

**EDITAL DE SELEÇÃO PARA ESTÁGIO OPCIONAL INTERNACIONAL GEORGE
WASHINGTON UNIVERSITY - EUA**

A Diretora da Faculdade de Medicina da UFMG, Professora Alamanda Kfoury Pereira, no uso de suas atribuições regimentais e estatutárias, faz saber que, no período de **22/01/2024** a **21/02/2024**, o Centro de Relações Internacionais (Crinter) estará recebendo inscrições para seleção de 02 (dois) estudantes para realizar **ESTÁGIO OPCIONAL OBRIGATÓRIO** na George Washington University (GWU), localizada em Washington DC, EUA.

A seleção, a ser celebrada por este edital, é válida para o próximo semestre letivo, a saber, 2024/2. Poderão concorrer estudantes que, **na data do estágio, estiverem no último ano do curso de Medicina da UFMG (6º ano) e que ainda não tenham cursado a disciplina de ESTÁGIO OPCIONAL**. Os interessados devem estar disponíveis para viajar e **custear as despesas do intercâmbio**. Os candidatos selecionados deverão atuar no hospital universitário da GWU, em alguma das áreas listadas a seguir: Medicina e subespecialidades, Pediatria e subespecialidades, Anestesiologia, Medicina de Emergência, Neurociência Clínica; Urologia, Radiologia, Oftalmologia, Obstetrícia e Ginecologia, Cirurgia e especialidades cirúrgicas, a depender da oferta feita pela GWU à época (verificar anexo 1).

Para se inscrever, o aluno deverá enviar os seguintes documentos para o endereço de e-mail crinter@medicina.ufmg.br com o título **INSCRIÇÃO GWU 2024**:

1. Carteira de Identidade com CPF e número de telefone para contato;
2. Cópia do Passaporte – que esteja válido;
3. Número de matrícula (no corpo do e-mail de inscrição) para que acessemos o Histórico Acadêmico via SIGA com NSG e notas de todas as disciplinas, atualizado até 2023/2.
4. Currículo Lattes em PDF;
5. Carta de Motivação em PDF;

6. Comprovante de proficiência em Língua Inglesa em PDF ou JPEG – certificados de exames de proficiência reconhecidos (TOEFL, TOEIC, CAE, outros) ou certificado do Curso de Inglês do estudante;
7. Todos os documentos acima listados devem conter o nome do aluno para identificação junto ao nome do documento, exemplo: Histórico_acadêmico_NomedoAluno.

Alunos que não cumprirem todos os requisitos acima citados serão automaticamente eliminados. **Alunos que não possuírem a totalidade das notas lançadas do último semestre acadêmico, devem colocar essa observação no corpo do e-mail de inscrição do processo**, desta forma, a média do NSG será considerada até o último semestre com notas totalmente lançadas.

O exame de seleção compreenderá duas etapas:

1ª Etapa eliminatória e classificatória: Análise do Histórico Acadêmico - valor 70 pontos; elaboração da carta de motivação – valor 25 pontos; Organização dos documentos enviados – 5 pontos. A carta deverá ser redigida com o limite de apenas 01 (uma) lauda, enviada em PDF, fonte 12, espaço 1,5, em estilo formal e deverá ser devidamente identificada e assinada pelo candidato.

Serão selecionados nessa etapa até 04 (quatro) estudantes, que tenham entregado a documentação completa e classificados em ordem decrescente da somatória das notas do histórico, carta de motivação e pontos de organização, sendo 60 pontos a nota mínima para classificação nesta etapa. A comprovação da proficiência em Língua Inglesa é critério eliminatório, mas não contabiliza pontuação classificatória. Em caso de empate, o critério de desempate será a performance do aluno na etapa de entrevista. O resultado desta etapa será divulgado até às 16h do dia **27/02/2024** por e-mail para todos aqueles que se inscreveram e no lado externo da sala do Crinter.

2ª Etapa Classificatória: Análise do Currículo Lattes - valor 30 pontos; entrevista com o professor coordenador do Crinter e/ou professor selecionado para realização desta etapa: valor 70 pontos.

A não confirmação da entrevista por e-mail em prazo de 24 horas após o envio do comunicado para a segunda etapa, será considerado desistência. Data da entrevista: 01/03, de 9h às 12h. Os horários serão agendados por ordem classificatória.

A atribuição da nota final será auferida pela média das notas da 1ª e da 2ª etapa. Serão aprovados os alunos com pontuação superior a 60 pontos na nota final. A validade da seleção será de 07 (sete) dias a contar da data de divulgação dos resultados. A não manifestação do aluno confirmando o interesse em realizar o intercâmbio neste prazo será considerado desistência.

Não estão previstas a concessão de bolsas ou quaisquer auxílios por parte da UFMG aos aprovados, estes devem arcar com as responsabilidades financeiras da viagem (emissão de documentos, moradia, alimentação, seguro-viagem, etc). No entanto, os alunos selecionados por meio deste edital estarão isentos das taxas de pagamento do curso escolhido (tuition).

O resultado final será oportunamente divulgado na porta do Crinter até **08/03/2024** e será enviado para os candidatos participantes da última etapa por e-mail. O início das atividades está previsto para 21/10/2024 e término em 15/12/2024 (a depender da rotação escolhida).

Para o preenchimento da vaga, o candidato deverá apresentar até dia **27/03**, impreterivelmente, a documentação listada abaixo ao Crinter/GWU:

1. Curriculum Vitae - versão em inglês
2. Declaração Pessoal em inglês – Descrevendo suas metas e objetivos para sua rotação na GWU, bem como seus objetivos de carreira de longo prazo
3. Histórico escolar – versão em inglês
4. Duas cartas de recomendação de membros do corpo docente – o aluno deve solicitar à professores do corpo docente da UFMG.
5. Carta de Regularidade – fornecida pelo Crinter
6. Formulário de Verificação do Aluno – fornecido pelo Crinter e preenchido pelo aluno

7. Passaporte e Visto Americano

8. Contrato de Estudante ICEP assinado – fornecido pelo Crinter e preenchido pelo aluno

Os alunos que, aprovados, desistirem da seleção, cederão automaticamente sua vaga para o próximo candidato excedente, obedecendo à ordem de aprovados divulgada. Caso esteja impossibilitado, por quaisquer razões, de participar do estágio no período estipulado, o aluno deverá comunicar ao Crinter e sua seleção será cancelada, sendo de direito que a vaga passe para o próximo excedente na lista de aprovados.

Será exigido dos candidatos selecionados para o estágio um relatório ao fim do período do intercâmbio, com temática a ser definida após o processo de entrevista e depoimento escrito sobre a experiência com foto para ser colocada no site do Crinter.

Situações não previstas neste Edital serão dirimidas pela Comissão Avaliadora.

Belo Horizonte, 18 de janeiro de 2024.

Professora Alamanda Kfoury Pereira
Diretora da Faculdade de Medicina da UFMG

ANEXO 01

Clinical Electives Available for International Medical Students
Academic Year 2023-2024

ATENÇÃO: ALGUMAS ESPECIALIDADE NÃO ESTÃO DISPOÍVEIS DURANTE TODO O ANO. FICAR ATENTO À ESCOLHA EM RELAÇÃO AO PERÍODO DO ANO EM QUE O INTERCÂMBIO OCORRERÁ.

Department of Dermatology

DERM 380: Dermatology Clinic

Course Director: Adam Friedman, MD

Conferences, lectures, and attendance at dermatology clinic where patients with wide variety of dermatoses are seen: diagnosis and treatment of common and rare skin disorders, dermatologic surgery procedures, technique for using liquid nitrogen, culture and identification of fungi, and microscopic diagnosis of common cutaneous diseases.

Important Notes:

1-Part of the elective will be spent with the Pediatric Dermatology Division of Children's National Medical Center, located at 2021 K Street NW, Washington, DC, 20006.

2-Available by request only

Emergency Medicine

EMED 302: Emergency Medicine

Course Director: Amy Caggiula, MD

Students will work approximately 14 clinical shifts (day, evening, and night shifts) at GW Emergency Department and the Veterans Administration Medical Center (VAMC) Emergency Department in Washington, DC. Both are high-acuity and high-volume departments. Students function at an acting intern level with responsibility for patient care under the direct supervision of the faculty and residents of the department. This course offers a wound care lab, simulation sessions, regularly scheduled student lectures, required readings, and grand rounds.

Important Notes:

Students must attend GW and Veterans Administration Medical Center (VAMC) orientation during the first two days of the rotation to complete any clinical shifts. The

1-VAMC is located at 50 Irving St NW, Washington, DC 20422. Both sites are accessible by metro, but students may have to arrive or leave the hospital at a time when the metro is not running and, in that case, are encouraged to use a ride-share app or carpool with other students in the Emergency Medicine rotation.

2-The final clinical shifts occur on the final Sunday of the rotation.

3-Not available in March, June, or July

Department of Medicine

MED 351: Infectious Diseases

Course Director, Afsoon Roberts, MD

The focus of the elective experience is on the diagnosis and management of patients with infectious disease problems. This includes the evaluation of patients on medical and surgical services. Clinically relevant aspects of microbiology and immunology are also explored.

Academic activities include a joint case conference with the Veterans Administration Medical Center (VAMC), which is held twice during the month. . The VAMC is located at 50 Irving St NW, Washington, DC 20422. Other conferences include surgical pathology, clinical microbiology, and the monthly Washington ID Society conference. Basic lectures by the fellows and faculty on major infectious disease problems, clinical microbiology, and antimicrobial chemotherapy.

Important Notes:

1-Infectious Disease is an incredibly busy service. Students on this rotation should be comfortable in a fast-paced environment and have excellent English comprehension and speaking skills.

2-Not available in June or July

MED 352: Clinical Cardiology

Course Director: Marco Mercader, MD

General cardiology elective with two weeks on various cardiology services and 2 weeks on the coronary care team. Exposure to outpatient clinics, pacemakers, and invasive and non-invasive laboratories.

Important Notes:

1-Students should come with their own stethoscope

2-Not available in March, June, or July

MED 372: Endocrinology and Diabetes

Course Director: Rohit Jain, MD

Clinical experience in endocrinology and metabolism with an emphasis on outpatient care and longitudinal follow-up. Students examine patients and participate in the diagnosis and planning of therapy, daily rounds, weekly diabetic pregnancy clinic, didactic lectures, case discussions, journal clubs, and conferences.

Important Notes:

Not available in March, June, or July

MED 413: Clinical Gastroenterology/Hematology at GW

Course Director: Marie Borum, MD, EdD, MPH

Clinical experience with patients who have gastrointestinal, hepatobiliary, and nutritional disorders in the ambulatory care and hospital setting. Students will participate in patient consultations, teaching rounds, and seminars. Conferences with surgery, pathology, and radiology emphasize the multidisciplinary approach to digestive diseases.

Important Notes:

Not available in March, June, or July

MED 431: Clinical Hematology and Oncology

Course Director: Robert Siegel, MD

Immersion in the process of diagnosis and therapy of hematologic and oncologic disorders, including inpatient and outpatient consultations, daily care and follow-up of clinical hematologic and oncologic problems. Emphasis on blood and marrow morphology, tumor pathobiology, modern hematologic-oncologic diagnostic procedures, and treatment of blood diseases and cancer, including bone marrow transplantation.

Important Notes:

Students should bring their own stethoscope and are expected to wear a short white coat

Not available in March, June, or July

*MED 447: Pulmonary
Medicine*

Course Director: Jalil

Ahari, MD

Participation in the evaluation and treatment of patients with pulmonary disorders. Outpatient pulmonary and sleep medicine clinics, inpatient consultation rounds, observation of pulmonary “blue team” rounds. Participation in all pulmonary

conferences. Emphasis is on acquainting the student with the recognition, diagnosis (including diagnostic procedures), and management of common lung disorders. Chest roentgenology and evidence-based approach to management will be stressed.

Important Notes:

Not available in March, June, or July

MED 451: Rheumatology

Course Director: Nadine N. Mbuyi, MD

Inpatient service involves students on the inpatient consult service at GW Hospital and presenting their patients to the attending on-call during rounds. In outpatient clinics, students attend and see patients with the attending physician on call at the GW MFA Division of Rheumatology clinic. Students are expected to see outpatients and present these cases to attending physicians in the clinic. Medical students are expected to attend all rheumatology conferences (including didactic sessions, journal club, and case conferences).

Course learning objectives:

- 1-Practice taking a basic history for the adult patient presenting with a musculoskeletal complaint.
- 2-Perform a basic musculoskeletal examination.
- 3-Recognize exposure to a broad range of rheumatic diseases including systemic connective tissue diseases, vasculitis, seronegative spondyloarthropathies, crystalline arthropathies, bone and cartilage disorders, and non-articular and regional musculoskeletal disorders.

Suggested educational activities:

- 1-Rheumatology image library:
<https://www.rheumatology.org/Learning-Center/Rheumatology-Image-Library>
- 2-Rheum2Learn educational modules on lupus, rheumatoid arthritis, crystalline diseases, and seronegative spondyloarthropathies, osteoporosis, and systemic vasculitis:
<https://learn.rheumatology.org/totara/dashboard/index.php>

Important Notes:

- 1-Students will be at both the GW MFA Division of Rheumatology Clinic at 2300 M Street NW, 9th floor, and GWU Hospital at 900 23rd Street NW, Washington, DC.
- 2-Not available in March, June, or July

MED 461: Clinical Renal Disease

Course Director: Susie Lew, MD

Students will participate in the clinical evaluation and management of patients with renal disease in both an inpatient and outpatient setting. The students will see both new and follow-up patients on the inpatient renal consult service and make rounds with the consult team. Students will learn

to perform a urinalysis and microscopy. Students will be expected to attend a weekly renal outpatient clinic and all renal conferences. Students will also be expected to give brief topical presentations during rounds as assigned by the attending physician.

Resources to read and learn from during this elective:

Renal Pathophysiology: The Essentials, Helmut Rennke and Bradley Denker, 5th edition (available in GW SMHS Himmelfarb Health Sciences Library)

Nephrology in 30 Days (there is a copy in the GWUH dialysis unit - very digestible and easy to read for students)

Important Notes:

Not available in March, June, or July

Department of Neurology

NEUR 381: Special Topics in Neurology

Course Director: Alexandra Eid, MD

This course provides students with an opportunity to study specific subspecialty topics within neurology. Students may elect to focus on areas such as (but not limited to) epilepsy, neurophysiology, movement disorders, neuromuscular disorders, pediatric neurology, headache, stroke, neuromuscular disorders, or neuroscience research.

Learning Objectives:

Identify important neurologic deficits, symptom complexes, and disorders in the subspecialty area of choice.

Use biomedical information resources and evidence-based medicine.

Demonstrate the ability to care for patients with neurological deficits in the subspecialty area of choice.

Important Notes:

Available by request only

NEUR 397: Introduction to Physical Medicine and Rehabilitation

Course Director: Megha Mandalaywala, DO

This elective course is designed to introduce the medical student to Physical Medicine

Rehabilitation (PM&R) also known as Physiatry. The role of a PM&R physician or Physiatrist is to utilize evidence-based medicine to assist those with acute and chronic functional impairment to maximize recovery and independence. Physiatrists lead a multidisciplinary group to achieve the patient's goals of recovery, maximal functional improvement, and independence in the community.

The student will have exposure to patients on the hospital ward as well as the outpatient clinics. Didactic sessions and clinical guidance will be utilized to give the student an understanding of the basics of physiatry while concentrating on the multi-system exam that underlies an individual's function.

Learning Objectives:

- Recognize the functional, medical, psychological, and social aspects of persons with acute and chronic physical and cognitive impairment including the impact on family/support and healthcare system.
- Perform with the musculoskeletal and neurological examinations.
- Describe the roles of the members of the rehabilitation team.
- Describe the specific collaborative roles the physiatrist holds in the healthcare continuum and future role in population health.
- Explain the approach a physiatrist takes to improve a patient's health, function, and quality of life.

Important Notes:

Applicants for this elective must have already completed a neurology or PM&R (physical medicine and rehabilitation) elective at their home institution. A letter of support from the home institution neurology or PM&R course director or teaching faculty would also be required.

Available by request only

Locations include all listed below within the same zip code, 20037, in Washington, DC:

- Acute Rehabilitation Unit (ARU) at the George Washington University Hospital at 900 23rd Street NW, 4th Floor
- Outpatient Clinic at the GW MFA at 2150 Pennsylvania Avenue NW, 7th Floor
- Orthopedics Clinic at 2300 M Street, 5th Floor
- Ambulatory Surgical Center (ASC) at 2120 L Street, Basement Level

Department of Neurosurgery

NSUR 380: Clinical Neurosurgery

Course Director: Dimitri Sigounas, MD

The student will participate in all aspects of neurosurgical care, including inpatient rounds, surgical care, outpatient clinic, and inpatient consults. There will be special emphasis on the neurological exam and understanding indications for surgery. The

student will be expected to take call.

Important Notes:

- 1-The student will spend two or three weeks on the adult neurosurgery service at GWU Hospital, and one or two weeks (at the student's discretion) on the pediatric neurosurgery service at Children's National Medical Center.
- 2-Not available in March, June, or July

Department of Obstetrics and Gynecology

OB&G 375: Female Pelvic Medicine and Reconstructive Surgery

Course Director: Charelle Carter-Brooks, MD, MSc

The purpose of this course is to introduce medical students to Female Pelvic Medicine and Reconstructive Surgery, a subspecialty of Obstetrics and Gynecology that involves the management of complex pelvic floor disorders. This course will introduce students to complex pelvic floor disorders like urinary incontinence, pelvic organ prolapse, and pelvic pain. There will be exposure and hands-on experience in medical and surgical management. Students will spend time in the office and operating room, participate in rounds, and work on a team with residents.

Common procedures in the office include speculum exams, cystoscopy, bladder instillations, urodynamics, pessary placement and care, and botox injections. In the operating room, students may be exposed to hysterectomy (vaginal, laparoscopic, and robotic), sacrocolpopexy, colpopoiesis, anterior repair, posterior repair, mid-urethral sling, and sacral neuromodulation.

Students should be prepared to be hands-on, having practiced speculum exams, bimanual exams, uterine manipulation, skin suturing, and knot tying.

Course Learning Objectives:

- Demonstrate the ability to obtain a complete history and perform physical examination of patients dealing with pelvic floor disorders
- Demonstrate knowledge of the evaluation and management of patients with pelvic floor disorders
- Discuss the indications and general principles guiding the use of pharmacologic treatment for pelvic floor disorders.
- Interpret clinical findings and results to present on clinic and inpatient rounds.

Students are expected to:

- Attend gynecology resident rounds
- Round on patients who are admitted after surgery if they were a part of the case and sign-out updates.
- Prepare for surgery (review the charts and procedure before the surgery, watch videos on Surgery U)
- Prepare for the clinic (review the charts before clinic)
- Student is expected to see patients, come up with a differential diagnosis,

A&P, and document the note

Attend all Error Reduction Conferences, grand rounds, and resident school with the OB/GYN Department.

Prepare a 20-minute presentation on an FPMRS topic of their choosing to be given during the last week of the rotation.

Important Notes:

Not available in March, June, or July

OB&G 381: Perinatal (Maternal-Fetal) Medicine

Course Director: Susanne Bathgate, MD

This course is designed for the medical student to participate in preconception, antepartum, intrapartum, and postpartum care of women with complicated pregnancies and/or risk factors for developing complicated pregnancies. This rotation includes exposure to prenatal

ultrasound, prenatal diagnosis, and genetic counseling. The student will work with residents and faculty in Maternal Fetal Medicine at GWU Hospital and the MFA outpatient clinic.

Students will be expected to prepare a brief topic presentation and paper at the conclusion of the rotation.

Important Notes:

1-Student shifts start at 6:30 am each day

2-Not available in March, June, or July

OB&G 385: Gynecologic Oncology

Course Director: Nicole Chappell, MD

The goal of this rotation is to provide exposure to both inpatient and outpatient management of patients with gynecologic cancer and pre-malignant conditions. The experiences gained in this elective are intended to broaden the student's knowledge of gynecology and oncology and encourage independent and critical thinking. Students choosing this elective will be participating in aspects of inpatient and outpatient care that emphasize problem-solving, efficiency, clinical judgment, and the independent development of patient assessments and plans.

Important Notes:

Not available in March, June, or July

OB&G 386: Minimally Invasive Gynecology Surgery

Course Director: Ying Liu, MD

This course will expose 4th-year medical students to the full array of complex minimally invasive gynecologic surgery including laparoscopic, hysteroscopic, robotic, and single-site approaches. Typical case volume is 20-30 cases. In addition to the surgical exposure students play an integral role in the busy consultative clinic and will be exposed to office procedures including flexible and rigid hysteroscopy, tubal sterilization, endometrial ablation, colposcopy, LEEP, and transvaginal sonography. Students will attend weekly Grand Rounds and Gynecology conferences and will take part in the MIS journal club.

Important Notes:

Student shifts begin at 6:30 am each day

Not offered in March, June, July, or November

Department of Ophthalmology

OPHT 381: Clinical Ophthalmology

Course Director: Mehdi Tavakoli Dastjerdi, MD

The rotation consists of observation and participation in the examination, diagnosis, and management of a wide variety of ocular conditions in ambulatory patients. There is the opportunity to observe both in the clinic and in the operating rooms. All subspecialties of ophthalmology are available and students are rotated through the department to enhance the overall exposure to ophthalmology. If interested a portion of the elective can be arranged at Children's National Health System with the pediatric ophthalmology faculty. Emphasis is placed on conducting a general ophthalmic examination with recognition of abnormal findings and management of common ocular diseases.

Important Notes:

Available by request only

Department of Orthopaedic Surgery

ORTH 303: Ambulatory Orthopaedics

Course Director: Teresa Doerre, MD

Musculoskeletal conditions account for a majority of conditions seen in everyday medical practice. After the common cold, musculoskeletal conditions are perhaps the most common condition seen at a primary care physician's office. This elective is designed for the student who may not be interested in pursuing orthopaedic surgery as a career but is interested in obtaining a good understanding of musculoskeletal conditions. The student will spend time in an orthopaedic clinic setting accompanying orthopaedic surgeons. The student will initially observe and subsequently participate in the physical examination of patients with musculoskeletal conditions. Students will be part of the discussion of treatment options with patients and will observe the process of decision-making and informed consent required before surgery. Students will learn to recognize

simple imaging modalities and findings, commonly used as an adjunct in orthopaedic diagnoses.

Learning Objectives:

- Recognize the presentation of common musculoskeletal conditions
- Perform the basic examination of the extremities and spine for musculoskeletal conditions
- Describe basic treatment protocols for common musculoskeletal conditions

Important Notes:

- Available November to June by request

ORTH 380: Orthopaedic Sub-Internship

Course Director: Teresa Doerre, MD

Musculoskeletal conditions account for a majority of conditions seen in everyday medical practice. This elective is designed for the student who is interested in an introduction to orthopaedic surgery, and is considering the field as a career choice. The student will spend time with two selected orthopaedic preceptors in clinic and surgery, obtaining a comprehensive approach to the physicians' approach to orthopaedic conditions, surgical interventions, and observation of postoperative patients. Increasing responsibility will be offered to the student, based on their abilities and participation. Students will be part of the discussion of treatment options with patients and will observe the process of decision-making and informed consent required before surgery.

Learning Objectives:

- Demonstrate the ability to explain the presentation of orthopaedic injuries and musculoskeletal diseases and the differential diagnosis of the presentation.
- Perform the evaluation and work-up of orthopaedic problems as primary and consultant services.
- Illustrate the indications for operative management and participate in operative procedures.
- Demonstrate the ability to describe the non-operative and operative management of orthopaedic injuries/conditions.
- Practice the initial management of orthopaedic injuries including casting/splinting.
- Perform basic surgical skills.
- Practice the role of an intern on the orthopaedic team.
- Apply the medical literature to clinical practice.

Students are expected to:

- Take call 5-8 times during their four-week block
- Attend all education meetings of the department

Develop a brief presentation towards the end of their rotation

Important Notes:

Available by request only

ORTH 385: Sports Medicine

Course Director: Teresa Doerre, MD , and Zach Zimmer, MD

Sports Medicine is an integrative sub-specialty that combines Orthopaedics, Primary Care, and Physical Medicine and Rehabilitation. The Sports Medicine elective introduces medical students to the different specialties within the field and teaches them the management of sports

injuries. The students will work side by side with sports medicine specialists and team physicians in the out-patient clinic, operating room, concussion clinic, and on the field to understand the evaluation, diagnosis, and treatment of conditions ranging from acute trauma to chronic overuse injuries. Students will become familiar with pre-participation screening, concussion assessment, and the management of injuries in competitive and recreational athletes.

Students will work with orthopaedic, PM&R and neuropsychiatry faculty in the clinical setting to gain exposure to the evaluation, diagnosis and treatment of sports injuries and concussions. They will observe surgical management of injuries with orthopaedic faculty, and see operative patients for follow up after treatment to understand the recovery and rehabilitation associated with these injuries. Students will participate in seasonal sports coverage to develop an understanding of the role of a team physician.

Learning Objectives:

- Discuss the components of the pre-participation history and physical examination
- Perform a concussion screening
- Describe common musculoskeletal conditions that affect the competitive athlete.
- Interpret patient follow-up evaluation for return to play following injury or illness.
- Analyze the role that Sports Medicine physicians play in the functioning of the athletic community with other healthcare professionals.

Important Notes:

Student activities at different locations throughout Foggy Bottom campus:

- George Washington University Hospital at 900 23rd Street NW
- Orthopedic Clinic and Non-Operative Sports Medicine Clinic at 2300 M Street, 5th floor
- Concussion Clinic at 2150 Pennsylvania Ave NW

Offered November to April by request only

Department of Pathology

PATH 296: Surgical Pathology

Course Director: Sun A Kim, MD, MS, PhD

The surgical pathology (PATH 296) elective is a mini-residency in which the medical student, under supervision, participates in all activities conducted by pathology residents. The medical student will be supervised by residents and faculty on service. Activities include, but are not limited to case sign-out of biopsies, case conferences at multi-headed scope, microscopic evaluation of surgical pathology specimens, histologic diagnosis and differential diagnosis considerations of specimens, frozen section evaluations, observing grossing of surgical specimens, formulation of microscopic reports, and attendance at intra-operative consultations. Students will interact one-on-one with surgical pathology attendings.

Learning Objectives:

Identify through wide exposure the clinical role of surgical pathologists in patient care.

Recognize the procedures in surgical pathology (i.e. the gross description, dissection, and sectioning of specimens, including frozen sections, and being assigned selected cases to sign out with attendings).

Identify the steps involved in the processing of tissue submitted for histopathologic examination (i.e. from tissue block to stained slide).

Practice interpreting the histopathology of surgical pathology and autopsy cases.

Practice interpreting cytology specimens.

Recognize the rudiments of the diagnostic process in surgical pathology through constant visual exposure to gross pathologic material and histologic slides.

Important Notes:

1-Student activities at both the George Washington University Hospital and GW Medical Faculty Associates location at 2300 M Street NW

2-Not offered in March, June, or July

PATH 298: Autopsy Pathology

Course Director: Elham Arbzadeh, MD

The autopsy pathology elective rotation is designed for the student, under supervision, to participate in all autopsies that are done during the month of service at GWUH. The student will also have the opportunity to spend 1-2 days at the Medical Examiner's office for an exposure to the forensic autopsy.

Learning Objectives:

Describe the procedure and technique of performing an autopsy, including methods of dissection, documentation of findings, clinical-pathological correlation, and preparation of a report with the cause of death statement.

Use the autopsy as a means of increasing overall knowledge of medicine and pathology.

Recognize the role of the autopsy in medical education and quality assurance.

Students are expected to:

Prepare a relevant summary of the clinical history and pertinent laboratory tests

Participate in the autopsy procedure and preparation of a written preliminary and final written report of gross and microscopic pathology findings and their interpretations, including cause of death statement.

The student will make a formal presentation of a case with a brief review of literature pertinent to the case at a departmental conference.

The student will also prepare a brief written report/update on an issue of practical concern for autopsy practice (for example, management of TB cases at autopsy).

Important Notes:

Student activities at both the George Washington University Hospital and GW Medical Faculty Associates location at 2300 M Street NW

Not offered in March, June, or July

PATH 321: Clinical Pathology/Laboratory Medicine

Course Director: Tapan Bhavsar, MD

The clinical pathology/laboratory medicine elective is a mini-residency in which the medical student, under supervision, participates in all activities conducted by pathology residents. This elective will expose students to the field of clinical pathology and laboratory medicine at GWUH. The medical student will rotate through Blood Bank, Clinical Chemistry, Hematology and Flow Cytometry, Lab Administration (if applicable), Microbiology and Immunology, and Molecular Diagnostic sections. The course emphasizes basic principles of laboratory technology applied to the diagnosis and management of clinical disorders, with a special focus on the appropriate interpretation of laboratory data. The medical student will be supervised by the residents and faculty on service.

Learning Objectives:

Identify through wide exposure the clinical role of clinical pathologists and how they contribute to patient care.

Recognize the principles, practice, and interpretations of the various tests such as cross-matching/blood typing/antibody identification in the blood bank, serum/urine electrophoresis in clinical chemistry, staining/culture and interpretation in microbiology and immunology, and the basic principles and interpretation of molecular diagnostic technology.

Develop the skills needed to interpret and formulate a differential diagnosis of the more commonly occurring disorders seen in peripheral blood, lymph nodes, and bone marrow in hematology and hematopathology

Important notes:

Student activities at both the George Washington University Hospital and GW

MedicalFaculty Associates location at 2300 M Street NW
Not offered in March, June, or July

Department of Radiology

RAD 381: Vascular Interventional Radiology

Course Director: Daniel Scher, MD

A subspecialty radiology elective focusing on vascular and interventional radiology. The goals are to orient the student to the vascular and interventional radiology section and to become familiar with the full variety of special procedures which are performed by this section. The student will take an active role in working up the patients, performing and following patients post-procedure.

Important notes:

Not offered in March, June, or July

RAD 383: Clinical Radiology

Course Director: Ramin Javan, MD

Students will be assigned to rotate and observe various sections in the University Hospital's Department of Radiology. The department considers this a basic course in radiology and urges students to use this for their introductory clinical radiology course. Additional faculty include the full departmental faculty.

Important notes:

Not offered in March, June, or July

RAD 386: Radiation Oncology

Course Director: Sharad Goyal, MD

The goal of this clinical rotation is for medical students to learn the fundamentals of radiation oncology. Students can use this rotation as an opportunity to explore the specialty as a possible career choice. Students interested in gaining a deeper understanding of oncology care but not planning to pursue radiation oncology will find this course useful to understand radiation oncology as a specialty and therefore better be able to coordinate and deliver optimal multi-disciplinary care and counsel

During the rotation, students work with attending physicians who specialize in treatment of a variety of disease sites. Students actively participate in the work-up, evaluation, and development of radiation treatment recommendations for patients seen in consultation for both curative and palliative intent. Students will learn basics of obtaining informed consent for radiation and participate in end-of-life or goals of care discussions. Students will participate in patient simulations, treatment planning and dosimetry, and radiation treatments. Students are also encouraged to participate in weekly departmental chart rounds, morning reports, procedures (brachytherapy or radiosurgery), and multi-

disciplinary tumor boards.

Learning Objectives:

Describe the appropriate indications and use of radiation therapy in the curative setting for the common cancer types

Recognize the central role that radiation therapy plays in the multidisciplinary management of cancer and the basic biological principles that underlie its use

Recognize the basic biological principles that underlie the use of radiation therapy in the management of cancer

Illustrate how basic anatomy and knowledge of cancer spread influences the delivery of radiation therapy

Describe the basics of simulation, treatment planning and treatment delivery

Recognize the early and late sequelae of radiation therapy

Important notes:

Not offered in March, June, or July

RAD 404: GI/GU Radiology

Course Director: Ramin Javan, MD

A one-month course focusing on aspects of gastro-intestinal and genito-urinary radiology. This is subspecialty training in radiological diagnosis to prepare students interested in a career path involving the aforementioned areas. Students will rotate in GI, ultrasound, CT and interventional.

Important notes:

Offered October through April, excluding March

RAD 405: Acute/ER Radiology

Course Director: Ramin Javan, MD

A full month in radiology with special dedication to the aspects of Acute Radiology. This subspecialty training in radiological diagnosis will prepare students for a career path involving the aforementioned areas. Students will rotate in Chest, CT, Bone and Neuro Radiology

Important notes:

Offered October through April, excluding March

RAD 406: Trauma/Bone Radiology

Course Director: Ramin

Javan, MD

A full month in radiology with special dedication to the aspects of Trauma/Bone Radiology. This subspecialty training in radiological diagnosis will prepare students for a career path involving the aforementioned areas. Students will rotate in Bone, Spine and Neuro Radiology

Important notes:

Offered October through April, excluding March

RAD 407: Women's Imaging

Course Director: Ramin Javan, MD

A full month in radiology with special dedication to the aspects of Women's Health Radiology. This subspecialty training in radiological diagnosis will prepare students for a career path involving the aforementioned areas. Students will rotate in Ultrasound, Mammography and Chest Radiology.

Important notes:

Offered October through April, excluding March

Department of Surgery

SURG 353: Otolaryngology/Head and Neck Surgery

Course Director: Punam Thakkar, MD

Students will participate in the work-up and care of outpatients and inpatients. Students will participate in surgery and ER consultations. Night call and weekend call are voluntary but is mandatory for students entering otolaryngology as a career

Important Notes:

Available October through April, excluding March

SURG 382: Transplant and Hepatobiliary Surgery "DePalma Team"

Course Director: Juliet Lee, MD

The hepatobiliary surgery and transplant surgery elective involves active participation in inpatient and outpatient care. Students are assigned to Team DePalma with emphasis hepatobiliary diseases and transplant surgery. Students are expected to participate in multi-disciplinary transplant rounds, attend educational seminar series, trauma simulations, and journal clubs.

Important Notes:

While the different surgical "teams" will have faculty members who will provide direct supervision and evaluation of the students, Dr. Lee will conduct overall supervision of the progress of the students.

Students will be required to take in-house call, approximately 4-5 calls in 1 month.
Available October through April, excluding March

SURG 383: Thoracic, Minimally Invasive, and Foregut “Blades Team”

Course Director: Juliet Lee, MD

The thoracic, minimally invasive surgery, and foregut surgery elective focuses on inpatient care, and students will spend significant time in the operating room, ICU and surgical wards.

Important Notes:

While the different surgical “teams” will have faculty members who will provide direct supervision and evaluation of the students, Dr. Lee will conduct overall supervision of the progress of the student.

Students will be required to take in-house call, approximately 4-5 calls in 1 month.
Not available in March, June or July

SURG 385: Plastic and Reconstructive Surgery

Course Director: Jerry Chao, MD

This course includes experience and the full spectrum of plastic and reconstructive surgery in adult age groups including cosmetic surgery, neoplasms of the head and neck, facial trauma, benign and malignant skin lesions, hand surgery, burns, microsurgery, and breast surgery.

Responsibilities include care of the patient in the clinic and surgical wards, operating room.

Important Notes:

Not available in March, June, or July

SURG 388: Vascular Surgery “Giordano Team”

Course Director: Juliet Lee, MD

The vascular surgery elective focuses on vascular diseases with emphasis on operating room, ICU and ward care. Students are expected to focus on independent learning and management of ICU patients, consults, and floor patients. Students are also expected to participate fully in vascular conference, presenting patient cases for discussion.

Important Notes:

While the different surgical “teams” will have faculty members who will provide direct supervision and evaluation of the students, Dr. Lee will conduct overall supervision of the progress of the students.

Students will be required to take in-house call, approximately 4-5 calls in 1 month.
Not available in March, June or July

SURG 400: Trauma and Acute Care Surgery "CTACC"

Course Director: Juliet Lee, MD

The trauma acute care service elective focuses on comprehensive care of the traumatically injured patient along with acute care surgery. Students spend significant time on the wards, trauma bay and ICU. Students are expected to participate in morning report, ICU and workpresentations.

Important Notes:

While the different surgical "teams" will have faculty members who will provide directsupervision and evaluation of the students, Dr. Lee will conduct overall supervision of the progress of the students.

All students will be required to take in-house call, approximately 4-5 calls in 1 month.

Not available in March, June or July

SURG 402: Colorectal and Breast Surgery

Course Director: Juliet Lee, MD

The colorectal and breast surgery elective focuses on complex benign and oncologic disease ofthe colon and rectum and breast. Students are expected to function in both inpatient outpatient settings, significant clinic exposure and work-up of oncologic diseases.

Important Notes:

While the different surgical "teams" will have faculty members who will provide directsupervision and evaluation of the students, Dr. Lee will conduct overall supervision of the progress of students.

All students will be required to take in-house call, approximately 4-5 calls in 1 month.

Not available in March, June or July

Department of Urology*UROL 302: Clinical Urology*

Course Director: Michael Whalen, MD

Observation of urologic conditions and procedures for diagnosis and treatment; radiologic and pathologic studies, endoscopy and surgery, collateral reading, weekly staff conference. Studentsare to report to residents for orientation and assignments by 7:00am each day.

Important Notes:

Not available March, June, and July

Electives at the Children's National Hospital – Main Campus

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Michigan Ave NW, Washington, DC, 20010. It is not in close proximity to any metro station but is accessible by many bus routes and the free shuttle to/from GW Foggy Bottom campus.

Department of Pediatrics*PED 368: Pediatric HIV Infection*

Course Director: Adeline Koay, MBBS, MSc

In this elective, rotators will learn about prevention of perinatal HIV transmission of HIV, prevention of horizontal transmission of HIV and management of HIV for children and youth living with HIV. This will include the management of both perinatal-acquired and behavioral- acquired HIV. The rotator will learn about the clinical course and treatment of pediatric HIV infection, principals of antiretroviral therapy, HIV resistance, opportunistic infections, care of the pediatric HIV patients, HIV prevention and psychosocial aspects of HIV care and treatment.

Additional aspects of this rotation include global perspectives on pediatric and adolescent HIV, clinical research participation (optional) and independent study.

Students are expected to:

- Participate in all Special Immunology clinical activities and multi-disciplinary meetings.

- Complete a presentation regarding the management of a patient seen in clinic or arelevant HIV-related topic of interest.

Important Notes:

Not offered in March, June or July

PED 369: Pediatric Infectious Disease

Course Director: Nada Harik, MD

Students will serve as members of the inpatient consultation team. Common conditions encountered include infections in immunocompromised hosts, complex pneumonia, management of bacteremia, musculoskeletal infections, unexplained fever, and tropical diseases. Students will develop increased competence in the appropriate selection and use of antimicrobial agents to treat bacterial, viral, fungal and parasitic infections. Students also will participate in the Tuesday afternoon conference series and case discussion session. No weekends or call. Students will interact with pediatric infectious diseases fellows and attendings. Pediatric residents may also be members of the inpatient consult team. If no pediatric residents are members of the team, students will still have an opportunity to interact with residents when relaying consult recommendations and during resident conferences.

Important Notes:

Not offered in March, June or July

*PED 370: Pediatric Diabetes**Care*

Course Director: Fran

Cogen, MD

The student will evaluate and treat ambulatory patients with diabetes under the supervision of the attending physician and rotating residents/fellows. The student will attend both am and noon conference at the Children's National campus and work with the attending with inpatients.

Students will have supervised direct patient contact in outpatient clinics with an attending in which the student will obtain a focused medical history, appropriate physical examination and developed an assessment and plan that will be presented to the attending physician with the patient and family present, and document the above information in the Ambulatory Treatment Records (ATR).

Learning Objectives:

Describe the pathophysiology and treatment of diabetes (type 1, type 2 and other forms).

Apply the appropriate insulin regimen based on the current basal and bolus insulins in current practice in the ambulatory and inpatient setting using a family centered approach.

Demonstrate pattern management based on blood glucose monitoring.

Propose an assessment and treatment plan for all patients evaluated in clinic.

Manage diabetes in the "camp setting" (with assistance) if applicable.

Perform inpatient diabetes consultations under supervision of the attending physician.

Describe a nutritional program appropriate for type 1, type 2 and other forms of diabetes.

Recognize the importance of psychosocial support in the management of chronic illness.

Prepare evidence-based patient education materials on diabetes-related topics that are appropriate for families.

Important Notes:

The student may also consider attending Camp Take Charge, a 4-day, 3-night diabetes camp under the auspices of Brainy Camps (Children's National Health System) if the elective is chosen during July or August.

Not available in March or June

PED 373: Pediatric Urology

Course Director: Tanya D. Davis, MD

Students will be active participants and have the opportunity to evaluate patients in the Children's outpatient urology clinic. 90% of the diagnoses in the clinic will be conditions

that would be typically discovered, evaluated, and often treated in the primary physician's office. Exposure will be provided in UTI management, obstructive uropathy, prenatal and postnatal hydronephrosis, voiding disorders, differentiating retractile and undescended testes, genital disorders, catheterization techniques and many other less common problems. The Pediatric Urology faculty performs all types of surgical procedures including routine surgery for undescended testis, complex repairs of hypospadias and other genital malformation, upper and lower urinary tract reconstruction, endoscopic stone surgery and Da Vinci assist robotic surgery.

A presentation on a pediatric urology topic of the student's choosing expected at the end of the rotation.

Important Notes:

Upon request to students with strong interest only

PED 375: Pediatric Surgery

Course Director: Christina Feng, MD

This course includes experiencing the full spectrum of pediatric surgery including congenital anomalies, solid neoplasms, neonatal care, ambulatory surgery, colorectal surgery, minimally invasive surgery, Burns and trauma. Responsibilities in the operating room, at the bedside and in the clinic are combined with participation in an academic conference in daily contact with surgical residents and faculty.

Important Notes:

Upon request to students with strong interest only

PED 377: Pediatric Rheumatology

Course Directors: Hemalatha Srinivasalu, MD; Tova Ronis, MD

Students will be involved in outpatient clinic, inpatient rounds, evaluation of infusion patients and multi-disciplinary clinics as scheduling permits. Students will participate in weekly educational meetings. Students will be expected to see patients independently (with appropriate supervision) and write clinic notes.

Learning Objectives:

- Practice history taking for a new pediatric patient with musculoskeletal complaint.
- Demonstrate pediatric musculoskeletal exam.
- Discuss differential diagnosis for a pediatric patient with rheumatologic concern.

Important Notes:

Upon request to students with strong interest only

PED 380: Pediatric Gastroenterology

Carmelo Cuffari, MD

Students will be provided experiences in GI, hepatology, Nutrition, and Intestinal Rehabilitation. The student can choose the relative distribution of inpatient, consult, outpatient and procedure activities. On the inpatient service, the student is expected to follow 1-3 patients, including pre- rounding and presenting on daily rounds. He/she has the opportunity to see consults in the afternoon. Outpatient clinics include both general GI as well as Liver, Transplant, Inflammatory Bowel Disease, and other subspecialty clinics. These often are shadow experiences. Students will also have an opportunity to attend resident conferences.

Important Notes:

Extended hours of pre-rounding and sign-out are expected on the inpatient service.

Not available March, June, or July

*PED 383: Pediatric Pulmonary
Medicine*

Course Director: Folasade Ogunlesi, MD

Students will become familiar with the most common pulmonary conditions in both inpatient and outpatient settings. The inpatient portion of the elective provides a close working relationship with pediatric residents during their required inpatient ward month. The outpatient portion provides limited exposure to residents during their outpatient week. Regular attendance at resident conferences is encouraged.

Learning Objectives:

Understand the pathophysiology of common pulmonary conditions and apply this knowledge to clinical decision making and management.

Enhance clinical skills in history taking and examination with specific focus on the respiratory systems. Common areas of focus will include asthma, cystic fibrosis, obstructive sleep apnea, bronchopulmonary dysplasia and the care of the NICU graduate, pneumonia and the care of technology dependent patients.

Understand the indications and interpretation of pulmonary function tests.

Important Notes:

Not offered in June, July, or August

*PED 384: Pediatric Interventional
Radiology*

Course Director: Ranjith Vellody, MD

Students should expect to progress from observation to “scrubbing in” and get more actively involved with cases as the rotation evolves. This will occur mainly under the supervision of one of the three full time attendings, although pediatric radiology fellows may also be involved. The student is expected to attend the 7:30 AM radiology medical

student, resident, and fellow lecturedaily. In addition, an interesting case conference on Friday at noon is also encouraged. Studentswill participate in; supervised direct patient contact in the operating room, the interventional radiology suite, and at the patient bedside with an attending during which the student will observe procedures and tools used to perform those procedures. Case based discussion during daily “morning viewbox rounds” and during inpatient rounds “workstation teaching” during consultation work up, self-directed learning including presentations and conferences in the hospital.

Learning Objectives:

Discuss the indications and contraindications for commonly performed procedures ininterventional radiology.

List the steps of common interventional radiology procedures.

Describe the challenges facing interventional radiologists in performing procedures at thebedside.

Describe how diagnostic radiology modalities impact the decision to perform proceduresand aid in the performance of procedures.

Identify the appropriate imaging studies for common clinical scenarios.

Important Notes:

Upon request to students with strong interest only

Identify the appropriate imaging studies

PED 386: Pediatric Hematology-Oncology

Course Director: Marie Nelson, MD

Students will be exposed to the outpatient diagnosis and management of children with hematologic and oncologic diseases. The student will work with different fellows and attendingsbased on their specialty focus. Examples include clinics focused on general hematology, sickle cell, bleeding disorders, thrombosis, blood cancers, solid tumors and brain tumors. Laboratory experiences include examination of peripheral blood smears and bone marrow aspirates, as well as the interpretation of laboratory tests used in the diagnosis and management of these patients. A shadowed inpatient experience can be provided based on student interest. No call or weekend hours are required. The outpatient portion does not provide regular working exposure to residents; however, regular attendance at resident conferences is encouraged.

Important Notes:

Not offered in March, June, or July

*PED 389: Pediatric
Cardiology*

Course Director: Ian

Hovis, MD

Students will work with the outpatient pediatric cardiology clinic team. Emphasis is provided on physical diagnosis of congenital and acquired heart disease and interpretation of electrocardiograms and echocardiograms. Exposure will be offered in cardiac catheterization and cardiac MRI's. Optional observation of cardiac surgical procedures will be made available.

Although the elective may be adapted to allow care of admitted patients with the pediatric residents during their required inpatient ward month, the outpatient experience does not provide regular exposure to residents. Students are expected to participate in cardiology departmental conferences. No weekends or call. Regular attendance at resident conferences is encouraged.

Important Notes:

Not offered in March, June, or July

*PED 401: Pediatric
Otolaryngology*

Course Director: Claire

Lawlor, MD

Students will have exposure to otoscopic examination of infants and children; understand the management of common middle ear disorders; and learn evaluation of stridor and airway compromise. Also spend time seeing patients getting hearing loss work up and undergoing cochlear implantation process, as well as spend time in craniofacial clinic.

Important Notes:

Not offered in June or July

PED 403: Pediatric Rehabilitation Medicine

Course Director: Olga Morozova, MD

Students will learn about management of patients with acute and chronic childhood disabilities including but not limited to cerebral palsy, Spina Bifida, brain injury, neuromuscular disorders, and other disorders of the spinal cord. The rotation includes inpatient consults and ambulatory clinics including multidisciplinary Muscular Dystrophy, Spasticity, and Spina Bifida clinics.

Students will learn the functional neuromuscular exam, become familiar with physical and occupational therapy, adaptive equipment and orthoses and will get exposure to chemodenervation procedures as a part of spasticity management.

Important Notes:

- One week of the elective will be conducted at the National Rehabilitation Hospital which is on the same medical campus as CNHS. During all other weeks at

CNHS, regular attendance at pediatric resident conferences will be encouraged.
Attendance is required for the didactics in the PM&R Division.

- Not offered in March, June, or July

PED 410: Orthopedic Surgery

Course Director: Benjamin Martin, MD

This elective course presents an opportunity for medical students to learn the nature and scope of pediatric orthopaedic surgery. Students will be active members of the orthopaedic service participating in morning conferences, lectures, preoperative conference, clinic and surgical procedures. In addition, there are formal and informal sessions focused just on students. These will be didactic lectures, teaching rounds and practical workshops on splinting and casting.

All students are required to prepare a ten-minute presentation on a pediatric orthopaedic topic during the rotation. The students work closely with the orthopaedic (not pediatric) residents and all conferences are orthopedic in nature.

Important notes:

- One night-call is expected every 2 weeks
- Not offered in March, June, or July

PED 411: Dermatology

Course Director: Kaiane Habeshian, MD

Students will be active members of the Pediatric Dermatology Service, participating in outpatient clinic and inpatient consultation rounds. Students will attend formal dermatology didactic conferences, lectures, and Grand Rounds. This rotation is designed in particular for medical students who plan for careers in Pediatrics. You will learn about common pediatric skin conditions as well as complex pediatric concerns, such as congenital, infectious, parasitic, neoplastic, and secondary disorders caused by underlying systemic conditions. Rotating students interact mostly with Dermatology Residents. Most conferences are dermatologic in nature, although there are opportunities to attend general pediatric conferences on days spent at the main hospital. Personal transportation is helpful to attend clinics and conferences at NIH and other sites (although public transportation and carpooling suffice in most cases).

Important notes:

- Not offered in March, June, or July