AY 2023-2024 2-WEEK SELECTIVES

Course #	Course Title
ANES 880J	Anesthesiology & Perioperative Medicine
DERM 880J	Dermatology
EMED 895J	Emergency Medicine
FAMMD 880J	Family Medicine Inpatient Service
MED 820J	Outpatient Allergy & Immunology
MED 849J	Pulmonary Medicine VA
MED 891J	Hepatology
MED 894J	Subspecialty Consults/Clinics/Conferences
MED 897J	VA Cardiology & EKG
MED 898J	Care of the Diabetic Patient
MED 899J	Endocrinology/Neoplasia
MED 900J	Inpatient Cardiology
MED 901J	Hematology Ward
MED 995J	Nephrology Consult
NSGY 802J	General Neurosurgery
OBGYN 876J	Maternal-Fetal Medicine Ultrasound
OPHTH 880J	Ophthalmology
OSURG 880J	Orthopaedic Surgery
OTOL 880J	Otolaryngology Overview
PATHO 885J	Hematopathology/Flow Cytometry
PATHO 886J	Surgical Pathology & Cytopathology
PATHO 888J	Forensic & Medical Autopsy Pathology
PEDS 810J	Introduction to Devleopmental-Behavioral Pediatrics
PEDS 812J	Pediatric Cardiology
PEDS 813J	Pediatric Subspecialties
PEDS 819J	Pediatric Allergy, Asthma, & Immunology
PEDS 886J	Renal Disease in Pediatrics
PMR 880J	Physical Medicine & Rehab
PSYCH 811J	Child & Adolescent Psychiatry
PSYCH 812J	Geriatric Psychiatry
PSYCH 817J	VA Psychiatry Consultation Liaison
RAD 880J	Diagnostic Radiology
RAD 886J	Vascular & Internventional Radiology
RDONC 880J	Radiation Oncology
SURG 802J	General Surgery Subspecialties
UROL 880J	Urology

ANES 880J: Anesthesiology & Perioperative Medicine

Course Director: Katie Herbert, MD
Email: herbertk@musc.edu

Course Coordinator: Kimberly Bartlett
Telephone #: 843-792-4365
Email: bartletk@musc.edu

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Block 2B	3	Block 4B	3	Block 6B	3	Block 8B	6
Block 2C	3	Block 4C	3	Block 6C	3	Block 8C	0

COURSE DESCRIPTION:
This rotation is an introduction to anesthesia perioperative medicine. The student will acquire a working knowledge of commonly used anesthetic agents, techniques, and airway management. Teaching includes attendance at resident-oriented lectures, medical student-oriented lectures, grand rounds, and simulation seminars. Students will be in the ORs across campus including University Hospital ORs, ART ORs, VA ORs, Rutledge Tower ORs, Shawn Jenkins ORs, and Labor & Delivery ORs and floor.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation, students should be able to do the following:
1. Perform bag mask ventilation. Observe and possibly demonstrate intubation, LMAs (laryngeal mask airways) placement, arterial line insertion, and intravenous placement. (PC2, MK5)
2. Discuss cardiovascular and pulmonary physiology as applied in a variety of clinical settings and disease processes as well as discuss clinically applicable pharmacokinetics and pharmacodynamics across various pharmacologic therapies. (MK4, MK3, CS1)
3. Describe 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. (MK5, PC1, PC3)
4. Communicate basic Advanced Cardiac Life Support principles with particular attention placed on airway management and understand the basics of Difficult Airway Management as demonstrated in a simulation course. (MK1, MK4, PC1)
5. Demonstrate professional behavior in preoperative encounters with patients, their families, surgeons, and other OR staff understanding the stress and anxiety involved in this period. (CS1, IP3, PR1)

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 assignments in the operating rooms and completion of two patient case planning pages to be discussed with attending or resident physician.
2. Attendance at Tuesday morning grand rounds, Tuesday afternoon simulation sessions (led by attending anesthesiologist), Wednesday afternoon resident lectures, Thursday afternoon medical student lectures (led by an anesthesia resident).
3. Completion of assigned reading chapters to cover topics like cardiovascular, pulmonary, pharmacology, and airway management and those which are covered in the residency lectures.
4. Review of arterial blood gas (ABG) interpretation and treatment of various physiologic derangements able to be diagnosed from an ABG.
5. Demonstrate knowledge of Daily Assigned Rotation Topics by studying and then discussing these topics with anesthesia resident.

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Patients with cardiovascular, pulmonary, renal, hepatic, and neurologic diseases undergoing surgery
2. Patients undergoing labor epidural or c-section
3. Patients undergoing elective surgery, emergency surgery related to trauma or infection

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation.
2. Direct observation of clinical skills performance by residents and attendings each day and discussion of didactic/reading topics, with application to daily clinical cases.

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

DERM 880J: Dermatology

Course Director: Marta Hampton, MD; Stephanie Smith-Phillips, MD; Laura Winterfield, MD
Email: hamptonm@musc.edu; smithphi@musc.edu; winterfi@musc.edu

Course Coordinator: Mark Lynch
Telephone #: 843-876-5074
Email: lynchd@musc.edu

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Block 2B	1	Block 4B	1	Block 6B	1	Block 8B	1
Block 2C	0	Block 4C	0	Block 6C	0	Block 8C	0

COURSE DESCRIPTION:
This selective is held at a university-affiliated private dermatology practice, and students will have the opportunity to participate in the care of a broad spectrum of patients in both the pediatric and adult age groups. Students will be assigned to an available physician.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Conduct a complete skin exam. (MK1, MK3, MK4, MK5, MK6, MK7, MK8, PC1, PC2, PC3, PC4, PC5, PC6, PC7)
2. Establish a differential diagnosis for a cutaneous tumor. (MK6, PC2)
3. Recognize and describe common inflammatory dermatoses. (MK3, PC1)
4. Determine the appropriate diagnostic procedure to provide information for a definitive diagnosis (punch biopsy vs. shave biopsy vs. excision vs. laboratory testing). (MK5, PC3)
5. Decide on initiation of therapy for common dermatoses. (MK6, MK8, PC3, PC6, PC7)

INSTRUCTIONAL METHODOLOGIES AND ROTATION ACTIVITIES: Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:
1. Observation of multiple skin exams performed by an attending dermatologist with progression to student performance of the exam.
2. Assistance in the performance of dermatologic procedures.
3. Discussion of cases 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
2. Acne
3. Psoriasis
4. Atopic Dermatitis
5. Dermatophyte Infections

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation.
2. Attending assessment of performance during clinical encounters.
3. Observation of performance of a complete skin exam with grading on a clinical skills template.

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

EMED 895J: Emergency Medicine

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

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

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Block 2B	0	Block 4B	0	Block 6B	5	Block 8B	5
Block 2C	0	Block 4C	0	Block 6C	5	Block 8C	5

COURSE DESCRIPTION:
The course consists of 8 nine-hour shifts in the Emergency Department (ED). 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 ED operates 24 hours a day, 7 days a week. Orientation will occur on the first day of each block. Weekly didactic sessions are mandatory.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Conduct an initial assessment of a patient in the ED and perform stabilization techniques. (PC1, MK3, MK4, CS1, CS2)
2. Establish a differential diagnosis, and order and interpret appropriate diagnostic tests (including imaging studies) related to the differential diagnosis. (PC2, PR1)
3. Manage acutely ill and/or injured patients. (PC3, PR2, SL2)
4. Perform procedural skills (i.e., I.V. access, blood drawing from femoral sticks, arterial sticks, sutures, I&D's, wound care, fracture splinting). (MK5, PC1, PC7)
5. Participate in reading EKGs, ABG interpretation, and patient case discussions. (MK5, MK8)

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 and 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 classroom teaching sessions.
5. Learning and practicing procedures under ED attending supervision.

PATIENT ENCOUNTERS: Students will be expected to work-up patients with such conditions as:
1. Chest and abdominal pain
2. Trauma
3. Altered mental state
4. Procedures may include laceration repair, abscess incision and drainage, lumbar puncture, among others

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation.
2. Direct observation of clinical and patient care skills as evaluated by the ED attending physician.
3. The students will be evaluated on their ability to follow the patient through the course of the ED, which could include consultations, an admission, or a discharge from the ED.
4. Participation in group discussion as evaluated by the ED attending physician.
5. Active participation in the weekly EM didactic sessions as evaluated by the faculty as well as the residents.

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

FAMMD 880J: Family Medicine Inpatient Service

Course Director: Leah Stem, MD
Email: stemle@musc.edu

Course Coordinator: Sierra Goodman
Telephone #: 843-876-2910
Email: goodmasi@musc.edu

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Block 2B	0	Block 4B	0	Block 6B	1	Block 8B	0
Block 2C	0	Block 4C	0	Block 6C	1	Block 8C	0

COURSE DESCRIPTION:
This selective is structured to provide the student an inpatient experience consistent with the practice of family medicine physicians. Based on the common discharge diagnoses, the Inpatient Service is able to provide a comprehensive educational experience for a third-year student. This rotation is completed at MUSC.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Present information gathered through interview, physical examination, and laboratory/radiology studies and assess patients admitted to hospital. (PC1, PC2, PC3)
2. Assess and treat patients respectfully, utilizing person-centered care that takes into account their individual needs (CS1, PR1, PR4).
3. Demonstrate use of Evidence-Based Medicine resources appropriately in the care of hospitalized patients. (MK1, MK5, MK8)
4. Recommend appropriate management for hospitalized patients. (MK5, MK8, PC3)

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 MUSC.
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.
5. Lectures (Thursday academic half days and Friday teaching sessions with Dr. Hebbar)

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Cellulitis/soft tissue infection
2. Cerebrovascular accident/transient ischemic attack
3. Chest Pain
4. Chronic obstructive pulmonary disease exacerbation
5. Congestive heart failure exacerbation
6. Gastrointestinal bleeding
7. Pneumonia
8. Sepsis

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation.
2. At the end of each week, the attending or upper level resident on service will provide verbal feedback regarding student performance.

Will students be expected to participate in call? ☒ YES ☐ NO
Students are expected to participate in "late-stay" until 10:00 pm once per week.

MED 820J: Outpatient Allergy & Immunology

Course Director: John Ramey, MD
Telephone#: 843-729-2374
Email: rameyjt@musc.edu, johnrameymd@gmail.com

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

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Block 2B	1	Block 4B	1	Block 6B	1	Block 8B	1
Block 2C	1	Block 4C	1	Block 6C	1	Block 8C	1

COURSE DESCRIPTION:
On this rotation, students will learn about asthma, allergic skin diseases, food allergies, insect allergies, and immune deficiencies. Students will see both adult and pediatric patients five days a week in outpatient Allergy clinics (in West Ashley, Mt. Pleasant, North Charleston, and Moncks Corner). **Please note – this rotation is only available if there are no 4th-year students scheduled in MED 820 at the same time. If you are interested in this course, please contact Mary Ann Snell to inquire about availability.** Following enrollment, students should contact Dr. Ramey at 843-729-2374 for instructions about the rotation. If you start on a Monday, please come to 1470 Tobias Gadsden, Unit 204 at 8:30 a.m.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Explain how to diagnose and treat allergic and non-allergic rhinitis, asthma, atopic dermatitis, urticarial, and chronic sinusitis. (PC1, PC2, PC3)
2. Define indications for skin testing and immunotherapy. (MK5, PC3, PL2)
3. Demonstrate appropriate history and physical exam techniques for this patient population. (PC1, CS1)

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. Reading an allergy/immunology review provided 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. Ungraded quiz at the end of the rotation that Dr. Ramey will review 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 and COPD
3. Atopic dermatitis, contact dermatitis, and urticaria
4. Recurrent infections
5. Food allergy

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation.
2. Direct observation by physician.
3. Written examination.
4. Staff interaction and interaction with patients.

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

MED 849J: Pulmonary Medicine VA

Course Director: Edward Kilb, MD
Email: kilbiii@musc.edu

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

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Does this rotation accept visiting students? ☐ YES ☒ NO

COURSE DESCRIPTION:
Students will be assigned to the VA Hospital; **active VA logins and codes are required before starting the rotation.** On this rotation, third-year students will experience the Pulmonary Consult service at the VA Hospital. Third-year students' primary role will be to participate in the care of complex pulmonary patients on the Pulmonary Consult service, assess patients in pulmonary ambulatory clinics, learn how to interpret pulmonary function, and be exposed to common pulmonary procedures such as thoracentesis and bronchoscopy. The focus of this rotation is the Pulmonary Consult and Ambulatory services and learning the fundamentals of pulmonary consultative medicine.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Demonstrate proper patient interview and physical examination techniques in the context of consultative medicine. (PC1, CS4, CS5)
2. Analyze, synthesize, and integrate pertinent patient data to formulate a comprehensive and logically ordered differential diagnosis when assessing patients on the Pulmonary Consult service. (MK4, MK6, PC1, PC2)
3. Present and document data gathered from patient interviews, physical examinations, and laboratory sources, in standardized format in both initial consult notes and daily progress notes. (PC2, PC3, CS4, CS5)
4. Perform diagnostic and laboratory test interpretation for common studies in pulmonary medicine (e.g. chest x-rays and pulmonary function tests), and actively consider cost-effectiveness when ordering or recommending diagnostic studies. (MK4, PC2, SL2)
4. Apply knowledge of the pathophysiology, epidemiology, and natural history of diseases to the diagnosis and management of common patient conditions in pulmonary medicine. (MK6, MK8, PC2, PC3)
5. Demonstrate effective and professional interpersonal and communication skills in interactions with patients and their families, including an awareness of psychosocial factors related to patients' problems. (CS1, PR1, PR2)

INSTRUCTIONAL METHODOLOGIES AND ROTATION ACTIVITIES: Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:
1. Students will participate in the Pulmonary Consult service and Pulmonary Ambulatory clinics, evaluating patients with supervision.
2. Students will present and discuss of patients with the consult/ambulatory attending and fellow.
3. Selected reading material on topics pertinent to pulmonary medicine.
4. Attendance at Pulmonary Clinical Conferences at noon on Mondays, Wednesdays, and Thursdays and the pulmonary medical student lecture series.

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Chronic respiratory failure, including very severe COPD with hypoxemia and/or hypercarbia
2. Obstructive lung diseases, including COPD (due to either emphysema and/or chronic bronchitis), asthma, and bronchiectasis
3. Restrictive lung diseases, including interstitial lung disease, pleural effusion, pneumoconiosis, and collagen-vascular diseases
4. Pulmonary malignancies, including non-small cell lung cancer, small cell lung cancer, metastases, and malignant effusions

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation.
2. Attending physicians and fellows will provide student with a verbal evaluation at the end of the rotation.

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

MED 891J: Hepatology

Course Director: Heather Simpson, MD
Email: simpsoh@musc.edu

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

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Block 2B	0	Block 4B	0	Block 6B	0	Block 8B	2
Block 2C	0	Block 4C	0	Block 6C	0	Block 8C	2

COURSE DESCRIPTION:
The course is designed to expose third-year medical students to the diagnosis and management of inpatients and outpatients with liver diseases.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
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. (MK2, MK3, MK4, PC1, PC2, PC3)
2. Describe the pathophysiology, differential diagnoses, and management of complications that result from cirrhosis and portal hypertension. (MK3, MK4, PC2, PC3)
3. Demonstrate knowledge of the comprehensive evaluation required of patients undergoing consideration for liver transplantation. (MK5, PC3, SL1, IP1)

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. Participate in the General Hepatology Clinics. 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.
2. Round with the Liver Attending on the inpatient service & evaluate patients on the consult service.
3. Observe outpatient endoscopy, to learn the management of patients with esophageal varices.
4. Attend the following Hepatology (and Gastroenterology) didactic conferences: GI Fellows Conference, Liver Biopsy Conference, Liver Imaging and Tumor Board, and Liver Transplant Selection Committee.

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Complications of cirrhosis/portal hypertension: ascites, encephalopathy, variceal bleeding, and spontaneous bacterial peritonitis
2. Complications that occur after liver transplantation: biliary stricture, rejection, opportunistic infections, and complications of immune suppressing meds
3. Complications of alcoholic liver disease, including alcoholic hepatitis
4. Chronic hepatitis of unclear etiology – namely the evaluation of these patients, including the role of liver biopsy

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation.
2. Attending physicians and fellows will provide students with a verbal evaluation at the end of the rotation.

Will students be expected to participate in call? ☐ YES ☒ NO
No overnight call but some short call. Students will stay until 9:00 p.m. three times during the rotation in order to understand and participate in the afterhours activities that happen on the service.

MED 894J: Subspecialty Consults/Clinics/Conferences

Course Director: Marc Heincelman, MD
Email: heincelm@musc.edu

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

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Block 2B	1	Block 4B	1	Block 6B	1	Block 8B	1
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COURSE DESCRIPTION:
On this rotation, students will learn about consultative medicine within one of the following Internal Medicine subspecialties: Cardiology, Endocrinology, Gastroenterology, General Internal Medicine, Hematology/Oncology, Infectious Disease, Nephrology, Pulmonary, or Rheumatology. Students will be active participants in patient care by both working in outpatient clinics and rounding on an inpatient consult service. Understanding the role of the consultant in both inpatient and outpatient settings is important for students to learn what constitutes an appropriate consult request and how to address consult requests in an effective manner. Given the importance of communication in consultative medicine, students are expected to be primarily responsible for communicating consult recommendations to requesting providers, with supervision and guidance from residents, fellows, and attending physicians as appropriate. Space in this rotation is contingent on how many fourth-year students are assigned to a given subspecialty. Students may need to rotate on a ward service if all consult spots are full. This rotation involves clinical work Monday through Friday, weekends are off. **Students may also rotate at the VA Hospital for clinic each week; active VA logins/codes are required BEFORE start of rotation.**

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Describe the role of a consultant in medical practice, in both an inpatient and outpatient setting. (CS4, SL1)
2. Effectively interview patients to obtain medical histories and perform physical examinations in the inpatient setting. (PC1, CS1)
3. Analyze, synthesize, and integrate pertinent patient data to formulate comprehensive and prioritized differential diagnoses. (MK3, PC2, PC3)
4. Present and document patient data gathered from patient interviews, physical examinations, and laboratory studies, including progress notes on patients, in standardized format. (PC2, CS4, CS5)
5. Apply knowledge of the pathophysiology, epidemiology, and natural history of diseases to the diagnosis and management of common patient conditions in Internal Medicine subspecialties to effectively address a consultative question. (MK1, MK5, PC2)

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. Working with the consult team on in-hospital consult rounds, clinics, and other clinical activities.
2. Participating in patient care, supervised by the attending and residents on the service, including assessment and evaluation of a minimum of 3 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 specific subspecialty. Note that these conferences are generally intended for the residents and fellows on the consult team, such that some material may be relatively advanced. These conferences are intended to provide students exposure to aspects of a specific specialty and not necessarily review 'basics.'

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Varies depending on the subspecialty service to which the student is assigned

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation.
2. Attending physicians and fellows will provide students with a verbal evaluation at the end of the rotation.

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

MED 897J: VA Cardiology & EKG

Course Director: Valerian Fernandes, MD
Email: fernandv@musc.edu

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

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Block 2B	1	Block 4B	1	Block 6B	1	Block 8B	1
Block 2C	1	Block 4C	1	Block 6C	1	Block 8C	1

COURSE DESCRIPTION:
This course will teach the students all aspects of EKGs from how to obtain an EKG to how to interpret them. They will be exposed to Cardiology consults at the VA and will round with the Cardiology Consult fellow and attending on weekdays. The student will be expected to show initiative and be an active learner. **Active VA logins/codes are required BEFORE start of rotation.**

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Demonstrate position of leads and perform an EKG. (MK5, PL2)
2. Define waves and intervals on an EKG. (MK1, MK5)
3. Discuss basics rhythms on EKG and have a general idea about treating common rhythm disorders. (MK1, MK5, MK8, PC3)
4. Identify ST segment alterations on an EKG and know the differential diagnosis for the abnormality. (MK1, MK5, PC1, PC2)
5. Define the basic treatments for ST segment elevation MI (STEMI) and non ST segment elevation MI (NSTEMI). (MK5, PC3)
6. Correlate EKG findings with patients in clinic and consult environment (MK5, PC1, CS4)

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 perform 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 daily at the VA. They will be advised about self-learning EKG modules.
3. Students will attend all VA morning reports. 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.
5. They will learn about the basic pharmacology and applications of Adenosine, Digoxin, beta blockers, calcium channel blockers and Class1-4 antiarrhythmic drugs.

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Cardiac chest pain
2. Atrial Fibrillation/Atrial Flutter
3. Other arrhythmias
4. Valvular heart disease

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation.
2. Attending physicians and fellows will provide the students with a verbal evaluation at the end of the rotation.
3. EKG interpretive skills will be evaluated on an ongoing basis by the fellows and attendings.
4. Competency and professionalism will be assessed by the supervising technician/nurse and fellow/attending.
5. Weekly reading home assignments will be given and assessed regularly.
6. 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.

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

MED 898J: Care of the Diabetic Patient

Course Director: Rashmi Dhakal, MD
Email: dhakalr@musc.edu

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

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Block 1B	1	Block 3B	1	Block 5B	1	Block 7B	1
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Block 2B	1	Block 4B	1	Block 6B	1	Block 8B	1
Block 2C	1	Block 4C	1	Block 6C	1	Block 8C	1

COURSE DESCRIPTION:
During this course, students will see patients with various forms of diabetes in inpatient and outpatient settings. Students will learn to take a diabetes-focused history and do appropriate physical exams. Furthermore, students 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 do the following:
1. Describe the basic classification of diabetes: Type 1, Type 2, Latent autoimmune adult onset, gestational, etc. (PC1, MK3, MK4)
2. Take and present diabetes-focused histories and physical exams. (PC1, PC2, CS1)
3. Demonstrate understanding of the pharmacology and use of oral diabetic medicines and insulin. (MK5, MK8, SL2)
4. Demonstrate understanding of the essentials of intensive insulin therapy, including insulin pump therapy and glycemic monitoring (fingerstick blood sugars, A1c, fructosamine). (MK5, PL2, PC6)
5. Assess for common diabetes complications: microvascular, macrovascular and hypoglycemia. (MK4, PC1, CS1)

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 and IDEAL clinics, 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).
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
2. Type 2 diabetes
3. Inpatient glycemic management
4. Insulin pump therapy

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation.
2. Attending physicians will provide the students with a verbal evaluation at the end of the rotation.

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

MED 899J: Endocrinology/Neoplasia

Course Director: Rashmi Dhakal, MD
Email: dhakalr@musc.edu

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

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Block 2B	0	Block 4B	1	Block 6B	0	Block 8B	1
Block 2C	0	Block 4C	1	Block 6C	0	Block 8C	1

COURSE DESCRIPTION:
During this course, students will see patients with endocrine tumors. Students will learn to take a proper problem-oriented history and do a focused physical exam. Students will also learn the diagnostic approach and treatment of various endocrine neoplasias.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Demonstrate understanding of 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). (MK3, MK4, MK5)
2. Take and present endocrine-focused histories and physical exams regarding above disorders with special focus given to learning proficiency in exam of thyroid. (PC1, PC2, CS1)
3. Discuss the basics of treatment and prognosis for more common endocrine tumors. (MK5, MK6, PC3)
4. Demonstrate the appropriate use and interpretation of 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. (MK5, PC3, SL2)

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 Endocrine Tumor Clinic.
2. Participation in Thyroid Clinic.
3. Observation of thyroid ultrasounds and biopsies.
4. With supervision of inpatient endocrine fellow and attending, students will follow inpatients with endocrine neoplasia as primary consult diagnosis.
5. Attendance at endocrine conferences (grand rounds, research conference).

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Thyroid cancer, thyroid nodule
2. Hyperparathyroidism
3. Adrenal nodule/cancer
4. Pituitary tumor
5. Thyroid ultrasound/biopsy

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation.
2. Attending physicians will provide students with a verbal evaluation at the end of the rotation.

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

MED 900J: Inpatient Cardiology

Course Director: Valerian Fernandes, MD
Email: fernandv@musc.edu

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

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Block 2B	4	Block 4B	4	Block 6B	4	Block 8B	0
Block 2C	4	Block 4C	4	Block 6C	4	Block 8C	0

COURSE DESCRIPTION:
The student will be assigned to an inpatient cardiology ward team where they will take and record detailed histories and physicals of new patients. Cardiovascular examination skills will be imparted to the students at the bedside.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Take a good cardiac history, define and modify cardiac risk factors, complete cardiovascular system examination, and demonstrate understanding of cardiac medications. (MK5, PC1, PC2, PC5)
2. Discuss the use of lab tests, EKGs, ECHO, stress testing and cardiac invasive procedures in working up cardiac disorders. (MK5, CS5)
3. Discuss basic cardiac, coronary and electrophysiological anatomy along with basic cardiac hemodynamics and improve EKG interpretation skills. (MK1, MK5, PL2)
4. Present new cases confidently, follow-up cases allotted and learn to work efficiently as a team member. (CS1, CS2, PC2, IP1)
5. Demonstrate developing skills in patient and family interaction. (CS1, CS2, CS3, PC5)

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 vital signs 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.
5. They will participate in patient counseling and advise about risk factor modifications. They will participate in assessment of patients' other social needs with 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: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation.
2. Attending physicians and fellows will provide students with a verbal evaluation at the end of the rotation.
3. EKG interpretive skills will be evaluated on an ongoing basis by the attendings and resident/fellow.

Will students be expected to participate in call? ☐ YES ☒ NO
No overnight call but some short call. Students will stay until 9:00 p.m. three times in order to understand after-hours activities that happen on the service.

MED 901J: Hematology Ward

Course Director: Todd Gourdin, MD
Email: gourdith@musc.edu

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

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Block 1A	0	Block 3A	1	Block 5A	1	Block 7A	1
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Block 2B	1	Block 4B	1	Block 6B	1	Block 8B	0
Block 2C	1	Block 4C	1	Block 6C	1	Block 8C	0

COURSE DESCRIPTION:
This course introduces third-year medical students to the general approach to diagnosis and management of common malignant hematologic disorders. Students will see new and existing inpatients with such disorders, acquire the skills needed for specialty-appropriate histories and physical exams in such patients, and formulate specialty-appropriate assessments and management plans. Students will also have the opportunity to attend didactic opportunities provided by the Division of Hematology/Oncology. Students' 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 do the following:
1. Demonstrate proper techniques for interviewing a patient to obtain a hematology-focused medical history and performing a hematology-focused physical examination in the inpatient setting. (PC1, CS1, CS2)
2. Demonstrate understanding, through presentations on daily rounds, of the patient's primary disease processes, how complications relate to causative factors, and how diagnostic test results should be interpreted and applied to the decision-making process. (MK3, MK4, MK5, PC2, PC3)
3. Describe the standard approach for and participate in performing bone marrow aspirate/biopsy and peripheral blood smears, assessing their adequacy, and interpreting the specimens, including distinguishing normal from abnormal erythrocytes, leukocytes, and platelets. (MK4, MK5, PC2, PC7)

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 admission work-ups of new patients assigned by supervising physicians; (B) continue to evaluate assigned patients (through follow-up histories and physicals on a daily basis [or more often as appropriate] plus reviewing all diagnostic testing results); (C) present his or her findings and interpretations on rounds; (D) perform all appropriate clinical documentation including admission H&P forms, daily progress notes in standard SOAP format, and orders and test requisition forms (for co-signature by a supervising physician in accordance with hospital policy); and (E) perform necessary procedures suitable for his or her level of skill such as marrow aspiration/biopsy and lumbar puncture (LP) as proctored by supervising physicians within hospital policy limits (e.g., a student may perform an LP, but only a heme/onc fellow or attending may administer intrathecal chemotherapy).
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. At least 1 new patient (admission) work-up per day will be required of the student.
    (a) Leukemia patients: acute lymphoblastic, acute myelogenous, (b) Bone marrow transplant patients, (c) Lymphoma

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation.
2. Attending physicians and fellows will provide students with verbal evaluations at the end of the rotation.

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

MED 995J: Nephrology Consult

Course Director: Natalie Freidin, MD
Email: freidin@musc.edu

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

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Block 1A	1	Block 3A	1	Block 5A	1	Block 7A	1
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Block 2B	1	Block 4B	1	Block 6B	1	Block 8B	1
Block 2C	1	Block 4C	1	Block 6C	1	Block 8C	1

COURSE DESCRIPTION:
Students rotating on the Nephrology Consult Service will care for patients with Acute Kidney Injury (AKI) and End Stage Renal Disease in the hospital, with an emphasis on evaluation, diagnosis, and management of AKI. Students will be expected to attend at least one ambulatory clinic per week to understand and participate in the care of the patient with Chronic Kidney Disease (CKD). Preparation for renal replacement therapy, including dialysis and transplant, in addition to the mechanics of dialysis, will be emphasized. Students will rotate with the nephrology consult teams at the main hospital and/or at Ashley River Tower and the renal transplant team.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Complete an evaluation for Acute Kidney Injury, interpret lab/radiological studies, and synthesize a differential diagnosis. (MK1, MK3, PC1).
2. Describe the steps involved in urine microscopy and interpretation of urine microscopy in patients with AKI. (MK5, PC7)
3. Describe the indications for dialysis therapy and the mechanics of different modes of dialysis. (MK5, PC3, PL2)
4. Evaluate and treat hypo/hypernatremia, hypo/hyperkalemia, acidosis and alkalosis. (MK1, MK6, MK8)
5. Discuss the treatment and public health significance of Chronic Kidney Disease and hypertension. (MK7, PC1, PR1)
6. Demonstrate the correct technique of urine analysis and describe its clinical importance. (MK5, PC7)
7. Describe the basic evaluation of patients for renal transplantation. (MK3, MK5, MK7)
8. Evaluate AKI and transplant complications in renal transplant patients. (Mk3, MK4, MK7)

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 present patients orally to the attending physician to attain feedback on presenting cohesively, on their ability to synthesize information, and their skill in providing a well thought out plan.
2. Students are expected to continue independent scholarly activity by reading journal articles and/or books pertinent to their patients.
3. The nephrology faculty and fellows on service will be actively involved in team-based teaching during the rounds.
4. The faculty and fellows on service dedicate time outside patient care activities to provide didactic sessions involving but not restricted to AKI, CKD, transplantation, electrolyte and acid base problems, hypertension, urine microscopy and dialysis.
5. Students are encouraged to read the textbook, *Nephrology in 30 Days* (Reilly & Perazella). Book is available through Mary Ann Snell.

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 and microscopic hematuria
5. Acid Base Disturbances
6. End stage renal disease – management of medical problems associated with ESRD
7. Hospitalized renal transplant patients with AKI or with complications of renal transplantation.

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation.
2. Students will be evaluated at the end of the rotation on knowledge, professionalism, and patient care by the fellow and attending.

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

NSGY 802J: General Neurosurgery

Course Director: William Vandergrift, MD
Email: vandergr@musc.edu

Course Coordinator: Carole Lavender
Telephone #: 843-876-5053
Email: lavendec@musc.edu

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Block 2B	1	Block 4B	1	Block 6B	1	Block 8B	1
Block 2C	1	Block 4C	1	Block 6C	1	Block 8C	1

COURSE DESCRIPTION:
This course gives students a firsthand look at all facets of adult and/or pediatric neurosurgery. Students will assist in the care of patients in the inpatient and outpatient setting at the Medical University Hospital. Students will also attend the weekly neurosurgery conference scheduled for Tuesday mornings from 7am – 8am. Course availability flexible depending on the number of 4th-year students enrolled in department courses.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Work as a contributing member of a resident team including but not limited to participating in handoffs, calling of a consult, procuring informed consent, writing and communicating orders, preparing discharge summaries and orders. (PC6, CS1-5, PR1-5, IP1-4)
2. Perform a basic screening neurologic examination. (PC1)
3. Perform a focused history for neurosurgical patients. (PC1)
4. List and interpret usual imaging modalities for neurosurgical pathology. (MK5, PL2)
5. Demonstrate ability to establish an appropriate but broad differential diagnosis for new patient encounters. (MK3, MK4, PC2)
6. Discuss treatment and follow-up strategies for surgical and non-surgical patient encounters. (MK 6, PC3, PC5, SL2)
7. Perform simple neurosurgical patient procedures under appropriate supervision. (PC7)

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 the ER, ICU, inpatients, outpatients. In the operating room students will observe common neurosurgical procedures
2. One-on-one and group/team discussions
3. Directed reading on general and selected topics in Neurosurgery
4. Attendance at Neurosciences Conferences
5. Case presentations on selected/directed Neurosurgery topics per selective director or resident

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Head/spine trauma
2. Cerebrovascular disorders
3. Hydrocephalus
4. Degenerative spinal disease
5. Brain tumors

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation.
2. Daily verbal feedback from the course director, faculty or residents.

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

OBGYN 876J: Maternal-Fetal Medicine Ultrasound

Course Director: Ryan Cuff, MD
Email: cuff@musc.edu

Course Coordinator: Andrea Shrader
Telephone #: 843-792-1241
Email: shradera@musc.edu

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Block 2B	1	Block 4B	1	Block 6B	1	Block 8B	1
Block 2C	1	Block 4C	1	Block 6C	1	Block 8C	1

COURSE DESCRIPTION:
This selective will expose students to all aspects of obstetric ultrasound. The student will work with the Maternal Fetal Medicine Faculty in the Ultrasound outpatient clinic. The student will review ultrasounds, accompany the faculty when patients are counseled regarding their ultrasound findings, and observe ultrasound-guided procedures. The student will also have the opportunity to work with the Genetics Counselors while on the rotation.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Discuss the role of obstetric ultrasound in the management of normal and high-risk pregnancies with an emphasis on assessment of fetal anatomy, fetal growth, and well-being. (MK1, MK4, PC2, IP1, SL2)
2. Identify communication techniques for discussing abnormal findings with a patient (breaking bad news). (CS1, CS3, PC5, IP3, PD2)
3. Counsel a patient about the risks/benefits/indications for ultrasound guided procedures such as amniocentesis, CVS, and PUBS/IVT. (MK1, MK4, PC3, CS1, CS3)
4. Demonstrate the ability to research an ultrasound-based problem and educate peers by preparing a lecture based on an ultrasound patient directed to other medical students and residents (PL3, MK3, PR4, PD2, SL4)

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. Didactic lectures aimed at the residents, fellows, and 3rd year medical students
2. Review of ultrasound images with MFM faculty
3. Patient counseling with an interprofessional team of MFM faculty and Genetics Counselors.
4. Completion of a 1-2pg research paper. The paper should address a question, developed with MFM faculty, related to the use of ultrasound in the diagnosis and/or management of a maternal or fetal condition.

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Normal pregnancy who present for confirmation of early pregnancy
2. Normal pregnancy who present for evaluation of fetal anatomy
3. Advanced Maternal Age
4. Twins
5. Complicated pregnancy in which a growth disorder is suspected
6. Complicated pregnancy requiring antenatal testing

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.
1. Clinical Performance Evaluation
2. Midpoint feedback from the course director
3. Evaluation of the student presentation

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

OPHTH 880J: Ophthalmology

Course Director: Lynn Poole Perry, MD
Email: poolel@musc.edu

Course Coordinator: Ashley Caradonna
Telephone #: 843-792-8864
Email: caradonn@musc.edu

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Block 2B	0	Block 4B	0	Block 6B	2	Block 8B	2
Block 2C	0	Block 4C	0	Block 6C	2	Block 8C	2

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

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Discuss the anatomy and physiology of the eye. (MK4, PR1)
2. Perform a basic eye examination. (CS1, MK3)
3. Demonstrate proficiency in the treatment of common, non-vision threatening eye disorders. (PC1, CS1)
4. Describe vision-threatening eye diseases and institute timely referral. (IP1, PC2)
5. Demonstrate familiarity with ophthalmological abbreviations. (PC3, MK8)

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
4. Lab (optional)

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

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation.
2. Direct observation of clinical and patient care skills by the attending physician and residents. Learners will receive verbal feedback on their clinical performances following clinics and surgeries.
2. Completion of a 25-item multiple choice question quiz at the beginning of the rotation and a 20-question quiz at end of rotation to measure progress.
3. Attendance as documented in a daily log of clinical/surgery/patients seen. The daily log will be reviewed by the course director.
4. Adequate screening of 1 patient in general clinic per protocol given as evaluated by the general ophthalmology team. The patient screening preformed will be evaluated by the general ophthalmology clinic team.

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

OSURG 880J: Orthopaedic Surgery

Course Director: Sara Van Nortwick, MD
Email: vananort@musc.edu

Course Coordinator: Joan Graesch
Telephone #: 843-792-0245
Email: graesch@musc.edu

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Block 2B	0	Block 4B	0	Block 6B	4	Block 8B	4
Block 2C	0	Block 4C	0	Block 6C	4	Block 8C	4

COURSE DESCRIPTION:
This is a 2-week introduction 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. Students will present one patient encounter or clinical topic per week to an attending.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Explore the scope of practice for an orthopaedic surgeon. (PD5, PR1)
2. Perform a comprehensive history, as well as upper/lower extremity or spine examination as indicated, and formulate a differential diagnosis and provisional treatment plan. (PC1, PC2, PC3)
3. Discuss bone formation and the hormonal regulation of bone maintenance. (MK1, MK2, MK3)
4. Recognize/discuss orthopaedic urgencies and/or emergencies, as well as the role of the orthopaedist for unstable trauma patients. (IP1, MK4, SL4)
5. Understand and discuss several common pediatric orthopaedic conditions, etiologies, and treatments. (MK1, MK2, PL1)

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 informal didactic session with faculty.
2. Selected readings followed by one-to-one presentations by students to the faculty.
3. Attendance at Orthopaedic Grand Rounds and weekly Fracture Conference.
4. Daily personal clinical teaching by residents and faculty.
5. Students will be exposed to and responsible for patient care in clinics and the inpatient setting including pre- and post-surgical care of patients observed in the operating room.
6. Didactic sessions attended by orthopaedic residents

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
6. Sports injuries

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation.
2. Presentations of patient encounters.
3. One-to-one discussions with attendings and residents.
4. Clinics and hospital rounds.
5. Daily interactions with faculty and residents in small group and one-to-one sessions.
6. Students will fill out an orthopaedic department–specific questionnaire to evaluate and give feedback on their experience.
7. Students will receive weekly feedback via group discussions with the course director.

Will students be expected to participate in call? ☒ YES ☐ NO
Two to four weeknights until 10:00 pm and one weekend 24-hour shift per rotation.

OTOL 880J: Otolaryngology Overview

Course Director: Lucinda Halstead, MD
Email: halstead@musc.edu

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

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Block 1A	3	Block 3A	0	Block 5A	4	Block 7A	4
Block 1B	4	Block 3B	0	Block 5B	4	Block 7B	4
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Block 2A	4	Block 4A	0	Block 6A	4	Block 8A	4
Block 2B	0	Block 4B	0	Block 6B	4	Block 8B	4
Block 2C	0	Block 4C	1	Block 6C	4	Block 8C	4

COURSE DESCRIPTION:
Over two weeks, the student will rotate for one week on the Head and Neck team and one week with other subspecialty teams to gain an overview of the specialty.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Demonstrate essential components of a thorough H&N history and physical examination. (MK1, CS1, PR1)
2. Demonstrate knowledge of patients with various common H&N pathologies. (MK4, PC2, PD1)
3. Identify and describe symptoms suggestive of H&N malignancies; recognize abnormal exam findings of the oral cavity and pharynx to include malignant lesions and lesions suspicious for malignancy. (MK1, MK4, PC1)
4. List differential diagnosis for stridor and be familiar with emergent and long-term airway management techniques. (MK4, PC3, PL6)
5. Describe indications for Otolaryngologic consultation. (MK4, PC3, PL6)
6. Observe/participate various OTO-HNS surgical procedures under supervision by residents and attendings. (PD2, PL3, IP2)

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, inpatient care, and the operating room
2. Attendance at multidisciplinary Head and Neck tumor board and regularly scheduled didactic otolaryngology lectures
3. Introduction to audiology, voice, and swallowing
4. Completion of independent reading in preparation for surgery cases and clinic

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. H&N cancer patients in clinic, and inpatients with H&N cancer
2. Patients in subspecialty clinics which may vary based on assignment
    a. Sinonasal patient (i.e., sinusitis, allergic rhinitis, epistaxis)
    b. Otologic patients (i.e., chronic ear infections, tinnitus, hearing loss, vertigo)
    c. Pediatric Oto-HNS patients (i.e., tonsillitis, OSA, stridor, ear infections, dysphonia)
    d. Facial plastics and reconstruction patients (i.e., congenital deformity, facial defect, aesthetic issues, cancer defect)
    e. General OTO-HNS patients (i.e., hoarseness, dysphagia, sleep apnea, thyroid)

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation.
2. Personal observation and interaction between the student and faculty/residents in all settings.

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

PATHO 885J: Hematopathology/Flow Cytometry

Course Director: David Park, MD
Email: parkda@musc.edu

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

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Block 2B	0	Block 4B	0	Block 6B	1	Block 8B	1
Block 2C	0	Block 4C	0	Block 6C	1	Block 8C	1

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, radiologic, and cyto-/molecular genetic findings will be emphasized.

LEARNING GOALS & OBJECTIVES (MK3, MK5, PC2): At the completion of this clinical rotation students should be able to do the following:
1. Demonstrate how 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, laboratory, and radiologic correlation; serum protein electrophoresis and immunofixation techniques in chemistry; and 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. Exposure to 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 involved with karyotyping bone marrow or lymph node samples, and review of patient results with the attending staff and laboratory supervisor.
4. Review of the principles involved in FISH and PCR studies in identifying chromosomal abnormalities associated with hematopoietic neoplasms. 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. Present clinical history, physical findings, ancillary laboratory data, morphologic assessment, flow cytometric interpretation, cytogenetic analysis and molecular study results on a patient with a hematopoietic neoplasm of their choice.

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation.
2. Informal quiz on concepts/principles in response to routine questions about pathologic diagnosis of cases being reviewed at the multiheaded-scope.
3. Ability to document patient information through synthesis of clinical and ancillary data.
4. Ability to present clear, concise, and well-organized case presentations.
5. Ability to be a patient-focused, multidisciplinary team member in exercising patient care through conscientious work-up of hematopathology cases
6. Ability to navigate through scientific literature and provide evidence-based approach to hematopoietic neoplasms

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

PATHO 886J: Surgical Pathology & Cytopathology

Course Director: Cindy Welsh, MD
Email: welshct@musc.edu

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

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Block 1A	0	Block 3A	1	Block 5A	1	Block 7A	1
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Block 2B	0	Block 4B	1	Block 6B	1	Block 8B	1
Block 2C	0	Block 4C	1	Block 6C	1	Block 8C	1

COURSE DESCRIPTION:
This course will introduce students to surgical pathology and cytopathology. Students will review diagnostic slides with an attending, fellows, residents and other students at the microscope. Students are also expected to attend daily morning lectures and conferences. The course is two weeks with nine days of surgical pathology (one week at the main hospital and one week at ART), including gross examination of specimens, evaluation of frozen sections and microscopic evaluation of biopsy and resection specimens. Cytopathology is one day, including general cytology sign-out (pap smears and fluid analysis) and performance and evaluation of fine needle aspiration specimens. Timing of the cytology experience will depend on the surgical pathology schedule.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Describe the process of creating a pathologic report, including gross and microscopic examination. (MK4, CS4, PL4)
2. Explain the role of intraoperative frozen section consultation in operative patient care. (MK5, IP3, PC2)
3. Identify the role and utility of fine needle aspiration in workup and diagnosis of mass lesions. (PC6, MK5, CS4)
4. Discuss the relative utility of histologic and cytologic techniques in the management of patient care. (PC2, MK5, CS4)
5. Describe the role of the pathologist in overall patient care through interactions with clinical colleagues. (PC6, CS4, PL4)

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 (one week at the main hospital and one week at ART), including gross examination of specimens, evaluation of frozen sections and microscopic evaluation of biopsy and resection specimens.
2. Participation in cytopathology for one day, 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 the see the interaction of pathologists with their clinical colleagues.
4. Attendance of general pathology lectures.

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Frozen section intraoperative consultations
2. Major oncology resections with follow through to appropriate tumor board discussions
3. Surgical biopsy specimens
4. Gynecological pap smears (normal and abnormal) and non-gynecological cytology specimens
5. Fine needle aspirations and adequacy assessments of mass lesions

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation.
2. Evaluation by attending and resident physicians on surgical and cytology pathology sign-out.
3. Observation and evaluation of skills in the frozen section room by appropriate attending or resident pathologist.

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

PATHO 888J: Forensic & Medical Autopsy Pathology

Course Director: Angelina Phillips, MD
Email: phillian@musc.edu

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

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Block 2B	1	Block 4B	1	Block 6B	1	Block 8B	1
Block 2C	1	Block 4C	1	Block 6C	1	Block 8C	1

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

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Identify factors that qualify a death for a forensic autopsy. (MK3, SL1)
2. Work on an interdisciplinary team and communicate effectively (PR1, IP1)
3. Explain the complete details of how an autopsy is performed. (MK1, MK4, CS1)
4. Perform uncomplicated autopsy organ dissection. (MK1, MK3, PC7)
5. Properly complete the cause and manner of death section on a death certificate. (MK4, CS5)

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 in autopsy casework.
5. Student presentation of a 15-minute autopsy/forensic topic at the end of the rotation.

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

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation.
2. Attending physicians, forensic fellow, and pathology residents will provide on-site verbal evaluation/feedback about daily service work.
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.

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

PEDS 810J: Introduction to Developmental-Behavioral Pediatrics

Course Director: Silvia Pereira-Smith, MD
Email: pereiras@musc.edu

Course Coordinator: Emily McGinnis
Telephone #: 843-792-8362
Email: mcginnie@musc.edu

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COURSE DESCRIPTION:
This outpatient-based rotation will introduce the student to developmental and behavioral disorders, including ADHD, autism spectrum disorders, developmental delay, and other developmental disabilities, while working directly with subspecialists in developmental pediatrics. Encounters will be within the Developmental-Behavioral Pediatrics clinic, with exposure to some interdisciplinary clinics serving certain patient populations such as Down Syndrome, NICU follow-up, international adoption, as available. The student will gain skills with history taking, physical examination, and biopsychosocial formulation.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Identify basic developmental, behavioral, and psychosocial problems using the medical history and exam of an infant, child, and adolescent. (PC1, MK6)
2. Describe the typical presentation of common developmental and behavioral problems including ADHD, developmental delay, and autism spectrum disorder. (MK3, MK6)
3. List etiologies of developmental disabilities. (PC2, MK3)
4. Demonstrate understanding of biological, social, and psychological aspects of the family that lead to behavior problems. (MK7, PR3)
5. Distinguish between age-appropriate behavior and abnormal behaviors that may suggest a neurodevelopmental/behavioral disorder. (MK3, MK6).
6. Evaluate and counsel patients as part of an interprofessional team in an interdisciplinary experience. (PC1, PC5, IP1, IP2, IP3, IP4).

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. Clinical encounters.
5. Discussion

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. ADHD/ODD and disruptive behavior disorders
2. Autism Spectrum Disorder
3. Developmental Delay/Disorder, Intellectual Disability, Learning Disability
4. Sleep Problems

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation.
2. Direct observation and in-person feedback by attending physicians and residents.

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

PEDS 812J: Pediatric Cardiology

Course Director: Lanier Jackson, MD
Email: jacksolb@musc.edu

Course Coordinator: Emily McGinnis
Telephone #: 843-792-8362
Email: mcginnie@musc.edu

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Block 2B	0	Block 4B	0	Block 6B	0	Block 8B	0
Block 2C	2	Block 4C	2	Block 6C	2	Block 8C	2

COURSE DESCRIPTION:
On this course, students will have opportunities to strengthen their understanding of normal cardiac anatomy and physiology, interact and assist in management of patients with abnormalities in cardiac anatomy and physiology, and participate and view corrective and palliative procedures. Students will participate certain areas of pediatric cardiology including outpatient pediatric cardiac consultations for new patients, the outpatient established patient evaluation, step-down floor evaluation of the pre-operative and post-operative patient, and trans-catheter corrective procedures. **Students may be required to travel to North Charleston (2250 Mall Dr, North Charleston, SC 29406) for the outpatient part of the rotation.**

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation, students should be able to do the following:
1. Demonstrate their understanding of normal cardiac anatomy and physiology. Be able to describe the various common congenital cardiac alterations in anatomy and physiology. Acknowledge their limitations in knowledge and correct those deficits. (MK4, MK1, MK8, PD2)
2. Demonstrate their ability to participate as a member of the diverse cardiac care team providing patient care in the outpatient and inpatient setting. Be able to demonstrate ownership of the patient, and responsibly provide continuity of care with each patient and the care team. (PC1, PC5, CS1, CS5, PR1, IP4)
3. Demonstrate an understanding of the barriers and socio-economic challenges for the complex congenital pediatric and adult patient, their families, and demonstrate an understanding of the necessary support structures integral to patient care. (PR3, PR1, SL4)
4. Participate in cardiac procedures with sterile preparation and management of a sterile environment in a cardiac procedural suite. Observe cardiac surgical procedures for an understanding of the complexity of congenital cardiac surgery. (PC6, MK5, PC7)

INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES: Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:
1. Participation as an integral member of the cardiac inpatient team.
2. Participation in the critical evaluation and assessment of the pediatric cardiac consult.
3. Evaluation and assessment of the preoperative pediatric cardiac patient, and follow-up of the patient in the early post-operative period focusing on the altered cardiac physiology.
4. Attendance at cardiology clinics to improve pediatric cardiac exam skills and outpatient evaluation techniques.
5. Participation in specialized therapeutic modalities that aide in diagnosis and management of the complex pediatric cardiac patient. The student will be given opportunities to observe cardiac catheterization available for delineating complex anatomy and interventional techniques for therapy.
6. Attend weekly care conferences: surgical and cath conferences – to understand the integration of medical and surgical care teams in the care of each congenital patient, and attend educational conferences for didactic teaching of congenital heart disease.

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

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation.
2. Direct observation and in-person feedback by attending physicians and residents.

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

PEDS 813J: Pediatric Subspecialties

Course Director: Emily Vara, MD
Email: vara@musc.edu

Course Coordinator: Emily McGinnis
Telephone #: 843-792-8362
Email: mcginnie@musc.edu

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Block 1A	0	Block 3A	1	Block 5A	1	Block 7A	0
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Block 2B	1	Block 4B	1	Block 6B	1	Block 8B	1
Block 2C	1	Block 4C	1	Block 6C	1	Block 8C	1

COURSE DESCRIPTION:
In this primarily outpatient rotation, students will have the opportunity be a self-directed learner and gain exposure to the following pediatric specialties: endocrinology, sickle cell disease, and rheumatology. Students will be required to travel to Mt. Pleasant (2705 N Hwy 17 Suite 100, Mt Pleasant, SC 29466), North Charleston (2250 Mall Dr, North Charleston, SC 29406) and /or Summerville (4330 Ladson Rd, Summerville, SC 29456) for the endocrine/rheumatology clinic portions of the rotation .

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Describe the importance of chronic diseases in Pediatrics, including their occurrence, care, outcome, and impact on the child and family. (MK3, MK7, PC1, SL1, SL4)
2. Promote the necessity of multidisciplinary teams to optimize care and family support for children with chronic diseases. (IP1, IP2, IP3, IP4, PC4, CS4)
3. Describe the challenges chronically-ill children face in school and the resources schools have to assess and help care for such children. (MK7, PC5, PC3, PR2, PR3, SL3)

INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES: Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:
1. Completion of readings from selected references to fill in fundamental understanding and clinical teaching when patient availability does not match learning objectives.
2. Attendance at case conferences as available and relevant and completion of CLIPP cases when relevant.
3. Completion of special focused learning modules to include renal dialysis (both hemo- and peritoneal), diabetes education, newborn screening program discussion(s).
4. Optional 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 that the student followed throughout the rotation.

PATIENT ENCOUNTERS: Students will be expected to work-up patients with specified conditions:
Dependent on specialty clinic.

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation.
2. Direct observation and in-person feedback by attending physicians and residents.

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

PEDS 819J: Pediatric Allergy, Asthma, and Immunology

Course Director: Kelli W. Williams, MD, MPH
Email: williamske@musc.edu

Course Coordinator: Emily McGinnis
Telephone #: 843-792-8362
Email: mcginnie@musc.edu

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Block 1A	0	Block 3A	1	Block 5A	1	Block 7A	1
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Block 2B	1	Block 4B	0	Block 6B	1	Block 8B	1
Block 2C	1	Block 4C	1	Block 6C	1	Block 8C	1

COURSE DESCRIPTION:
In this rotation, students will receive experience and instruction in the outpatient evaluation and management of both pediatric and adult asthma, allergic and immunologic diseases. The patient population is approximately 80% pediatric and 20% adult. Students will become knowledgeable in the diagnosis and management of common allergic diseases including—but not limited to—asthma, allergic rhinitis, atopic dermatitis, urticaria, drug reactions and anaphylaxis. In addition, students will be introduced to rare disorders of the immune system. **Students will be required to travel to North Charleston (2250 Mall Dr, North Charleston, SC 29406), Mount Pleasant (2705 N Hwy 17 Suite 100, Mt Pleasant, SC 29466), and West Ashley (2060 Sam Rittenburg Blvd, Charleston, SC 29407) for clinic portions of the rotation.**

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Identify clinical signs and symptoms of asthma and understand basic management. (MK4, MK8, PC2, PC3, PC5, PL2, PL4, PL5, IP4)
2. Appreciate common triggers of allergic reactions (e.g. drugs, food, environmental allergens). (MK7, PC2, PC5, PC6)
3. Understand the basic management of food allergy and when to refer to an allergist. (PC4, PC5, CS1, CS2, CS4, PR1, PR2, IP1, IP2, IP3, IP4)
4. Appreciate the various diagnostic methods used to evaluate for possible allergy (e.g. skin testing, serologic testing, patch testing). (MK5, PC1, PC2, PL2)
5. Recognize warning signs and symptoms of immune deficiency. (MK3, MK4, MK5, PC1, PC2, PL2)

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 readings from selected references to fill in fundamental understanding and clinical teaching when patient availability does not match learning objectives.
3. Perform an allergy- and immunology-focused history and physical exam.
4. Understand pulmonary function testing and its use in the evaluation of asthma.
5. Observe, read and interpret allergy testing.
6. Learn how and when to administer epinephrine in management of anaphylaxis.
7. Participate in hands-on clinic consultations.

PATIENT ENCOUNTERS: Students will be expected to work-up patients with specified conditions:
1. asthma
2. allergic rhinitis
3. atopic dermatitis
4. urticaria
5. drug reactions
6. anaphylaxis

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation.
2. Direct observation and in-person feedback by attending physicians and residents.
3. Assessment of visit documentation notes.

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

PEDS 886J: Renal Disease in Pediatrics

Course Director: Oana Nicoara, MD
Email: nicoara@musc.edu

Course Coordinator: Emily McGinnis
Telephone #: 843-792-8362
Email: mcginnie@musc.edu

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Block 1A	1	Block 3A	1	Block 5A	1	Block 7A	1
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Block 2B	1	Block 4B	1	Block 6B	1	Block 8B	1
Block 2C	1	Block 4C	1	Block 6C	1	Block 8C	1

COURSE DESCRIPTION:
Students on this rotation will work alongside attendings and residents in the Pediatric Nephrology outpatient clinic and on inpatient consultations. **Students may be required to drive to North Charleston (2250 Mall Dr, North Charleston, SC 29406) during this rotation.**

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation, students should be able to do the following:
1. Describe the presenting signs of common pediatric nephrology problems and be able to formulate a differential diagnosis for these presenting signs. (MK3, MK4, PC1, PC2)
2. Describe the management of common pediatric nephrology problems. (MK3, PC3, PC5)
3. Demonstrate an understanding of general pediatrics issues in children with renal transplants (ie. indication, how children qualify, associated immune suppression, effects on family, and vaccines after transplant). (MK3, MK4, MK5, PC5, CS1, CS4)
4. Demonstrate an understanding of how a subspecialist communicates with primary care providers, hospitalists, intensivists, surgical services, and emergency department physicians, and appreciate the role of other professionals (e.g., nursing staff) in the care of children with complex renal disease. (PC5, CS4, SL2, IP1, IP2, IP3, IP4)
5. Communicate effectively with patients and families across a broad range of socioeconomic and cultural backgrounds and in a variety of difficult situations. (CS1, CS2, CS3)

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 - student will give at least one talk on the rotation and will attend weekly small group lectures given by the nephrologist.
2. Rounds/discussions, including writing appropriate notes.
3. Reading the recommended articles.
4. Conferences: Renal/urology/radiology conference, transplant selection, general pediatrics conferences.

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Hematuria and proteinuria
2. Glomerular diseases (ie. nephrotic syndromes, lupus nephritis, etc)
3. Hypertension
4. Congenital Anomalies of the Kidneys and Urinary Tract
5. Nephrolithiasis
6. Renal Transplant

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods.
1. Clinical Performance Evaluation.
2. Direct observation and in-person feedback by attending physicians and residents.

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

PMR 880J: Physical Medicine & Rehab

Course Director: Heather Walker, MD
Email: heather.walker2@encompasshealth.com; hwwsci@gmail.com

Course Coordinator: Michael Watson
Telephone #: 843-792-0078
Email: watsomic@musc.edu

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Block 2B	1	Block 4B	1	Block 6B	1	Block 8B	1
Block 2C	1	Block 4C	1	Block 6C	1	Block 8C	1

COURSE DESCRIPTION:
Students will have contact with inpatients and outpatients at MUSC Health Rehabilitation Hospital, an Affiliate of Encompass Health. Students will have the opportunity to observe physical, occupation and speech therapies. They will additionally have the opportunity to shadow Prosthetics/Orthotics during the rotation. **Clinic location is 9181 Medcom Street, Charleston, SC.**

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Identify diseases and aging processes that cause functional abnormalities. (MK1, MK3, MK5)
2. Demonstrate understanding and utilize common classification systems used in individuals with brain injury (Rancho Los Amigos), and spinal cord injury (ASIA). (MK5)
3. Communicate functional goals and expectations to patients and caregivers. (PC1, PC5, CS2, IP3, PR1)
4. Become familiar with the format of documentation using a functionally-based template. (PC3, CS5)
5. Describe the roles and scope of practice and interact with members of a rehabilitation team. (CS4, IP2, IP3, IP4)
6. Identify patient factors and other requirements for the different rehab settings. (SL1, SL2)

INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES: Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:
1. Direct patient contact including initial evaluation and examination with daily follow up in the inpatient setting.
2. Attend interdisciplinary team conferences.
3. Evaluate and examine patients in consultation to assess for rehabilitation appropriateness.
4. Observe assigned patients during therapy sessions.
5. Participate in special learning opportunities when available (Wound rounds, Pharmacy observation).

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

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation.
2. Direct observation and in-person feedback by attending physician and/or resident physician; as well as rehabilitation team members.

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

PSYCH 811J: Child & Adolescent Psychiatry

Course Directors: Paige Litz, MD, and Jennifer Patterson, MD
Email: litzp@musc.edu, pattersj@musc.edu

Course Coordinator: Mae Laroya, MD
Telephone #: 843-792-0343
Email: laroya@musc.edu

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Block 2B	1	Block 4B	1	Block 6B	1	Block 8B	1
Block 2C	1	Block 4C	1	Block 6C	1	Block 8C	1

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. The inpatient youth program at the IOP (2North) provides brief crisis stabilization of youth (5-17) with severe mood, behavior, anxiety, substance use, and thought 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. ***Interdisciplinary Education:*** This selective not only benefits students interested in Psychiatry, but also those interested in Pediatrics (including Developmental Pediatrics, Adolescent Medicine, and other pediatric subspecialties), Family Medicine, Neurology, and Pediatric Neurology.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Diagnose various childhood psychiatric disorders in an acute care setting. (MK8, PC1, PL1)
2. Describe methods used to stabilize these patients. (MK6, PC3, PR2)
3. Demonstrate effective interaction with families, children, and members of the treatment team. (IP2, IP3, IP4)
4. Identify and describe various treatment methods used in childhood psychiatric disorders including psychopharmacology, group therapy, and family therapy. (PC2, PC6, SL2)
5. Demonstrate the ability to perform an appropriate mental status exam in youth. (MK3, CS1, CS3)
6. Demonstrate the ability to complete a comprehensive write up and patient presentation. (PC3, CS5, PD1)

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 supervision.
4. Participation in family therapy sessions under supervision.
5. Formal presentation on a relevant topic with inclusion of any medical laws that may affect patient care.
6. Complete daily progress notes and presentations to attending, fellow, or resident for review.
7. Complete two (2) days of weekend rounding.
8. If taken prior to psychiatry clerkship, view MSE pre-course module.

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 disorders
4. Anxiety disorders
5. Substance use disorders
6. Psychotic disorders

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation.
2. Direct observation of patient care skills by the attending psychiatrist.
3. Students will receive verbal feedback about their performance following rounds and treatment sessions, as well as at the end of the rotation.

Will students be expected to participate in call? ☒ YES ☐ NO Complete two (2) days of weekend rounding.

PSYCH 812J: Geriatric Psychiatry

Course Director: Rindy Fernandes, MD
Email: rosri@musc.edu

Course Coordinator: Mae Laroya, MD
Telephone #: 843-792-0343
Email: laroya@musc.edu

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Block 2B	1	Block 4B	1	Block 6B	1	Block 8B	1
Block 2C	1	Block 4C	1	Block 6C	1	Block 8C	1

COURSE DESCRIPTION:
Students on this selective will have the opportunity to work with an interdisciplinary treatment team on an inpatient psychiatric unit treating geriatric (> 60 years old) patients with a variety of psychiatric disorders. Common disorders encountered include depression, dementia, and delirium, and students will assist in the completion of initial and follow up examinations of patients and families. ***Interdisciplinary Education:*** This selective not only benefits students interested in Psychiatry, but also those interested in Family Medicine**,** Internal Medicine (and subspecialties), Surgery (and subspecialties), Neurology and Orthopedics.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Perform psychiatric workup of an elderly person with dementia, affective illness, or delirium. (MK4, MK6, MK8, PC1, CS1, PL1)
2. Perform clinical evaluation of cognitive capacity of an elderly person. (MK6-8, PC1-2, CS1-3, PR3, PL1)
3. Analyze activities of daily living in an elderly person. (MK6-7, PC6-7, CS1, PR4, SL1)
4. Identify appropriate psychopharmacological treatments and generate tailored treatment to a geriatric patient. (MK3, MK5-6, PC3-5, IP2-4)
5. Apply the use of the milieu and interpersonal techniques in treatment of a geriatric patient. (PC3, PR3, MK, CS2, PL4, SL4, IP4)

INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES: Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:
1. Accurately conduct and record psychiatric and medical workup of a geriatric patient.
2. Attend rounds daily; report findings and contribute to clinical discussion regarding diagnosis, treatment, and prognosis.
3. Complete two (2) days of weekend rounding

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Dementia
2. Depression
3. Delirium
4. Psychosis

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation.
2. Observation of student's interviewing skills and overall interactions with patients and families.
3. Observation of student's presentations and discussions of patient care.
4. At the end of the rotation, students will again receive verbal feedback about their performance.

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

PSYCH 817J: VA Psychiatry Consultation Liaison

Course Director: Christine Pelic, MD
Email: pelicm@musc.edu

Course Coordinator: Mae Laroya, MD
Telephone #: 843-792-0343
Email: laroya@musc.edu

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Block 2C	1	Block 4C	1	Block 6C	1	Block 8C	1

COURSE DESCRIPTION:
Students will be instructed on the basic principles of providing psychiatric consultation in a medical and surgical setting. ***Interdisciplinary Education:*** This selective not only benefits students interested in Psychiatry, but also those interested in Internal Medicine (and subspecialties), Surgery, and Emergency Medicine.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Communicate effectively with patients, families, treatment team, and interdisciplinary teams through written documentation and verbal communication. (CS1, CS4, IP4)
2. Identify common psychiatric presentations in the medical setting and recognize the difference between primary psychiatric disorders and those secondary to medical illness. (MK3, MK4, MK6)
3. Describe appropriate assessment and treatment plans to stabilize psychiatric disorders in the acute medical and surgical settings. (PC3, PC4, PC6)

INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES: Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:
1. Attend rounds daily; Interview and assist in completing initial H & P, report findings and contribute to clinical discussion of patient.
2. Complete daily notes, assess vitals, check pertinent labs, and communicate with family/interdisciplinary providers pertinent to your patients care.
3. Complete assigned readings and present on a topic of relevant interest to the student (with guidance from attending).

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

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation.
2. Observation of student's interviewing skills and overall interactions with patients and families.
3. Observation of student's presentations and discussions of patient care.

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

RAD 880J: Diagnostic Radiology

Course Director: Dhiraj Baruah, MD
Email: baruah@musc.edu

Course Coordinator: Tiana Keener
Telephone #: 843-792-2473
Email: keenerti@musc.edu

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Block 1A	2	Block 3A	4	Block 5A	4	Block 7A	4
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Block 2B	4	Block 4B	4	Block 6B	4	Block 8B	4
Block 2C	0	Block 4C	0	Block 6C	0	Block 8C	0

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, presentations, and assignments.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. 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 of imaging studies; risks of medical imaging; how common procedures and imaging are performed on patients. (MK5, PC6, SL2)
2. Demonstrate appreciation of 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 nonradiology clinician and importance of providing detailed clinical information. (MK8, CS1, IP1)
3. Describe the indications and appropriateness of imaging studies for common clinical problems, and apply interpretive skills to evaluate basic imaging studies – predominately plain films and CT. (MK5, PC2, PL3)
4. Participate in imaging interpretation including study identification, recognition of normal radiographic and cross-sectional anatomy, and common pathology as depicted on common studies. (MK1, MK3, PC1)
5. Evaluate chest X-ray and head CT for technical adequacy, normal anatomy, common, and/or potentially life-threatening abnormalities. (MK3, PC1, PC2)
6. Utilize the ACR Appropriateness Criteria to determine the most appropriate imaging test for common clinical scenarios (MK5, PL3)

INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES: Students will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:
1. Every student will have the opportunity to spend time in multiple subspecialty areas.
2. Lectures, online materials, and experiences in the clinical reading rooms.
3. Students will present one imaging case to the class to include brief history and physical findings, indication for the imaging, appropriateness of imaging, and discussion of the imaging findings.
4. Formal presentation of an Evidence Based Imaging case including differential diagnostic considerations, appropriate imaging workup, complications, cost, and radiation dose.

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. A wide variety of clinical conditions including acute and chronic, medical and surgical diseases in patients of all ages.
2. Patients undergoing a variety of imaging procedures.

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation inclusive of attendance and engagement.
2. Evaluation of student performance on Horizon Study Share case presentation and Evidence Based Imaging presentation.
3. Performance on one quiz.

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

RAD 886J: Vascular and Interventional Radiology

Course Director: Andre Uflacker, MD
Email: uflackera@musc.edu

Course Coordinator: Tiana Keener
Telephone #: 843-792-2473
Email: keenerti@musc.edu

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Block 2B	2	Block 4B	2	Block 6B	2	Block 8B	2
Block 2C	0	Block 4C	0	Block 6C	0	Block 8C	0

COURSE DESCRIPTION: This course is designed for students who are interested in acquiring more knowledge of the field of Vascular and Interventional Radiology. The course will expose students to VIR patient care through observational rotations in VIR and diagnostic radiology, lectures, self-directed tutorials and readings, and presentations.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Describe the spectrum of diagnostic and therapeutic image-guided interventional techniques; the appropriate sequencing of exams and limitations of diagnostic imaging tests including cost-effectiveness of imaging studies; risks of medical imaging; how common procedures and imaging are performed on patients. (MK5, PC6, SL2).
2. Demonstrate an appreciation of 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 nonradiology clinician and importance of providing detailed clinical information. (MK3, MK5, MK8)
3. Describe the indications and appropriateness of imaging studies and apply interpretive skills to evaluate basic imaging studies. (MK5, PC2, PL3).
4. Evaluate chest X-ray and head CT for technical adequacy, normal anatomy, common, and/or potentially life-threatening abnormalities. (MK1, MK3, PC2).
5. Utilize the ACR Appropriateness Criteria to determine the most appropriate imaging test for common clinical scenarios (MK5, PL3)

INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES: Students will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:
1. Every student will have the opportunity to spend time in both the ART IR suite, the Main Hospital IR suite as well as the Chest, Body and Neuro reading rooms. Students will also have an opportunity to attend clinic and assist with outpatient procedures at Health East Cooper in the Mt. Pleasant location.
2. Lectures, online materials, and experiences in the clinical reading rooms.
3. Students will present one imaging case to the class to include brief history and physical findings, indication for the imaging, appropriateness of imaging, and discussion of the imaging findings.
4. Formal presentation of an Evidence Based Imaging case including differential diagnostic considerations, appropriate imaging workup, complications, cost, and radiation dose.

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. A wide variety of clinical conditions including acute and chronic, medical and surgical diseases in patients of all ages.
2. Patients undergoing a variety of imaging procedures.

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation inclusive of attendance and engagement.
2. Evaluation of student performance on Horizon Study Share presentation and Evidence Based Imaging presentation.
3. Performance on one quiz.

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

RDONC 880J: Radiation Oncology

Course Director: Jennifer Harper, MD
Email: harperjl@musc.edu

Course Coordinator: Jeffrey Johnson
Telephone #: 843-792-3273
Email: johnsjef@musc.edu

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Block 2C	0	Block 4C	1	Block 6C	2	Block 8C	2

COURSE DESCRIPTION:
The course provides an opportunity for students to work with attending and resident physicians in the Department of Radiation Oncology. Students will have opportunity to both observe and gain hands-on experiences in examining patients with cancer, solving treatment management issues, and initiating treatment planning. Students will be involved with all aspects of the patients' management and will be expected to review patients' charts and be able to discuss key findings such as pathology and imaging results. Students will attend tumor boards with the treatment teams that he/she are assigned to. At the completion of the course, the student should have a foundation for further learning about complex management issues in oncology, specifically as pertains to radiation oncology.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Assess when radiation would be part of the management of a patient with cancer. (MK3, PC1)
2. Interact professionally with other physicians and members of the treatment team. (CS1, PR2, IP2)
3. Demonstrate knowledge of complex treatment planning using virtual reality treatment planning computers. (PL2, SL2)
4. Demonstrate an ability to examine a variety of adult and pediatric cases with an emphasis on CNS, Breast, Prostate, Lung, Gyn, Head/Neck and GI cancers. These examinations will entail fiber optic scopes and other sophisticated means of examination. (PC4, CS4)
5. Formulate a treatment plan of care. (MK8, CS3)

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 and participate in multidisciplinary tumor boards in which case management with other specialists will be discussed.
2. Attend and participate in didactic sessions regarding cancer management, radiobiology, and radiation physics.
3. One-on-one work with attending and resident physicians on patient management teams. Students will be responsible for gathering information on patients and reviewing pertinent literature regarding patients and their diseases.
4. Attend and participate in multi-disciplinary tumor boards in which case management decisions are made. Students should be prepared to discuss current literature including relevant clinical trials and evidence-based medicine.
5. Give a brief presentation during conference on a topic related to cancer.

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

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation.
2. Direct observation of clinical and patient care skills by attendings and residents.
3. Final discussion with the course director to assess the learning objectives.

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

SURG 802J: General Surgery Subspecialties

Course Director: Margaret Dorlon, MD and
Matthew Wooster, MD
Email: dorlon@musc.edu, woosterm@musc.edu

Course Coordinator: Kris Banks-Smalls
Telephone #: 843-792-2720
Email: banksasm@musc.edu

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Block 2B	0	Block 4B	0	Block 6B	1	Block 8B	1
Block 2C	0	Block 4C	0	Block 6C	1	Block 8C	1

COURSE DESCRIPTION:
Students will participate in all aspects of patient care in the inpatient and outpatient setting, including on rounds, in the clinics, and in the operating room. Students will be exposed to all aspects of the complex medical and surgical care of patients on one of the following assigned subspecialties: trauma surgery, vascular surgery, pediatric surgery, surgical oncology, colorectal surgery, bariatric surgery, hepatobiliary surgery, burn surgery or transplant surgery. Student experience will vary based on the particular surgical practice to which they are assigned. Students must have completed surgery clerkship prior to taking this selective.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation, students should be able to do the following:
1. Discuss common general surgical problems. (MK3, MK4, MK5)
2. Identify relevant information in the primary medical literature regarding their patients' disease states and incorporate information from the literature into presentations and documentation. (PL3, CSS)
3. Delineate the work up and treatment of common surgical conditions. (MK1, MK2, MK3, MK4, MK5, PC1, PC2, PC3, PL3)
4. Develop comprehensive and coherent patient presentations. (PR4, PRS, CS1, CS4, CS5, PL3)
5. Demonstrate effective and professional interpersonal and communication skills, and model ethical behavior. (CS1, PR1, PR2)

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. Rounds with attending surgeons, surgical residents, and advanced practice providers (APPs).
2. Scrubbing with attending surgeons, surgical residents, and APPs in the operating room.
3. Accompanying attending surgeons, surgical residents, and APPs in the office/clinic setting.

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Inpatient and outpatient experiences will vary based on assigned subspecialty service.

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation.

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

UROL 880J: Urology

Course Director: Austin Hester, MD
Email: hesterau@musc.edu

Course Coordinator: Lisa Kynoski
Telephone #: 843-792-4538
Email: kynoski@musc.edu

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Block 2B	0	Block 4B	2	Block 6B	2	Block 8B	0
Block 2C	0	Block 4C	2	Block 6C	2	Block 8C	0

COURSE DESCRIPTION:
This course is for the 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 at MUSC and the VA Hospital. Service guidelines and other helpful information will be emailed two weeks before the actual rotation begins. Students interested in rotating during Blocks 7 or 8 should email the course coordinator for approval.

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Describe relevant anatomy and perform a genitourinary exam on adult and pediatric patients (male and female). (PC1, MK1)
2. Demonstrate understanding of the natural history, diagnosis, and treatment of common urologic disorders, including nephrolithiasis, hematuria, acute scrotum, incontinence, UTI, ED and oncologic and benign conditions of the prostate. (PC1, MK4, MK5)
3. Complete the National Medical Student Curriculum core content at www.auanet.org. (MK1, MK4, MK5)
4. Promote the critical need to personally review films and appreciate the relationship between radiology and urology along with imaging techniques that are exclusive to urology (cystography, nuclear medicine studies, renal US). Review uroradiology content at the website indicated above. (PC1, PC3, MK5)
5. Describe the pre-, intra-, post-operative management of general, oncologic, and reconstructive urologic patients. (MK2, MK3, MK4)
6. Demonstrate the basic skills of a urologist, including catheterization, basic suturing and physical exam skills through simulation training and clinical practice. (PD1, PC2, MK5)
7. Discuss controversial issues with regard to the management of GU malignancies, in particular Prostate Cancer and Prostate Specific Antigen (PSA) testing. (SL2, PL3, PD6)

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.
5. Complete the 3rd year Urology Selective Skills Checklist and turn in to coordinator by the end of the rotation.
6. Meet with the course director at the start of the rotation, as a group.

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

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. Clinical Performance Evaluation.
2. Direct observation of clinical and patient care skills by the chief resident and attending urologist.
3. Conference Discussions and journal article presentation.
4. Successful completion of skills checklist, and core curriculum content located at www.auanet.org.

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