marks will be reserved for students who demonstrate exceptional patient care skills as well as scholarly interests (e.g., preparing a full presentation about the underlying primary oncologic problem diagnosed in one of the student's inpatients).

CALL:

Will students be expected to participate in call? YES

If yes, please describe the call schedule/frequency:

The student will be expected to stay until 9 p.m. three times during the rotation in order to understand after hours activities that happen on the service.

MED 995J**Nephrology Consult****Course Director(s):**

Rachel Sturdivant, MD

Course Coordinator:

Mary Ann Snell

792-7282

snellma@musc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | |
|--------------------|---|-------------------------------------|------------------|--------------------|---|-------------------------------------|------------------|
| Block 1 (3 wks) | 2 | <input checked="" type="checkbox"/> | July 2 - July 20 | Block 3 (3 wks) | 2 | <input checked="" type="checkbox"/> | Sept 24 - Oct 12 |
| | 2 | <input checked="" type="checkbox"/> | July 23 - Aug 10 | | 2 | <input checked="" type="checkbox"/> | Oct 15 - Nov 2 |
| Block 2 (3 wks) | 2 | <input checked="" type="checkbox"/> | Aug 13 - Aug 31 | Block 4 (3 wks) | 2 | <input checked="" type="checkbox"/> | Nov 5 - Nov 23 |
| | 2 | <input checked="" type="checkbox"/> | Sept 3 - Sept 21 | | 2 | <input checked="" type="checkbox"/> | Nov 26 - Dec 14 |
| Block 5 (3 wks) | 2 | <input checked="" type="checkbox"/> | Jan 2 - Jan 18 | Block 6 (3 wks) | 2 | <input checked="" type="checkbox"/> | Feb 11 - Mar 1 |
| | 2 | <input checked="" type="checkbox"/> | Jan 21 - Feb 8 | | 2 | <input checked="" type="checkbox"/> | Mar 4 - Mar 22 |
| Block 7 (3 wks) | 2 | <input checked="" type="checkbox"/> | Mar 25 - Apr 12 | Block 8 (3 wks) | 2 | <input checked="" type="checkbox"/> | May 6 - May 24 |
| | 2 | <input checked="" type="checkbox"/> | Apr 15 - May 3 | | 2 | <input checked="" type="checkbox"/> | May 27 - June 14 |

COMMENTS:

Students will rotate over at the VA Clinic weekly so must be current with VA logins and codes before starting this selective.

COURSE DESCRIPTION:

Students rotating on the Nephrology Jr. Consult Selective will care for patients with Acute Kidney Injury (AKI) 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, diagnosis and treatment of renal disease in the outpatient setting. Preparation for renal replacement therapy including dialysis and transplant in addition to the mechanics of dialysis will be emphasized.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Initiate an appropriate diagnostic evaluation for Acute Kidney Injury, interpret laboratory and radiological studies and synthesize a differential diagnosis.
2. Understand the indications for dialysis therapy and the mechanics of different modes of dialysis.
3. Evaluate and treat common electrolyte and acid base disorders.
4. Understand treatment rationales and medications used for hypertension.
5. Understand the public health significance of Chronic Kidney Disease and therapies to prevent progression and manage co-morbidities.

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. Students will evaluate patients both in hospital and in clinic and provide a written history and physical to the attending for feedback.
2. Students will 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.
3. Students will participate in team discussions and attending lectures both in hospital and in the clinic.
4. Students will attend nephrology lectures covering specific clinical topics, pathological review and recent journal articles.
5. Students will be expected to continue independent scholarly activity by reading journal articles and textbooks pertinent to their specific patients.

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

1. Acute Kidney Injury
2. Acute Glomerulonephritis
3. Electrolyte Disorders – hyponatremia, hypernatremia, hyperkalemia
4. Proteinuria with and without nephrotic syndrome
5. Acid Base Disturbances

EVALUATION / FEEDBACK METHODS:

1. Clinical Evaluation Form (MK, PC, P, IC, PBLI, SBL)
2. Completion of Urinalysis Laboratory Module (MK)
3. Graded History and Physical with Assessment and Plan (PC, P, IC, SBP)
4. Oral Presentation on a topic of your choice to your team. (MK, IC, PBLI)

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

MED 996J**Nephrology Ambulatory****Course Director(s):**

Rachel Sturdivant, MD

Course Coordinator:

Mary Ann Snell

792-7282

snellma@muscc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | |
|--------------------|---|-------------------------------------|------------------|--------------------|---|-------------------------------------|------------------|
| Block 1 (3 wks) | 1 | <input checked="" type="checkbox"/> | July 2 - July 20 | Block 3 (3 wks) | 1 | <input checked="" type="checkbox"/> | Sept 24 - Oct 12 |
| | 1 | <input checked="" type="checkbox"/> | July 23 - Aug 10 | | 1 | <input checked="" type="checkbox"/> | Oct 15 - Nov 2 |
| Block 2 (3 wks) | 1 | <input checked="" type="checkbox"/> | Aug 13 - Aug 31 | Block 4 (3 wks) | 1 | <input checked="" type="checkbox"/> | Nov 5 - Nov 23 |
| | 1 | <input checked="" type="checkbox"/> | Sept 3 - Sept 21 | | 1 | <input checked="" type="checkbox"/> | Nov 26 - Dec 14 |
| Block 5 (3 wks) | 1 | <input checked="" type="checkbox"/> | Jan 2 - Jan 18 | Block 6 (3 wks) | 1 | <input checked="" type="checkbox"/> | Feb 11 - Mar 1 |
| | 1 | <input checked="" type="checkbox"/> | Jan 21 - Feb 8 | | 1 | <input checked="" type="checkbox"/> | Mar 4 - Mar 22 |
| Block 7 (3 wks) | 1 | <input checked="" type="checkbox"/> | Mar 25 - Apr 12 | Block 8 (3 wks) | 1 | <input checked="" type="checkbox"/> | May 6 - May 24 |
| | 1 | <input checked="" type="checkbox"/> | Apr 15 - May 3 | | 1 | <input checked="" type="checkbox"/> | May 27 - June 14 |

COMMENTS:

Students will rotate over at the VA Clinic weekly so must be current with VA logins and codes before starting this selective.

COURSE DESCRIPTION:

Students selecting the Nephrology Ambulatory Selective will obtain dedicated outpatient experience in taking care of the Nephrology patient. Emphasis will be on the diagnosis and management of Chronic Kidney disease and its etiologies, participation in care of the renal transplant recipient and on understanding how to prepare the patient with CKD for renal replacement therapies.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Diagnose and effectively prescribe treatment for hypertension
2. Understand the assessment and quantification of proteinuria and perform an appropriate workup to evaluate for glomerular disease.
3. Understand Chronic Kidney Disease as a syndrome and learn the management of its many co-morbidities.
4. Learn how to prepare a patient for renal replacement therapy to include discussion of dialysis modality, access and renal transplantation.
5. Understand the care of the renal transplant recipient from transplant listing to organ placement with initial immunosuppression to long term follow-up.

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 nephrology, transplant, dialysis access, ultrasound and anemia clinics as required by the clinic schedule distributed at the beginning of the rotation. Attending physicians will review your patient workups and clinic notes.
2. Attend a renal transplant operation.
3. Attend nephrology lectures at noon where clinical cases, pathological material and evidence based literature will be presented.
4. Attend weekly dialysis rounds at the VA.
5. Independent reading to include relevant texts and journal articles.

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

1. Chronic Kidney Disease secondary to hypertension and diabetes including end stage renal disease.
2. Proteinuria secondary to multiple glomerular diseases including focal segmental glomerulosclerosis, membranous nephropathy and minimal change disease.
3. Acute glomerulonephritis, primarily lupus nephritis.
4. Renal transplant recipients
5. Treatment resistant hypertension.

EVALUATION / FEEDBACK METHODS:

1. Direct observation of patient workups and written history and physicals to be evaluated on the clinical evaluation form (MK, PC, P, IC, SBL)
2. Completion of the Urinalysis Laboratory Modules (MK)
3. Graded History and Physical with Assessment and Plan (PC, P, IC)
4. Oral Presentation on a topic of your choice (MK, PBLI)

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

NSCS 801J

General Inpatient Adult Neurology

Course Director(s):

Kenton Holden, MD

Course Coordinator:

Olivia Burch

792-3222

burchon@muscd.edu

| <u>Student Limit</u> | | <u>Student Limit</u> | | <u>Student Limit</u> | | <u>Student Limit</u> | | | | | |
|---------------------------|----------------------------|--|---------------------------|----------------------------|--|---------------------------|----------------------------|--|---------------------------|----------------------------|--|
| Block 1 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> July 2 - July 20 | Block 3 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Sept 24 - Oct 12 | Block 5 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Jan 2 - Jan 18 | Block 7 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Mar 25 - Apr 12 |
| | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> July 23 - Aug 10 | | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Oct 15 - Nov 2 | | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Jan 21 - Feb 8 | | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Apr 15 - May 3 |
| Block 2 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Aug 13 - Aug 31 | Block 4 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Nov 5 - Nov 23 | Block 6 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Feb 11 - Mar 1 | Block 8 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> May 6 - May 24 |
| | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Sept 3 - Sept 21 | | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Nov 26 - Dec 14 | | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Mar 4 - Mar 22 | | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> May 27 - June 14 |

COMMENTS:

The use of the Clinical Core Neurology Shelf Examination is for the purpose of familiarizing the student with the types of questions that WILL be asked about clinical neurology on the USMLE Step 2. Historically, neurology topics comprise 10-16% of the total examination questions on Step 2.

COURSE DESCRIPTION:

Students will have contact with inpatients on the General Neurology Service at MUH.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Develop effective one-on-one and/or group discussions.
2. Develop effective clinical assessment and judgment skills, including recognition of clinical presentations of symptoms that are clinically worrisome and patterns of abnormal findings that are diagnostically important, and distinguish between focal and generalization abnormalities.
3. Recognize symptoms that may reflect neurologic impairment
4. Discuss the use of diagnostic procedures, e. i.. MRI scan, CT scan, EEG, EMG/NCV, and neuropsychological testing, in patient care.
5. Discuss the use of treatment modalities, such as baclofen pump, vagus nerve stimulator, botox injections, in patient care.

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 with inpatients (MUH, VA), outpatients (MUH,VA), and consults (MUH, VA).
2. One-on-one and/or group discussions.
3. Directed reading and literature reviews on general and selected topics in the Neurosciences.
4. Attendance at Neurosciences Conferences.
5. Case presentations.

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

1. Adult neurology patient with movement disorders - 1
2. Adult neurology patient with dementia - 1
3. Adult neurology patient with epilepsy - 1
4. Adult neurology patient with headache - 1
5. Adult neurology patient with neuropathy/myopathy - 1

EVALUATION / FEEDBACK METHODS:

1. Observation of clinical skills and knowledge by Selective Director or his/her assigned Faculty Co-Director
2. Performance on the Clinical Core Neurology Shelf Examination

CALL:

Will students be expected to participate in call? YES

If yes, please describe the call schedule/frequency:

1-2 calls per 3 weeks selective rotation

NSCS 802J

General Neurological Surgery

Course Director(s):

Sunil J. Patel, MD

Course Coordinator:

Olivia Burch

792-3222

burchon@muscc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | | | | | |
|--------------------|----------------------------|--|--------------------|----------------------------|--|--------------------|----------------------------|--|--------------------|----------------------------|--|
| Block 1 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> July 2 - July 20 | Block 3 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Sept 24 - Oct 12 | Block 5 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Jan 2 - Jan 18 | Block 7 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Mar 25 - Apr 12 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> July 23 - Aug 10 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Oct 15 - Nov 2 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Jan 21 - Feb 8 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Apr 15 - May 3 |
| Block 2 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Aug 13 - Aug 31 | Block 4 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Nov 5 - Nov 23 | Block 6 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Feb 11 - Mar 1 | Block 8 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> May 6 - May 24 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Sept 3 - Sept 21 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Nov 26 - Dec 14 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Mar 4 - Mar 22 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> May 27 - June 14 |

COMMENTS:

The use of the Clinical Core Neurology Shelf Examination is for the purpose of familiarizing the student with the types of questions that WILL be asked about clinical neurology on the USMLE Step 2. Historically, neurology topics comprise 10-16% of the total examination questions on Step 2.

COURSE DESCRIPTION:

Students will have contact with inpatients on the General Neurosurgery Service at MUH and observation in the MUH Main OR.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Recognize clinical neurosurgical diagnoses and discuss their management issues in some of the most common neurosurgical disorders (subdural and epidural hematomas, head/spine trauma, hydrocephalus, AVM, etc.).
2. Perform a focused history and neurological exam for neurosurgical disorders.
3. Discuss basic neurosurgical approaches to common neurosurgical disorders, as well as the post-operative care and long-term management issues.
4. Understand the contributions and limitations of diagnostic imaging (CT, MRI) and neurophysiological testing (EEG, EMG/NCV) in patient assessments.
5. Discuss the non-surgical treatment of neurosurgical diagnoses and the common complications which might occur with/or without neurosurgical intervention.

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 with adults/children in ER, ICU, inpatients, outpatients, and the operating room (observe common neurosurgical procedures).
2. One-on-one and group/team discussions.
3. Directed reading on general and selected topics in the Neurosciences.
4. Attendance at Neurosciences Conferences.
5. Case presentations on selected/directed Neurosurgery topics per Selective Director prn.

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

1. Pediatric or adult patients with common neurosurgical issues, 3 of which were your patient in the OR (you scrubbed on their case) - 6

EVALUATION / FEEDBACK METHODS:

1. Observation of clinical skills and knowledge by Selective Director or his/her assigned Faculty Co-Director
2. Performance on the Clinical Core Neurology Shelf Examination

CALL:

Will students be expected to participate in call? YES

If yes, please describe the call schedule/frequency:

1-2 calls per 3 weeks selective rotation

NSCS 803J

General Pediatric Neurology

Course Director(s):

Rebecca Lehman, MD

Course Coordinator:

Olivia Burch

792-3222

burchon@muscc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | | | | | | | | | |
|--------------------|----------------------------|-------------------------------------|------------------|--------------------|----------------------------|-------------------------------------|------------------|--------------------|----------------------------|-------------------------------------|----------------|--------------------|----------------------------|-------------------------------------|------------------|
| Block 1 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> | July 2 - July 20 | Block 3 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> | Sept 24 - Oct 12 | Block 5 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> | Jan 2 - Jan 18 | Block 7 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> | Mar 25 - Apr 12 |
| | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> | July 23 - Aug 10 | | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> | Oct 15 - Nov 2 | | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> | Jan 21 - Feb 8 | | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> | Apr 15 - May 3 |
| Block 2 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> | Aug 13 - Aug 31 | Block 4 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> | Nov 5 - Nov 23 | Block 6 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> | Feb 11 - Mar 1 | Block 8 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> | May 6 - May 24 |
| | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> | Sept 3 - Sept 21 | | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> | Nov 26 - Dec 14 | | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> | Mar 4 - Mar 22 | | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> | May 27 - June 14 |

COMMENTS:

The use of the Clinical Core Neurology Shelf Examination is for the purpose of familiarizing the student with the types of questions that WILL be asked about clinical neurology on the USMLE Step 2. Historically, neurology topics comprise 10-16% of the total examination questions on Step 2.

COURSE DESCRIPTION:

Students will have contact with inpatients and outpatients on the General Pediatric Neurology Service at MUH Children's Hospital and Rutledge Tower Clinic.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Develop effective clinical assessment and judgment skills, including recognition of clinical presentations of symptoms that are clinically worrisome and patterns of abnormal findings that are diagnostically important, and distinguish between focal and generalized abnormalities.
2. Recognize symptoms that may reflect neurologic impairment: C). Seizures or syncope B). Weakness or low muscle tone C). Spasticity or gait impairment D). Headache or irritability E). Abnormal movements or tics F). Sleep problems G). School or behavior problems
3. Discuss the use of diagnostic procedures, i.e., MRI scan, CT scan, EEG, EMG/NCV, and neuropsychological testing, in patient care.
4. Discuss the use of treatment modalities, such as baclofen pump, vagus nerve stimulator, botox injections, in patient care.

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. Case presentations.
4. Directed reading and literature reviews on general and selected topics in the Neurosciences.
5. Attendance at Neurosciences Conferences.
6. Participation in outreach clinic opportunities when available.

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

1. Pediatric neurology patients with seizures, headaches, etc. and/or neurodevelopmental disabilities (mental retardation, cerebral palsy) - 8

EVALUATION / FEEDBACK METHODS:

1. Observation of clinical skills and knowledge by Selective Director or his/her assigned Faculty Co-Director
2. Performance on the Clinical Core Neurology Shelf Examination

CALL:

Will students be expected to participate in call? YES

If yes, please describe the call schedule/frequency:

1-2 calls per 3 weeks selective rotation

NSCS 804J**Spine Neurological Surgery****Course Director(s):**

Abhay Varma, MD

Course Coordinator:

Olivia Burch

792-3222

burchon@muscc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | | | | | | | | | |
|--------------------|---|-------------------------------------|------------------|--------------------|---|-------------------------------------|------------------|--------------------|---|-------------------------------------|----------------|--------------------|---|-------------------------------------|------------------|
| Block 1 (3 wks) | 1 | <input checked="" type="checkbox"/> | July 2 - July 20 | Block 3 (3 wks) | 1 | <input checked="" type="checkbox"/> | Sept 24 - Oct 12 | Block 5 (3 wks) | 1 | <input checked="" type="checkbox"/> | Jan 2 - Jan 18 | Block 7 (3 wks) | 1 | <input checked="" type="checkbox"/> | Mar 25 - Apr 12 |
| | 1 | <input checked="" type="checkbox"/> | July 23 - Aug 10 | | 1 | <input checked="" type="checkbox"/> | Oct 15 - Nov 2 | | 1 | <input checked="" type="checkbox"/> | Jan 21 - Feb 8 | | 1 | <input checked="" type="checkbox"/> | Apr 15 - May 3 |
| Block 2 (3 wks) | 1 | <input checked="" type="checkbox"/> | Aug 13 - Aug 31 | Block 4 (3 wks) | 1 | <input checked="" type="checkbox"/> | Nov 5 - Nov 23 | Block 6 (3 wks) | 1 | <input checked="" type="checkbox"/> | Feb 11 - Mar 1 | Block 8 (3 wks) | 1 | <input checked="" type="checkbox"/> | May 6 - May 24 |
| | 1 | <input checked="" type="checkbox"/> | Sept 3 - Sept 21 | | 1 | <input checked="" type="checkbox"/> | Nov 26 - Dec 14 | | 1 | <input checked="" type="checkbox"/> | Mar 4 - Mar 22 | | 1 | <input checked="" type="checkbox"/> | May 27 - June 14 |

COMMENTS:

The use of the Clinical Core Neurology Shelf Examination is for the purpose of familiarizing the student with the types of questions that WILL be asked about clinical neurology on the USMLE Step 2. Historically, neurology topics comprise 10-16% of the total examination questions on Step 2.

COURSE DESCRIPTION:

Students will have contact with inpatients on the Neurosurgery Service at the Ralph H. Johnson VA Medical Center and MUH and observation in the VA and MUH Main OR.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Recognize clinically the common disorders of the spine.
2. Understand the various imaging modalities (MRI, CT) to evaluate spine disorders.
3. Perform the physical and neurological examinations of patients with spinal disorders.
4. Understand the various treatments (surgical and non-surgical) for the common disorders of the spine.

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 with inpatients and outpatients, including selected Neurosurgical OR contact.
2. One-on-one and group/team discussions (Spine Conference).
3. Directed reading on general and selected topics in the Neurosciences.
4. Attendance at Neurosciences Conferences.
5. Case presentation on selected Spine topic per Selective Director prn.

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

1. Patients with spinal disorders - 4
2. Patients undergoing surgical treatment for spinal disorders (Operating Room contact) - 2

EVALUATION / FEEDBACK METHODS:

1. Observation of clinical skills and knowledge by Selective Director or his/her assigned Faculty Co-Director
2. Performance on the Clinical Core Neurology Shelf Examination

CALL:

Will students be expected to participate in call? YES

If yes, please describe the call schedule/frequency:

1-2 calls per 3 weeks selective rotation

NSCS 805J**Behavioral/Psychology Neurology****Course Director(s):**

David L. Bachman, MD

Course Coordinator:

Olivia Burch

792-3222

burchon@muscc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | | | | | |
|--------------------|----------------------------|--|--------------------|----------------------------|--|--------------------|----------------------------|--|--------------------|----------------------------|--|
| Block 1 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> July 2 - July 20 | Block 3 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Sept 24 - Oct 12 | Block 5 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Jan 2 - Jan 18 | Block 7 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Mar 25 - Apr 12 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> July 23 - Aug 10 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Oct 15 - Nov 2 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Jan 21 - Feb 8 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Apr 15 - May 3 |
| Block 2 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Aug 13 - Aug 31 | Block 4 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Nov 5 - Nov 23 | Block 6 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Feb 11 - Mar 1 | Block 8 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> May 6 - May 24 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Sept 3 - Sept 21 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Nov 26 - Dec 14 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Mar 4 - Mar 22 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> May 27 - June 14 |

COMMENTS:

The use of the Clinical Core Neurology Shelf Examination is for the purpose of familiarizing the student with the types of questions that WILL be asked about clinical neurology on the USMLE Step 2. Historically, neurology topics comprise 10-16% of the total examination questions on Step 2.

COURSE DESCRIPTION:

Students will have contact with outpatients in the Rutledge Tower Clinic and the Outreach clinic in North Charleston.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Recognize patients with different types of behavioral and cognitive disorders.
2. Develop skills in performing a detailed mental status examination with the neurological examination.
3. Develop an appreciation for the advantages and limitations of neuropsychological testing.
4. Do in depth study of one neurobehavioral disorder with case presentation and written report on topic of interest per the Selective Director prn.
5. Synthesize history, clinical examination, neuropsychological testing, neuroimaging, and other clinical information into a diagnostic and treatment plan for patients with a variety of behavioral and cognitive disorders.

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 and observation of neuropsychological testing.
2. One-on-one and/or group discussions.
3. Directed reading and in depth review of selected topics in the Neurosciences.
4. Attendance at Neurosciences Conferences.
5. Case presentations and/or 5 page paper on specific topic of interest per the Selective Director prn.

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

1. Adult patients with behavioral neurology/memory disorders - 3
2. Observe neuropsychological testing in 3 adult patients with behavioral neurology/memory disorders.

EVALUATION / FEEDBACK METHODS:

1. Observation of clinical skills and knowledge by Selective Director or his/her assigned Faculty Co-Director
2. Performance on the Clinical Core Neurology Shelf Examination

CALL:

Will students be expected to participate in call? YES

If yes, please describe the call schedule/frequency:

1-2 calls per 3 weeks selective rotation

NSCS 806J

Clinical Neurogenetics

Course Director(s):

Kenton Holden, MD

Course Coordinator:

Olivia Burch

792-3222

burchon@muscedu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | |
|--------------------|---|--------------------|--|--------------------|--|--------------------|--|
| Block 1 (3 wks) | <input type="checkbox"/> July 2 - July 20 <input checked="" type="checkbox"/> July 23 - Aug 10 | Block 3 (3 wks) | <input checked="" type="checkbox"/> Sept 24 - Oct 12 <input checked="" type="checkbox"/> Oct 15 - Nov 2 | Block 5 (3 wks) | <input checked="" type="checkbox"/> Jan 2 - Jan 18 <input type="checkbox"/> Jan 21 - Feb 8 | Block 7 (3 wks) | <input checked="" type="checkbox"/> Mar 25 - Apr 12 <input checked="" type="checkbox"/> Apr 15 - May 3 |
| Block 2 (3 wks) | <input checked="" type="checkbox"/> Aug 13 - Aug 31 <input checked="" type="checkbox"/> Sept 3 - Sept 21 | Block 4 (3 wks) | <input checked="" type="checkbox"/> Nov 5 - Nov 23 <input checked="" type="checkbox"/> Nov 26 - Dec 14 | Block 6 (3 wks) | <input checked="" type="checkbox"/> Feb 11 - Mar 1 <input checked="" type="checkbox"/> Mar 4 - Mar 22 | Block 8 (3 wks) | <input checked="" type="checkbox"/> May 6 - May 24 <input checked="" type="checkbox"/> May 27 - June 14 |

COMMENTS:

The use of the Clinical Core Neurology Shelf Examination is for the purpose of familiarizing the student with the types of questions that WILL be asked about clinical neurology on the USMLE Step 2. Historically, neurology topics comprise 10-16% of the total examination questions on Step 2.

COURSE DESCRIPTION:

Students will have contact with outpatients research work at the Greenwood Genetic Center in Greenwood, South Carolina and at the Greenwood Genetic Center in North Charleston.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Discuss major topics in neurometabolic-genetic diseases.
2. Develop skills to identify and evaluate possible genetic neurodevelopmental disabilities.
3. Know mechanics and application of neurometabolic-genetic diagnostic studies.
4. Participate in the presentation/counseling of an affected patient/family.

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 topics, as well as general topics in the Neurosciences.
4. Laboratory exposure in metabolic-genetic diseases.
5. Case presentation.
6. Attend Greenwood Genetic Center Monthly Case Conference and MUSC Neuroscience Conferences.

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

1. Patients with neurodevelopmental disabilities - 1-2
2. Video/power-point patient presentations.

EVALUATION / FEEDBACK METHODS:

1. Observation of clinical skills and knowledge by Selective Director or his/her assigned Faculty Co-Director
2. Performance on the Clinical Core Neurology Shelf Examination

CALL:

Will students be expected to participate in call? YES

If yes, please describe the call schedule/frequency:

1-2 calls per 3 weeks selective rotation

NSCS 807J

Geriatric Palliative Neurology

Course Director(s):

Jerome Kurent, MD

Course Coordinator:

Olivia Burch

792-3222

burchon@muscc.edu

| | Student Limit | | Student Limit | | Student Limit | | Student Limit | |
|------------------------|----------------------------|--|------------------------|----------------------------|--|------------------------|----------------------------|---|
| Block 1 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> July 2 - July 20 | Block 3 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Sept 24 - Oct 12 | Block 5 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Jan 2 - Jan 18 |
| | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> July 23 - Aug 10 | | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Oct 15 - Nov 2 | | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Jan 21 - Feb 8 |
| Block 2 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Aug 13 - Aug 31 | Block 4 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Nov 5 - Nov 23 | Block 6 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Feb 11 - Mar 1 |
| | <input type="checkbox"/> | <input type="checkbox"/> Sept 3 - Sept 21 | | <input type="checkbox"/> | <input type="checkbox"/> Nov 26 - Dec 14 | | <input type="checkbox"/> | <input type="checkbox"/> Mar 4 - Mar 22 |
| | | | | | | Block 7 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Mar 25 - Apr 12 |
| | | | | | | | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Apr 15 - May 3 |
| | | | | | | Block 8 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> May 6 - May 24 |
| | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> May 27 - June 14 |

COMMENTS:

The use of the Clinical Core Neurology Shelf Examination is for the purpose of familiarizing the student with the types of questions that WILL be asked about clinical neurology on the USMLE Step 2. Historically, neurology topics comprise 10-16% of the total examination questions on Step 2.

COURSE DESCRIPTION:

Students will have contact with inpatients and outpatients at the Ralph H. Johnson VA Medical Center and at the Lutheran Hospice Care Center in Mt. Pleasant.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Discuss principles of palliative care as they apply to patients with life-limiting neurological diseases.
2. Discuss principles of geriatric medicine/neurology.
3. Understand principles of pain and symptom management, and rationale for selecting specific medications and dosing requirements for the treatment of pain, dyspnea, delirium and other common symptoms will be introduced.
4. Understand hospice eligibility criteria for patients with terminal neurological diseases.

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 with inpatients and outpatients. This includes supervised visits to hospice patients residing at home and in long-term care facilities with chronic neurological diseases (Alzheimer's, Parkinson's, stroke, etc.), and participation in palliative care inpatient consult rounds with focus on patients diagnosed with end-stage neurological diseases or with neurological complications of terminal systemic illness (ALS, coma, persistent vegetative state, etc.).
2. Participation in weekly didactic and interactive sessions with preceptor on selected neuropalliative care and geriatric neurology topics.
3. Participation in interactive discussions regarding management of patients with end-stage neurological diseases with hospice interdisciplinary team and palliative care service team members.
4. Completion of directed reading on selected topics in the Neurosciences.
5. Attendance at Neurosciences Conferences.

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

1. Adult pain management patients - 2
2. Adult hospice and palliative care patients - 2

EVALUATION / FEEDBACK METHODS:

1. Observation of clinical skills and knowledge by Selective Director or his/her assigned Faculty Co-Director
2. Performance on the Clinical Core Neurology Shelf Examination

CALL:

Will students be expected to participate in call? YES

If yes, please describe the call schedule/frequency:

1-2 calls per 3 weeks selective rotation

NSCS 808J

Neuro-Oncology

Course Director(s):

Pierre Giglio, MD

Course Coordinator:

Olivia Burch

792-3222

burchon@muscc.edu

| | Student Limit | | Student Limit | | Student Limit | | Student Limit | |
|-----------------|----------------------------|--|-----------------|----------------------------|--|-----------------|----------------------------|---|
| Block 1 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> July 2 - July 20 | Block 3 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Sept 24 - Oct 12 | Block 5 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Jan 2 - Jan 18 |
| | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> July 23 - Aug 10 | | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Oct 15 - Nov 2 | | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Jan 21 - Feb 8 |
| Block 2 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Aug 13 - Aug 31 | Block 4 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Nov 5 - Nov 23 | Block 6 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Feb 11 - Mar 1 |
| | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Sept 3 - Sept 21 | | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Nov 26 - Dec 14 | | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Mar 4 - Mar 22 |
| | | | | | | Block 7 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Mar 25 - Apr 12 |
| | | | | | | | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Apr 15 - May 3 |
| | | | | | | Block 8 (3 wks) | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> May 6 - May 24 |
| | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> May 27 - June 14 |

COMMENTS:

The use of the Clinical Core Neurology Shelf Examination is for the purpose of familiarizing the student with the types of questions that WILL be asked about clinical neurology on the USMLE Step 2. Historically, neurology topics comprise 10-16% of the total examination questions on Step 2.

COURSE DESCRIPTION:

Students will have contact with inpatients on the General Neurology Service at MUH, ICU, and outpatients at Hollings Cancer Center.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Recognize, and diagnose the most common brain tumors.
2. Recognize the major types of tumors and various imaging modalities for CNS tumors.
3. Understand the general management of common tumors: gliomas, meningiomas, etc.
4. Know the pathology of CNS tumors and general grading schemes.
5. Discuss non-surgical treatment of the symptoms associated with tumors: seizures, high ICP symptoms (headaches, neurological deficits), etc.
6. Understand the contributions and limitations of diagnostic imaging (MRI, CT) and neurophysiological testing (EEG) in the assessment of brain tumor patients.

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 with inpatients and outpatients, including selected neurosurgical OR contact.
2. One-on-one and group/team discussions (Brain Tumor Board) including selected Neuropathology exposure.
3. Directed reading on general and selected topics in the Neurosciences.
4. Attendance at Neurosciences Conferences.
5. Case presentations on selected Neuro-Oncology topics.

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

1. Patients with brain and/or spinal cord tumors - 4
2. Patients undergoing surgical treatment for CNS tumors - 2

EVALUATION / FEEDBACK METHODS:

1. Observation of clinical skills and knowledge by Selective Director or his/her assigned Faculty Co-Director
2. Performance on the Clinical Core Neurology Shelf Examination

CALL:

Will students be expected to participate in call? YES

If yes, please describe the call schedule/frequency:

1-2 calls per 3 weeks selective rotation

NSCS 809J

– Movement Disorders

Course Director(s):

Vanessa Hinson, MD

Course Coordinator:

Olivia Burch

792-3222

burchon@muscc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | | | | | | | | | |
|--------------------|----------------------------|-------------------------------------|------------------|--------------------|----------------------------|-------------------------------------|------------------|--------------------|----------------------------|-------------------------------------|----------------|--------------------|----------------------------|-------------------------------------|------------------|
| Block 1 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | July 2 - July 20 | Block 3 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Sept 24 - Oct 12 | Block 5 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Jan 2 - Jan 18 | Block 7 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Mar 25 - Apr 12 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | July 23 - Aug 10 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Oct 15 - Nov 2 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Jan 21 - Feb 8 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Apr 15 - May 3 |
| Block 2 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Aug 13 - Aug 31 | Block 4 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Nov 5 - Nov 23 | Block 6 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Feb 11 - Mar 1 | Block 8 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | May 6 - May 24 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Sept 3 - Sept 21 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Nov 26 - Dec 14 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Mar 4 - Mar 22 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | May 27 - June 14 |

COMMENTS:

The use of the Clinical Core Neurology Shelf Examination is for the purpose of familiarizing the student with the types of questions that WILL be asked about clinical neurology on the USMLE Step 2. Historically, neurology topics comprise 10-16% of the total examination questions on Step 2.

COURSE DESCRIPTION:

Students will have contact with inpatients on the General Neurology Service at the Ralph H. Johnson VA Medical Center and outpatients at the MUH Rutledge Tower clinic.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Understand the major issues related to neurologic movement disorders.
2. Identify and evaluate movement disorder patients and to develop an appropriate management plan.
3. Understand surgical and injection-based interventions for movement disorder patients.
4. Exhibit improved physical/neurological examination skills while doing a complete neurological exam.

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 with adults/children as outpatients at MUH and VA Medical Center, inpatient consults, and Neurosurgical OR (observe Deep Brain Stimulation procedures and intraoperative neurophysiologic monitoring). This contact includes attendance at the Botox Clinic on a regular basis.
2. Stimulation procedures and intraoperative neurophysiologic monitoring).
3. One-on-one and group/team discussions.
4. Directed reading on selected topics in the Neurosciences.
5. Case presentation on a selected movement disorder topic per Selective Director prn.
6. Attendance at Neurosciences Conferences and participate, if necessary, in duties on inpatient Neurology Service if Selective Director is assigned to those at the time of this Movement Disorder Selective.

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

1. 6 patients with movement disorders, 2 of which were observed during neurosurgical DBS procedures and/or intraoperative neurophysiologic monitoring. One (1) patient should be from those evaluated and treated at the Botox Clinic.

EVALUATION / FEEDBACK METHODS:

1. Observation of clinical skills and knowledge by Selective Director or his/her assigned Faculty Co-Director
2. Performance on the Clinical Core Neurology Shelf Examination

CALL:

Will students be expected to participate in call? YES

If yes, please describe the call schedule/frequency:

1-2 calls per 3 weeks selective rotation

NSCS 812J

Neuroscience ICU

Course Director(s):

Julio Chalela, MD

Course Coordinator:

Olivia Burch

792-3222

burchon@muscc.edu

| <u>Student Limit</u> | | <u>Student Limit</u> | | <u>Student Limit</u> | | <u>Student Limit</u> | | | | | | | | | |
|---------------------------|---|-------------------------------------|------------------|---------------------------|---|-------------------------------------|------------------|---------------------------|---|-------------------------------------|----------------|---------------------------|---|-------------------------------------|------------------|
| Block 1 (3 wks) | 1 | <input checked="" type="checkbox"/> | July 2 - July 20 | Block 3 (3 wks) | 1 | <input checked="" type="checkbox"/> | Sept 24 - Oct 12 | Block 5 (3 wks) | 1 | <input checked="" type="checkbox"/> | Jan 2 - Jan 18 | Block 7 (3 wks) | 1 | <input checked="" type="checkbox"/> | Mar 25 - Apr 12 |
| | 1 | <input checked="" type="checkbox"/> | July 23 - Aug 10 | | 1 | <input checked="" type="checkbox"/> | Oct 15 - Nov 2 | | 1 | <input checked="" type="checkbox"/> | Jan 21 - Feb 8 | | 1 | <input checked="" type="checkbox"/> | Apr 15 - May 3 |
| Block 2 (3 wks) | 1 | <input checked="" type="checkbox"/> | Aug 13 - Aug 31 | Block 4 (3 wks) | 1 | <input checked="" type="checkbox"/> | Nov 5 - Nov 23 | Block 6 (3 wks) | 1 | <input checked="" type="checkbox"/> | Feb 11 - Mar 1 | Block 8 (3 wks) | 1 | <input checked="" type="checkbox"/> | May 6 - May 24 |
| | 1 | <input checked="" type="checkbox"/> | Sept 3 - Sept 21 | | 1 | <input checked="" type="checkbox"/> | Nov 26 - Dec 14 | | 1 | <input checked="" type="checkbox"/> | Mar 4 - Mar 22 | | 1 | <input checked="" type="checkbox"/> | May 27 - June 14 |

COMMENTS:

The use of the Clinical Core Neurology Shelf Examination is for the purpose of familiarizing the student with the types of questions that WILL be asked about clinical neurology on the USMLE Step 2. Historically, neurology topics comprise 10-16% of the total examination questions on Step 2.

COURSE DESCRIPTION:

Students will have contact with inpatients in the Neuroscience ICU at MUH.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Evaluate a critically ill patient with neurologic/neurosurgical illness.
2. Develop a clinical care/management plan for Neuro ICU patients
3. Manage the most common neurologic emergencies requiring neurocritical care.
4. Perform some critical care procedures required in the Neuro ICU.
5. Understand the contributions and limitations of diagnostic imaging (MRI, CT) and neurophysiological testing (EEG, EMG/NCV) in the assessment of Neuro ICU patients.

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 with inpatients (Neuro ICU).
2. One-on-one and/or group/team discussions; one formal lecture per week on Neuro ICU topics.
3. Directed reading on general and selected topics in the Neurosciences as well as handouts on Neuro ICU topics.
4. Attendance at Neurosciences Conferences.
5. Case presentation on selected/directed Neuro ICU topic per Selective Director prm.

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

1. One (1) Neuro ICU patient continuously for the entire Selective in addition to daily bedside rounds on all patients.

EVALUATION / FEEDBACK METHODS:

1. Observation of clinical skills and knowledge by Selective Director or his/her assigned Faculty Co-Director
2. Performance on the Clinical Core Neurology Shelf Examination

CALL:

Will students be expected to participate in call? YES

If yes, please describe the call schedule/frequency:

1-2 calls per 3 weeks selective rotation

NSCS 813J

Neuromuscular

Course Director(s):

David Stickler, MD

Course Coordinator:

Olivia Burch

792-3222

burchon@muscc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | | | | | | | | | |
|--------------------|----------------------------|-------------------------------------|------------------|--------------------|----------------------------|-------------------------------------|------------------|--------------------|----------------------------|-------------------------------------|----------------|--------------------|----------------------------|-------------------------------------|------------------|
| Block 1 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | July 2 - July 20 | Block 3 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Sept 24 - Oct 12 | Block 5 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Jan 2 - Jan 18 | Block 7 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Mar 25 - Apr 12 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | July 23 - Aug 10 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Oct 15 - Nov 2 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Jan 21 - Feb 8 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Apr 15 - May 3 |
| Block 2 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Aug 13 - Aug 31 | Block 4 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Nov 5 - Nov 23 | Block 6 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Feb 11 - Mar 1 | Block 8 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | May 6 - May 24 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Sept 3 - Sept 21 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Nov 26 - Dec 14 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Mar 4 - Mar 22 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | May 27 - June 14 |

COMMENTS:

The use of the Clinical Core Neurology Shelf Examination is for the purpose of familiarizing the student with the types of questions that WILL be asked about clinical neurology on the USMLE Step 2. Historically, neurology topics comprise 10-16% of the total examination questions on Step 2.

COURSE DESCRIPTION:

Students will have contact with outpatients at the Rutledge Tower and outreach Mt. Pleasant clinics.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Know the anatomy and function of the peripheral nervous system.
2. Recognize diseases that cause abnormalities in nerve or muscle function including diseases of neuromuscular transmission.
3. Understand the concepts and utility of the electrodiagnostic testing performed in the evaluation of the peripheral nervous system.
4. Understand the multidisciplinary approach to patients with chronic neuromuscular diseases.

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 the evaluation and testing of patients seen in the MUSC Neurophysiology Laboratory (EMG, NCV).
2. One-on-one and/or group discussions.
3. Directed reading on general and selected topics in the Neurosciences.
4. Attendance at Neurosciences Conferences.
5. Case presentations.

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

1. Pediatric or adult patients with neuromuscular diseases - 5

EVALUATION / FEEDBACK METHODS:

1. Observation of clinical skills and knowledge by Selective Director or his/her assigned Faculty Co-Director
2. Performance on the Clinical Core Neurology Shelf Examination

CALL:

Will students be expected to participate in call? YES

If yes, please describe the call schedule/frequency:

1-2 calls per 3 weeks selective rotation

NSCS 814J

Neuro-Ophthalmology

Course Director(s):

Aljoeson Walker, MD

Course Coordinator:

Olivia Burch

792-3222

burchon@muscc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | | | | | |
|--------------------|---------------------------------------|--|--------------------|---------------------------------------|--|--------------------|---------------------------------------|--|--------------------|---------------------------------------|--|
| Block 1 (3 wks) | <input type="checkbox"/> 1 | <input type="checkbox"/> July 2 - July 20 | Block 3 (3 wks) | <input checked="" type="checkbox"/> 1 | <input checked="" type="checkbox"/> Sept 24 - Oct 12 | Block 5 (3 wks) | <input checked="" type="checkbox"/> 1 | <input checked="" type="checkbox"/> Jan 2 - Jan 18 | Block 7 (3 wks) | <input checked="" type="checkbox"/> 1 | <input checked="" type="checkbox"/> Mar 25 - Apr 12 |
| | <input checked="" type="checkbox"/> 1 | <input checked="" type="checkbox"/> July 23 - Aug 10 | | <input checked="" type="checkbox"/> 1 | <input checked="" type="checkbox"/> Oct 15 - Nov 2 | | <input checked="" type="checkbox"/> 1 | <input checked="" type="checkbox"/> Jan 21 - Feb 8 | | <input checked="" type="checkbox"/> 1 | <input checked="" type="checkbox"/> Apr 15 - May 3 |
| Block 2 (3 wks) | <input checked="" type="checkbox"/> 1 | <input checked="" type="checkbox"/> Aug 13 - Aug 31 | Block 4 (3 wks) | <input checked="" type="checkbox"/> 1 | <input checked="" type="checkbox"/> Nov 5 - Nov 23 | Block 6 (3 wks) | <input checked="" type="checkbox"/> 1 | <input checked="" type="checkbox"/> Feb 11 - Mar 1 | Block 8 (3 wks) | <input checked="" type="checkbox"/> 1 | <input checked="" type="checkbox"/> May 6 - May 24 |
| | <input checked="" type="checkbox"/> 1 | <input checked="" type="checkbox"/> Sept 3 - Sept 21 | | <input checked="" type="checkbox"/> 1 | <input checked="" type="checkbox"/> Nov 26 - Dec 14 | | <input checked="" type="checkbox"/> 1 | <input checked="" type="checkbox"/> Mar 4 - Mar 22 | | <input checked="" type="checkbox"/> 1 | <input checked="" type="checkbox"/> May 27 - June 14 |

COMMENTS:

The use of the Clinical Core Neurology Shelf Examination is for the purpose of familiarizing the student with the types of questions that WILL be asked about clinical neurology on the USMLE Step 2. Historically, neurology topics comprise 10-16% of the total examination questions on Step 2.

COURSE DESCRIPTION:

Students will have contact with outpatients at the Rutledge Tower clinics and at the outreach clinics in Mt. Pleasant.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Evaluate the patient for visual concerns as they are related to Neurology.
2. Correlate the Neuroanatomical evaluation with the ophthalmic and metabolic process.
3. Generate a rational differential diagnosis for neuro-ophthalmic diseases.
4. Structure a practical evaluation of the neuro-ophthalmic patient.

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. Viewing of videos of the anatomical workshop of visual symptoms.
2. Direct patient contact with one-on-one /group discussions.
3. Directed reading in general and selected topics in Neurosciences.
4. Attendance at Neurosciences Conferences.
5. Case presentations per the Selective Director prm.

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

1. Visual complaints - 5
2. Neurologic/headache complaints - 2

EVALUATION / FEEDBACK METHODS:

1. Observation of clinical skills and knowledge by Selective Director or his/her assigned Faculty Co-Director
2. Performance on the Clinical Core Neurology Shelf Examination

CALL:

Will students be expected to participate in call? YES

If yes, please describe the call schedule/frequency:

1-2 calls per 3 weeks selective rotation

NSCS 816J

Neurovascular (Stroke) Inpatient

Course Director(s):

Christine Holmstedt, DO

Course Coordinator:

Olivia Burch

792-3222

burchon@muscc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | |
|--------------------|---|-------------------------------------|------------------|--------------------|---|-------------------------------------|------------------|
| Block 1 (3 wks) | 1 | <input checked="" type="checkbox"/> | July 2 - July 20 | Block 3 (3 wks) | 1 | <input checked="" type="checkbox"/> | Sept 24 - Oct 12 |
| | 1 | <input checked="" type="checkbox"/> | July 23 - Aug 10 | | 1 | <input checked="" type="checkbox"/> | Oct 15 - Nov 2 |
| Block 2 (3 wks) | 1 | <input checked="" type="checkbox"/> | Aug 13 - Aug 31 | Block 4 (3 wks) | 1 | <input checked="" type="checkbox"/> | Nov 5 - Nov 23 |
| | 1 | <input checked="" type="checkbox"/> | Sept 3 - Sept 21 | | 1 | <input checked="" type="checkbox"/> | Nov 26 - Dec 14 |
| Block 5 (3 wks) | 1 | <input checked="" type="checkbox"/> | Jan 2 - Jan 18 | Block 6 (3 wks) | 1 | <input checked="" type="checkbox"/> | Feb 11 - Mar 1 |
| | 1 | <input checked="" type="checkbox"/> | Jan 21 - Feb 8 | | 1 | <input checked="" type="checkbox"/> | Mar 4 - Mar 22 |
| Block 7 (3 wks) | 1 | <input checked="" type="checkbox"/> | Mar 25 - Apr 12 | Block 8 (3 wks) | 1 | <input checked="" type="checkbox"/> | May 6 - May 24 |
| | 1 | <input checked="" type="checkbox"/> | Apr 15 - May 3 | | 1 | <input checked="" type="checkbox"/> | May 27 - June 14 |

COMMENTS:

The use of the Clinical Core Neurology Shelf Examination is for the purpose of familiarizing the student with the types of questions that WILL be asked about clinical neurology on the USMLE Step 2. Historically, neurology topics comprise 10-16% of the total examination questions on Step 2.

COURSE DESCRIPTION:

Students will have contact with inpatients on the Vascular Neurology Service at MUH.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Evaluate patients with stroke symptoms.
2. Develop a clinical care/ management plan for stroke patients.
3. Understand principles of acute stroke treatment, including thrombolysis.
4. Understand the contributions and limitations of diagnostic imaging (MRI, CT) in the assessment of stroke patients.
5. Understand principles of primary and secondary stroke prevention.

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 with inpatients in the Stroke Unit/ Neurology Stroke Ward.
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. Case presentations on selected/ directed stroke topics per the Selective Director prn.

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

1. One (1) stroke patient continuously for the entire Selective in addition to daily bedside rounds on all patients.

EVALUATION / FEEDBACK METHODS:

1. Observation of clinical skills and knowledge by Selective Director or his/her assigned Faculty Co-Director
2. Performance on the Clinical Core Neurology Shelf Examination

CALL:

Will students be expected to participate in call? YES

If yes, please describe the call schedule/frequency:

1-2 calls per 3 weeks selective rotation

NSCS 817J

Neuro Rehabilitation (PM&R)

Course Director(s):

Nancy Tsai, MD

Course Coordinator:

Olivia Burch

792-3222

burchon@muscc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | | | | | |
|--------------------|--|---|--------------------|--|--|--------------------|--|--|--------------------|--|---|
| Block 1 (3 wks) | <input type="checkbox"/> 1 <input type="checkbox"/> | <input checked="" type="checkbox"/> July 2 - July 20 <input type="checkbox"/> July 23 - Aug 10 | Block 3 (3 wks) | <input type="checkbox"/> 1 <input type="checkbox"/> | <input checked="" type="checkbox"/> Sept 24 - Oct 12 <input checked="" type="checkbox"/> Oct 15 - Nov 2 | Block 5 (3 wks) | <input type="checkbox"/> 1 <input type="checkbox"/> | <input checked="" type="checkbox"/> Jan 2 - Jan 18 <input checked="" type="checkbox"/> Jan 21 - Feb 8 | Block 7 (3 wks) | <input type="checkbox"/> 1 <input type="checkbox"/> | <input type="checkbox"/> Mar 25 - Apr 12 <input checked="" type="checkbox"/> Apr 15 - May 3 |
| Block 2 (3 wks) | <input type="checkbox"/> 1 <input type="checkbox"/> | <input checked="" type="checkbox"/> Aug 13 - Aug 31 <input type="checkbox"/> Sept 3 - Sept 21 | Block 4 (3 wks) | <input type="checkbox"/> 1 <input type="checkbox"/> | <input checked="" type="checkbox"/> Nov 5 - Nov 23 <input checked="" type="checkbox"/> Nov 26 - Dec 14 | Block 6 (3 wks) | <input type="checkbox"/> 1 <input type="checkbox"/> | <input checked="" type="checkbox"/> Feb 11 - Mar 1 <input checked="" type="checkbox"/> Mar 4 - Mar 22 | Block 8 (3 wks) | <input type="checkbox"/> 1 <input type="checkbox"/> | <input type="checkbox"/> May 6 - May 24 <input checked="" type="checkbox"/> May 27 - June 14 |

COMMENTS:

The use of the Clinical Core Neurology Shelf Examination is for the purpose of familiarizing the student with the types of questions that WILL be asked about clinical neurology on the USMLE Step 2. Historically, neurology topics comprise 10-16% of the total examination questions on Step 2.

COURSE DESCRIPTION:

Students will have contact with inpatients at Roper's Rehabilitation Services and outpatients at Rutledge Tower at MUH.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Know the anatomy and function of the axial and appendicular musculoskeletal system.
2. Recognize diseases that cause functional abnormalities.
3. Understand the concepts and utility of provocative tests in diagnosis and therapy prescription.
4. Understand the use of injections and other conservative management techniques in the treatment of musculoskeletal disorders.
5. Understand anatomy, injury types, and examination of spine patients.
6. Understand rehabilitative approach to patients with musculoskeletal disorders and other neurorehabilitation needs.

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 the evaluation and testing of patients seen in the outpatient physiatry clinic.
2. One-on-one and/or group discussions.
3. Directed reading on general and selected topics in Rehabilitation Medicine and the Neurosciences.
4. Attendance at Neurosciences Conferences.
5. Case presentations per the Selective Director prm.

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

1. Five (5) pediatric or adult patients with physical medicine and rehabilitation disorders.

EVALUATION / FEEDBACK METHODS:

1. Observation of clinical skills and knowledge by Selective Director or his/her assigned Faculty Co-Director
2. Performance on the Clinical Core Neurology Shelf Examination

CALL:

Will students be expected to participate in call? YES

If yes, please describe the call schedule/frequency:

1-2 calls per 3 weeks selective rotation

NSCS 818J

Sleep Medicine

Course Director(s):

Saima Athar, MD

Course Coordinator:

Olivia Burch

792-3222

burchon@muscc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | | | | | | | | | |
|--------------------|----------------------------|-------------------------------------|------------------|--------------------|----------------------------|-------------------------------------|------------------|--------------------|----------------------------|-------------------------------------|----------------|--------------------|----------------------------|-------------------------------------|------------------|
| Block 1 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | July 2 - July 20 | Block 3 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Sept 24 - Oct 12 | Block 5 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Jan 2 - Jan 18 | Block 7 (3 wks) | <input type="checkbox"/> | <input type="checkbox"/> | Mar 25 - Apr 12 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | July 23 - Aug 10 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Oct 15 - Nov 2 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Jan 21 - Feb 8 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Apr 15 - May 3 |
| Block 2 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Aug 13 - Aug 31 | Block 4 (3 wks) | <input type="checkbox"/> | <input type="checkbox"/> | Nov 5 - Nov 23 | Block 6 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Feb 11 - Mar 1 | Block 8 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | May 6 - May 24 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Sept 3 - Sept 21 | | <input type="checkbox"/> | <input type="checkbox"/> | Nov 26 - Dec 14 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Mar 4 - Mar 22 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | May 27 - June 14 |

COMMENTS:

The use of the Clinical Core Neurology Shelf Examination is for the purpose of familiarizing the student with the types of questions that WILL be asked about clinical neurology on the USMLE Step 2. Historically, neurology topics comprise 10-16% of the total examination questions on Step 2.

COURSE DESCRIPTION:

Students will have contact with outpatients at Rutledge Tower clinic and MUH.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Evaluate patients with the complaint of "excessive daytime sleepiness, snoring, and/or inability to initiate or maintain sleep."
2. Recognize the major types of sleep disorders and sleep pathology.
3. Generate a rational differential diagnosis for sleep disorders.
4. Be able to recognize the principal features of a sleep study.
5. Understand the principles of patient education.
6. Understand the principles of treatment for major sleep disorders.

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. Viewing of sleep study tracings, and rational interpretation of the major findings.
2. Patient contact with adults/children as outpatients at MUSC, North Charleston, or Mt. Pleasant clinics.
3. One-on one discussion of cases outlining the educational and interventional treatment plan appropriate for individual patients.

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

1. Two with obstructive sleep apnea/OSA..
2. Two with Restless Leg Syndrome/PLMS.

EVALUATION / FEEDBACK METHODS:

1. Observation of clinical skills and knowledge by Selective Director or his/her assigned Faculty Co-Director
2. Performance on the Clinical Core Neurology Shelf Examination

CALL:

Will students be expected to participate in call? YES

If yes, please describe the call schedule/frequency:

1-2 calls per 3 weeks selective rotation

OB/GYN 880J**– Maternal Fetal Medicine****Course Director(s):**

Charles Rittenberg, MD

Course Coordinator:

Marti Sturdevant

792-1241

sturdev@musc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | | | | | |
|--------------------|----------------------------|--|--------------------|----------------------------|--|--------------------|----------------------------|--|--------------------|----------------------------|--|
| Block 1 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> July 2 - July 20 | Block 3 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Sept 24 - Oct 12 | Block 5 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Jan 2 - Jan 18 | Block 7 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Mar 25 - Apr 12 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> July 23 - Aug 10 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Oct 15 - Nov 2 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Jan 21 - Feb 8 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Apr 15 - May 3 |
| Block 2 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Aug 13 - Aug 31 | Block 4 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Nov 5 - Nov 23 | Block 6 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Feb 11 - Mar 1 | Block 8 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> May 6 - May 24 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Sept 3 - Sept 21 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Nov 26 - Dec 14 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Mar 4 - Mar 22 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> May 27 - June 14 |

COMMENTS:

Student must complete the OB/GYN Clerkship (OBGYN801) prior to taking OBGYN880J.

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 have a tutorial relationship 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 have an opportunity to experience ultrasonography, genetic counseling, prenatal diagnostic testing, and high-risk obstetrical patients and have the opportunity to participate in operative obstetrics.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Discuss in detail the management of patients with diabetes, multiple gestation and preterm labor
2. Discuss various medical and fetal complications of pregnancy – such as hematologic, cardiovascular, pulmonary, renal, endocrine, infectious, congenital anomalies, and fetal growth disorders
3. Discuss the management of an abnormal labor curve
4. Discuss the available methodologies for genetic prenatal diagnosis
5. Discuss the differences between a Level I and Level II prenatal ultrasound; identify the images necessary to complete a Level II ultrasound; and determine the limitations of 1st, 2nd and 3rd trimester ultrasonography.

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 rounding responsibility on the hospitalized antepartum patients
2. Daily participation in the Maternal Fetal Medicine Clinic
3. Observe prenatal ultrasounds
4. Observe genetic prenatal counseling
5. Participation on the Labor & Delivery (L&D) night shift (5pm-7am) on the night where the MS3 students are not scheduled, including evaluation and triage of exam room patients, observation and performance of prenatal ultrasounds and management of labor and deliveries.

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

1. Medical complication of pregnancy (other than preeclampsia) - 1
2. Fetal or obstetrical complication of pregnancy – 1
3. Pregestational or gestational diabetes - 2
4. Multiple gestations - 2
5. Threatened/actual preterm labor - 2

EVALUATION / FEEDBACK METHODS:

1. Clinical Evaluation Form (Medical Knowledge, Patient Care, Professionalism, Interpersonal/Communication Skills, Practice-Based and Life-Long Learning, and System-Based Learning)

CALL:

Will students be expected to participate in call? YES

If yes, please describe the call schedule/frequency:

On nights where the MS3 students on clerkship are not scheduled

OBGYN 881J – Gynecologic Women’s Health**Course Director(s):**

Steve Swift, MD

Course Coordinator:

Marti Sturdevant

792-1241

sturdev@musc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | | | | | |
|--------------------|----------------------------|--|--------------------|----------------------------|--|--------------------|----------------------------|--|--------------------|----------------------------|--|
| Block 1 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> July 2 - July 20 | Block 3 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Sept 24 - Oct 12 | Block 5 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Jan 2 - Jan 18 | Block 7 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Mar 25 - Apr 12 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> July 23 - Aug 10 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Oct 15 - Nov 2 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Jan 21 - Feb 8 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Apr 15 - May 3 |
| Block 2 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Aug 13 - Aug 31 | Block 4 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Nov 5 - Nov 23 | Block 6 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Feb 11 - Mar 1 | Block 8 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> May 6 - May 24 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Sept 3 - Sept 21 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Nov 26 - Dec 14 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Mar 4 - Mar 22 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> May 27 - June 14 |

COMMENTS:

Student must complete the OB/GYN Clerkship (OBGYN801) prior to taking OBGYN881J.

COURSE DESCRIPTION:

The rotation 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 participate as a subintern with the GYN inpatient team and work in specialty clinics with faculty and residents.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Discuss the basic outpatient evaluation and treatment/management of several gynecologic disorders, including incontinence, pelvic organ prolapse, chronic pelvic pain, menopausal symptoms and general gynecologic disorders
2. Recognize the role of surgical intervention in the above conditions and the surgical procedures used to treat them

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 in patient care activities under supervision in outpatient gynecological offices
2. Participation in gynecologic surgeries under attending supervision
3. Participation in inpatient rounds on appropriate patients with attendings and residents
4. Attendance at departmental Grand Rounds, M&M, weekly resident didactics and chief of service rounds.
5. Completion of a review paper on topic of choice decided in conjunction with selective directors. Paper is to be at least 3 double-spaced pages in length and with no less than 5 references.

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

1. Urinary or fecal incontinence
2. Pelvic organ prolapse
3. Menopausal concerns
4. Abnormal bleeding
5. General gynecological infections

EVALUATION / FEEDBACK METHODS:

1. Clinical Evaluation Form (Medical Knowledge, Patient Care, Professionalism, Interpersonal/Communication Skills, Practice-Based and Life-Long Learning, and System-Based Learning)
2. Completion of a review paper (Medical Knowledge)

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

| Student Limit | | Student Limit | | Student Limit | | Student Limit | | | | | |
|--------------------|--|---|--------------------|--|---|--------------------|--|---|--------------------|--|---|
| Block 1 (3 wks) | <input type="checkbox"/> 2 <input type="checkbox"/> | <input checked="" type="checkbox"/> July 2 - July 20 <input type="checkbox"/> July 23 - Aug 10 | Block 3 (3 wks) | <input type="checkbox"/> 2 <input type="checkbox"/> | <input checked="" type="checkbox"/> Sept 24 - Oct 12 <input type="checkbox"/> Oct 15 - Nov 2 | Block 5 (3 wks) | <input type="checkbox"/> 2 <input type="checkbox"/> | <input checked="" type="checkbox"/> Jan 2 - Jan 18 <input type="checkbox"/> Jan 21 - Feb 8 | Block 7 (3 wks) | <input type="checkbox"/> 2 <input type="checkbox"/> | <input checked="" type="checkbox"/> Mar 25 - Apr 12 <input type="checkbox"/> Apr 15 - May 3 |
| Block 2 (3 wks) | <input type="checkbox"/> 2 <input type="checkbox"/> | <input checked="" type="checkbox"/> Aug 13 - Aug 31 <input type="checkbox"/> Sept 3 - Sept 21 | Block 4 (3 wks) | <input type="checkbox"/> 2 <input type="checkbox"/> | <input checked="" type="checkbox"/> Nov 5 - Nov 23 <input type="checkbox"/> Nov 26 - Dec 14 | Block 6 (3 wks) | <input type="checkbox"/> 2 <input type="checkbox"/> | <input checked="" type="checkbox"/> Feb 11 - Mar 1 <input type="checkbox"/> Mar 4 - Mar 22 | Block 8 (3 wks) | <input type="checkbox"/> 2 <input type="checkbox"/> | <input checked="" type="checkbox"/> May 6 - May 24 <input type="checkbox"/> May 27 - June 14 |

COMMENTS:

COURSE DESCRIPTION:

This elective is designed to introduce the student to clinical ophthalmology. The student will participate in didactic sessions including Grand Rounds, Journal Clubs and Friday afternoon lectures. Students will work one-on-one with ophthalmology residents and attending examining patients and observing surgery. A text will be provided as a checklist of practical goals which should be achieved over the course of the rotation.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Review the anatomy and physiology of the eye.
2. Learn to perform a basic eye examination.
3. Become proficient in the treatment of common, non-vision threatening eye disorders.
4. Learn to recognize vision threatening eye diseases and institute timely referral.
5. Become familiar with ophthalmological abbreviations.

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. Lectures - 4
2. Rounds/discussions – 4
3. Patient contacts - 32
4. Lab - optional
5. Patient load - none
6. Call - none

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

1. Cataract patient - 1
2. Glaucoma patient - 1
3. Diabetes patient - 1
4. Strabismus patient - 1
5. Neuro-ophthalmology patient - 1
6. "Red painful eye" patient - 1

EVALUATION / FEEDBACK METHODS:

1. Direct observation of clinical and patient care skills by the attending physician and residents.
2. Completion of a 40 item multiple choice question quiz at the end of the rotation.
3. Attendance as documented in a daily log of clinical/surgery/patients seen.
4. Adequate screening of 1 patient in general clinic per protocol given as evaluated by the general ophthalmology team.

Learners will receive feedback on their clinical performances verbally following clinics and surgeries. The quiz will be graded and reviewed with the first year resident in the general ophthalmology clinic. The patient screening performed will be evaluated by the general ophthalmology clinic team. The daily log will be reviewed by the course director.

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

OSURG 880J**Orthopaedic Surgery****Course Director(s):**

Joseph Calandra, MD

Lee Leddy, MD

Course Coordinator:

Cassandra Tucker

792-0245

tuckerc@musc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | |
|--------------------|--|--------------------|--|--------------------|--|--------------------|--|
| Block 1 (3 wks) | <input type="checkbox"/> July 2 - July 20 <input type="checkbox"/> July 23 - Aug 10 | Block 3 (3 wks) | <input type="checkbox"/> Sept 24 - Oct 12 <input type="checkbox"/> Oct 15 - Nov 2 | Block 5 (3 wks) | <input checked="" type="checkbox"/> Jan 2 - Jan 18 <input checked="" type="checkbox"/> Jan 21 - Feb 8 | Block 7 (3 wks) | <input checked="" type="checkbox"/> Mar 25 - Apr 12 <input checked="" type="checkbox"/> Apr 15 - May 3 |
| Block 2 (3 wks) | <input type="checkbox"/> Aug 13 - Aug 31 <input type="checkbox"/> Sept 3 - Sept 21 | Block 4 (3 wks) | <input type="checkbox"/> Nov 5 - Nov 23 <input type="checkbox"/> Nov 26 - Dec 14 | Block 6 (3 wks) | <input checked="" type="checkbox"/> Feb 11 - Mar 1 <input checked="" type="checkbox"/> Mar 4 - Mar 22 | Block 8 (3 wks) | <input checked="" type="checkbox"/> May 6 - May 24 <input checked="" type="checkbox"/> May 27 - June 14 |

COMMENTS:**COURSE DESCRIPTION:**

This is a three week introduction course to the field of orthopaedic surgery. Students will be exposed to the evaluation and treatment of the musculoskeletal system. Students will participate in the orthopaedic surgery clinics, the operating theater, as well as group and one on one didactic sessions. Students are expected to participate in a limited amount of "call" while shadowing the junior orthopaedic surgery residents. Students are granted plenty of opportunities for hands on experience.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Explore the scope of practice for an orthopaedic surgeon
2. Perform an upper and lower extremity examination
3. Discuss bone formation and the hormonal regulation of bone maintenance
4. Recognize multiple orthopaedic emergencies
5. Understand several common pediatric orthopaedic conditions and their etiologies

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. One to one, and or small group formal didactic session with faculty
2. Selected readings followed by one to one presentations by students to the faculty
3. Independent research and presentations of research
4. Daily personal clinical teaching by residents and faculty
5. Students will be exposed and responsible for patient care in clinics, and the inpatient setting including pre , and post surgical care of patients they observe in the operating room.

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

1. Fractures: Adult and Pediatric
2. Multi Trauma patients
3. Pediatric Orthopaedic disorders (Scoliosis, Club Foot, M.A, etc)
4. Common Orthopaedic conditions of the Hand and Upper Extremity
5. Arthroplasty of the Hip and Knee

EVALUATION / FEEDBACK METHODS:

1. Presentations: Interpersonal / Communication Skills
2. Research: Life- long Learning
3. One to One Discussions: Medical Knowledge
4. Clinics and Hospital Rounds: Patient Care
5. Daily interactions with faculty and residents in small groups and one to one sessions: Professionalism

CALL:

Will students be expected to participate in call? YES

If yes, please describe the call schedule/frequency:

One week night until 10pm and one weekend day / night; each week

OTOL 880J**Otolaryngology Overview****Course Director(s):**

Judith Skoner, MD

Course Coordinator:

Anita Cheslek

792-7162

cheslear@muscle.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | | | | | |
|--------------------|----------------------------|--|--------------------|----------------------------|--|--------------------|----------------------------|--|--------------------|----------------------------|--|
| Block 1 (3 wks) | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> July 2 - July 20 | Block 3 (3 wks) | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> Sept 24 - Oct 12 | Block 5 (3 wks) | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> Jan 2 - Jan 18 | Block 7 (3 wks) | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> Mar 25 - Apr 12 |
| | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> July 23 - Aug 10 | | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> Oct 15 - Nov 2 | | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> Jan 21 - Feb 8 | | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> Apr 15 - May 3 |
| Block 2 (3 wks) | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> Aug 13 - Aug 31 | Block 4 (3 wks) | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> Nov 5 - Nov 23 | Block 6 (3 wks) | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> Feb 11 - Mar 1 | Block 8 (3 wks) | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> May 6 - May 24 |
| | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> Sept 3 - Sept 21 | | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> Nov 26 - Dec 14 | | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> Mar 4 - Mar 22 | | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> May 27 - June 14 |

COMMENTS:

Please note that the majority of our faculty will be out September 8 – 13 in order to attend the annual AAOHNS meeting

COURSE DESCRIPTION:

Over the 3-weeks, the student will rotate for one week each on the three MUSC Oto-HNS teams, respectively: Team A (Otology, Peds, General, FPRS), Team B (Sinus, Laryngology/Peds, H&N), Team C (H&N Onc).

An alternative option for one of these weeks is a week spent at the East Cooper clinics (and the VA for 1.5 days) working with the various attendings there – this would be in place of the Team A or Team B rotation for that student, and might be for the student dedicated to a future in primary care with interest in more clinic time rather than O.R. time. (Team C rotation is mandatory for all students in this Oto-HNS selective).

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Know / demonstrate the essential components of a thorough head and neck history-taking and physical examination.
2. Gain exposure to patients with various common head & neck pathologies including otitis media, vertigo, rhinitis, epistaxis, sinusitis, pharyngitis, tonsillitis, stridor, dysphagia, dysphonia, facial trauma, & head & neck tumors / defects.
3. Recognize & describe symptoms suggestive of head & neck malignancies; and recognize abnormal exam findings of the oral cavity & pharynx, including malignant lesions & lesions suspicious for malignancy.
4. List differential diagnosis for stridor & be familiar with emergent & long-term airway management techniques.
5. Understand indications for Otolaryngologic consultation.
6. Observe various Oto-HNS surgical procedures including endoscopic sinus surgery, pediatric ENT surgery, airway surgery, ear/skull base surgery, head & neck surgery, facial plastic and reconstructive surgery.

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 in Outpatient Clinics
2. Participation in Inpatient Care
3. Operating Room Participation
4. Attendance at the Multidisciplinary H&N Tumor Board
5. Introduction to Audiology
6. Introduction to Voice & Swallowing
7. Attendance at Lectures
8. Completion of Independent Reading and Case Reports

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

1. 2 H&N cancer patient in clinic, & 2 inpatients with head & neck cancer
2. 2 Sinonasal patient (i.e. sinusitis, allergic rhinitis, epistaxis)
3. 2 Otologic patients (i.e. chronic ear infections, tinnitus, hearing loss, vertigo)
4. 2 Pediatric Oto-HNS patients (i.e. tonsillitis, OSA, stridor, ear infections, dysphonia)
5. 1 Facial plastics patient and 1 reconstruction patient (i.e. congenital deformity, facial defect, aesthetic issues, cancer defect)
6. 2 General OtoHNS patients (i.e. hoarseness, dysphagia, sleep apnea, thyroid)

EVALUATION / FEEDBACK METHODS:

1. By personal observation and interaction between the student and faculty/residents, the student will be evaluated on their performance in the clinics, in the hospital & in the OR. (Medical Knowledge, Patient Care, Professionalism, Interpersonal/Communication Skills, Practice-Based Learning, and System-Based Learning)
2. Case Report: students will also be evaluated in regards to quality of the case report due the 2nd week of the selective. (Medical Knowledge and Life-long Learning)
3. Students will receive daily feedback from the residents & attendings. The student will arrange a meeting with the Selective Director near the end of their rotation to review their experience and complete a selective evaluation.
4. Attendings participating in this course will be asked to complete a standardized E*Value evaluation form at the end of each rotation.

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

OTOL 881J**Head & Neck Surgical Oncology****Course Director(s):**

Judith Skoner, MD

Terry Day, MD

Course Coordinator:

Anita Cheslek

792-7162

cheslear@muscle.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | |
|--------------------|---|-------------------------------------|------------------|--------------------|---|-------------------------------------|------------------|
| Block 1 (3 wks) | 1 | <input checked="" type="checkbox"/> | July 2 - July 20 | Block 3 (3 wks) | 2 | <input checked="" type="checkbox"/> | Sept 24 - Oct 12 |
| | 1 | <input checked="" type="checkbox"/> | July 23 - Aug 10 | | 2 | <input checked="" type="checkbox"/> | Oct 15 - Nov 2 |
| Block 2 (3 wks) | 1 | <input checked="" type="checkbox"/> | Aug 13 - Aug 31 | Block 4 (3 wks) | 2 | <input checked="" type="checkbox"/> | Nov 5 - Nov 23 |
| | 1 | <input checked="" type="checkbox"/> | Sept 3 - Sept 21 | | 3 | <input checked="" type="checkbox"/> | Nov 26 - Dec 14 |
| Block 5 (3 wks) | 3 | <input checked="" type="checkbox"/> | Jan 2 - Jan 18 | Block 6 (3 wks) | 3 | <input checked="" type="checkbox"/> | Feb 11 - Mar 1 |
| | 3 | <input checked="" type="checkbox"/> | Jan 21 - Feb 8 | | 3 | <input checked="" type="checkbox"/> | Mar 4 - Mar 22 |
| Block 7 (3 wks) | 3 | <input checked="" type="checkbox"/> | Mar 25 - Apr 12 | Block 8 (3 wks) | 3 | <input checked="" type="checkbox"/> | May 6 - May 24 |
| | 3 | <input checked="" type="checkbox"/> | Apr 15 - May 3 | | 3 | <input checked="" type="checkbox"/> | May 27 - June 14 |

COMMENTS:

Please note that the majority of our faculty will be out September 8 – 13 in order to attend the annual AAOHNS meeting

COURSE DESCRIPTION:

Over the 3-weeks, the student will rotate on the OtoHNS oncology/recon team (Team C), with additional exposure to major head & neck reconstruction and some facial plastics. The attending surgeons involved will primarily include: Dr. Terry Day, Dr. Boyd Gillespie, Dr. Joshua Hornig, Dr. Krishna Patel and Dr. Judith Skoner.

The student will also have exposure to our multidisciplinary approach to head & neck cancer patients with exposure to the speech & swallowing pathologists, maxillofacial prosthodontist, Radiation-Oncology, Medical Oncology, and neuroradiology.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Demonstrate the essential components of a thorough head and neck history-taking and physical examination.
2. Describe patients with various head and neck pathologies including head and neck cancers/tumors, stridor, dysphagia, dysphonia and head & neck defects.
3. Recognize and describe symptoms suggestive of head and neck malignancies; and recognize abnormal exam findings of the oral cavity, pharynx and larynx, including malignant lesions and lesions suspicious for malignancy.
4. Describe the diagnostic workup of a patient with head and neck cancer.
5. Discuss the fundamentals of emergent and long-term airway management techniques.
6. Describe various Oto-HNS surgical procedures, including tracheostomy, neck dissections, various head & neck cancer resections and reconstructive surgeries including but not limited to skin grafts, local flaps, pedicled flaps and microvascular free flaps.

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 in Outpatient Clinics
2. Participation in Inpatient Care
3. Operating Room Participation
4. Attendance at the Multidisciplinary H&N Tumor Board
5. Introduction to Audiology
6. Introduction to Voice & Swallowing
7. Attendance at Lectures
8. Completion of Independent Reading and Case Reports

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

1. oral cavity H&N cancer patients in clinic - 4
2. oropharyngeal H&N cancer patients in clinic - 2
3. laryngeal H&N cancer - 1
4. thyroid or salivary gland tumor - 2
5. at least 4 inpatients on Team C (H&N team)
6. 'free flap' microvascular reconstruction - 2
7. facial plastics patient (i.e.: congenital deformity, facial defect) - 1

EVALUATION / FEEDBACK METHODS:

1. By personal observation and interaction between the student and faculty/residents, the student will be evaluated on their performance in the clinics, hospital & OR. (Medical Knowledge, Patient Care, Professionalism, Interpersonal/Communication Skills, Practice-Based Learning, and System-Based Learning)
2. Case Report: students will also be evaluated in regards to quality of the case report due the 2nd week of the selective. (Medical Knowledge and Life-long Learning)
3. Attendings participating in this course will be asked to complete a standardized E*Value evaluation form at the end of each rotation.
4. Students will receive daily feedback from the residents & attendings (on rounds, in clinic, in the operating room). The student will arrange a meeting with the Selective Director near the end of their rotation to review their experience and complete a selective evaluation.

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

OTOL 883J**Pediatric Otolaryngology****Course Director(s):**

Judith Skoner, MD

Lucinda Halstead, MD

Course Coordinator:

Anita Cheslek

792-7162

cheslear@muscle.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | |
|--------------------|---|-------------------------------------|------------------|--------------------|---|-------------------------------------|------------------|
| Block 1 (3 wks) | 1 | <input checked="" type="checkbox"/> | July 2 - July 20 | Block 3 (3 wks) | 2 | <input checked="" type="checkbox"/> | Sept 24 - Oct 12 |
| | 1 | <input checked="" type="checkbox"/> | July 23 - Aug 10 | | 2 | <input checked="" type="checkbox"/> | Oct 15 - Nov 2 |
| Block 2 (3 wks) | 1 | <input checked="" type="checkbox"/> | Aug 13 - Aug 31 | Block 4 (3 wks) | 2 | <input checked="" type="checkbox"/> | Nov 5 - Nov 23 |
| | 1 | <input checked="" type="checkbox"/> | Sept 3 - Sept 21 | | 2 | <input checked="" type="checkbox"/> | Nov 26 - Dec 14 |
| Block 5 (3 wks) | 3 | <input checked="" type="checkbox"/> | Jan 2 - Jan 18 | Block 6 (3 wks) | 3 | <input checked="" type="checkbox"/> | Feb 11 - Mar 1 |
| | 3 | <input checked="" type="checkbox"/> | Jan 21 - Feb 8 | | 3 | <input checked="" type="checkbox"/> | Mar 4 - Mar 22 |
| Block 7 (3 wks) | 3 | <input checked="" type="checkbox"/> | Mar 25 - Apr 12 | Block 8 (3 wks) | 3 | <input checked="" type="checkbox"/> | May 6 - May 24 |
| | 3 | <input checked="" type="checkbox"/> | Apr 15 - May 3 | | 3 | <input checked="" type="checkbox"/> | May 27 - June 14 |

COMMENTS:

Please note that the majority of our faculty will be out September 8 – 13 in order to attend the annual AAOHNS meeting

COURSE DESCRIPTION:

Over the 3-week period, the student will rotate primarily with our Pediatric Otolaryngology-Head & Neck Surgeons, Dr. Lucinda Halstead, Dr. David White, and Dr. Christopher Discolo. They will have extensive exposure to complex pediatric airway problems/treatment, as well as the most common pediatric OtoHNS pathologies.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Know / demonstrate the essential components of a thorough pediatric head and neck history-taking and physical examination
2. Recognize pediatric patients with various common head and neck pathologies including otitis media, vertigo, rhinitis, epistaxis, sinusitis, pharyngitis, tonsillitis, stridor, dysphonia, trauma, and head & neck tumors.
3. Describe the clinical aspects and develop differential diagnoses for congenital hearing loss; understand basic audiologic testing methods in the peds pt.
4. List the differential diagnosis for stridor and be familiar with emergent and long-term airway management techniques.
5. Understand the common causes of unilateral rhinorrhea and nasal obstruction
6. Recognize various Oto-HNS surgical procedures, including tonsillectomy, adenoidectomy, pressure equalization tubes, laryngoscopy/bronchoscopy, tracheostomy, airway reconstruction, and tumor/cyst excisions.

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 in Outpatient Clinics
2. Participation in Inpatient Care
3. Operating Room Participation
4. Attendance at the Multidisciplinary H&N Tumor Board
5. Introduction to Audiology
6. Introduction to Voice & Swallowing
7. Attendance at Lectures
8. Completion of Independent Reading and Case Reports

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

1. Airway patients (ie: stridor, 'noisy breathing', hoarseness) - 4
2. Sinonasal patients (i.e.: sinusitis, allergic rhinitis, epistaxis) - 2
3. Otologic patients (i.e.: chronic ear infections, hearing loss, vertigo) - 4
4. Tonsil/adenoid patients (i.e.: tonsillitis, OSA) - 4

EVALUATION / FEEDBACK METHODS:

1. By personal observation and interaction between the student and faculty/residents, the student will be evaluated on their performance in the clinics, hospital & OR. (Medical Knowledge, Patient Care, Professionalism, Interpersonal/Communication Skills, Practice-Based Learning, and System-Based Learning)
2. Case Report: students will also be evaluated in regards to quality of the case report due the 2nd week of the selective. (Medical Knowledge and Life-long Learning)
3. Attendings participating in this course will be asked to complete a standardized E*Value evaluation form at the end of each rotation.
4. Students will receive daily feedback from the residents & attendings (on rounds, in clinic, in the operating room). The student will arrange a meeting with the Selective Director near the end of their rotation to review their experience and complete a selective evaluation.

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

PATH 885J**Hematopathology/Flow Cytometry****Course Director(s):**

John Lazarchick, MD

Course Coordinator:

Molli Diaz

792-0217

chmielom@musc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | |
|--------------------|---|--------------------|---|--------------------|---|--------------------|---|
| Block 1 (3 wks) | <input type="checkbox"/> 1 <input checked="" type="checkbox"/> July 2 - July 20 <input type="checkbox"/> July 23 - Aug 10 | Block 3 (3 wks) | <input type="checkbox"/> 1 <input checked="" type="checkbox"/> Sept 24 - Oct 12 <input type="checkbox"/> Oct 15 - Nov 2 | Block 5 (3 wks) | <input type="checkbox"/> Jan 2 - Jan 18 <input type="checkbox"/> Jan 21 - Feb 8 | Block 7 (3 wks) | <input type="checkbox"/> 1 <input checked="" type="checkbox"/> Mar 25 - Apr 12 <input type="checkbox"/> Apr 15 - May 3 |
| Block 2 (3 wks) | <input type="checkbox"/> Aug 13 - Aug 31 <input checked="" type="checkbox"/> Sept 3 - Sept 21 | Block 4 (3 wks) | <input type="checkbox"/> Nov 5 - Nov 23 <input type="checkbox"/> Nov 26 - Dec 14 | Block 6 (3 wks) | <input type="checkbox"/> Feb 11 - Mar 1 <input checked="" type="checkbox"/> Mar 4 - Mar 22 | Block 8 (3 wks) | <input type="checkbox"/> 1 <input checked="" type="checkbox"/> May 6 - May 24 <input type="checkbox"/> May 27 - June 14 |

COMMENTS:**COURSE DESCRIPTION:**

This course is designed to provide the student an opportunity to participate in the laboratory evaluation and diagnosis of malignant and non-malignant hematologic disorders. The student will have a focused program on morphology, immunohistochemistry and flow cytometric analysis of peripheral smears, bone marrow aspirates and biopsies and lymphoid tissues, nodal and non-nodal. Correlation of these findings with the clinical findings will be emphasized.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Learn to use a multidisciplinary approach to the diagnosis of hematologic malignancies utilizing morphology, immunophenotyping, cytogenetics and molecular analysis including FISH and PCR.
2. Distinguish between acute and chronic leukemia's and determine cell lineage and any associated chromosomal abnormalities based on morphology, immunophenotyping and genetic analyses.
3. Distinguish between benign and malignant plasma cell hyperplasia utilizing clinical correlation, classical immunoelectrophoresis and immunofixation techniques in chemistry, bone marrow analysis and cytogenetics.

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. Analysis of CBC data, peripheral smear interpretation and examination of bone marrow aspirate and biopsy material and the correlation of such with the patients' clinical history and ancillary laboratory data.
2. Review of principles of flow cytometry to immunophenotype hematopoietic cells and to become familiar with lineage-specific CD markers to distinguish myeloid, lymphoid, erythroid and megakaryocytic markers. Results on patients will be reviewed with the student by the attending physician.
3. Review of methodology involve with karyotyping marrow or node hematopoietic cells and review of patient results with the attending staff and laboratory supervisor.
4. Review of the principles involved in FISH analysis and PCR to analyze for specific chromosomal abnormalities associated with acute and chronic leukemia of myeloid or lymphoid origin and lymphomas. The attending staff and laboratory personnel will review all pertinent cases with the student.

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

1. Observe and/or participate in obtaining at least one bone marrow aspirate/biopsy on a patient who is suspected or known to have a hematologic malignancy.
2. Present clinical history, physical findings, ancillary laboratory data, morphologic assessment, flow cytometric interpretation, cytogenetic analysis and molecular study results on a patient either a myeloproliferative or myelodysplastic disorder.

EVALUATION / FEEDBACK METHODS:

1. Students will be quizzed regarding concepts and principles in response to routine questions about pathologic diagnosis of case slide being reviewed. (Medical Knowledge)
2. Students will be evaluated on their ability to document patient information through synthesis of clinical data and additional laboratory tests. (Patient Care)
3. Students will be evaluated on their ability to present clear, concise and well organized case presentations. (Interpersonal/Communication Skills)
4. 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. (Professionalism)
5. 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. (Practice Based Learning and Improvement)

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

PATH 886J**Surgical and Cytopathology****Course Director(s):**

David Lewin, MD

Mary Richardson, MD

Course Coordinator:

Trudie Shingledecker

792-1086

singlet@musc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | |
|-----------------|--|-----------------|--|-----------------|--|-----------------|--|
| Block 1 (3 wks) | <input type="checkbox"/> July 2 - July 20 | Block 3 (3 wks) | <input checked="" type="checkbox"/> Sept 24 - Oct 12 | Block 5 (3 wks) | <input checked="" type="checkbox"/> Jan 2 - Jan 18 | Block 7 (3 wks) | <input type="checkbox"/> Mar 25 - Apr 12 |
| | <input type="checkbox"/> July 23 - Aug 10 | | <input checked="" type="checkbox"/> Oct 15 - Nov 2 | | <input checked="" type="checkbox"/> Jan 21 - Feb 8 | | <input type="checkbox"/> Apr 15 - May 3 |
| Block 2 (3 wks) | <input checked="" type="checkbox"/> Aug 13 - Aug 31 | Block 4 (3 wks) | <input checked="" type="checkbox"/> Nov 5 - Nov 23 | Block 6 (3 wks) | <input checked="" type="checkbox"/> Feb 11 - Mar 1 | Block 8 (3 wks) | <input checked="" type="checkbox"/> May 6 - May 24 |
| | <input checked="" type="checkbox"/> Sept 3 - Sept 21 | | <input checked="" type="checkbox"/> Nov 26 - Dec 14 | | <input type="checkbox"/> Mar 4 - Mar 22 | | <input checked="" type="checkbox"/> May 27 - June 14 |

COMMENTS:**COURSE DESCRIPTION:**

This course will introduce students to surgical pathology and cytopathology where they will review slides for diagnosis with an attending, fellows, residents and other students at the microscope. The students are also expected to attend daily morning lectures and conferences.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Understand the process by what a pathologic (histopathologic) specimen is processed in the laboratory before it is available for examination by the pathologist.
2. Understand the role of intraoperative frozen section consultation in operative patient care.
3. Understand the role and utility of fine needle aspiration in workup and diagnosis of mass lesions.
4. Understand the relative utility of histologic and cytologic techniques in the management of patient care.
5. Recognize the role of the pathologist in overall patient care through interactions with clinical colleagues.

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 in surgical pathology for two weeks, including gross examination of specimens, evaluation of frozen sections and microscopic evaluation of biopsy and resection specimens.
2. Participation in Cytopathology for one week, including general cytology sign-out (pap smears and fluid analysis) and performance and evaluation of fine needle aspiration specimens.
3. Attendance at a variety of tumor boards to see the interaction of pathologists with their clinical colleagues.
4. Attendance of general pathology lectures.
5. Identification of a particular topic of interest and presentation of a 5 minute oral presentation with review of the pertinent literature.

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

1. At least 5 frozen section intraoperative consultations
2. Work up 2 major oncology resections and follow them through to appropriate tumor board discussions
3. 10 surgical biopsy specimens
4. At least 5 gynecological pap smears (normal and abnormal) and 5 non-gynecological cytology specimens
5. At least 2 fine needle aspirations and 2 adequacy assessments of mass lesions

EVALUATION / FEEDBACK METHODS:

1. Evaluation by attending physician on surgical and cytology pathology sign-out
2. Observation and evaluation of skills in the frozen section room and during fine needle aspiration by appropriate attending or resident pathologist

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

PATH 888J**Forensic and Medical Autopsy Pathology****Course Director(s):**

Nicholas Batalis, MD

Erin Presnell, MD

Course Coordinator:

Sandy Nelson

792-4459

nelsons@mus.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | | | | | |
|--------------------|----------------------------|--|--------------------|----------------------------|--|--------------------|----------------------------|--|--------------------|----------------------------|--|
| Block 1 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> July 2 - July 20 | Block 3 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Sept 24 - Oct 12 | Block 5 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Jan 2 - Jan 18 | Block 7 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Mar 25 - Apr 12 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> July 23 - Aug 10 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Oct 15 - Nov 2 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Jan 21 - Feb 8 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Apr 15 - May 3 |
| Block 2 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Aug 13 - Aug 31 | Block 4 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Nov 5 - Nov 23 | Block 6 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Feb 11 - Mar 1 | Block 8 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> May 6 - May 24 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Sept 3 - Sept 21 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Nov 26 - Dec 14 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Mar 4 - Mar 22 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> May 27 - June 14 |

COMMENTS:**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.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Identify factors that qualify a death for a forensic autopsy.
2. Identify the benefits and limitations of medical, or hospital, autopsies.
3. Explain the complete details of how an autopsy is performed.
4. Perform uncomplicated autopsy organ dissection.
5. Properly complete the cause and manner of death section on a death certificate.

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. 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 if 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:

1. Students will be evaluated by faculty who will fill out a questionnaire in the E*value system which includes questions addressing all of the core competencies (Medical Knowledge, Patient Care, Professionalism, Interpersonal/Communication Skills, Practice-Based and Life-Long Learning, and System-Based Learning)
2. Attending physicians, forensic fellow, and pathology residents will provide on-site verbal evaluation/feedback about daily service work (medical knowledge, patient care, and system-based learning).
3. Attending physicians, forensic fellow, and pathology residents will provide on-site verbal feedback of the 15 minute student presentation at the end of the rotation (medical knowledge, professionalism, and communication).

CALL:

Will students be expected to participate in call? YES

If yes, please describe the call schedule/frequency:

One weekend day during rotation

PEDS 810J

**School-Age Child in
Developmental/Behavioral**

Course Director(s):

Angela LaRosa, MD

Jennifer Poon, MD

Course Coordinator:

Christine Talbot-Bond

792-8362

talbotbo@muscc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | | | | | | | | | |
|--------------------|---|-------------------------------------|------------------|--------------------|---|-------------------------------------|------------------|--------------------|---|-------------------------------------|----------------|--------------------|---|-------------------------------------|------------------|
| Block 1 (3 wks) | 2 | <input checked="" type="checkbox"/> | July 2 - July 20 | Block 3 (3 wks) | 2 | <input checked="" type="checkbox"/> | Sept 24 - Oct 12 | Block 5 (3 wks) | 2 | <input checked="" type="checkbox"/> | Jan 2 - Jan 18 | Block 7 (3 wks) | 2 | <input checked="" type="checkbox"/> | Mar 25 - Apr 12 |
| | 2 | <input checked="" type="checkbox"/> | July 23 - Aug 10 | | 2 | <input checked="" type="checkbox"/> | Oct 15 - Nov 2 | | 2 | <input checked="" type="checkbox"/> | Jan 21 - Feb 8 | | 2 | <input checked="" type="checkbox"/> | Apr 15 - May 3 |
| Block 2 (3 wks) | 2 | <input checked="" type="checkbox"/> | Aug 13 - Aug 31 | Block 4 (3 wks) | 2 | <input checked="" type="checkbox"/> | Nov 5 - Nov 23 | Block 6 (3 wks) | 2 | <input checked="" type="checkbox"/> | Feb 11 - Mar 1 | Block 8 (3 wks) | 2 | <input checked="" type="checkbox"/> | May 6 - May 24 |
| | 2 | <input checked="" type="checkbox"/> | Sept 3 - Sept 21 | | 2 | <input checked="" type="checkbox"/> | Nov 26 - Dec 14 | | 2 | <input checked="" type="checkbox"/> | Mar 4 - Mar 22 | | 2 | <input checked="" type="checkbox"/> | May 27 - June 14 |

COMMENTS:

COURSE DESCRIPTION:

This outpatient-based rotation will introduce the student to developmental issues in the school-age child and to working directly with subspecialists in developmental pediatrics.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Identify developmental, behavioral, and psychosocial problems using the medical history and exam of the school-age child
2. Describe the typical presentation of common developmental and behavioral problems in the school-age child such as ADHD, sleep problems, enuresis, and encopresis
3. Recognize academic underachievement and conditions that may be responsible such as learning disorders, ADHD, and anxiety
4. Understand the impact of biological, social, and psychological aspects of the family that may lead to behavior problems
5. Distinguish between age-appropriate behavior and abnormal behaviors that may suggest a neurodevelopmental/behavioral disorder
6. Describe the interventions and community services available to children with behavioral problems

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. Taking a complete and relevant history and performing a pertinent physical exam on patients presenting with a potential developmental/behavioral problem
2. Participate in age appropriate screening tools to identify clinically significant behavioral concerns
3. Reading and discussion of current literature on topics outline in objectives as well as topics pertaining to specific patient encounters
4. Observation of behavior management counseling to families (i.e., time-out, token economics, positive and negative reinforcements to extinguish behaviors)

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

1. ADHD (3)
2. Parent-Child Conflict (1)
3. Enuresis (1)
4. Encopresis (1)
5. Sleep Problems (2)
6. Learning Disability (1)
7. Developmental Delay/Disorder (2)
8. ODD (2)
9. Autism and Mental Disability (1)

EVALUATION / FEEDBACK METHODS:

1. Clinical Evaluation Form (Medical Knowledge; Patient Care; Professionalism; Interpersonal/Communication Skills; Practice-based Learning; Systems-based Learning)
2. Direct observation and in-person feedback by attending physicians and residents (Medical Knowledge; Patient Care; Professionalism; Interpersonal/Communication Skills; Practice-based Learning; Systems-based Learning)

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

PEDS 811J

Adolescent Medicine

Course Director(s):

Lynn Manfred, MD

Course Coordinator:

Christine Talbot-Bond

| Student Limit | | Student Limit | | Student Limit | | Student Limit | |
|-----------------|--|-----------------|--|-----------------|--|-----------------|--|
| Block 1 (3 wks) | <input type="checkbox"/> July 2 - July 20 | Block 3 (3 wks) | <input checked="" type="checkbox"/> Sept 24 - Oct 12 | Block 5 (3 wks) | <input checked="" type="checkbox"/> Jan 2 - Jan 18 | Block 7 (3 wks) | <input checked="" type="checkbox"/> Mar 25 - Apr 12 |
| | <input type="checkbox"/> July 23 - Aug 10 | | <input checked="" type="checkbox"/> Oct 15 - Nov 2 | | <input checked="" type="checkbox"/> Jan 21 - Feb 8 | | <input checked="" type="checkbox"/> Apr 15 - May 3 |
| Block 2 (3 wks) | <input type="checkbox"/> Aug 13 - Aug 31 | Block 4 (3 wks) | <input checked="" type="checkbox"/> Nov 5 - Nov 23 | Block 6 (3 wks) | <input checked="" type="checkbox"/> Feb 11 - Mar 1 | Block 8 (3 wks) | <input checked="" type="checkbox"/> May 6 - May 24 |
| | <input checked="" type="checkbox"/> Sept 3 - Sept 21 | | <input checked="" type="checkbox"/> Nov 26 - Dec 14 | | <input checked="" type="checkbox"/> Mar 4 - Mar 22 | | <input checked="" type="checkbox"/> May 27 - June 14 |

COMMENTS:

COURSE DESCRIPTION:

This is a clinical adolescent medicine rotation that allows the student to experience caring for adolescents in a several settings, including a traditional hospital based clinic, a school-based health center, a treatment program and in schools. In addition, the student will be able to see clinical research in action (a teen pregnancy prevention project and an obesity treatment project). The student will be asked to develop his/her own research topic as well.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Conduct a history and physical examination for a health maintenance visit or an acute visit for adolescent patients (11-21 years old) (Patient Care, Medical Knowledge)
2. Assign a sexual maturity rating (Tanner Stage), cognitive maturity estimate, and growth assessment (plot and interpret the height, weight and body mass index) for each patient (Patient Care, Medical Knowledge)
3. Discuss the risks and strengths of each patient and possible approaches to preventative interventions for that patient (Practice-Based Learning)
4. Provide individual preventative counseling for patients (Interpersonal/Communication Skills, Patient Care)

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. Clinical experiences at several sites including Rutledge Tower, School-based Clinics, and Rural Outreach Clinics
2. Read curriculum materials
3. Participate in seminar discussions with Adolescent Medicine faculty and pediatric/med-ped residents
4. Complete case-based discussions

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

1. Adolescent with school problems such as ADD/ADHD (2)
2. Adolescent with STI's (1)
3. Adolescent requesting initiation or maintenance of contraception (2)
4. Adolescent with mood disorder such as depression/adjustment disorder (1)
5. Adolescent with substance use/abuse (1)
6. Adolescent consultations (1)

EVALUATION / FEEDBACK METHODS:

1. Clinical Evaluation Form (Medical Knowledge; Patient Care; Professionalism; Interpersonal/Communication Skills; Practice-based Learning; Systems-based Learning)
2. Direct observation of History and Physical Examination: evaluation forms completed by faculty with categories rated as "Carefully done," "Superficially done," "Not done." Category examples: ascertained chief complaint from patient, elicited appropriate details, reviewed family history, provided counseling. (Patient Care, Professionalism, Interpersonal/Communication Skills)
3. Patient Satisfaction Survey to be completed by patient or parent (Patient Care, Interpersonal/Communication Skills, Professionalism)
4. Participation in seminars and answers submitted for case-based discussions and board questions (Medical Knowledge)

CALL:

Will students be expected to participate in call?

If yes, please describe the call schedule/frequency:

PEDS 812J

Pediatric Cardiology

Course Director(s):

Varsha Bandisode, MD

Course Coordinator:

Christine Talbot-Bond

792-8362

talbotbo@muscc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | |
|--------------------|---|-------------------------------------|------------------|--------------------|---|-------------------------------------|------------------|
| Block 1 (3 wks) | 3 | <input checked="" type="checkbox"/> | July 2 - July 20 | Block 3 (3 wks) | 3 | <input checked="" type="checkbox"/> | Sept 24 - Oct 12 |
| | 3 | <input checked="" type="checkbox"/> | July 23 - Aug 10 | | 3 | <input checked="" type="checkbox"/> | Oct 15 - Nov 2 |
| Block 2 (3 wks) | 3 | <input checked="" type="checkbox"/> | Aug 13 - Aug 31 | Block 4 (3 wks) | 3 | <input checked="" type="checkbox"/> | Nov 5 - Nov 23 |
| | 3 | <input checked="" type="checkbox"/> | Sept 3 - Sept 21 | | 3 | <input checked="" type="checkbox"/> | Nov 26 - Dec 14 |
| Block 5 (3 wks) | 3 | <input checked="" type="checkbox"/> | Jan 2 - Jan 18 | Block 6 (3 wks) | 3 | <input checked="" type="checkbox"/> | Feb 11 - Mar 1 |
| | 3 | <input checked="" type="checkbox"/> | Jan 21 - Feb 8 | | 3 | <input checked="" type="checkbox"/> | Mar 4 - Mar 22 |
| Block 7 (3 wks) | 3 | <input checked="" type="checkbox"/> | Mar 25 - Apr 12 | Block 8 (3 wks) | 3 | <input checked="" type="checkbox"/> | May 6 - May 24 |
| | 3 | <input checked="" type="checkbox"/> | Apr 15 - May 3 | | 3 | <input checked="" type="checkbox"/> | May 27 - June 14 |

COMMENTS:

COURSE DESCRIPTION:

In this rotation, students will work directly with subspecialists in pediatric cardiology in both the inpatient and outpatient settings.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Discuss normal and complex cardiac anatomy and physiology in pediatric patients, the transitioning physiology of the neonate, and the complex cardiac physiology of congenital cardiac disease states
2. Perform a basic pediatric cardiac examination and correlate cardiac exam findings to the cardiac physiology in the neonate and child
3. Identify basic and complex congenital cardiac defects
4. Perform basic electrocardiogram reading for pediatric patients
5. Describe the management and treatment of cardiac arrhythmias in pediatric patients
6. Describe the surgical treatment of congenital heart disease, and the management of congenital and acquired cardiac disease

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. The student will be assigned patients to expose him/her to the daily management of the pediatric cardiac patient. The student will present the history, exam, and relevant studies of the assigned pediatric cardiac patient and formulate an assessment and plan for the patient's continued management and care.
2. Participation in daily rounds and attendance at didactic teaching sessions. During daily rounds, the attending faculty will review his/her own history and physical exams of the patient with the student, particularly focusing on physical findings and important historical factors helpful in making the diagnosis.
3. Participation in the critical evaluation and assessment of the pediatric cardiac consult. Bedside teaching will be provided during the cardiac evaluation.
4. 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.
5. Attendance at cardiology clinics during the rotation to improve pediatric cardiac exam skills and observe outpatient evaluation techniques.
6. Observation of specialized therapeutic modalities which aide in diagnosis and management of the complex pediatric cardiac patient. The student will be given opportunities to observe echocardiography and cardiac catheterization available for delineating complex anatomy and interventional techniques for therapy.

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

1. Up to 4 pediatric cardiac patients, depending on the cardiac inpatient census
2. 1 patient with a common diagnosis (i.e. VSD, ASD, and PDA, and the AV Canal defect)
3. 1 complex cardiac patient, including patients with Single ventricular physiology in varying stages of repair
4. 1 (possible) patient with acquired heart disease, including cardiomyopathy, myocarditis, and Kawasaki's disease
5. 1 critically ill premature or full-term neonate patient with secondary pulmonary hypertension
6. 1 (possible) cyanotic neonatal or pediatric patient

EVALUATION / FEEDBACK METHODS:

1. Clinical Evaluation Form (Medical Knowledge; Patient Care; Professionalism; Interpersonal/Communication Skills; Practice-based Learning; Systems-based Learning)
2. Direct observation and in-person feedback by attending physicians and residents (Medical Knowledge; Patient Care; Professionalism; Interpersonal/Communication Skills; Practice-based Learning; Systems-based Learning)

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

PEDS 813J

Chronic Disease in Peds

Course Director(s):

Michael Bowman, MD, PhD

Course Coordinator:

Christine Talbot-Bond

792-8362

talbotbo@musc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | | | | | | | | | |
|--------------------|----------------------------|-------------------------------------|------------------|--------------------|----------------------------|-------------------------------------|------------------|--------------------|----------------------------|-------------------------------------|----------------|--------------------|----------------------------|-------------------------------------|------------------|
| Block 1 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | July 2 - July 20 | Block 3 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Sept 24 - Oct 12 | Block 5 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Jan 2 - Jan 18 | Block 7 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Mar 25 - Apr 12 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | July 23 - Aug 10 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Oct 15 - Nov 2 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Jan 21 - Feb 8 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Apr 15 - May 3 |
| Block 2 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Aug 13 - Aug 31 | Block 4 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Nov 5 - Nov 23 | Block 6 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Feb 11 - Mar 1 | Block 8 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | May 6 - May 24 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Sept 3 - Sept 21 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Nov 26 - Dec 14 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Mar 4 - Mar 22 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | May 27 - June 14 |

COMMENTS:**COURSE DESCRIPTION:**

In this primarily outpatient rotation, students will have the opportunity be a self-directed learner and gain exposure to 3-4 of the following pediatric specialties, chosen by the student: endocrinology, neurology, pulmonology, nephrology, developmental pediatrics, sickle cell disease, and genetics.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Describe the importance of chronic diseases in Pediatrics, including their occurrence, care, outcome, and impact on the child and family
2. Demonstrate approaches to maximize patient and family functioning
3. Recognize the necessity of multidisciplinary teams to optimize care and family support for children with chronic diseases
4. Describe the challenges chronically-ill children face in school and the resources schools have to assess and help care for such children
5. Recognize and appreciate variations in care style among various caregiver teams and disciplines
6. Describe approaches to maximize compliance with care (getting the family to "buy into" daily care for their child)

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 in patient rounds and related clinic activities with attendings and residents
2. Completion of reading from selected references to fill in fundamental understanding & clinical teaching when pt availability doesn't match learning objectives
3. Attendance at case conferences as available and relevant and completion of CLIPP cases when relevant
4. Completion of special focused learning modules to include pulmonary function testing, EEG lab, renal dialysis (both hemo- and peritoneal), diabetes education, allergy testing, bronchoscopy/GI endoscopy as available and relevant; pre- and post-natal genetic counseling sessions, newborn screening program discussion(s), IEP session
5. Completion of special project report (case study) report at the end of the rotation discussing how principles learned during the rotation apply to a particular patient and family which the student followed throughout the three week rotation (optional)

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

1. 1 patient with sickle cell disease or other hematological issue
2. 1 patient with cystic fibrosis or asthma
3. 1 patient with allergies/immune response disorder
4. 1 patient with developmental delay
5. 1 patient with metabolic disease or condition
6. 1 patient with gastrointestinal disease or condition
7. 1 patient with neurological condition
8. 1 patient with a genetic condition
9. 1 patient with genitourinary disease or condition

EVALUATION / FEEDBACK METHODS:

1. Clinical Evaluation Form (Medical Knowledge; Patient Care; Professionalism; Interpersonal/Communication Skills; Practice-based Learning; Systems-based Learning)
2. Direct observation and in-person feedback by attending physicians and residents (Medical Knowledge; Patient Care; Professionalism; Interpersonal/Communication Skills; Practice-based Learning; Systems-based Learning)

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

PEDS 814J**Prematurity and Its Sequellae****Course Director(s):**

Lakshmii Katikanenii, MD

Michael Bowman, MD, PhD

Course Coordinator:

Christine Talbot-Bond

792-8362

talbotbo@muscd.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | |
|--------------------|----------------------------|-------------------------------------|------------------|--------------------|----------------------------|-------------------------------------|------------------|
| Block 1 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | July 2 - July 20 | Block 3 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Sept 24 - Oct 12 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | July 23 - Aug 10 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Oct 15 - Nov 2 |
| Block 2 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Aug 13 - Aug 31 | Block 4 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Nov 5 - Nov 23 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Sept 3 - Sept 21 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Nov 26 - Dec 14 |
| Block 5 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Jan 2 - Jan 18 | Block 6 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Feb 11 - Mar 1 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Jan 21 - Feb 8 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Mar 4 - Mar 22 |
| Block 7 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Mar 25 - Apr 12 | Block 8 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | May 6 - May 24 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Apr 15 - May 3 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | May 27 - June 14 |

COMMENTS:**COURSE DESCRIPTION:**

This rotation offers students the opportunity to be self-directed learner and gain exposure to both the Level 2 and Level 3 neonatal nurseries. The student will also spend time in the high-risk/prematurity follow-up clinic.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Identify common problems encountered following a premature birth and assist in its management and typical course
2. Discuss the risks of premature birth and the importance of its prevention
3. Describe the physiology of labor
4. Describe the pathophysiology of apnea, bronchopulmonary dysplasia, intraventricular hemorrhage, retinopathy of prematurity, necrotizing enterocolitis, etc.
5. Demonstrate maintenance of family involvement during the prolonged stay in the neonatal intensive care unit (NICU)
6. Maximize patient & family functioning after discharge, including the role of multidisciplinary evaluation, support & follow-up, & the provision of appropriate in-home services
7. Describe growth and development to heal immaturity and injuries
8. Describe how to avoid new complications following hospital discharge

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 in neonatal intensive care unit rounds and related clinic activities with attendings and residents, including attendance at high-risk deliveries
2. Completion of readings from selected references to fill in fundamental understanding and clinical teaching when patient availability does not match learning objectives
3. Attend case conferences as available and relevant and complete CLIPP cases when relevant
4. Completion special focused learning modules to include occupational therapy/physical therapy swallowing evaluation, hearing and retinal evaluations, participation in discharge teaching for an infant from the nursery, diuretic and oxygen therapy, apnea/bradycardia monitor usage

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

1. 1 premature infant with feeding/swallowing issues
2. 1 premature infant with respiratory distress syndrome
3. 1 premature infant with intraventricular hemorrhage or hydrocephalus or cerebral palsy or seizures
4. 1 premature infant with congenital heart disease or 1 premature infant evaluated for congenital heart disease
5. 1 infant or child with syndrome or chromosomal abnormality or other genetic disease
6. 1 premature infant with anemia or other blood dysplasia
7. 1 premature infant with nasogastric or nasoduodenal or gastric or jejunal feeding tube or total parenteral nutrition

EVALUATION / FEEDBACK METHODS:

1. Clinical Evaluation Form (Medical Knowledge; Patient Care; Professionalism; Interpersonal/Communication Skills; Practice-based Learning; Systems-based Learning)
2. Direct observation and in-person feedback by attending physicians and residents (Medical Knowledge; Patient Care; Professionalism; Interpersonal/Communication Skills; Practice-based Learning; Systems-based Learning)

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

PEDS 815J

Gastro-Intestinal Diseases in Pediatrics

Course Director(s):

Bhanu Pillai, MD

Course Coordinator:

Christine Talbot-Bond

792-8362

talbotbo@muscc.edu

| | <u>Student Limit</u> | | <u>Student Limit</u> | | <u>Student Limit</u> | | <u>Student Limit</u> | |
|------------------------|--------------------------------|--|------------------------|--------------------------------|--|------------------------|--------------------------------|--|
| Block 1 (3 wks) | <input type="text" value="2"/> | <input checked="" type="checkbox"/> July 2 - July 20 | Block 3 (3 wks) | <input type="text" value="2"/> | <input checked="" type="checkbox"/> Sept 24 - Oct 12 | Block 5 (3 wks) | <input type="text" value="2"/> | <input checked="" type="checkbox"/> Jan 2 - Jan 18 |
| | <input type="text" value="2"/> | <input checked="" type="checkbox"/> July 23 - Aug 10 | | <input type="text" value="2"/> | <input checked="" type="checkbox"/> Oct 15 - Nov 2 | | <input type="text" value="2"/> | <input checked="" type="checkbox"/> Jan 21 - Feb 8 |
| Block 2 (3 wks) | <input type="text" value="2"/> | <input checked="" type="checkbox"/> Aug 13 - Aug 31 | Block 4 (3 wks) | <input type="text" value="2"/> | <input checked="" type="checkbox"/> Nov 5 - Nov 23 | Block 6 (3 wks) | <input type="text" value="2"/> | <input checked="" type="checkbox"/> Feb 11 - Mar 1 |
| | <input type="text" value="2"/> | <input checked="" type="checkbox"/> Sept 3 - Sept 21 | | <input type="text" value="2"/> | <input checked="" type="checkbox"/> Nov 26 - Dec 14 | | <input type="text" value="2"/> | <input checked="" type="checkbox"/> Mar 4 - Mar 22 |
| | | | | | | Block 7 (3 wks) | <input type="text" value="2"/> | <input checked="" type="checkbox"/> Mar 25 - Apr 12 |
| | | | | | | | <input type="text" value="2"/> | <input checked="" type="checkbox"/> Apr 15 - May 3 |
| | | | | | | Block 8 (3 wks) | <input type="text" value="2"/> | <input checked="" type="checkbox"/> May 6 - May 24 |
| | | | | | | | <input type="text" value="2"/> | <input checked="" type="checkbox"/> May 27 - June 14 |

COMMENTS:

Student must complete Pediatric core rotation prior to taking this selective.

COURSE DESCRIPTION:

In this rotation, students will work directly with pediatric GI subspecialists and have both inpatient and outpatient encounters.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Describe GI diseases in pediatrics, including their occurrence, care, outcome, and impact on child and family
2. Gain exposure to outpatient and inpatient management of various GI diseases
3. Gain appreciation of the importance of nutrition (both enteral and parenteral) for children with GI diseases
4. Gain experience with interpreting growth patterns and PE findings of children with GI diseases
5. Gain exposure to common pediatric GI procedures (EGD, colonoscopy, biopsies, impedance probes)
6. Gain experience interpreting studies for children with GI illnesses (serologies, pathological specimens, radiological studies)

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 integral member of the pediatric GI team
2. Observation of GI procedures, including endoscopy
3. Participation in GI clinics and consults

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

1. Liver disease
2. Inflammatory bowel disease
3. Acute GI issues including bleeding
4. Constipation/encopresis
5. Gastroesophageal reflux disease
6. Abdominal pain

EVALUATION / FEEDBACK METHODS:

1. Clinical Evaluation Form (Medical Knowledge; Patient Care; Professionalism; Interpersonal/Communication Skills; Practice-based Learning; Systems-based Learning)
2. Direct observation and in-person feedback by attending physicians and residents (Medical Knowledge; Patient Care; Professionalism; Interpersonal/Communication Skills; Practice-based Learning; Systems-based Learning)

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

PEDS 816J**Pediatric Hematology and Oncology****Course Director(s):**

Michelle Hudspeth, MD

Course Coordinator:

Christine Talbot-Bond

792-8362

talbotbo@muscc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | |
|--------------------|---|-------------------------------------|------------------|--------------------|---|-------------------------------------|------------------|
| Block 1 (3 wks) | 1 | <input checked="" type="checkbox"/> | July 2 - July 20 | Block 3 (3 wks) | 1 | <input checked="" type="checkbox"/> | Sept 24 - Oct 12 |
| | 1 | <input checked="" type="checkbox"/> | July 23 - Aug 10 | | 1 | <input checked="" type="checkbox"/> | Oct 15 - Nov 2 |
| Block 2 (3 wks) | 1 | <input checked="" type="checkbox"/> | Aug 13 - Aug 31 | Block 4 (3 wks) | 1 | <input checked="" type="checkbox"/> | Nov 5 - Nov 23 |
| | 1 | <input checked="" type="checkbox"/> | Sept 3 - Sept 21 | | 1 | <input checked="" type="checkbox"/> | Nov 26 - Dec 14 |
| Block 5 (3 wks) | 1 | <input checked="" type="checkbox"/> | Jan 2 - Jan 18 | Block 6 (3 wks) | 1 | <input checked="" type="checkbox"/> | Feb 11 - Mar 1 |
| | 1 | <input checked="" type="checkbox"/> | Jan 21 - Feb 8 | | 1 | <input checked="" type="checkbox"/> | Mar 4 - Mar 22 |
| Block 7 (3 wks) | 1 | <input checked="" type="checkbox"/> | Mar 25 - Apr 12 | Block 8 (3 wks) | 1 | <input checked="" type="checkbox"/> | May 6 - May 24 |
| | 1 | <input checked="" type="checkbox"/> | Apr 15 - May 3 | | 1 | <input checked="" type="checkbox"/> | May 27 - June 14 |

COMMENTS:

Student must complete Pediatric core rotation before taking this selective.

COURSE DESCRIPTION:

This is a hands-on rotation on the clinical hematology/oncology services. The student will participate in admissions, discharges, rounds, and daily care of the patients.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Gain exposure to pediatric oncology diseases and common hematological disorders
2. Learn to present relevant clinical information
3. Learn how to interact with families of children suffering from chronic diseases
4. Demonstrate a patient and family-centered and humanistic approach to clinical work

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. 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:

1. Clinical Evaluation Form (Medical Knowledge; Patient Care; Professionalism; Interpersonal/Communication Skills; Practice-based Learning; Systems-based Learning)
2. Direct observation and in-person feedback by attending physicians and residents (Medical Knowledge; Patient Care; Professionalism; Interpersonal/Communication Skills; Practice-based Learning; Systems-based Learning)

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

PEDS 886J

Renal Disease in Pediatrics

Course Director(s):

John Orak, MD

Course Coordinator:

Christine Talbot-Bond

792-8362

talbotbo@musc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | |
|--------------------|---|-------------------------------------|------------------|--------------------|---|-------------------------------------|------------------|
| Block 1 (3 wks) | 2 | <input checked="" type="checkbox"/> | July 2 - July 20 | Block 3 (3 wks) | 2 | <input checked="" type="checkbox"/> | Sept 24 - Oct 12 |
| | 2 | <input checked="" type="checkbox"/> | July 23 - Aug 10 | | 2 | <input checked="" type="checkbox"/> | Oct 15 - Nov 2 |
| Block 2 (3 wks) | 2 | <input checked="" type="checkbox"/> | Aug 13 - Aug 31 | Block 4 (3 wks) | 2 | <input checked="" type="checkbox"/> | Nov 5 - Nov 23 |
| | 2 | <input checked="" type="checkbox"/> | Sept 3 - Sept 21 | | 2 | <input checked="" type="checkbox"/> | Nov 26 - Dec 14 |
| Block 5 (3 wks) | 2 | <input checked="" type="checkbox"/> | Jan 2 - Jan 18 | Block 6 (3 wks) | 2 | <input checked="" type="checkbox"/> | Feb 11 - Mar 1 |
| | 2 | <input checked="" type="checkbox"/> | Jan 21 - Feb 8 | | 2 | <input checked="" type="checkbox"/> | Mar 4 - Mar 22 |
| Block 7 (3 wks) | 2 | <input checked="" type="checkbox"/> | Mar 25 - Apr 12 | Block 8 (3 wks) | 2 | <input checked="" type="checkbox"/> | May 6 - May 24 |
| | 2 | <input checked="" type="checkbox"/> | Apr 15 - May 3 | | 2 | <input checked="" type="checkbox"/> | May 27 - June 14 |

COMMENTS:**COURSE DESCRIPTION:**

In this rotation, students will work directly with pediatric renal subspecialists and have both inpatient and outpatient encounters.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Describe renal diseases in Pediatrics, including their occurrence, care, outcome, and impact on the child and family
2. Gain exposure to outpatient and inpatient management of various renal diseases
3. Gain insight in to the assessment treatment of hypertension for children w/various chronic diseases & the effects seen during childhood on all organ systems
4. Gain appreciation of the importance of the effects of steroids on growth and development of children with nephrotic syndrome
5. Gain experience w/interpreting growth patterns and PE findings of children with renal illnesses (e.g. pitting edema, anasarca, pulmonary crackles, murmurs)
6. Gain experience interpreting studies for children with renal illness (e.g., urinalyses, chemistries, 24 hour urine studies, radiological studies, renal biopsies)
7. Gain exposure to pediatric dialysis
8. Gain understanding of renal transplants (indication, how children qualify, associated immune suppression, effects on family)

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 in patient consults (inpatient) and related clinic activities with attendings and residents
2. Participation in clinic sessions with physicians and ancillary staff
3. Completion of readings from selected references to fill in fundamental understanding and clinical teaching when patient availability does not match learning objectives

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

1. hematuria
2. proteinuria
3. nephritic syndrome
4. focal sclerotic glomerulonephritis
5. hypertension
6. systemic lupus nephritis or other chronic disease that involves the renal system
7. renal transplant

EVALUATION / FEEDBACK METHODS:

1. Clinical Evaluation Form (Medical Knowledge; Patient Care; Professionalism; Interpersonal/Communication Skills; Practice-based Learning; Systems-based Learning)
2. Direct observation and in-person feedback by attending physicians and residents (Medical Knowledge; Patient Care; Professionalism; Interpersonal/Communication Skills; Practice-based Learning; Systems-based Learning)

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

PSYCH 811J**Child and Adolescents Psychiatry****Course Director(s):**

Matt Koval, MD

Course Coordinator:

Melissa Jacob

792-0343

jacobm@musc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | | | | | |
|--------------------|----------------------------|--|--------------------|----------------------------|--|--------------------|----------------------------|--|--------------------|----------------------------|--|
| Block 1 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> July 2 - July 20 | Block 3 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Sept 24 - Oct 12 | Block 5 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Jan 2 - Jan 18 | Block 7 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Mar 25 - Apr 12 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> July 23 - Aug 10 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Oct 15 - Nov 2 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Jan 21 - Feb 8 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Apr 15 - May 3 |
| Block 2 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Aug 13 - Aug 31 | Block 4 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Nov 5 - Nov 23 | Block 6 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Feb 11 - Mar 1 | Block 8 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> May 6 - May 24 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Sept 3 - Sept 21 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Nov 26 - Dec 14 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> Mar 4 - Mar 22 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> May 27 - June 14 |

COMMENTS:**COURSE DESCRIPTION:**

The student will participate in the evaluation and management of a variety of childhood/adolescent psychiatric disorders on an acute inpatient psychiatric unit under the supervision of an attending psychiatrist. The inpatient program at the Institute of Psychiatry provides brief crisis stabilization of youth (5-18) with severe emotional and/or behavioral disorders. The treatment team works closely with the patient, the family, and community providers to stabilize the crisis, improve coping skills and communication, and to ensure a smooth transition back to the community.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Diagnose various childhood psychiatric disorders in an acute care setting and describe methods used to stabilize these patients.
2. Interact effectively with families, children, and members of the treatment team.
3. Understand various treatment methods used in childhood psychiatric disorders including psychopharmacology, group therapy, and family therapy.

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 on treatment team rounds.
2. Attendance at departmental grand rounds and service case conferences.
3. Participation in individual treatment sessions under the supervision of an attending physician and/or resident and/or unit social worker.
4. Participation in family therapy sessions under the supervision of an attending physician and/or resident and/or unit social worker.

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

1. attention deficit hyperactivity disorder
2. oppositional defiant disorder/conduct disorder
3. mood disorder
4. anxiety disorder
5. substance use disorder

EVALUATION / FEEDBACK METHODS:

1. Direct observation of patient care skills by the attending psychiatrist. (Patient Care and Interpersonal/communication Skills)
2. Students will receive verbal feedback about their performance following rounds and treatment sessions, as well as at the end of the rotation. (Medical Knowledge, Patient Care, Professionalism, Interpersonal/Communication Skills, Practice-Based and Life-Long Learning, and System-Based Learning)
3. Clinical Evaluation Form (Medical Knowledge, Patient Care, Professionalism, Interpersonal/Communication Skills, Practice-Based and Life-Long Learning, and System-Based Learning)

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

PSYCH 812J

Geriatric Psychiatry

Course Director(s):

Ed Weiss, MD

Course Coordinator:

Melissa Jacob

792-0343

jacobm@musc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | |
|--------------------|---|-------------------------------------|------------------|--------------------|---|-------------------------------------|------------------|
| Block 1 (3 wks) | 1 | <input checked="" type="checkbox"/> | July 2 - July 20 | Block 3 (3 wks) | 1 | <input checked="" type="checkbox"/> | Sept 24 - Oct 12 |
| | 1 | <input checked="" type="checkbox"/> | July 23 - Aug 10 | | 1 | <input checked="" type="checkbox"/> | Oct 15 - Nov 2 |
| Block 2 (3 wks) | 1 | <input checked="" type="checkbox"/> | Aug 13 - Aug 31 | Block 4 (3 wks) | 1 | <input checked="" type="checkbox"/> | Nov 5 - Nov 23 |
| | 1 | <input checked="" type="checkbox"/> | Sept 3 - Sept 21 | | 1 | <input checked="" type="checkbox"/> | Nov 26 - Dec 14 |
| Block 5 (3 wks) | 1 | <input checked="" type="checkbox"/> | Jan 2 - Jan 18 | Block 6 (3 wks) | 1 | <input checked="" type="checkbox"/> | Feb 11 - Mar 1 |
| | 1 | <input checked="" type="checkbox"/> | Jan 21 - Feb 8 | | 1 | <input checked="" type="checkbox"/> | Mar 4 - Mar 22 |
| Block 7 (3 wks) | 1 | <input checked="" type="checkbox"/> | Mar 25 - Apr 12 | Block 8 (3 wks) | 1 | <input checked="" type="checkbox"/> | May 6 - May 24 |
| | 1 | <input checked="" type="checkbox"/> | Apr 15 - May 3 | | 1 | <input checked="" type="checkbox"/> | May 27 - June 14 |

COMMENTS:**COURSE DESCRIPTION:**

Students on this selective have the opportunity to work with an interdisciplinary treatment team on an inpatient psychiatric unit treating geriatric (> 65 years old) with a variety of psychiatric disorders. Common disorders encountered include depression and dementia, and students assist in the completion of initial and follow up interviews of patients and families.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Perform psychiatric work-up of an elderly person with dementia, affective illness, or delirium.
2. Perform clinical evaluation of cognitive capacity of an elderly person.
3. Assess activities of daily living in an elderly person.
4. Select appropriate psychopharmacological treatments and tailor treatment to a geriatric patient.
5. Understand and apply the use of the milieu and interpersonal techniques in treatment of a geriatric patient.

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, prognosis.

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

1. patients with dementia
2. patients with depression
3. patients with delirium

EVALUATION / FEEDBACK METHODS:

1. Observations of student's interviewing skills and overall interactions with patients and families. (Patient Care, Professionalism, Interpersonal/Communication Skills)
2. Observation of student's presentations and discussions of patient care. (Interpersonal/Communication Skills)
3. At the end of the rotation, students will again receive verbal feedback about their performance. (Medical Knowledge, Patient Care, Professionalism, Interpersonal/Communication Skills, Practice-Based and Life-Long Learning, and System-Based Learning)
4. Clinical Evaluation Form (Medical Knowledge, Patient Care, Professionalism, Interpersonal/Communication Skills, Practice-Based and Life-Long Learning, and System-Based Learning)

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

PSYCH 813J**Substance Abuse****Course Director(s):**

Tara Wright, MD

Course Coordinator:

Melissa Jacob

792-0343

jacobm@musc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | | | | | | | | | |
|--------------------|----------------------------|-------------------------------------|------------------|--------------------|----------------------------|-------------------------------------|------------------|--------------------|----------------------------|-------------------------------------|----------------|--------------------|----------------------------|-------------------------------------|------------------|
| Block 1 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | July 2 - July 20 | Block 3 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Sept 24 - Oct 12 | Block 5 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Jan 2 - Jan 18 | Block 7 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Mar 25 - Apr 12 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | July 23 - Aug 10 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Oct 15 - Nov 2 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Jan 21 - Feb 8 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Apr 15 - May 3 |
| Block 2 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Aug 13 - Aug 31 | Block 4 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Nov 5 - Nov 23 | Block 6 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Feb 11 - Mar 1 | Block 8 (3 wks) | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | May 6 - May 24 |
| | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Sept 3 - Sept 21 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Nov 26 - Dec 14 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | Mar 4 - Mar 22 | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> | May 27 - June 14 |

COMMENTS:

MEETING TIME AND PLACE Ralph H Johnson VAMC – 5th floor, Mental Health; 8:00 am

COURSE DESCRIPTION:

The substance abuse treatment clinic at the Charleston VAMC is a full service intensive outpatient program. Students on this rotation will have the opportunity to observe and participate in the treatment of patients who require detoxification, stabilization, and maintenance treatment, both for their substance use disorders, as well as comorbid psychiatric disorders. Students will have the opportunity to interact with the interdisciplinary treatment team and they are also encouraged to attend group therapy sessions.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Perform an appropriate psychiatric evaluation for a patient with substance use disorder(s) with or without co-morbid psychiatric illness(es).
2. Describe treatment options for detoxification and rehabilitation for the following substances: Alcohol/benzodiazepines, opioids, cocaine, marijuana, nicotine.
3. Differentiate between a substance induced mood/psychotic disorder and a primary mood/psychotic disorder.
4. Describe the pharmacologic options for treating substance use disorders, including alcohol dependence, opioid withdrawal and dependence, and nicotine dependence.
5. Describe the medical complications that can occur with heavy alcohol, nicotine, opioid, and cocaine use.

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. Evaluating patients with substance use disorders in the outpatient clinic and discussing the patient with the resident and/or attending on the service.
2. Evaluating patients with substance use disorders in consultation to the inpatient psychiatric, medicine, and surgical services at the VAMC.
3. Presenting and writing their patient encounters as described above.
4. Attending and participating in rotation specific didactics.
5. Conducting a brief presentation on a topic of their choice within the area of substance abuse.

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

1. alcohol dependent patients
2. cocaine dependent patients
3. nicotine dependent patients
4. patient with co-morbid substance use disorder and anxiety, depression, psychosis, mania
5. patient with opioid, marijuana, or other substance abuse or dependence

EVALUATION / FEEDBACK METHODS:

1. Individual supervision for each patient encounter by the selective director.
2. Additional supervision for charting/documentation and interviewing skills by the selective director and resident. (Medical Knowledge, Patient Care, Professionalism)
3. Student's presentation on selected topic to be graded by selective director. (Professionalism, Interpersonal/Communication Skills, Practice-Based and Life-Long Learning)
4. The selective director will provide feedback to student at the end of each week. (Medical Knowledge, Patient Care, Professionalism, Interpersonal/Communication Skills, Practice-Based and Life-Long Learning, and System-Based Learning)
5. Clinical Evaluation Form (Medical Knowledge, Patient Care, Professionalism, Interpersonal/Communication Skills, Practice-Based and Life-Long Learning, and System-Based Learning)

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

PSYCH 859J**Sexual Behaviors Clinic and Lab****Course Director(s):**

Greg Dwyer, MD

Course Coordinator:

Melissa Jacob

792-0343

jacobm@musc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | | | | | | | | | |
|--------------------|---|-------------------------------------|------------------|--------------------|---|-------------------------------------|------------------|--------------------|---|-------------------------------------|----------------|--------------------|---|-------------------------------------|------------------|
| Block 1 (3 wks) | 1 | <input checked="" type="checkbox"/> | July 2 - July 20 | Block 3 (3 wks) | 1 | <input checked="" type="checkbox"/> | Sept 24 - Oct 12 | Block 5 (3 wks) | 1 | <input checked="" type="checkbox"/> | Jan 2 - Jan 18 | Block 7 (3 wks) | 1 | <input checked="" type="checkbox"/> | Mar 25 - Apr 12 |
| | 1 | <input checked="" type="checkbox"/> | July 23 - Aug 10 | | 1 | <input checked="" type="checkbox"/> | Oct 15 - Nov 2 | | 1 | <input checked="" type="checkbox"/> | Jan 21 - Feb 8 | | 1 | <input checked="" type="checkbox"/> | Apr 15 - May 3 |
| Block 2 (3 wks) | 1 | <input checked="" type="checkbox"/> | Aug 13 - Aug 31 | Block 4 (3 wks) | 1 | <input checked="" type="checkbox"/> | Nov 5 - Nov 23 | Block 6 (3 wks) | 1 | <input checked="" type="checkbox"/> | Feb 11 - Mar 1 | Block 8 (3 wks) | 1 | <input checked="" type="checkbox"/> | May 6 - May 24 |
| | 1 | <input checked="" type="checkbox"/> | Sept 3 - Sept 21 | | 1 | <input checked="" type="checkbox"/> | Nov 26 - Dec 14 | | 1 | <input checked="" type="checkbox"/> | Mar 4 - Mar 22 | | 1 | <input checked="" type="checkbox"/> | May 27 - June 14 |

COMMENTS:

This selective rotation is located in West Ashley at the Leinbach Drive office. For questions please contact Melissa Jacob.

COURSE DESCRIPTION:

During the course of this selective students will have the opportunity to participate in evaluations of patients with unhealthy, problem, or offending sexual behaviors. Evaluations can include records reviews, clinical interviews, psychometrics, and an introduction to physiological assessments. Students will participate in the treatment of persons with sexual problems and offending behaviors, including individual and group educational and therapy session and medication management.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Demonstrate an understanding of healthy and unhealthy sexual behaviors exhibited by adults, adolescents and children.
2. Describe the approach to the evaluation and treatment of persons with sexual disorders and other problem and offending sexual behaviors.

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. The primary teaching modality is supervised participation and case discussions.
2. Individualized didactic teaching and independent study will be used on a case-by-case basis as supplements.

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

1. Patients with one or more sexual disorder and/or paraphilia
2. Patients with sexual disorder/paraphilia and co-morbid psychiatric illness.
3. Students will be expected to attend at least 3 medication management clinics, 3 educational group sessions, and 3 group therapy sessions.

EVALUATION / FEEDBACK METHODS:

1. Individual supervision and feedback by the selective director or other SCBL faculty for each patient encounter. (Patient Care, Professionalism, Interpersonal/Communication Skills)
2. Additional supervision focusing on documentation by the elective director or other SCBL faculty. (Patient Care, Professionalism, Interpersonal/Communication Skills)
3. The selective director and/or other SBCL faculty will provide feedback to student at the end of each week, and the selective director will provide feedback to the student at the conclusion of the rotation. (Medical Knowledge, Patient Care, Professionalism, Interpersonal/Communication Skills, Practice-Based and Life- Long Learning, and System-Based Learning)
4. Clinical Evaluation Form (Medical Knowledge, Patient Care, Professionalism, Interpersonal/Communication Skills, Practice-Based and Life- Long Learning, and System-Based Learning)

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

RAD 880J

Radiology

Course Director(s):

Jeanne Hill, MD

Course Coordinator:

Jeanne Caire

792-0337

caire@muscc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | |
|--------------------|---|--------------------|---|--------------------|---|--------------------|---|
| Block 1 (3 wks) | <input type="checkbox"/> July 2 - July 20 <input checked="" type="checkbox"/> July 23 - Aug 10 | Block 3 (3 wks) | <input type="checkbox"/> Sept 24 - Oct 12 <input checked="" type="checkbox"/> Oct 15 - Nov 2 | Block 5 (3 wks) | <input type="checkbox"/> Jan 2 - Jan 18 <input checked="" type="checkbox"/> Jan 21 - Feb 8 | Block 7 (3 wks) | <input checked="" type="checkbox"/> Mar 25 - Apr 12 <input checked="" type="checkbox"/> Apr 15 - May 3 |
| Block 2 (3 wks) | <input checked="" type="checkbox"/> Aug 13 - Aug 31 <input type="checkbox"/> Sept 3 - Sept 21 | Block 4 (3 wks) | <input type="checkbox"/> Nov 5 - Nov 23 <input type="checkbox"/> Nov 26 - Dec 14 | Block 6 (3 wks) | <input checked="" type="checkbox"/> Feb 11 - Mar 1 <input type="checkbox"/> Mar 4 - Mar 22 | Block 8 (3 wks) | <input checked="" type="checkbox"/> May 6 - May 24 <input type="checkbox"/> May 27 - June 14 |

COMMENTS:**COURSE DESCRIPTION:**

During this rotation, students will be exposed to the spectrum of radiology through observational rotations in subspecialty areas of imaging, lectures, self-directed tutorials and readings, role playing exercises, presentations and assignments.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

- Describe the following: the spectrum of diagnostic radiology as well as diagnostic and therapeutic image-guided interventional techniques; the appropriate sequencing of exams and limitations of diagnostic imaging tests including cost-effectiveness imaging studies; the risks of medical imaging; to patients how common procedures and imaging are performed.
- Appreciate the following: the breadth of medical knowledge necessary for imaging performance and interpretation; the spectrum of caregivers involved in diagnostic and therapeutic imaging areas; the fundamental role and value of imaging to provide timely, accurate and actionable diagnostic information regarding a patient's medical condition; the role of the radiologist as consultant to the clinician and importance of providing detailed clinical information.
- Recognize the indications and appropriateness of imaging studies for common clinical problems, and apply basic interpretive skills to evaluate basic imaging studies – predominately plain films and CT.
- Participate in imaging interpretation including basic study identification, recognition of normal radiographic and cross-sectional anatomy, and common pathology as depicted on common studies
- Evaluate a chest X-ray for technical adequacy and be able to identify normal anatomy and common and/or potentially life-threatening abnormalities including a pneumothorax, pneumoperitoneum, pleural effusion, congestive failure, diaphragmatic rupture, and misplaced support devices such as endotracheal and enteric tubes.

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:)

- Clinical Exposure: Every student will have the opportunity to spend time in the following subspecialty areas: Chest, Cardiac, Body Imaging, Neuroradiology, Nuclear Medicine, Pediatrics, Ultrasound, Musculoskeletal, and Vascular Interventional; during which time they will participate in a variety of clinical services, interact with residents and faculty, be exposed to normal and abnormal imaging studies, and may be asked to assist radiology residents and attendings in gathering patient clinical data for the interpretation of imaging studies.
- Lectures and Conferences: In addition to daily lectures given by the radiology faculty (1-2hrs), students are encouraged to attend tumor boards and multidisciplinary conferences while rotating on the clinical services.
- Self-Directed Anatomy Review and Reading Assignments: The students will complete web-based review of pertinent radiologic and cross-sectional anatomy as well as web-based AHRQ Morbidity and Mortality Clinical Scenarios on various radiologic topics. Additionally, students will be expected to complete the text, Felson's Principles of Chest Roentgenology by Lawrence Goodman, and will be given First Aid, Radiology for the Wards as a reference tool.
- Role Playing Exercise: The students will select 1 or 2 procedures from a list of common radiologic procedures, observe the procedure and research the procedure online using RSNA's Patient Education site. At the end of the first week of the rotation, each student will be asked to explain the procedure to a patient (another student), be sure they don't have any contraindications for the procedure and answer any concerns or questions.
- Evidence Based Imaging Conferences: At the end of the second week, the students will present a Case Scenario selected from 25 common clinical scenarios, develop a differential diagnosis, research the appropriate imaging workup using the evidence based ACR Appropriateness Criteria, and then create and present a 5-10 minute Powerpoint presentation, which will include the clinical case, differential diagnostic considerations, recommended imaging workup, potential complications, contraindications, relative cost, and relative radiation dose of the imaging involved.
- Dictation module: The students will review 5 plain films of common pathologic conditions and create dictations following the ACR Practice Guideline for the Communication of Diagnostic Imaging Findings and a provided Dictation Template.

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

- 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.
- Students will observe patients undergoing a variety of imaging procedures.

EVALUATION / FEEDBACK METHODS:

- Evaluation of student participation in the faculty conferences and clinical rotations (Professionalism, Patient Care, Systems Based Learning)
- Evaluation of student performance in the Role Playing Exercise and on the Evidence Based Imaging Powerpoint presentation (Medical Knowledge, Professionalism, Interpersonal/Communication Skills, Systems Based Learning)
- Performance on two quizzes which will be based on the material presented in conferences, anatomy review, and assigned readings online and in the Felson's Principles of Chest Roentgenology. (Medical Knowledge, Practice Based and Life-Long Learning)

CALL:

Will students be expected to participate in call? NO

RDONC 880J

Radiation Oncology

Course Director(s):

Joseph Jenrette, MD

Course Coordinator:

Carla Taylor

792-3273

taylorce@musc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | |
|--------------------|---|-------------------------------------|------------------|--------------------|---|-------------------------------------|------------------|
| Block 1 (3 wks) | 1 | <input checked="" type="checkbox"/> | July 2 - July 20 | Block 3 (3 wks) | 1 | <input checked="" type="checkbox"/> | Sept 24 - Oct 12 |
| | 1 | <input checked="" type="checkbox"/> | July 23 - Aug 10 | | 1 | <input checked="" type="checkbox"/> | Oct 15 - Nov 2 |
| Block 2 (3 wks) | 1 | <input checked="" type="checkbox"/> | Aug 13 - Aug 31 | Block 4 (3 wks) | 1 | <input checked="" type="checkbox"/> | Nov 5 - Nov 23 |
| | 1 | <input checked="" type="checkbox"/> | Sept 3 - Sept 21 | | 1 | <input checked="" type="checkbox"/> | Nov 26 - Dec 14 |
| Block 5 (3 wks) | 1 | <input checked="" type="checkbox"/> | Jan 2 - Jan 18 | Block 6 (3 wks) | 2 | <input checked="" type="checkbox"/> | Feb 11 - Mar 1 |
| | 1 | <input checked="" type="checkbox"/> | Jan 21 - Feb 8 | | 2 | <input checked="" type="checkbox"/> | Mar 4 - Mar 22 |
| Block 7 (3 wks) | 2 | <input checked="" type="checkbox"/> | Mar 25 - Apr 12 | Block 8 (3 wks) | 2 | <input checked="" type="checkbox"/> | May 6 - May 24 |
| | 2 | <input checked="" type="checkbox"/> | Apr 15 - May 3 | | 2 | <input checked="" type="checkbox"/> | May 27 - June 14 |

COMMENTS:**COURSE DESCRIPTION:**

Introduce the role of radiation and the multidisciplinary nature of the management of malignant disease.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Assess the need for radiation in the management of malignancies.
2. Demonstrate working with a multidisciplinary cancer team.
3. Demonstrate a fundamental knowledge about radiation treatment planning.
4. Demonstrate proficiency in examining patients.
5. Formulate a treatment program for care.

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. Attendance at formal journal clubs.
2. Attendance at routine teaching conferences.
3. Working one-on-one with attending and resident team in patient care activities.
4. Attendance at multidisciplinary tumor boards.
5. Participation in multidisciplinary cancer clinics.

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

1. One patient with breast cancer.
2. One patient with lung cancer.
3. One patient with prostate cancer.
4. One pediatric patient with cancer.
5. One patient with head and neck cancer.

EVALUATION / FEEDBACK METHODS:

1. Direct observation of clinical and patient care skills by attendings and residents.
2. Completion of a brief oral examination on basic concepts in Radiation Oncology and graded by the course director.

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

UROL 880J**Urology****Course Director(s):**

Harry S. Clarke, Jr., MD, PhD

Course Coordinator:

Tracy Washington

792-4538

washintl@muscc.edu

| Student Limit | | Student Limit | | Student Limit | | Student Limit | |
|--------------------|--|--------------------|---|--------------------|--|--------------------|--|
| Block 1 (3 wks) | <input type="checkbox"/> July 2 - July 20 <input type="checkbox"/> July 23 - Aug 10 | Block 3 (3 wks) | <input type="checkbox"/> Sept 24 - Oct 12 <input checked="" type="checkbox"/> Oct 15 - Nov 2 | Block 5 (3 wks) | <input checked="" type="checkbox"/> 4 Jan 2 - Jan 18 <input checked="" type="checkbox"/> 4 Jan 21 - Feb 8 | Block 7 (3 wks) | <input checked="" type="checkbox"/> 4 Mar 25 - Apr 12 <input checked="" type="checkbox"/> 4 Apr 15 - May 3 |
| Block 2 (3 wks) | <input type="checkbox"/> Aug 13 - Aug 31 <input type="checkbox"/> Sept 3 - Sept 21 | Block 4 (3 wks) | <input checked="" type="checkbox"/> 4 Nov 5 - Nov 23 <input checked="" type="checkbox"/> 4 Nov 26 - Dec 14 | Block 6 (3 wks) | <input checked="" type="checkbox"/> 4 Feb 11 - Mar 1 <input checked="" type="checkbox"/> 4 Mar 4 - Mar 22 | Block 8 (3 wks) | <input checked="" type="checkbox"/> 4 May 6 - May 24 <input checked="" type="checkbox"/> 4 May 27 - June 14 |

COMMENTS:**COURSE DESCRIPTION:**

This course is for the medical student who has an interest in learning more about urology or is considering urology as a career. The student functions as an assistant intern in both inpatient and outpatient clinical areas.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. The ability to perform a Genitourinary exam on adults and pediatric patients (male and female)
2. The ability to take a sexual history
3. The ability to perform and understand a rectal exam
4. The basic assessment of a patient with renal colic
5. A knowledge and ability to discuss the basic issues with regard to GU malignancies, in particular Prostate Cancer and Prostate Specific Antigen (PSA) testing.

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. Observe and participate in the urology operating rooms.
2. Participate in the morning and evening inpatient surgical rounds.
3. Observe and assist with outpatient urological procedures (e.g. urodynamics, cystoscopy, vasectomy, prostate biopsy).
4. Attend and participate in all urological conferences.

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

1. Prostate Cancer
2. Voiding Dysfunctions/Incontinence
3. Nephrolithiasis
4. Bladder Cancer
5. Renal Cancer

EVALUATION / FEEDBACK METHODS:

1. Direct observation of clinical and patient care skills by the chief resident (practice-based)
2. Direct observation of clinical and patient care skills by the attending urologist (practice-based)
3. Clinical Evaluation Form (patient care and professionalism)
4. Conference Discussions (Medical Knowledge)
5. Rounding with residents and faculty (patient care)

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency: