Your Future Is Cooper

2014-2015
Vascular and Endovascular Surgery Fellowship Program

Cooper University Hospital

Cooper Medical School of Rowan University
Welcome

Thank you for your interest in our American Board of Surgery accredited Vascular and Endovascular Fellowship program at Cooper Medical School of Rowan University.

This program offers a two year ACGME fully accredited fellowship in Vascular and Endovascular Surgery and is designed to guide trainees through all essential areas of vascular care following the completion of their medical school education. Cooper University Hospital is the largest academic medical center and the only Level I Trauma Center in Southern New Jersey. The medical center serves the needs of a broad patient population consisting of primary, secondary and tertiary medical care.

Our fellowship program encompasses a wide breadth of vascular practice from outpatient varicose vein procedures to a robust open aortic experience. Cooper has a strong endovascular experience but we take great pride in the open surgical experience provided by an exceptionally talented faculty.

Joseph V. Lombardi, M.D. F.A.C.S.
Chief, Division of Vascular and Endovascular Surgery
Program Director, Vascular Surgery Fellowship

Both our endovascular and open aortic expertise has been consistently over 90th percentile when compared with other programs.
Program Description

The overall goal of the Vascular Surgery training program at Cooper University Health Care is to provide a foundation for graduates of the program to develop into expert clinicians that are proficient in all aspects of the diagnosis, management, and treatment of vascular disease. These goals are fostered in an environment of progressively graded clinical, operative experience and responsibility. In doing so, the fellow will ultimately exercise mature surgical judgment and operative skills which prepare him/her to provide independent care to patients with vascular disease. Our faculty is enthusiastic, committed to teaching and has over 30 years of fellowship teaching collectively.

The case volume provides ample opportunity for fellows to develop and master a large breadth of vascular interventions including both open and endovascular procedures. Recent graduates have been in the 90th percentile relative to their peers for both open and endovascular aortic procedures. During their training, fellows have the opportunity to use devices only available through aortic and peripheral clinical trials in addition to newly FDA approved “next generation” devices such as fenestrated endografts for the treatment of complex aortic pathology.

Vascular and Endovascular Surgery Fellowship (5+2)

The 2 year fellowship is designed to compliment training in general surgery and provide the framework and experience to master board certification in vascular and endovascular surgery. An intense two year experience is designed to extend good surgical habits and principals towards mastering endovascular and open surgical techniques. Significant time is spent on academic initiatives geared toward local, regional and national presentations with manuscript preparation. Our two year curriculum is among the most challenging and rewarding fellowships available.

Curriculum

Vascular Surgery fellows at Cooper are expected to maintain and expand upon the six core competences at the foundation of surgery until they have reached the level expected of a new practitioner. The fellow will divide time between the inpatient clinical service, the outpatient and percutaneous service. While on the inpatient clinical service, the fellow will be expected to manage the intensive care unit and flow patients from pre-operative planning and assessment through the post-operative period. The outpatient experience focuses on ambulatory procedures including percutaneous arterial and venous therapies. The outpatient fellow will also have ample time to see and evaluate patients in the many outpatient clinics and to develop familiarity with clinical
Program Description  (continued)

ultrasonography. Fellows are expected to participate in ongoing research with one or several faculty members during their training. Adequate time is allotted to pursue research projects, particularly during the percutaneous rotation.

The Vascular Surgery Fellowship curriculum will encompass the major areas of modern vascular surgery. Cerebrovascular techniques include carotid artery endarterectomy, both awake and asleep, as well as carotid stenting are both discussed in detail as well as seen in clinical practice. Aortic interventions, both open and endovascular, encompass both the thoracic and the abdominal aorta and clinically are frequently performed in conjunction with the cardiothoracic service. A full range of peripheral procedures are used from various percutaneous devices designed to cross complete lesions through retrograde approaches for recalcitrant lesions in high risk operative candidates. Open bypass procedures have been increasing in number for good operative risk patients as their patency is unsurpassed by current percutaneous techniques. The practice serves a growing dialysis population with many opportunities to evaluate and treat both late chronic kidney disease patients as well as patients with multiple access failures who are now advanced access patients.

Finally, the curriculum and clinical experience are designed to provide ample opportunity to develop a deeper understanding of acute and chronic disease processes, a rapidly growing area of vascular surgery.

Conference Schedule
The Vascular Surgery Fellowship program provides educational opportunities through both formal and informal settings. The weekly vascular surgery conference is the cornerstone of the formal educational process and is common to the fellowship program. The conference schedule is designed to encompass all of the major clinical topics germane to clinical vascular surgery and is based upon the Core Curriculum. Conference is conducted in a case-based format with management discussion centered around current literature. Relevant basic science topics are covered in a monthly conference. Bi-monthly ultrasound lectures are conducted to provide fellows with a basic understanding of ultrasound physics and sources of imaging error. These lectures, combined with weekly hourly side by side imaging interpretation with a senior vascular ultrasound technologist, provide a solid knowledge base in preparation for the Physician Vascular Interpretation examination. Less formal learning goes on consistently through the interactions between fellows and faculty in the form of walk rounds, pre-operative case discussion, and discussion of patient management strategies for patients who present to the consult service.
Journal Club
A monthly Journal Club is designed to familiarize fellows with the current vascular surgical literature. Each conference will cover two or three articles and/or clinical guidelines that are selected by a supervising faculty member. Copies of each article should be distributed to all fellows and pertinent faculty one week prior to the Journal Club. The fellow should be able to concisely present the purpose and methods of the study as well as review of the figures and results presented in the paper. A vascular surgery faculty member will act as moderator. The goal is to be able to evaluate current literature based upon the data presented, the scientific validity of their observations, and the overall applicability of this information to current practice.

Morbidity and Mortality
A discussion of deaths and complications of patients either on the vascular service or on another service who underwent a vascular procedure will be performed on a bi-monthly basis. Fellows are assigned to present case synopses for which they were involved in patient care. Fellows are expected to concisely present patients for discussion, including the indication for the procedure, the complication, and outcome. Literature supporting management decisions should also be presented. The vascular faculty will moderate the presentations as well as lead discussions regarding alternative treatment options and the risks and benefits of differing treatment strategies.

“We provide a full range of education in vascular disease including advanced open and endovascular techniques, many of which are only available at our institution.”

Francis Caputo, M.D.
Assistant Professor of Surgery, Cooper Medical School of Rowan University
"Our fellows get a great deal of personal attention from the faculty. In the OR that translates into getting as much support as they need, but also as much independence as they can handle."

**James Alexander, M.D.**
Vice Chair for Education, Department of Surgery, Associate Professor of Surgery, Cooper Medical School of Rowan University.

### Fellowship Rotation Schedule (5+2)

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How to Apply

ERAS Fellowship Document Office
The Vascular Surgery Fellowship Program participates in ERAS — the Electronic Residency Application Service. Information regarding the ERAS application process and timeline is available on the websites listed below.

Association of American Medical Colleges
www.aamc.org/eras
www.erasfellowshipdocuments.org

In addition, Cooper University Health Care is a participant in the National Resident Matching Program’s (NRMP) computerized match, therefore, a requirement is that you agree to participate with Specialties Matching Service Match Participation agreement. We require receipt of the following information in order for your application to be considered:

1. ERAS application.
2. Curriculum vitae.
3. Three letters of recommendation, one of which must be from your current training director.
4. A personal statement describing your training goals and future career plans.
5. A copy of your USMLE scores for Steps 1 and 2CK and 2CS as well as Step 3.
6. ABSITE reports for all years of training.
7. A copy of your ECFMG certificate.

The program director and faculty members will review applicant files. Invitation for interview will be based upon their recommendations.

Eligibility

Fellowship – All PGY-4 surgical residents who will complete their program by June 30th of the following year will be eligible.
The Cooper Campus and Surrounding Area

Cooper University Hospital is the center of a growing health science campus that includes the main hospital, MD Anderson Cancer Center at Cooper, Cooper Medical School of Rowan University, the internationally acclaimed Coriell Institute for Research, Three Cooper Plaza Medical Offices, and the Ronald McDonald House. In December 2008, Cooper University Hospital completed a new $220 million 312,000 square foot, 10-story patient care Pavilion. The Pavilion features an expansive lobby and concourse, a restaurant and coffee shop, health resource center, business center, gift shop, and chapel. The emerging campus area was recently augmented by a $12 million neighborhood parks and streetscape improvements project.

The patient care Pavilion houses multiple new state-of-the-art patient care facilities; 60 private patient rooms, a 30-bed medical/surgical intensive care unit, 12 technologically advanced operating room suites with hybrid imaging capabilities, an advanced laboratory automation facility, and a 14,000-square-foot Emergency Department. The new Emergency Department features 25 beds, dedicated isolation suites, autonomous CT scanning technology, and a separate clinical decision unit (CDU).

A design showcase for patient and family-centered care, (the 25,000-square-foot Dr. Edward D. Viner Intensive Care Unit) features 30 private patient rooms equipped with the latest in advanced technology, and allowing 360-degree patient access. Five patient rooms are capable of negative pressure isolation, and five rooms have chambered isolation alcoves. In addition, an enlarged room with operating-room caliber lighting is outfitted to perform bedside exploratory laparotomy in patients too unstable for transport to the operating room.

Additional features of the state-of-the-art unit and critical care team include:

- Four patient care pods featuring state-of-the-art individual and centralized patient monitoring and communication capabilities
- Two multidisciplinary treatment teams — intensivist, postdoctoral fellow, residents, the patient's nurse, respiratory care practitioner, clinical pharmacologist and nutritionist, as well as medical students — conduct daily patient care rounds.
- Dedicated full-time infectious disease physician
- A unit-based research office to facilitate patient enrollment in clinical studies
- Nursing staff honored with coveted Beacon Award for Critical Care Excellence

The expansion project at Cooper is a direct reflection of the growth in services that Cooper has experienced over the past several years.
The Cooper Campus
and Surrounding Area (continued)

**MD Anderson Cancer Center at Cooper**

Cooper University Health Care and MD Anderson Cancer Center at Cooper have formed a partnership to provide cancer patients in the region with access to the most advanced cancer treatments available. MD Anderson, located in Houston, Texas, has been ranked the #1 cancer hospital according to U.S. News & World Report’s “Best Hospitals” survey 9 of the past 11 years. MD Anderson also ranks first in the number of research grants awarded and total amount of grant funds given by the National Cancer Institute.

We are combining the best cancer care in South Jersey with the #1 cancer program in the country to foster a remarkable opportunity for our patients and their families. In the Fall of 2013, Cooper Cancer Institute opened a new state-of-the-art, $100 million, four-story building on the Health Sciences Campus in Camden expanding access to outstanding cancer care.

Cooper’s commitment to clinical and research excellence will continue to fuel growth in the coming years with the opening of the MD Anderson Cancer Center at Cooper and our new four-year allopathic medical school CMSRU. These endeavors will be supported by the success and recognition that Cooper has earned for the growth of its many Centers of Excellence, including: the Cooper Heart Institute, Cooper Cancer Institute, Cooper Critical Care, Cooper Neurological Institute, Cooper Bone and Joint Institute and Cooper Radiosurgery Program, and the Cooper Trauma Center. The campus is located in the heart of the Camden’s business district. The academic medical center campus is easily accessible by car or public transportation—the commuter high-speed line and bus terminal are located a half-block from the campus. Cooper is a short walk or drive from the exciting Camden waterfront where the New Jersey State Aquarium, the River Sharks stadium, the USS New Jersey and Susquehanna Bank Center are located.

Cooper is conveniently close to Philadelphia. Just a mile long drive over the Benjamin Franklin Bridge or a ferry boat ride will put you at the doorstep of Philadelphia’s cultural, culinary and historic venues.

South Jersey also offers a range of living and entertainment options. Quaint towns such as Haddonfield and Collingswood are just 10 minutes away. The lights and action of Atlantic City and those other popular beach towns such as Cape May and Ocean City are a one-hour drive from Cooper.
The most up-to-date directions to Cooper University Hospital are available at CooperHealth.org/directions.