

# RUTGERS

New Jersey Medical School

## **ELECTIVES** for Visiting Students *2024-2025*

*Office of the Registrar  
Medical Sciences Building  
MSB B-640*

# TABLE OF CONTENTS

Table of Contents.....	2-3
Elective Schedule/Dates.....	4
<b>Electives:</b>	
<b>Anesthesiology.....</b>	<b>5</b>
ANES 9000- General Anesthesia.....	5
<b>Emergency Medicine.....</b>	<b>6</b>
EMED 9245 - Emergency Medicine.....	6
EMED 9260- Combined Clinical Emergency Medicine Subspecialties.....	7
<b>Neurological Surgery.....</b>	<b>8</b>
NSUR 9000 - Acting Internship in Neurological Surgery.....	8
<b>Neurosciences.....</b>	<b>9</b>
NEUR 9010 - Neurology Acting Internship.....	9
NEUR 9020- Pediatric Neurology.....	9
<b>Obstetrics, Gynecology, and Women's Health.....</b>	<b>10</b>
OBG 9020 - Gynecologic Oncology.....	10
OBG 9070- High-Risk Obstetrics.....	10
OBG 9071 - Obstetrical In-Patient Labor and Delivery Service.....	10
OBG 9081- Reproductive Endocrinology/Infertility.....	11
<b>Ophthalmology.....</b>	<b>12</b>
OPH 9000 - Ophthalmology.....	12
OPH 9002 - Research in Ophthalmology.....	13
<b>Orthopaedics.....</b>	<b>14</b>
ORPS 9116 - Acting Internship in Orthopaedics.....	14
<b>Otolaryngology.....</b>	<b>15</b>
OTOL 9140 - Otolaryngology-Head and Neck Surgery, Acting Internship.....	15
OTOL 9151 - Otolaryngology Research.....	15
<b>Pediatrics.....</b>	<b>16</b>
PEDS 9015- Medicine and Pediatrics.....	16

<b>Physical Medicine and Rehabilitation</b> .....	17
REHB 9000 - Acting Internship in Physical Medicine and Rehabilitation.....	17
REHB 9001 - Pediatric Physical Medicine and Rehabilitation.....	17
REHB 9003 - Research in Physical Medicine and Rehabilitation.....	18
REHB 9004 - Sports Medicine/Musculoskeletal Clinical Rotation.....	18
REHB 9005 - Sports Medicine/Musculoskeletal Research.....	19
REHB 9100 - Geriatric Rehabilitation.....	19
REHB 9200 - Spinal Cord Injury.....	20
REHB 9300 - Neuromuscular and Pulmonary Rehabilitation.....	20
REHB 9400 - Brain Injury Rehabilitation.....	21
REHB 9401 - Rehabilitation in Private Practice .....	21
<b>Psychiatry</b> .....	22
PSYC 9000 - Sub internship in Psychiatry.....	22
PSYC 9010 - Psychiatric Emergency Services.....	22
PSYC 9020 - Child and Adolescent Psychiatry.....	23
PSYC 9025- Addiction Medicine.....	23
PSYC 9030 - Consultation-Liaison.....	24
<b>Radiology</b> .....	25
RAD 9010 - Diagnostic Radiology.....	25
RAD 9020 - Interventional and Vascular Radiology.....	25
<b>Surgery</b> .....	26
SURG 9020 - Adult Cardiothoracic Surgery.....	26
SURG 9050- Acting Internship/University Hospital.....	26
SURG 9181 - Plastic Surgery.....	27
SURG 9232- Trauma Team Acting Internship.....	27
SURG 9233- Surgical Intensive Care Unit.....	28
SURG 9253 - Urology - Acting Internship.....	28
SURG 9266 - Acting Internship in Vascular and Endovascular Surgery.....	29

## ELECTIVES SCHEDULE - Visiting Students

**THESE ARE THE ONLY DATES OFFERED TO VISITING STUDENTS. STUDENTS MUST ADHERE TO NJMS ROTATION DATES; THERE WILL BE NO EXCEPTIONS.**

### ACADEMIC YEAR 2024 - 2025

	CALENDAR DATES			BROCHURE DESIGNATION
2024	July 1	to	July 26	July
	July 29	to	August 23	August
	August 26	to	September 20	September
	September 23	to	October 18	October
	October 21	to	November 15	November

The elective offerings listed in this brochure are the ONLY electives that are offered to non-NJMS students.

## DEPARTMENT OF ANESTHESIOLOGY

### **ANES 9000 - GENERAL ANESTHESIA**

DIRECTOR: Dr. Olga Martins

LOCATION: University Hospital

WHEN OFFERED: October only

PREREQUISITE: General Surgery

**DESCRIPTION OF ELECTIVE:** Students will have an opportunity to review the fundamentals of basic and clinical sciences in pharmacology and physiology as they relate to anesthesia. They will be involved in preoperative preparation, administration of anesthesia and postoperative follow-up of the patient. Application of cardiac, respiratory, metabolic, renal, and fluid/electrolyte physiology to clinical conditions is emphasized. The basic skills of tracheal intubation and airway maintenance are learned in the operating room. The student will also be exposed to the fundamentals of regional and conduction anesthesia. All anesthetic procedures are done under the supervision of faculty anesthesiologists. Opportunities for anesthetics for such specialties as cardiothoracic surgery, neurosurgery, and obstetrics exist for the well-motivated student. Fourth year students competing a 4-week rotation also have the option to select one week in the CTICU/SICU West.

All students will receive a list of topics to be covered during their rotation. For each day in the OR, the student should initiate the discussion of those topics with his/her resident or attending. The anesthesia provider will initial the form, which the student should submit to the course director at the end of the rotation. All students participate in a formal examination process, depending on the length of elective and medical student year. The 2-week elective examination is a 15-25 question multiple choice exam. Students scheduled for the 4-week elective will be given a 60-question exam on the last day of the rotation.

**Evaluation:** The student's grade is based upon clinical performance (majority) and examination results (minority).

## DEPARTMENT OF EMERGENCY MEDICINE

### EMED 9245 - EMERGENCY MEDICINE

Elective Director: Dr. Samantha Lleras  
[lleras@njms.rutgers.edu](mailto:lleras@njms.rutgers.edu)

Course Coordinator: Ms. Tiffany Thompson  
MSB E 609, [tt388@njms.rutgers.edu](mailto:tt388@njms.rutgers.edu), 973-972-5886

LOCATION: University Hospital, Department of Emergency Medicine

DURATION: 4 weeks

WHEN OFFERED: July, August, September, October

PREREQUISITES: Completion of all third year required clerkships, VSLO application.

DESCRIPTION OF COURSE: This course is a four-week clinical rotation in the Emergency Department (ED) at University Hospital. The course is offered only to fourth-year medical students, who will act as interns during their clinical shifts.

Requirements include:

- 1) Fourteen 8-hour shifts per 4-week rotation.
- 2) Many evenings, night, and weekend shifts in our busy ED
- 3) Attendance at Wednesday resident conferences
- 4) 5-minute power-point presentation at end of block

Students will see patients with a wide range of presenting signs and symptoms that include trauma, chest pain, acute gynecologic and abdominal complaints, respiratory failure, and other acute and acute-on-chronic presentations. Students are also assigned a resident/faculty mentor based on their interests and are expected to meet with them throughout the clerkship.

Students are encouraged to perform any necessary diagnostic, resuscitative and/or therapeutic procedures under direct supervision of the ED attending physician.

1. Students will be evaluated at the intern level. Specifically, we expect:
2. Absolute professionalism, including dress and timeliness
3. Efficient and timely interview/examination
4. Efficient and timely presentation of a tailored, substantive HPI and plan to attending /senior resident
5. Rigorous follow-up on any diagnostic studies for the patients under the student's care
6. Appropriate actions to make patients more comfortable and move them efficiently through the ED

Students will be graded on their clinical performance via evaluations by the ED attending physicians and senior residents. Mid-rotation feedback regarding clinical performance is provided. This elective is graded on a fail/pass/high pass/honors scale. Attendance at all required shifts, lectures, didactics, and procedural workshops is required to pass this elective.

REPORTING INSTRUCTIONS: Generally, we meet at 8AM on first day remotely through Zoom/Webex. Please email Ms. Tiffany Thompson [tt388@njms.rutgers.edu](mailto:tt388@njms.rutgers.edu) for further instructions. Any changes/updates will be emailed on acceptance to the rotation via VSLO.

## **EMED 9260 – COMBINED CLINICAL EMERGENCY MEDICINE SUBSPECIALTIES**

Elective Director: Dr. Samantha Lleras  
[lleras@njms.rutgers.edu](mailto:lleras@njms.rutgers.edu)

LOCATION: University Hospital, Department of Emergency Medicine

DURATION: 4 weeks

WHEN OFFERED: July, August, September, October

PREREQUISITES: Completion of all third year required clerkships, VSLO application.

**DESCRIPTION OF COURSE:** This four-week elective offers visiting 4th year medical students a combined experience in our busy, urban emergency department, as well as exposure to various subspecialties within Emergency Medicine (EM). This course is designed to cultivate individuals' specific interests within the field of emergency medicine. The rotation entails two weeks of dedicated clinical shifts in the Emergency Department at University Hospital, during which students act as interns. Visiting medical students will add to their clinical EM experience with two additional weeks divided between up to 2 subspecialties within the Department of Emergency Medicine at Rutgers NJMS. A variety of subspecialty options are available for visiting medical students to choose from, including Bedside Emergency Ultrasound, Medical Toxicology, Emergency Medical Services (EMS), Administration in Emergency Medicine, or Pediatric Emergency Medicine. Students are offered this rotation with an individualized schedule based on their interests and availability.

**COURSE OBJECTIVES:** By the completion of the elective, the student will have acquired basic knowledge and skills specific to the field of EM:

- Identify and prioritize patients requiring urgent attention
- Master early assessment and stabilization of the critically ill patient
- Develop a differential diagnosis and initial management plan
- Adapt your presentation style to a wide variety of situations and listeners
- Communicate effectively and empathetically with patients and their families
- Manage your time and your patients' time efficiently
- Be an engaged and active participant in patient care
- Recognize social and economic factors that affect patients' health and healthcare
- Document clearly and thoroughly
- Master procedures such as phlebotomy, IV catheter placement, simple suturing

### **Key responsibilities of the student while on elective:**

1. On shift, students will be expected to work at the level of a sub-intern: do a history and physical exam on patients, present patients to the attending and resident, and follow those patients during the shift.
2. Attend resident conferences every Wednesday
3. Students will select up to two subspecialties that are offered within the Department of Emergency Medicine at Rutgers NJMS. Responsibilities will vary based on the students' individualized subspecialty schedule.

Students will be graded on their clinical performance via evaluations by the ED attending physicians. Mid-rotation feedback regarding clinical performance is provided. Upon completion of the course, students' clinical proficiency will be assessed through a Standard Letter of Evaluation (SLOE).

**REPORTING INSTRUCTIONS:** Students should email Ms. Tiffany Thompson and Dr. Lleras prior to the rotation for reporting instructions. Generally, we meet at 8am on the first day of the rotation via Zoom.

## DEPARTMENT OF NEUROLOGICAL SURGERY

### NSUR 9000 - ACTING INTERNSHIP IN NEUROLOGICAL SURGERY

DIRECTOR: Dr. P.K. Agarwalla, [pk.agarwalla@rutgers.edu](mailto:pk.agarwalla@rutgers.edu)

LOCATION: University Hospital

WHEN OFFERED: July, August, September, October

DESCRIPTION OF ELECTIVE: Students act as members of the neurosurgical team and are responsible for the work-up and care of neurosurgical patients; they are involved in operative procedures. Students will scrub on cases, take some night calls with the residents, and will be asked to prepare and present conferences. The elective is rigorous and demanding; it is designed to preview an intern-level rotation for those students actively considering and applying for a neurosurgical residency position.

#### COURSE OBJECTIVES:

1. By the completion of the elective, the medical student will have a basic understanding of the expectations and duties of a Neurosurgical Intern.
2. The Acting Intern (AI) should be able to interview and examine a neurosurgical patient independently.
3. The AI will participate in surgical procedures in the OR and at the bedside under the direct supervision of a Senior Resident or Attending Physician.
4. By the conclusion of the AI rotation, students should have in development at least one research project.
5. Students will be expected to give at least one presentation of their choosing during the rotation. This presentation may be a case presentation, research presentation, or grand rounds talk geared to a level commensurate with their education.
6. Most importantly, the goal of this rotation is to equip the student with the tools necessary to succeed in a neurosurgical residency.

EVALUATIONS: Your performance will be evaluated in a “360-degree” manner by all interactions while on service including with faculty, nursing, residents, and staff. Evaluation will be based on professionalism, fund of knowledge, attendance, and evidence of learning during the rotation. Faculty will evaluate you based on their interactions in teaching sessions and in the operating room.



## DEPARTMENT OF NEUROSCIENCES

### **NEUR 9010 - NEUROLOGY ACTING INTERNSHIP**

DIRECTORS: Dr. Erin Feinstein

LOCATION: University Hospital

WHEN OFFERED: July, August, September, October

DESCRIPTION OF ELECTIVE: Taken after the Neurology Clerkship, this elective gives the student who is interested in obtaining further neurological training the opportunity to function as a house officer in neurology with direct patient responsibility under close supervision.

REPORTING INSTRUCTIONS: The student should contact Dr. Feinstein ([feinster@njms.rutgers.edu](mailto:feinster@njms.rutgers.edu)) one week prior to the start of the course for reporting instructions.

### **NEUR 9020 - PEDIATRIC NEUROLOGY**

DIRECTOR: Dr. Caroline Hayes-Rosen

LOCATION: University Hospital

WHEN OFFERED: July, August, September, October

PREREQUISITES: Pediatrics and Neurology

DESCRIPTION OF ELECTIVE: Students participate on the clinical service which includes both inpatient and outpatient experiences. They are given supervised responsibility for patients. Students participate in consults, teaching rounds, lectures, and clinics. Students can expect to see a wide variety of patients including such disorders as autism, ADHD, learning disabilities, cerebral palsy, seizures, neuromuscular disorders, headaches, and metabolic disorders. Neurodiagnostic techniques such as CT scan, EEG, and MRI will be taught. Customization of clinic schedule is available for students with specific interests.

## **DEPARTMENT OF OBSTETRICS, GYNECOLOGY, AND WOMEN'S HEALTH**

### **OBG 9020 - GYNECOLOGIC ONCOLOGY**

DIRECTOR: Dr. Bernadette Cracchiolo

LOCATION: University Hospital and Ambulatory Care Center

WHEN OFFERED: July, August, September, October

PREREQUISITE: Obstetrics and Gynecology, Medicine, Surgery clerkships

DESCRIPTION OF ELECTIVE: Students will develop a deeper understanding of cancer care for gynecologic malignancies by participating in clinic, assisting in OR and performing supervised floor care. They will function as part of the gynecologic oncology team. Students will participate in twice weekly clinic sessions, daily rounds, surgical cases, work rounds, tumor board and pathology conference. They will be required to give a short oral presentation on a mutually agreed upon topic.

### **OBG 9070 - HIGH-RISK OBSTETRICS**

DIRECTOR: Dr. Lisa Gittens-Williams

LOCATION: University Hospital

WHEN OFFERED: July, August, September, October

PREREQUISITE: Obstetrics and Gynecology

DESCRIPTION OF ELECTIVE: The student will follow the schedule of the senior resident assigned to the high-risk obstetrical service will be involved in the care of complicated antenatal and postpartum patients and will gain the skill of accurate assessment, evaluation, and management of high-risk obstetrical inpatients. The student will prepare cases for presentation for daily Maternal Fetal Medicine Rounds. A topic-based presentation will be prepared and presented to faculty and students at the weekly perinatal review. Students will attend Maternal Fetal Medicine clinic, gaining the skill of accurate diagnosis and management of common high risk obstetrical complications. At the end of the rotation, student will have in depth understanding of diagnosis and management of common obstetrical problems.

This elective is not open to international medical students.

REPORTING INSTRUCTIONS: On first day of elective, student should attend rounds on F green, UH conference room at 8 AM. Please contact Dr. Gittens Williams at [gittensln@njms.rutgers.edu](mailto:gittensln@njms.rutgers.edu) prior to the start date of the rotation.

### **OBG 9071 - OBSTETRICAL IN-PATIENT LABOR AND DELIVERY SERVICE**

DIRECTOR: Dr. Jung Ki Park

LOCATION: University Hospital

WHEN OFFERED: July, August, September, October

PREREQUISITE: Obstetrics and Gynecology

**DESCRIPTION OF ELECTIVE:** The student will be responsible to junior and senior Residents in the Labor and Delivery Suite and act as subintern alternating with the first-year resident on labor patients. The student will be assigned pertinent topics such as hypertension, labor curve analysis, fetal heart rate monitoring, and obstetrical analgesia. The student will also follow all patients during a week and report analysis thereof on a weekly basis to the Attending physician. In addition, the student will be expected to present detailed summaries (from antenatal records, labor, deliveries, and neonatal status) of a few cases weekly to the Attending physician. During the first week, the student will spend mornings in ultrasound instruction.

This elective is not open to international medical students.

**REPORTING INSTRUCTIONS:** Students should report to Room F-246/247, University Hospital, or, if closed, to Labor and Delivery, F Level, University Hospital. Phone numbers: (973) 972-5838 or 5839.

### **OBG 9081 - REPRODUCTIVE ENDOCRINOLOGY/INFERTILITY**

**DIRECTOR:** Dr. Sara Morelli  
Ext. 2-5554

**LOCATION:** University Reproductive Associates  
214 Terrace Avenue, Hasbrouck Heights, NJ  
(201) 288-6330

**DURATION:** 4 weeks

**WHEN OFFERED:** July, August, September, October

**PREREQUISITE:** Obstetrics and Gynecology

**DESCRIPTION OF ELECTIVE:** The student will follow, with the REI Attending physician, patients in the in vitro fertilization program, as well as in- and out-patients with gynecological endocrine or infertility problems. The student will be given topics and patient cases to review, analyze and present to the Attending physician. The student is required to prepare a presentation on an REI topic to REI Division Faculty and Fellows at the conclusion of their rotation.

This elective is not open to international medical students.

**REPORTING INSTRUCTIONS:** Students should report to the address above at 8:00 a.m. on the first day of the rotation.

## DEPARTMENT OF OPHTHALMOLOGY

### OPH 9000 - OPHTHALMOLOGY

DIRECTOR: Dr. Suqin Guo

OTHER DIRECTORS: Drs. N. Bhagat, A. Cohen, D. Chu, L. Frohman, P. Hersh, A. Khouri,  
P. Langer, R. Rescigno, M. Roy, R. Turbin, M. Zarbin

CONTACT PERSON: James Jackson 973-972-2063

LOCATION: The Institute of Ophthalmology and Visual Science, Doctors Office Center, Suite 6100, Newark

WHEN OFFERED: August, September, October

DESCRIPTION OF ELECTIVE: Students work along with residents in the General Eye Clinic and various sub-specialty clinics offered within the Institute of Ophthalmology and Visual Science. These include Pediatric ophthalmology, neuro-ophthalmology, Cornea and external diseases, Vitreoretinal, glaucoma, Oculoplastic and Uveitis. They learn how to use a direct-ophthalmoscope, slit lamp and other specialized instruments as well as how to perform general ophthalmology examinations. They are allowed to observe surgical procedures. Students attend the lectures on CD leveled to medical students and conferences for the eye residents.

#### Goals and Objectives

The Ophthalmology Clerkship seeks to provide the student with:

- a. An understanding of the visual apparatus, its functions, dysfunctions and diseases, especially as related to other systemic conditions
  - b. An opportunity for direct observation of the effects of aging and disease on the eye
  - c. The information necessary for the diagnosis of many significant ophthalmic diseases
  - d. The skills and disciplines required in the field of ophthalmology
- Specifically, students are expected to familiarize the information and techniques in the following areas as indicated:

#### Visual Acuity

Measurement and recording of visual acuity and color vision and the determination of whether reduced visual acuity is due to uncorrected refractive error or to a pathologic condition.

#### Ophthalmoscopy

Differentiating a normal from an abnormal fundus (optic nerve/retina), describing the appearance of an abnormality and the indication of its relationship to ocular, neurologic or systemic disease.

#### Slit Lamp Exam and Red eye

Familiarizing anterior segment ocular exam with slit lamp and determining whether a red-eye disorder requires the prompt attention of an ophthalmologist or whether a primary-care physician might appropriately treat the condition.

#### Injuries

Evaluating the problems of common ocular and orbital injuries and whether such injuries require the prompt attention of an ophthalmologist or whether a primary-care physician can treat the condition.

#### Ophthalmology-subspecialties

Students work along with residents in the General Eye Clinic and various sub-specialty clinics offered within the Institute of Ophthalmology and Visual Science. These include Pediatric ophthalmology, neuro-ophthalmology, Cornea and external diseases, Vitreoretinal, glaucoma, Oculoplastic and Uveitis.

**STUDENT EVALUATION:** Each student is evaluated on the basis of fund of information and comprehension, skills (history-taking and patient examination), problem-solving, industry and reliability, judgment, interpersonal

relations (with peers, staff, and patients), motivation, and house officer potential. A written test (multiple choice) will be given on the last Friday of the rotation. Evaluation will be sent to Registrar's Office at the completion of the rotation.

**REPORTING INSTRUCTIONS:** The students are to report to the 6th floor, Suite 6100 in the Doctor's Office Center (DOC) Building at 8:30 a.m. on the first day of their elective. They are to bring their ophthalmoscopes with them. The students will receive email instructions prior to their ophthalmology rotation.

## **OPH 9002 – RESEARCH IN OPHTHALMOLOGY**

**DIRECTOR:** Dr. Marco Zarbin

**LOCATION:** NJMS

**WHEN OFFERED:** July, August, September, October

**DESCRIPTION OF ELECTIVE:** This elective is designed to allow students the opportunity to perform clinical research in ophthalmology. Under the supervision of a faculty mentor, the student will have the opportunity to identify a topic for experimental study, formulate a research proposal, perform a literature review, and then design and implement the proper study to further research his/her topic of interest. The elective will provide the student with an understanding of how clinical studies are designed and performed and will further provide the student with valuable experience in experimental design, implementation, and trouble-shooting.

During this elective, the student will be expected to:

1. Identify a topic or clinical case of interest for further study and write a research proposal.
2. Independently conduct a primary literature review and write a research proposal for submission to a faculty mentor.
3. Meet with his/her faculty mentor regularly to present and summarize relevant literature and inform the faculty member of his/her progress. The student's faculty mentor will provide mid-elective feedback and provide the student with suggestions for improvement.
4. Gather clinical data over the remainder of the elective and meet with his/her faculty mentor in order to produce a relevant clinical hypothesis.
5. Time permitting, synthesize the gathered information into an original and coherent research paper by the end of the elective for possible submission for peer reviewed publication.
6. Submit a one-page essay detailing how this research experience accomplished the objectives for this elective.

## DEPARTMENT OF ORTHOPAEDICS

### ORPS 9116 - ACTING INTERNSHIP IN ORTHOPAEDICS

DIRECTOR: Dr. Neil Kaushal

ADMINISTRATIVE CONTACT: Ms. Monique Smith (973) 972-3860

LOCATION: University Hospital and Doctors Office Center

WHEN OFFERED: August, September, October

PREREQUISITES: General Surgery

DESCRIPTION OF ELECTIVE: This elective is designed for the medical student contemplating a career in Orthopaedic Surgery. The elective is designed to give the best exposure possible with various members of the Orthopaedic Department and provide a broad overview of orthopaedic surgery at New Jersey Medical School and its affiliates.

Exposure includes, but is not limited to, orthopaedic trauma, reconstructive surgery, pediatrics, hand, foot, ankle, oncology, spine, arthroscopy, shoulder surgery, and sports medicine. The interaction with faculty and residents is designed to be clinically oriented. This means that a large portion of the students' orthopaedic education will arise from facing orthopaedic problems with the residents and faculty in the emergency room, orthopaedic clinics, private physicians' offices, and operating room. During the rotation, all students will have the opportunity to have interchanges with all full-time members of the faculty and will have extensive opportunities to demonstrate their baseline knowledge of anatomy and developing skills in orthopaedic examination in daily presentations of patient conditions and monthly formal diagnostic reviews. Overnight orthopaedic call is strongly encouraged in this rotation in order to allow the medical students to have a closer working interaction with the orthopaedic resident and provide better opportunities for the student to learn and demonstrate orthopaedic and manual dexterity skills.

## DEPARTMENT OF OTOLARYNGOLOGY

### **OTOL 9140 - OTOLARYNGOLOGY-HEAD AND NECK SURGERY, ACTING INTERNSHIP**

DIRECTOR: Dr. Evelyne Kalyoussef and Dr. Dylan Roden

LOCATION: University Hospital

WHEN OFFERED: July, August, September, October

NUMBER OF STUDENTS PER ROTATION: 4

DESCRIPTION OF ELECTIVE: The student becomes part of the team managing the patients on the outpatient and inpatient Otolaryngology services. Acquisition of basic otolaryngologic history taking and physical examination skills will be emphasized. The student will have the opportunity to observe and assist in the operating room as well as in the clinic. He/she will be exposed to the various subspecialty areas in otolaryngology, including otology-neurotology, head and neck surgery, laryngology, facial plastic and reconstructive surgery, rhinology, and pediatric otolaryngology. Students will also attend and participate in rounds and departmental conferences. Students are expected to give a presentation at the Departmental Grand Rounds at the end of their rotation.

### **OTOL 9151 - OTOLARYNGOLOGY RESEARCH**

DIRECTORS: Dr. Jean Anderson Eloy

LOCATION: University Hospital

WHEN OFFERED: July, August, September, October

PREREQUISITES: Permission of the Course Director, Completion of online CITI course on Human Subjects Protection (link available through IRB website)

DESCRIPTION OF ELECTIVE: A research elective month in the Department of Otolaryngology-Head and Neck Surgery at University Hospital. Students will participate in ongoing research with members of the Department. This is primarily for students interested in entering the field of Otolaryngology-Head and Neck Surgery; however, other students will be considered on an individual basis.

## DEPARTMENT OF PEDIATRICS

### **PEDS 9015 – MEDICINE AND PEDIATRICS**

DIRECTORS: Dr. Kristin Wong

LOCATION: University Hospital, ACC F-Level

WHEN OFFERED: August, September, October

PREREQUISITE: Pediatrics and Medicine clerkships

DESCRIPTION OF ELECTIVE: In this elective, medical students will be exposed to the combined field of Internal Medicine and Pediatrics by working with the Med-Peds faculty. Discussions will be based on patient encounters and include the most common conditions presenting in adults and children. The students will spend most of their time in the ambulatory practice but may have the chance to round inpatient with a Med-Peds attending.

At the conclusion of this elective the student will be able to

- Obtain further knowledge of pathophysiology and experience in the proper diagnosis and treatment of disease in patients of all ages.
- Identify, summarize, and develop a differential diagnosis of illnesses in both pediatric and adult patients: fever, vomiting, headache, chest pain, abdominal pain, wheezing, joint pain, backache.
- Obtain communication skills in counseling patients and families: anticipatory guidance, nutrition, school issues, smoking cessation, diabetes, depression, asthma, COPD and hypertension.
- Describe indications for consultation and referral for the most common diseases affecting adult and pediatric patients.
- Describe indications/criteria for admissions to the inpatient setting for adults and pediatric patients.
- Evaluate the business management of an urban ambulatory practice such as healthcare coverage, managed care, proper billing/coding, and reimbursements.

REPORTING INSTRUCTIONS: Students should email Dr. Wong prior to the start of the elective for instructions on when to report on the first day of the elective. Dr. Wong can be reached at [kgw22@njms.rutgers.edu](mailto:kgw22@njms.rutgers.edu) or office phone (973) 972-4736, or pager (973) 203-4774.



## DEPARTMENT OF PHYSICAL MEDICINE AND REHABILITATION

### REHB 9000 - ACTING INTERNSHIP IN PHYSICAL MEDICINE AND REHABILITATION

DIRECTOR: Dr. Steven Kirshblum

LOCATIONS: University Hospital and/or Doctors Office Center (Newark campus); Kessler Institute for Rehabilitation - (West Orange, Saddlebrook and Chester); private physicians' offices

WHEN OFFERED: July, August, September, October, November

DESCRIPTION OF ELECTIVE: Exposure to the field of physical medicine and rehabilitation (PM&R) is offered at any of the above-stated locations. The student becomes part of the team, taking histories and performing physical examinations of patients with neurological and musculoskeletal conditions. The individual patients are then followed by the student through the different treatment areas, and the student is involved actively in the diagnosis and treatment planning of his/her patients, as well as the comprehensive social and psychological evaluation and treatment and discharge planning. This includes the care and treatment of patients with spinal cord injury, traumatic brain injury, amputation, stroke, orthopedic, trauma, or general rehabilitation admitted for comprehensive care.

Depending on the student's interest and the facility, he/she will have the opportunity to be exposed to the wide array of therapeutic armamentarium used by the physiatrist, including pharmacologic management, injection treatments (motor point blocks, nerve blocks, trigger point injection, bursal/intraarticular injection), physical agents, including electrotherapy, therapeutic exercise, ADL training, orthotics/prosthetics, speech therapy and disability counseling.

This elective presents the student with problems in internal medicine, including rheumatology and neurology, as well as in neurosurgery and orthopaedics. Unusual diagnostic problems are seen more frequently in the rehabilitation center; either inpatient or outpatient services are included depending on the placement.

Students are evaluated on the basis of their overall involvement in the program, attendance at conferences and clinics, and the ability to carry out patient-care programs.

REPORTING INSTRUCTIONS: Approximately 1-2 weeks prior to the start of the student's rotation, PM&R department staff will provide the student with placement instructions via email.

### REHB 9001 - PEDIATRIC PHYSICAL MEDICINE AND REHABILITATION

DIRECTOR: Dr. Kate Bentley

LOCATION: Children's Specialized Hospital and affiliates (Mountainside, Clifton, southern NJ if preferred)

WHEN OFFERED: July, August, September, October

DESCRIPTION OF ELECTIVE: Two-to-four weeks will be spent at Children's Specialized Hospital, a pediatric rehabilitation facility in Mountainside, N.J. Time will be spent in outpatient services, giving the student the opportunity to evaluate and follow the management of children with neuromuscular, musculoskeletal and developmental disorders including cerebral palsy, hypotonia, spina bifida, and muscular dystrophy. The student will have the opportunity to attend specialty clinics in orthopaedics and neurology, as well as observe the performance of diagnostic and management techniques unique to the field of rehabilitation medicine, including electrodiagnosis and peripheral nerve blocks. Students may also have the opportunity to attend clinics at special needs schools. This elective would be of particular interest to students thinking of careers in

either Physical Medicine and Rehabilitation or Pediatrics. Evaluation will be based on overall interest, enthusiasm, and clinical performance.

There are limited 2-week blocks offered at the Children's Specialized Hospital Inpatient site in New Brunswick, New Jersey. There students can shadow attendings in our 60 bed acute rehabilitation facility to observe both the medical and therapy management of children age one month to 21 years with a multitude of diagnosis. These include mutli-trauma, post-op orthopedic care, traumatic brain injury, spinal cord injury, infants with congenital anomalies and neuromuscular disorders.

REPORTING INSTRUCTIONS: Approximately 1-2 weeks prior to the start of the student's rotation, PM&R department staff will provide the student with placement instructions via email.

### **REHB 9003 - RESEARCH IN PHYSICAL MEDICINE AND REHABILITATION**

DIRECTORS: Dr. John Bach

LOCATIONS: University Hospital; Kessler Institute - West, Saddlebrook, and Kessler Foundation Research Center

WHEN OFFERED: July, August, September, October

DESCRIPTION OF ELECTIVE: There is an active research program in the physiological, psychological, behavioral and engineering aspects of rehabilitation in the Department of Physical Medicine and Rehabilitation, as well as a number of collaborative projects with other departments at Rutgers New Jersey Medical School. Research programs are currently underway to improve the functional abilities of persons with disabilities resulting from spinal cord injury, head injury, stroke, neuromuscular disease, pulmonary disease, and amputations. Projects cover such areas as functional electrical stimulation, advanced electromyography, prosthetic design, sympathetic nervous system function in spinal cord injured patients, geriatrics, fatigue, treatment of depression, sexuality, family training, and others.

REPORTING INSTRUCTIONS: Approximately 1-2 weeks prior to the start of the student's rotation, PM&R department staff will provide the student with placement instructions via email.

### **REHB 9004 – MUSCULOSKELETAL (MSK) SPORTS MEDICINE CLINICAL ROTATION**

DIRECTORS: Dr. Steven Kirshblum. Attendings include Drs. Patrick Foye, Roger Luo, Zivya Petrin, Benjamin Levy, Kathy Chou, and Todd Stitik

LOCATION: University Hospital, Doctor's Office Center, Kessler Institute for Rehabilitation (West Orange); and private physicians' offices (northern NJ)

WHEN OFFERED: July, August, September, October

DESCRIPTION OF ELECTIVE: To learn how to diagnose and non-surgically treat a variety of sports-related and other musculoskeletal conditions and injuries. Emphasis will be on developing a differential diagnosis, learning and practicing musculoskeletal physical exam skills, assessing biomechanics and mechanisms of injury, and initiating appropriate rehabilitation treatment programs. Students will also be encouraged to observe and participate in a variety of joint and soft tissue injection procedures. Students are expected to have a basic understanding of musculoskeletal anatomy and peripheral neuro-anatomy. Students will attend educational programs and may have the option of attending medically-covered athletic events during the time of their rotation. This is predominantly a clinical (patient care) rotation, but, additionally, clinical research exposure/participation may be available.

REPORTING INSTRUCTIONS: Approximately 1-2 weeks prior to the start of the student's rotation, PM&R department staff will provide the student with placement instructions via email.

### **REHB 9005- MUSCULOSKELETAL (MSK) SPORTS MEDICINE RESEARCH**

DIRECTORS: Dr. Steven Kirshblum. Attendings include Drs. Patrick Foye, Kathy Chou, Roger Luo, Zivya Petrin, Benjamin Levy and Todd Stitik

LOCATION: Doctor's Office Center, Newark.

WHEN OFFERED: July, August, September, October

DESCRIPTION OF ELECTIVE: Students within this elective will actively participate in research projects related to topics in non-surgical musculoskeletal medicine. The outpatient division of the PM&R department is actively involved in a variety of research projects, including non-surgical treatment of coccydynia, osteoarthritis, back pain, and a variety of other musculoskeletal conditions. Also, depending on the timing of the elective there are often additional academic projects for medical publication (review articles, online medical materials, etc.) which the students may actively participate in. Students should contact the course director in advance of the start date to make arrangements for which projects the students will be involved in. There is no clinical component to this rotation.

### **REHB 9100 - GERIATRIC REHABILITATION**

DIRECTOR: Dr. Uri Adler

LOCATION: Kessler Institute for Rehabilitation (West Orange and Saddlebrook)

WHEN OFFERED: July, August, September, October

DESCRIPTION OF ELECTIVE: Objectives: The medical student participating in this elective will acquire the following skills: geriatric assessment and functional evaluation for the rehabilitation of patients with CVA; joint replacements; fractures; neurological disorders (Parkinson's, GBS, encephalopathies, dementia, peripheral neuropathies); arthritis and connective tissue disorders; musculoskeletal spasms and injuries; and coronary artery disease. He/she will have a knowledge of the complications with each of the above, the role of rehabilitation and potential for functional recovery, and an understanding of an interdisciplinary team approach in the management of the geriatric patient.

Format: The medical student will be assigned to an attending physiatrist. A resident may also be involved in mentoring the student. Specific duties will be assigned by the attending. Students will be required to follow the syllabus and guidelines, with physicians' responsibilities as defined.

Evaluation: Evaluation will consist of a written exam based on the syllabus at the end of the rotation and ongoing evaluation during the rotation.

REPORTING INSTRUCTIONS: Approximately 1-2 weeks prior to the start of the student's rotation, PM&R department staff will provide the student with placement instructions via email.

## **REHB 9200 - SPINAL CORD INJURY**

DIRECTORS: Drs. Jeremiah Nieves, Brittany Snider, and Carol Gill

LOCATIONS: Kessler Institute for Rehabilitation (West Orange)

WHEN OFFERED: July, August, September, October

DESCRIPTION OF ELECTIVE: Objectives: (1) Learn how to evaluate and classify spinal cord injury patients according to international standards criteria. (2) Learn to determine functional potential of spinal cord injury patients. (3) Learn appropriate acute medical management and rehabilitation of spinal cord injury patients (4) Will also see patients with spasticity and be involved in management of spasticity, including injections.

Format: Students will rotate on an inpatient spinal cord injury service, following admitted patients. Students will also see chronic spinal cord injury patients during their outpatient appointments.

REPORTING INSTRUCTIONS: Approximately 1-2 weeks prior to the start of the student's rotation, PM&R department staff will provide the student with placement instructions via email.

## **REHB 9300 - NEUROMUSCULAR AND PULMONARY REHABILITATION**

DIRECTOR: Dr. John Bach

LOCATION: Doctors Office Center and University Hospital (Newark campus)

WHEN OFFERED: July, August, September, October

DESCRIPTION OF ELECTIVE: This elective is designed to introduce students to the practice of neuromuscular, musculoskeletal, and rehabilitation medicine. Under the supervision of clinical faculty, students will learn differential diagnosis of neuromuscular disease and musculoskeletal disorders and both the medical and physical medicine treatment options. They will learn cardiopulmonary, orthopaedic, nutrition and other therapeutic interventions and equipment that affect survival and quality of life as well as manage common musculoskeletal syndromes. Students will round with the preceptors in University Hospital to observe the use of noninvasive physical medicine aids in extubation and decannulation of patients with ventilator failure due to musculoskeletal conditions and perform inpatient rehabilitation consultations with the PM&R residents.

Objectives: At the conclusion of this rotation the student will:

1. Describe the differential diagnosis of the floppy newborn.
2. Describe the differential diagnosis of children and adults presenting with generalized muscle weakness.
3. Understand the pathokinesiology of limb contracture development
4. List the therapeutic options in preventing limb contractures and scoliosis.
5. Analyze strategies for prolonging ambulation despite neuromuscular weakness.
6. Describe the noninvasive physical medicine aids.
7. Explain strategies for preventing respiratory failure and invasive ventilation for patients with the following conditions: post-polio, muscular dystrophy, spinal muscular atrophy, amyotrophic lateral sclerosis.
8. Describe the important elements of rehabilitation consultation for inpatient medical/pediatric services.

Format: The student will attend and play an active role in the Muscular Dystrophy Association clinic.

REPORTING INSTRUCTIONS: Approximately 1-2 weeks prior to the start of the student's rotation, PM&R department staff will provide the student with placement instructions via email.

## **REHB 9400 - BRAIN INJURY REHABILITATION**

**DIRECTOR:** Drs. Neil Jasey, Peter Yonclas, Arline Edmond, and Jennifer Russo

**LOCATION:** University Hospital (Newark campus) and Kessler Institute for Rehabilitation (West Orange)

**WHEN OFFERED:** July, August, September, October

**DESCRIPTION OF ELECTIVE: Objectives:** Upon completion of the rotation, the student should be able to: 1) understand the rehabilitation process following brain injury; 2) demonstrate proficiency in history-taking and performing a complete physical and neurologic examination of individuals with brain injury; 3) formulate differential diagnoses and rehabilitation problem list; 4) describe diagnostic and therapeutic options for the medical, neurological, musculoskeletal, and neurobehavioral complications of brain injury; and 5) discuss the impact of brain injury on the patient, his/her family and the community.

**Format/Activities:** daily patient rounds; rehabilitation meetings; behavioral management rounds; outpatient clinic; lectures and other educational programs.

**Evaluation:** Attendance and participation in activities; clinical histories; evaluation of bedside clinical skills.

**REPORTING INSTRUCTIONS:** Approximately 1-2 weeks prior to the start of the student's rotation, PM&R department staff will provide the student with placement instructions via email.

## **REHB 9401 - REHABILITATION IN PRIVATE PRACTICE**

**DIRECTORS:** Drs. Thomas Agesen, Jay Bowen, Boqing Chen, Brett Gerstman, Robert Vrablik, and Ian Wendel

**LOCATIONS:** Physicians' offices in the northern NJ area

**WHEN OFFERED:** July, August, September, October

**DESCRIPTION OF ELECTIVE: Objectives:** Upon completion of the rotation, the student should demonstrate an ability to perform the following in caring for patients with a wide variety of rehabilitation diagnoses: 1) Perform a history and physical exam appropriate for the patient presentation, including neurological, musculoskeletal and functional assessments; 2) formulate differential diagnoses and a rehabilitation problem list; 3) discuss diagnostic and treatment options; 4) develop realistic functional goals, individualized for each patient; and 5) understand when to consult PM&R and which clinical problems benefit from a PM&R consultation.

**Format/activities:** Daily patient care involvement in an outpatient private practice setting, with potential for involvement with the practice's inpatient care as well. Students are encouraged to attend lectures with the PM&R residents for a half-day each week.

**Evaluation:** Students are evaluated on attendance, participation, enthusiasm, and clinical performance.

**REPORTING INSTRUCTIONS:** Approximately 1-2 weeks prior to the start of the student's rotation, PM&R department staff will provide the student with placement instructions via email.

## DEPARTMENT OF PSYCHIATRY

### **PSYC 9000 - SUBINTERNSHIP IN PSYCHIATRY (INPATIENT UNIT)**

DIRECTOR: Dr. Najeeb Hussain, Behavioral Health Sciences Building, Room E-1447; UH G-Yellow

LOCATION: University Hospital

WHEN OFFERED: July, August, September, October

DESCRIPTION OF ELECTIVE: The elective student will be involved as a team member on the University Hospital inpatient psychiatric unit. Students are expected to perform as an intern, therefore taking responsibility for patient care. Each student will be assigned to a team with an attending for guidance and supervision. There may also be a resident on the team.

First day reporting instructions: Students are to report to G-Yellow at 9:00 AM on the first day of their elective. Have EPIC credentials in order and wear a Rutgers ID Badge.

### **PSYC 9010 – PSYCHIATRIC EMERGENCY SERVICES**

DIRECTOR: Dr. Eric Jarmon

LOCATION: University Hospital

WHEN OFFERED: July, August, September, October

DESCRIPTION OF ELECTIVE: This elective is designed to introduce 4th year students to the practice of medicine in a tertiary care academic medical center urban Psychiatric Emergency Department and appreciate the continuum of care of Psychiatric patients. Under the supervision of clinical faculty and Resident Psychiatrists, students will function as a sub-intern and perform all non-essential parts of the evaluation, treatment and disposition. Students will work closely with and observe other team members in their interdisciplinary role. Students will assist in coordinating all aspects of care. This elective will expand student understanding of the most vulnerable patients on the health care spectrum and what legal, Medical, psychiatric, biological social, economic, political forces impact the course of a case and its outcome.

During this elective, it is expected that a student will conduct patient interviews and physical exams and present findings to clinical faculty on a daily basis. Clinical faculty will provide mid-elective feedback to the student. The student will be required to submit one case report and a one-page essay summarizing his/her experience on the elective. The essay must reference elective objectives and one other professional source.

OBJECTIVES: At the conclusion of the elective, students will be able to 1) compare and contrast the health needs and problems encountered by psychiatric patients, learn how the state system of mental health care works and understand the physician's role in the legal aspects of commitment to those patients; 2) explain cross-cultural issues in emergency psychiatric cases; 3) describe indications for consultation and referral of the most common psychiatric emergencies and the opportunities available within the community and the hospital system by understanding the continuum care from family care, to community-based outpatient care and outreach through partial and day hospital, to the inpatient continuum.

REPORTING INSTRUCTIONS: On the first day of the elective, the student should report to UH C-224, Psychiatric Emergency Services, at 09:00 a.m. The student must wear his/her white coat and bring his/her ID, stethoscope, reflex hammer and have computer access to EMR.

## **PSYC 9020 - CHILD AND ADOLESCENT PSYCHIATRY**

DIRECTOR: Dr. Najeeb Hussain

LOCATION: University Hospital

WHEN OFFERED: September and October

**DESCRIPTION OF ELECTIVE:** This elective is designed for medical students with a particular interest in child psychiatry and psychosocial aspects of comprehensive health care. This rotation provides a broad exposure to child psychiatry, including emergency and crisis evaluation and treatment and consultation to medically ill youth. The clinical consultation is augmented by inclusion of the medical student in scheduled teaching activities for the child psychiatry residents as well as clinical supervision of the medical student by the child psychiatry residents and child psychiatry faculty. In addition, residents and faculty may support the education of the student through recommendation of specific readings and videotapes, as indicated. Special interests will be discussed and accommodated, if possible and feasible. This should be discussed with the Clerkship director prior to beginning the rotation. Students are expected to see patients in University Hospital Psychiatric Emergency Services and inpatient Consultation Services for Children and Adolescents and provide an encounter note in EPIC and report to elective director so patient can be discussed with the Child Attending on duty.

**GOALS:** The goal of the medical student elective in Child and Adolescent Psychiatry is to 1) familiarize the student with what a child and adolescent psychiatrist does, 2) to teach the student about the psychosocial aspects of health care, 3) to acquaint the student with diagnosis and treatment of the emotionally and behaviorally disturbed child/adolescent, and, 4) to improve understanding of the underlying problems via the biopsychosocial model. Students will be introduced to the health disparities and social determinants of health through the lens of children and adolescents.

**OBJECTIVES:** Students will develop their skills in evaluating children/adolescents, become proficient in child psychiatric assessment and have a beginning knowledge of differential diagnosis, treatment formulation, familiarity with commonly utilized treatment modalities, and appropriate medication choice.

First day reporting instructions: Student should report to UH Psychiatric Emergency Services, Room C 224 in UH by 0900 am with white coat, Rutgers ID badge and stethoscope.

## **PSYC 9025 – ADDICTION MEDICINE (FOCUS ON OPIOID USE DISORDER AND SOCIAL DETERMINANTS OF HEALTH)**

DIRECTOR: Dr. Emily Buirke

LOCATION: The CARE Center and the UH Addiction Consultation Service; F-Level, Behavioral Health Sciences Building

WHEN OFFERED: July, August, September, October

**DESCRIPTION OF ELECTIVE:** This elective focuses on the assessment and treatment of patients with substance use disorders in both inpatient and outpatient settings. Students will split their time between the UH Addiction Consultation Service and the outpatient CARE Center (Comprehensive Addiction Resources & Education). Our Addiction Consultation Service is staffed by an addiction medicine fellow, two community coordinators, and other rotating learners. Attending coverage is provided by attendings from OB/GYN, internal medicine, emergency medicine/toxicology, and psychiatry which allows for a multidisciplinary perspective on cases. Students will join the daily workflow on the service, carry a patient caseload, and present during rounds.

Students will also rotate in our outpatient CARE Center on the F-level in the Behavioral Health Sciences Building. This is a grant-funded clinic which provides medication management and wraparound services for residents of Newark and surrounding areas who struggle with opioid use disorder and other associated substance/mental health disorders. There is a strong focus on serving patients who are experiencing homelessness and/or who have criminal justice involvement, and anyone with deficits in their social determinants of health. Students will see patients in a preceptorship model: they will reside in their own office, see patients independently, and then present to the faculty preceptor. The preceptor will then see the patient along with the student and help the student write prescriptions, schedule a follow-up appointment, and provide relevant patient education. There is a large interdisciplinary team to offer support and treatment is delivered in a team-based approach.

**OBJECTIVES:**

- 1) To develop comfort with both inpatient and outpatient evaluation and follow-up visits focused on substance use issues
- 2) To improve the ability to develop a rapport with substance-using patients and demonstrate qualities of empathy and non-judgment
- 3) To review assigned readings/lectures and participate in our addiction medicine fellowship didactic series

First day reporting instructions: Students will receive an e-mail with instructions prior to the start of the rotation. Inquiries can be directed to Sherry Williams at saw70@njms.rutgers.edu.

**PSYC 9030 - CONSULTATION-LIAISON**

**DIRECTOR:** Dr. Eric Jarmon

**LOCATION:** University Hospital

**WHEN OFFERED:** July, August, September, October

**DESCRIPTION OF ELECTIVE:** Students will perform psychiatric evaluations of medical/surgical patients as part of the Consultation/Liaison Service. Students will also make daily rounds with the resident and attending physician. There will be exposure to the legal process of competency determinations, training in evaluation of dementia, training in the impact of illness on the psyche and on coping with illness.

**REPORTING INSTRUCTIONS:** Students will report to the Consultation/liaison Service team by 09:15 am in Room G300, outside G Yellow inpatient unit UH on the first day of the elective.



## DEPARTMENT OF RADIOLOGY

### **RAD 9010 - DIAGNOSTIC RADIOLOGY**

DIRECTORS: Dr. Andrzej Jedynak

LOCATION: University Hospital

WHEN OFFERED: July, August, September, October

DESCRIPTION OF ELECTIVE: Students rotate through general radiology, neuroradiology, mammography, diagnostic ultrasound, nuclear medicine, musculoskeletal radiology, thoracic radiology, and interventional radiology. Mornings are spent in the clinical areas. There are daily teaching sessions for the medical students with the residents and faculty. Teaching sessions where the medical students present interesting cases are also incorporated. The students are expected to attend departmental conferences. The recommended text is "Learning Radiology: Recognizing the Basics" by William Herring 4th Ed., 2020) which is freely available as an e-book from the NJMS Library. The objective of the program is to provide the student with the skills necessary to analyze common radiographic studies. Emphasis is on chest, abdomen, bone and gastrointestinal studies as well as emergency radiological evaluation. For exposure to ER radiology students are encouraged to observe in the ER reading area with the assigned physician. Computed tomography, nuclear medicine, magnetic resonance, and ultrasound evaluations are essential elements in the program. A better understanding of the imaging modalities, their limitations, advantages, and costs will also emerge from the experience. Student evaluation is based upon participation in the conferences, attendance, presentation of cases, and a written and practical examination. Scores from presentations, assignments, examinations, and optional projects are added to determine the overall grade for the course. An optional project (case report, preparation of an educational exhibit or review paper on a contemporary radiology issue) can be submitted for extra credit.

### **RAD 9020 - INTERVENTIONAL AND VASCULAR RADIOLOGY**

DIRECTOR: Dr. Abhishek Kumar

LOCATION: University Hospital

WHEN OFFERED: July, August, September, October

DESCRIPTION OF ELECTIVE: An elective in interventional and vascular radiology involves the participation in pre-treatment evaluation, treatment planning and post-treatment follow-up of patients that need an interventional or vascular procedure. The student is present during film reading sessions, and observes the various special procedures that are done every day.

The student will become aware of the role of interventional radiology in clinical practice. The various types of procedures along with their indications and the advantages and disadvantages of each procedure and examination will be discussed. At the conclusion of the elective, the student will be expected to give a 15-minute presentation to the interventional radiology faculty on a topic to be determined at the start of the rotation and prepare an approximately 250 word write-up on a case that was particularly interesting to the student during that rotation.

## DEPARTMENT OF SURGERY

### **SURG 9020 - ADULT CARDIOTHORACIC SURGERY**

DIRECTOR: Dr. Huzaifa Shakir ([shakirhu@njms.rutgers.edu](mailto:shakirhu@njms.rutgers.edu))

ADDITIONAL FACULTY: Dr. Justin Sambol, Dr. Persida Drotar, Dr. Christos Stavropolous

LOCATION: University Hospital, F-4

WHEN OFFERED: July, August, September, October

DESCRIPTION OF ELECTIVE: The Adult Cardiothoracic Program includes cardiac, thoracic and esophageal surgery and will include working with the cardiac and thoracic attendings. The student will participate in Cardiothoracic conferences in which cardiac catheterization data, X-rays, angiography and other pertinent clinical data are discussed. He/she will participate in decision-making in regard to the necessity for, and types of, surgery done. Pre-operatively, the patient will be evaluated and both during the time of surgery and in the postoperative course, the student may become an essential member of the team. The goals and objectives are for the medical student to become familiar with both cardiac and thoracic diseases and types of surgical therapy offered. At times during the rotation, there will also be opportunities for research work in this field.

Required reading: Cardiac Surgery in the Adult 5<sup>th</sup> edition (Cohn, Adams), Surgery of the Chest (Sabiston and Spencer)

REPORTING INSTRUCTIONS: Students should page 973-421-0690 for reporting information. Contact phone: Marie Baptiste NP, 973 9726810

### **SURG 9050 - ACTING INTERNSHIP / UNIVERSITY HOSPITAL**

DIRECTOR: Dr. Michael Shapiro

LOCATION: University Hospital

WHEN OFFERED: August, September, October

PREREQUISITES: Medicine, General Surgery

DESCRIPTION OF ELECTIVE: The student is an active member of one of the general surgical teams. This elective is designed to teach each student the principles of clinical surgery, focused on pre-operative evaluation, selection of operations, and post-operative care. Graded responsibility in the care of surgical patients is encouraged.

REPORTING INSTRUCTIONS: Students should contact Dr. Shapiro's office (973-972-6639, [mes362@njms.rutgers.edu](mailto:mes362@njms.rutgers.edu)) the week prior to the start of the rotation to confirm the team assignment, and which Chief Resident to meet with on the Monday of the rotation, followed by MSB B-624 for registration by Ms. Deyse Ribau ([ribaudd@njms.rutgers.edu](mailto:ribaudd@njms.rutgers.edu)).

## **SURG 9181 - PLASTIC SURGERY**

DIRECTOR: Dr. Edward Lee

ADMINISTRATOR: Amy Stolar

LOCATION: Ambulatory Care Center, E-1620

WHEN OFFERED: July, August, September, October

DESCRIPTION OF ELECTIVE: The elective is designed to introduce students to the field of plastic surgery. Its emphasis is directed towards the understanding of wound healing, skin physiology, grafts and flaps, reconstructive surgery of the head and neck, extremities and chest, treatment of both acute and reconstructive hand injuries and cosmetic surgery. In addition, there will be an emphasis on microvascular surgery and its application in plastic surgery. The student will attend all plastic surgery academic conferences and will participate in ward rounds, clinic and surgery. The student will be expected to present a clinical case with discussion at plastic surgery grand rounds at the end of the rotation.

This elective is recommended for students interested in general or plastic surgery. This course is required for all applicants to a plastic surgery residency.

RECOMMENDED TEXT: Grabb and Smith, *"Plastic Surgery"* Lippincott Raven. Required reading: Chapters 1 and 2 of Grabb and Smith.

REPORTING INSTRUCTIONS: Students should contact Ms. Stolar at 973-972-5377 prior to the first day of the rotation. Monday morning conference starts at 7:00 a.m. in ACC E1635/E1620. Ms. Stolar will provide you with additional contact information for the residents and attendings on service.

## **SURG 9232 - TRAUMA TEAM ACTING INTERNSHIP**

DIRECTOR: Dr. Amy Gore

LOCATION: New Jersey Trauma Center at University Hospital

WHEN OFFERED: August, September, October

PREREQUISITE: General Surgery

DESCRIPTION OF ELECTIVE: In this elective, students will serve as members of the Trauma Team at the New Jersey State Trauma Center. The schedule, including days off, is in compliance with the 80 hour work week. They will participate in the initial assessment of trauma victims in the Emergency Room and in the subsequent pre-operative, operative and post-operative management. In addition, there are conferences, didactic lectures and daily rounds which allow for expansion of the interests of the student. There is opportunity for participation in research protocols and pursuit of research interests as well. Students will also gain exposure to EMS pre-hospital patient care activities with ground and aeromedical transports.

Evaluations will be made by Dr. Gore and the Trauma Faculty, the Trauma Fellows, and the Chief Resident, based upon presentations, observed skills, judgment and clinical performance.

REPORTING INSTRUCTIONS: Students should report to UH E-349 on Monday at 7:00 a.m. for Morning Report/Rounds, followed by MSB B-624 for registration by Ms. Deyse Ribau ([ribaudd@njms.rutgers.edu](mailto:ribaudd@njms.rutgers.edu)).

## **SURG 9233 - SURGICAL INTENSIVE CARE UNIT**

DIRECTOR: Dr. Nina Glass

ADMINISTRATOR: Rimi Dhar [rd966@njms.rutgers.edu](mailto:rd966@njms.rutgers.edu)

LOCATION: University Hospital, E Green Surgical ICU

WHEN OFFERED: August, September, October

**DESCRIPTION OF ELECTIVE:** The student will become an integral part of the team managing critically ill patients. Each student will function as a subintern and be responsible for performing history and physical exam assessments on patients each day and then presenting them during rounds (beginning with 1-2 patients and advancing as they become more comfortable with the systems-based approach to caring for critically ill patients). Teaching rounds will be made daily with the full team including students, residents, fellows, and attending staff. On rounds, discussions will focus on the pathophysiology of each of the problems presented. Students will be given selected readings in critical care and we will try to get them to present in journal club during their month on service. Students will also participate in bedside procedures with the team including insertion of central lines and arterial lines for monitoring, bedside tracheostomy and percutaneous endoscopic gastrostomy placement, as well as ventilator management, and resuscitation. They will take call with a resident team approximately every 3 days.

**REPORTING INSTRUCTIONS:** Students will get email from Ms. Dhar ahead of their start date (or can reach out if they have not) and should plan to report to UH E-349 on Monday at 7:30 a.m. for Morning Report/Rounds, followed by MSB B-624 for registration by Ms. Deyse Ribau ([ribaudd@njms.rutgers.edu](mailto:ribaudd@njms.rutgers.edu)). We will also do a brief orientation and debrief with the course director during the first and last weeks respectively.

## **SURG 9253 - UROLOGY - ACTING INTERNSHIP**

DIRECTOR: Dr. Robert Weiss  
[weissre@cinj.rutgers.edu](mailto:weissre@cinj.rutgers.edu)

ADMINISTRATOR: Shaniqua Mitchell, [mitches1@njms.rutgers.edu](mailto:mitches1@njms.rutgers.edu)

LOCATION: University Hospital

WHEN OFFERED: August, September, October

**DESCRIPTION OF ELECTIVE:** Students participating in this elective officiate as acting interns under the supervision of the chief of urology. They work closely with the urology residents and eight to ten urology attendings. Students are exposed clinically to all patients on the urology service.

**REPORTING INSTRUCTIONS:** Students should report to ACC G-1680, at 8:30 a.m. for location assignment. Phone number: (973) 972-4418 (ask for Shaniqua).

This elective is not open to international visiting medical students.

## **SURG 9266 – ACTING INTERNSHIP IN VASCULAR AND ENDOVASCULAR SURGERY**

COURSE DIRECTOR: Joe Huang, MD  
Associate Professor of Surgery  
Division of Vascular Surgery  
Rutgers – New Jersey Medical School  
Phone: 973-972-6295  
Email: [joe.huang.md@njms.rutgers.edu](mailto:joe.huang.md@njms.rutgers.edu)

Coordinator: Tina Surrency-Scioscia  
Phone: 973-972-6295  
Email: [tbs40@njms.rutgers.edu](mailto:tbs40@njms.rutgers.edu)

LOCATION: University Hospital, Newark, NJ

WHEN OFFERED: September and October

DESCRIPTION OF ELECTIVE: Students interested in surgery or vascular surgery will work with attendings, vascular fellows, and residents, while functioning as a sub-intern on the University Hospital Vascular Surgery Service.

The student will be exposed to the field of vascular and endovascular surgery by learning about the pathophysiology and management of peripheral arterial and venous diseases. Pathologies encountered will include aortic aneurysms, carotid occlusive disease, lower extremity arterial disease, venous disease, and dialysis access needs. By following pre- and post-op patients, evaluating consults, and seeing patients in the office, the student will become familiar with the evaluation and diagnostic testing modalities for these conditions. Through office procedures, endovascular suite interventions, and operating room cases, the student will learn about the medical, endovascular, and open methods of treat these patients.

Students will also attend weekly pre-operative conferences, monthly journal clubs, and monthly morbidity & mortality conferences.

REPORTING INSTRUCTIONS: Prior to the start of the elective, students should contact the Division of Vascular Surgery Coordinator to find out where to report.