



Penn Visiting Clerkships for Students Underrepresented in Medicine



Children's Hospital of Philadelphia | University of Pennsylvania Health Systems
The Perelman School of Medicine at the University of Pennsylvania

The Visiting Clerkship Programs for Underrepresented Minority Medical Students encompass numerous opportunities for 4th year medical students to explore rotations at the Children's Hospital of Philadelphia (CHOP), Hospital of the University of Pennsylvania (HUP), Penn Presbyterian Hospital (Presby), and Pennsylvania Hospital (Pennsy) in a number of subspecialties. The clerkships include both sub-internship and elective experiences in top-ranked residency programs. Students not only have the opportunity to spend time learning first-hand what it is like to be a resident at these institutions, but they are paired with resident and faculty mentors and meet with Residency Program Directors to aid in their recruitment and preparation for the interview season and Match Process. Funding is included!

Program Highlights

- Each student is paired with a Faculty or Resident mentor in an area of their interest
- Each student will be given the opportunity to have a personal meeting with the Residency Program Director in the program of their interest
- Funding up to \$1,500 for travel and housing
- Opportunity to interact with current URiM residents, fellows, and faculty at social events

Clerkship Programs

- Anesthesiology Sub-internship
- Cardiothoracic Surgery Sub-internship
- Dermatology Elective
- Emergency Medicine Sub-internship
- Family Medicine Sub-internship and Electives
- General Surgery Sub-internship
- Internal Medicine Subspecialty and Ambulatory Electives
- Neurology Elective
- Obstetrics & Gynecology Sub-internship
- Otolaryngology Sub-internship
- Pathology Sub-internship
- Pediatrics Sub-internship and Subspecialty Electives
- Physical Medicine & Rehabilitation Elective
- Plastic Surgery Sub-internship
- Psychiatry Sub-internship
- Radiation Oncology Sub-internship
- Radiology Electives
- Urology Sub-internship
- Vascular Surgery

Application Requirements and Information

The application for our Clerkship opens in February and will be available on the UPHS-CHOP Alliance of Minority Physicians website: <http://www.allianceofminorityphysicians.org/penn-urm-visiting-clerkship-program.html>. All applicants must be rising 4th year (or final year if additional degrees or program longer than 4 years) medical students and should apply for the clerkship program that correlates to the subspecialty they are pursuing in the match. We ask for your general information, curriculum vitae, a medical school transcript, a personal statement/letter of interest, a photograph, and one letter of recommendation. **Application deadline is Friday, May 6th and acceptance notifications will be given by the end of May.**

- Completed online application
- Updated CV
- Photo
- Transcript (official copy preferred but not required)
- Personal Statement expressing interest for specialty/clerkship program
- Letter of Support from an Attending Physician (not required for Emergency Medicine applicants)

Rotation dates

Available rotations by specialty and vary based on the Perelman School of Medicine Registrar's office.

- July 5 – July 29, 2022 (limited slots available)
- August 1 – August 26, 2022
- August 29 – September 23, 2022
- September 26 – October 21, 2022
- October 24 – November 18, 2022

Clerkship Coordinators

Anesthesiology	Dr. Jason Walls Jason.walls@pennmedicine.upenn.edu
Cardiothoracic Surgery	Dr. Marisa Cevasco Marisa.cevasco@pennmedicine.upenn.edu
Dermatology	Dr. Temitayo Ogunleye temitayo.ogunleye@pennmedicine.upenn.edu
Emergency Medicine	Dr. Chidinma Nwakanma chidinma.nwakanma@pennmedicine.upenn.edu
Family Medicine	Dr. Ayiti Maharaj-Best ayiti-carmel.maharaj-best@pennmedicine.upenn.edu
General Surgery	Ms. Gabi Bressi gabriella.bressi@pennmedicine.upenn.edu
Internal Medicine	Dr. Claiborne Childs claiborne.childs@pennmedicine.upenn.edu
Neurology	Mr. Cristian Nieves cristian.nieves@pennmedicine.upenn.edu
Obstetrics & Gynecology	Ms. Keena Charles-Cuperteno keena.charles-cuperteno@pennmedicine.upenn.edu
Otolaryngology	Ms. Sandra Corkery Sandra.corkery@pennmedicine.upenn.edu
Pathology	Ms. Vikki Scott Vikki.scott@pennmedicine.upenn.edu
Pediatrics	Dr. Jessica Fowler, fowlerj@chop.edu Ms. Dawn Young, youngd2@pennmedicine.upenn.edu
Physical Medicine & Rehabilitation	Dr. Alexis Tingan Alexis.tingan@pennmedicine.upenn.edu
Plastic Surgery	Ms. Kris Gallagher Kris.gallagher@uphs.upenn.edu
Psychiatry	Dr. Brijae Chavarria, brijae.chavarria@pennmedicine.upenn.edu Dr. Caleb Miles, caleb.miles@pennmedicine.upenn.edu
Radiation Oncology	Dr. Nick Lukens, john.lukens@pennmedicine.upenn.edu Ms. Teresa Fuller, teressa.fuller@pennmedicine.upenn.edu
Radiology	Dr. Linda Nunes linda.nunes@pennmedicine.upenn.edu
Urology	Ms. Jennifer Prassas Jennifer.prassas@pennmedicine.upenn.edu
Vascular Surgery	Dr. Ben Jackson Ben.jackson@pennmedicine.upenn.edu

For general questions or inquiries, please contact Dr. Jessica Fowler at fowlerj@chop.edu

Frequently Asked Questions

1. Are there general visiting student opportunities outside of this program?

General visiting student rotations are available through the Perelman School of Medicine's (PSOM) Registrar's Office. If you are interested in rotating at Penn regardless of acceptance to our program, then you may want to move forward and apply to the general rotation slots now. PSOM does not use VSAS or other common visiting student systems. You can find more information at the following website: <https://www.med.upenn.edu/student/visiting-students.html>.

2. Are students from non-US medical schools eligible for this program?

Non-US Medical Schools do not usually have agreements with Perelman School of Medicine that will cover visiting students' necessary insurance for a visiting rotation. Medical students who attend schools in US territories may be eligible – for example, we have accepted students from the Ponce School of Medicine, San Juan Bautista School of Medicine, and the University of Puerto Rico School of Medicine. Otherwise please look for opportunities through Penn's Center for Global Health: <https://www.med.upenn.edu/globalhealth/international-trainees-scholars.html>

3. Is there rolling acceptance for this program?

No, we review all applications by specialty after the deadline and select students at that time. If you have a particular need to know earlier, please contact the appropriate Clerkship Coordinator or reach out to Dr. Jessica Fowler, fowlerj@chop.edu, to see if we can make an exception.

4. Are the rotation dates flexible?

We know that the PSOM rotation dates do not always line up with the rotation dates for visiting students' medical school schedules. We sometimes have flexibility with this and would encourage you to still apply. If accepted, we can at times adjust the dates to accommodate you.

Clerkship Rotation Information & Descriptions

Course listings and descriptions can be found on the Perelman School of Medicine Visiting Student website: www.med.upenn.edu/visitingstudents/

Anesthesiology

The objective of this course is to invite the student to actively participate in all aspects of the anesthetic management of patients having surgery. Students are directly supervised while learning preoperative evaluation, planning and preparation for anesthesia, and intra-operative and post-anesthesia patient care. Experience will be gained in intravenous techniques, fluid and blood administration, airway management, intravenous analgesia and sedation, as well as general and regional anesthetic techniques. Monitoring procedures will include temperature, electrocardiography, capnography, oximetry, and intra-arterial blood pressure measurement, and analysis of blood gases. Principles of postoperative pain management are highlighted. Students will also gain exposure in the anesthetic care of the obstetric and pediatric patient.

Rotation available (Registrar course): Anesthesiology (ANE300)

Cardiothoracic Surgery

This elective in cardiovascular surgery is offered each month to students who desire an intensive clinical experience. The student will be an integral member of the cardiovascular surgical service with direct supervised responsibility for patient care. The experience will emphasize clinical management of cardiac surgical patients in the intensive care unit and inpatient service. Time will be devoted to preoperative evaluation and indications for operation, operating room experience, which will be weighted toward cardio-aortic surgery, respiratory and circulatory support management, and postoperative care. Students will be directed to relevant literature and will participate in daily scheduled conferences.

Rotation available (Registrar course): Cardiac Surgery (SUR 312E, SUR 313A)

Dermatology

The objective of the course is for students to obtain an intensive exposure to all aspects of clinical dermatology including diagnosis, laboratory investigation, surgical procedures and therapy. Students will be directly involved in patient care in the dermatology outpatient clinics at HUP and CHOP (as well as the HUP private practices). The course will also include a series of lectures, conferences, and audiovisual presentations that will present an overview of dermatology.

Rotation available (Registrar course): Dermatology (DER300)

Emergency Medicine

The Penn EM Sub-Internship is 4 weeks long and takes place at the Hospital of the University of Pennsylvania and Penn Presbyterian Medical Center. Students will complete shifts in the emergency department, including night, weekend, and ultrasound shifts, as well as attend Wednesday morning resident teaching conferences.

Rotation available (Registrar course): Sub-internship in Emergency Medicine (EM308)

Family Medicine

Our Family Medicine Program features the opportunity to choose an elective experience from among the following: inpatient sub-internship on the Family Medicine Inpatient Service, outpatient externship seeing primary care patients at Penn Family Care, Maternal Child Health elective that includes prenatal visits and inpatient Labor & Delivery including newborn care. In each of these settings students will be supervised and provided with the resources and responsibility given to that of an acting intern. Students will have the opportunity to work with Family Medicine faculty and residents.

Rotations available (Registrar course): Externship in Family Medicine (FAM300), Community Medicine and Public Health Elective (FAM326), Maternal Child Health (FAM350), Sub-internship in Family Medicine (FAM400)

General Surgery

Our General Surgery Program gives students an opportunity to rotate in general surgery and general surgery subspecialties at The Hospital of the University of Pennsylvania as sub-interns. Students will experience the premier general surgery training at the University of Pennsylvania, and will enjoy forming relationships with current residents and faculty. Students are expected to actively prepare for and participate in morning rounds, attend all available operations, and give at least one formal presentation during the course of their rotation. Students will have the opportunity to attend all divisional and departmental conferences during their month at Penn.

Rotations available: Hepatobiliary (SUR319), Surgical Oncology (SUR 320, 321, 322), General/Foregut (SUR303), Colorectal (SUR309A)

Internal Medicine

The Edward S. Cooper Visiting Clerkship, sponsored by the Department of Medicine at the University of Pennsylvania School of Medicine, provides support for talented underrepresented minority fourth year medical students to participate in a four-week elective rotation at a Penn-affiliated hospital. The program is designed to increase medical student awareness of opportunities in academic medicine and increase the number of minority students applying to the Penn Internal Medicine residency programs.

Rotations available (Registrar course): Ambulatory, Cardiology, Endocrinology, Gastroenterology, Geriatric Medicine (MED334A), Hematology/Oncology, Infectious Diseases, Nephrology, Pulmonary Disease, Rheumatology (MED384A)

Neurology

This rotation was crafted specifically for our Visiting Clerkship Program. The clinical experience will include 3 weeks with the inpatient Neurology team and 1 week with the outpatient team. There will be the opportunity to work directly with faculty and residents and see patients with a variety of neurologic diagnoses and disorders.

Obstetrics & Gynecology

This OBGYN Clerkship includes opportunities to rotate through subspecialty experiences with incredible faculty. The education and clinical learning that will take place is something we know students will enjoy. The rotation experience also offers interaction with current OBGYN residents and other UIM housestaff around the Penn system.

Rotations available (Registrar course): Maternal-Fetal Medicine (OBG300), Gynecologic Oncology (OBG303A), Urogyn & Pelvic Reconstructive Surgery (OBG314A), Family Planning (OBG323A)

Otolaryngology

This clerkship emphasizes diagnosis, treatment and rehabilitation of patients with otolaryngologic (i.e. ear, nose and throat) problems. The student will participate in outpatient and inpatient care under the supervision and guidance of the faculty and residents. The rotation will involve experiences gained on two separate clinical services through which the student will rotate and spend roughly equal time on each service. One service treats mostly patients with sinus, otology/neurotology, trauma and general otolaryngology problems. Drs. Bigelow, Chiu, Kennedy, Mirza, Palmer, Ruckenstein and Thaler are the attendings on this service. The other clinical service will involve treating patients mostly with head and neck problems and oncology of the head and neck; this service is staffed by Drs. O'Malley, Chalian, and Weinstein. On each of these services, the student will be expected to function as a member of the clinical team and will work closely with the residents on inpatient care. There will be opportunity to spend 1-2 days at the Children's Hospital to gain a brief insight into the pediatric aspects of otolaryngology. Attendance at departmental conferences, seminars and grand rounds is encouraged. A literature search and written review of a subject or case report is required for an Honors grade.

Rotation available (Registrar course): Otolaryngology (OTO300)

Pathology

The goals of this rotation are to introduce students to the field of academic anatomic pathology and further their understanding of a variety of disease processes. Students will be active members of the surgical pathology team and be directly involved in case evaluation; or spend time rotating through two

laboratory areas of based on their interest and selection with the course director. Labs available include Transfusion Medicine, Coagulation, Molecular Diagnostics and Personalized Medicine, Immunology, Microbiology and Clinical Chemistry. Our faculty are eager to work directly with the students on this rotation.

Rotation available: Surgical Pathology(PAT300), Clinical Pathology (PAT301)

Pediatrics

The Pediatrics Visiting Clerkship Program is designed to give students a chance to experience the exceptional training that CHOP has to offer. In addition, it provides the residents and attending faculty a chance to form a close working relationship with each student. Visiting students will spend four weeks on a Subspecialty Elective rotation or as a Sub-intern on one of our inpatient floors (includes general pediatrics and/or a subspecialty), or the Emergency Department. As CHOP is a tertiary care center, students will have exposure to a variety of patients ranging from bread-and-butter pediatrics to medically complex patients. Students are also invited to attend morning report and noon conference daily, as well as weekly grand rounds.

Rotations available (Registrar course): Pediatric Sub-internship (PED300), Emergency Medicine Sub-internship (PED311), Cardiology (PED314), Child Abuse (PED310), Child Development/Rehabilitation (PED316), Endocrinology (PED394), Gastro-Intestinal (PED334), Hematology (PED324), Infectious Disease (PED354), Oncology (PED323)

Physical Medicine & Rehabilitation

This clerkship will provide the student with a broad exposure to Physical Medicine and Rehabilitation. Experience will be gained in neurologic and musculoskeletal physical examination and diagnosis. Our goal is to maximize function in individuals with cognitive and/or physical disabilities. Holistic medicine is emphasized with the team approach to patient care. Students will participate in care of patients on: -the inpatient rehabilitation service -the acute care consultation service - ambulatory care with exposure to electrodiagnostic studies and nerve blocks.

Rotations available: Sports Medicine, Interventional Spine, General Outpatient Rehab, Inpatient Rehab

Plastic Surgery

The purpose of this visiting clerkship program in Plastic Surgery is to give students the opportunity to experience the premier plastic surgery training experience offered at the University of Pennsylvania. Also, this clerkship experience will allow the students an opportunity to form a relationship with current house staff and faculty. Students will have the opportunity to rotate on the HUP Plastic Surgery service for a 4-week rotation. Students will be expected to function at the level of an advanced medical student. They will be expected to actively prepare for and participate in morning rounds, attend all available

operations and give at least one formal presentation during the course of their rotation. Students will be expected to attending all divisional and departmental conferences during this time.

Rotation available: Sub-internship in Plastic Surgery (SUR360)

Psychiatry

The visiting clerkship program is designed to give students a chance to get a taste of the exceptional training that Penn and CHOP have to offer. Additionally, it creates a professional responsibility for current residents and faculty to engage with the visiting medical students and provide mentorship while they are in our institutions. Visiting students will be given an opportunity to rotate in Adult Psychiatry and Child & Adolescent Psychiatry. The rotation will be mostly spent in the consult and liaison service at The Hospital of the University of Pennsylvania and at The Children's Hospital of Philadelphia. These clinical services may also allow the students to encounter emergency psychiatry cases. Depending on the student's interest, they may request to shadow certain clinics during the afternoon for a more tailored experience. Students are also invited to attend weekly didactics and bimonthly grand rounds.

Rotations available (Registrar course): Inpatient Psychiatry (PSY300), Child & Adolescent Psychiatry (PSY303)

Radiation Oncology

The goals of the course are: 1) To learn more about the general principles of oncology, including: the basic science of oncology, the diagnostic evaluation and staging of cancer, the multidisciplinary nature of cancer management, the therapeutic decision-making process, the administration of various cancer treatments, and the supportive medical care of the cancer patient. 2) To understand the role of radiation therapy in the treatment of cancer, specifically: simulation (treatment planning); typical radiation therapy fields; planning and administration of CT-based three-dimensional conformal radiation therapy (3-D CRT) and intensity modulated radiation therapy (IMRT); planning and implantation of radiation sources (brachytherapy) directly into tumors; and intraoperative photodynamic therapy.

Each medical student is assigned to work as part of a cancer site-specific team, which includes a resident and attending physician. The medical student is expected to attend all resident conferences, as well as educational meetings and tumor boards relevant to the individual site-specific services. For the initial consultation, the student will observe the resident as he/she gathers pertinent information (x-rays, pathology reports, operative reports, etc.) and does a complete history and physical examination. For this first consultation, the resident will present the case to the attending while the student again observes. For subsequent consultations, the student will see and examine the patient, either alone or together with the resident, and later present the case to the team in a format similar to hospital rounds. The student will handwrite a consultation note for select patients, and this note will be reviewed by the attending physician and resident. The student will assist the resident in obtaining pertinent medical data (e.g. lab or x-ray results, patient's medication list), scheduling tests, arranging appointments with other MDs, etc. The student will observe the attending physician and resident as they perform the specialized procedures and discuss the technical aspects of radiation oncology. The student may be quizzed about anatomy and general oncology during these procedures, but is not routinely expected to perform these

procedures. At the end of the rotation, each student is required to give a 15-20 minute presentation (typically PowerPoint-based) on a topic of the student's choice. A variety of topic options are available, including a case presentations and review of the pertinent literature, a general review of a specific cancer or disease site, a discussion of basic science advances in oncology, etc. The intended topic should be approved by the program director by mid-rotation, both to ensure its appropriateness and to avoid duplicate topics. A brief handout related to the talk is generally expected and helpful. A presentation does not guarantee an honors grade, but is required for the grade to be considered.

Rotation available (Registrar course): Radiation Oncology (RON300)

Radiology

The purpose of this visiting clerkship program is to give students the opportunity to experience the premier radiology residency training experience offered at the University of Pennsylvania. Also, this clerkship experience will allow the students an opportunity to form a relationship with current house staff and faculty. Students will have the opportunity to rotate on the HUP, PPMC and or PAH service for a 4-week rotation. Students will be expected to function at the level of an advanced medical student. They will be expected to be actively engaged on rotations, attend all divisional and departmental conferences and give at least one formal presentation at the end of their rotation.

A normal clerkship day will include:

- 7:30 am to 9:00 am: Morning conference. There will be 2 conferences of 45 minutes each. Faculty presents both clinical and non-clinical material in various formats, including didactic lectures and interesting case reviews. This is the perfect time to meet most of the current residents.
- 9:00 am to 5:00 pm: You will go to your chosen rotation. The interpretation of studies and performance of the imaging guided procedures is a team approach with residents and fellows working together in concert with attendings. On most rotations, you will be working with a first-year radiology resident (PY2), a senior radiology resident (PGY 3, 4, 5) and or fellows. You will be included in attending read out sessions with trainees and as applicable will be present during imaging guided procedures.
- On Tuesdays you can enjoy Radiology noon Ground Rounds where lunch will be provided

As part of your clerkship, you will be responsible for giving a short case conference: this will occur on the last week of the rotation. The goal is to present a brief didactic conference based on an interesting case you encountered during the month. This could include surgical and or pathology follow up.

Rotations available (Registrar course): Women's/Breast Imaging (RAD336D), Cardiothoracic imaging, Interventional Radiology (RAD320), Body Imaging (RAD337D), Musculoskeletal (RAD310), Neuroradiology (RAD330), Nuclear Medicine (RAD311)

Urology

The purpose of this visiting clerkship program is to give students the opportunity to experience the premier Urology training experience offered at the University of Pennsylvania. Also, this clerkship

experience will allow the students an opportunity to form a relationship with current house staff and faculty. Students will have the opportunity to rotate on the HUP service for a 4-week rotation. Students will be expected to function at the level of an advanced medical student. They will be expected to actively prepare for and participate in morning rounds, attend all available operations and give at least one formal presentation during the course of their rotation. Students will be expected to attending all divisional and departmental conferences during this time.

Rotation available (Registrar course): Sub-internship in Urology (SUR345A)

Vascular Surgery

The purpose of this visiting clerkship program in Vascular Surgery is to give students the opportunity to experience the unique training experience offered at the University of Pennsylvania. The vascular surgery sub-I rotation for medical students at Penn Presbyterian Medical Center will be focused on a comprehensive approach to vascular disease. This will be a busy rotation with significant time in the operating room in vascular surgery cases that will span over the entire spectrum of vascular disease in the neck, thorax, abdomen and both upper and lower extremities. There will be excellent exposure to both open vascular surgery and endovascular techniques in vascular surgery. There will also be exposure to outpatient venous procedures in the office. There are several outpatient vascular clinics. Multiple educational conferences are held during every week where medical students are expected to actively participate. There is a dedicated vascular service comprised of vascular surgery attendings, chief resident, mid-level consult residents, intern, and nurse practitioners. Students will be actively involved in evaluating patients both in an inpatient and an outpatient setting. Students will also have the opportunity to spend time in the vascular laboratory to understand noninvasive vascular evaluation.

Rotation available (Registrar course): Sub-internship in Vascular Surgery (SUR318E)