

# Orthopaedic Trauma Fellowship Program



## Our mission:

To Serve. To Heal.  
To Educate.

 **Cooper**  
University Health Care

 **Cooper Medical School**  
of Rowan University

# Welcome



*Rakesh P. Mashru, MD*  
*Program Director*

Thank you for your interest in the Orthopaedic Trauma Fellowship at Cooper Medical School of Rowan University and Cooper University Hospital Program.

The Trauma Center at Cooper University Health Care was established in 1982 and is one of only three New Jersey State-Designated Level I Trauma Centers verified by the American College of Surgeons, the highest national recognition possible. Cooper serves as the regional Trauma Center for southern New Jersey and is the only hospital in the Delaware Valley that provides trauma care for both adults and children. Our Trauma Center cares for severely injured patients involved in motor vehicle crashes, falls, industrial accidents, and acts of violence. While a member Cooper's Orthopaedic Trauma team, a vital component of caring for patients with traumatic injuries, you will have the opportunity to experience a blend of trauma that is both complex and more routine. You will frequently be asked to demonstrate independent clinical judgement and you should expect to function within a certain degree of autonomy.

At Cooper, we understand that the practice of Orthopaedic Trauma relies heavily on a multidisciplinary approach to patient care, necessary to achieve the best clinical outcomes. You will learn that achieving comprehensive, progressive care requires a large effort on the part of many specialties to get our patients and their families through this very difficult time. This team approach necessitates all clinical staff working collectively, throughout the hospital, in a collegial and collaborative fashion. We hope you will do your part to make our service the best in the country.

**Rakesh P. Mashru, MD**  
*Director, Orthopaedic Trauma Fellowship*  
*Assistant Professor of Orthopaedics*

to serve

## Educational Experience



**The educational program  
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The program consists of protected education time of no less than four hours per week.

- 1) Daily Fracture Conference (30 minutes)
- 2) Tuesday Orthopaedic Grand Rounds (1 hour)
- 3) Friday Core Curriculum (1 hour)
- 4) Journal Club, every other month (1-2 hours)

### Daily Fracture Conference

On a daily basis, a 30-minute morning Fracture Conference is scheduled, free of clinical duties, to review and discuss fracture cases in an interactive, educational manner.

New fracture cases admitted from the prior day will be presented and treatment plans formulated including discussion of surgical indications. Surgical cases from the prior day will be reviewed and critiqued in a constructive manner.

### Tuesday Morning Conference

Every Tuesday, following daily fracture conference, dedicated time for orthopaedic grand rounds. The grand rounds is a CME approved (one credit per week) educational conference that covers a wide range of subjects including clinical orthopaedic surgery, ethics, safety, basic science (biomechanics, bone metabolism), and pain. The Fourth Tuesday of each month is Morbidity and Mortality Conference. In this conference, all relevant cases are reviewed and cases of special interest will be presented in detail including a discussion of the literature. Root Cause Analysis and Evidence-Based Medicine will be discussed as part of M&M conference with attempt and correction of any identified errors in judgement or treatment. Additionally, the fellow will present two power point presentations for Tuesday Orthopaedic Grand Rounds.

### Friday Core Curriculum

Core curriculum lectures are protected educational time and take place on Friday mornings prior to Orthopedic Trauma Clinic. The fellow's curriculum will be used for education, and the fellow and assigned attending will discuss the topic with a format to be chosen by the fellow and staff physician. Three to four topics per month will be covered. Each topic of the core curriculum will be under the direction of the one member of the Orthopaedic Trauma Fellowship faculty. The core curriculum time will include case presentation and discussion, review of textbook material, and review of in training questions with discussion. Each block, a new section leader will be assigned and is responsible for both direct instruction and oversight. Either the section leader or an outside lecturer of their choice can provide the didactic leadership. Section leaders, with the help of the program director, are responsible for confirming speakers. At the end of each section, a journal club will be held on the last Friday of the month under the direction of the section leader.

## Educational Experience



**The Orthopaedic Trauma  
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### Journal Club

Journal Club will be held every other month at the end of each section of the core curriculum. The fellow is responsible for organizing the Journal Clubs along with the senior residents. Appropriate articles will be chosen with attending surgeon input and the fellow will decide on the format for the conference and lead the discussion. The Journal Club will be held on the last Friday of the month beginning at 5 p.m.

### Gross Anatomy Dissections

Each spring, cadavers will be available as part of the medical school musculoskeletal curriculum. Fellows will be instructed in pertinent surgical anatomy and will be expected to participate in the education of the medical students. Anatomic dissections will be under the direction of the assigned faculty member for the week for the musculoskeletal curriculum. Fellows are required to complete the basic education from the PRIME Curriculum.

### On Call

Fellows will take call three to four weeknights per month with an attending that has trauma privileges. The fellow will also take two weekend days on call with an orthopaedic trauma attending. The fellow's responsibilities include speaking with the resident on-call and formulating a treatment plan prior to notifying the attending. The fellow is further responsible for executing the definitive management of the patient and elucidating a post-operative plan.

### Outpatient Clinics

Fellows will have one half-day of clinic per week. This clinic time will allow for long term follow-up, evaluation, and work-up of referred malunion and non-union cases. This clinic allows the fellow the opportunity to follow multitrauma patients in the immediate post-operative period and guide the rehabilitation process.

### Operating Room

Fellows will be assigned to the orthopedic trauma room (fracture room) on Monday, Tuesday, Wednesday, and Thursday. They may also spend time in the operating room with faculty not on the trauma service should the fellow wish to gain more specific experience a specific area. The fellow's level of function will be commensurate with their ability.

### Research

Fellows will be encouraged to develop and pursue independent projects and/or may participate in other on-going research. Support includes time, space, computer/statistical aid, equipment, supplies, trained orthopaedic technicians to facilitate projects, and the support of the attendings. Fellows are expected to engage actively in anatomic dissections and clinical/basic science research. The fellowship will require one completed manuscript ready for submission prior to graduation.



## Faculty



The wide variety of clinical cases will allow the fellow to be comfortable with the principles needed to treat patients with all types of orthopaedic trauma and fractures.

Under the mentorship of three full-time orthopaedic trauma surgeons, two hand surgeons, one foot and ankle surgeon, one orthopaedic oncologist, and other subspecialty-trained orthopaedic surgeons, the fellow will be involved in the routine assessment, evaluation, and formulation of treatment plans with management strategies for orthopaedic trauma patients. The wide variety of clinical cases will allow the fellow to be comfortable with the principles needed to treat patients with all types of orthopaedic trauma and fractures.



**Kenneth W. Graf, MD**  
Director, Orthopaedic Trauma  
Assistant Professor of Orthopaedic Surgery



**Rakesh P. Mashru, MD**  
Director, Orthopaedic Trauma Fellowship Program  
Assistant Professor of Orthopaedic Surgery



**Henry J. Dolch, DO**  
Assistant Professor of Orthopaedic Surgery

to heal

## Learning Experience



### Library hours:

Monday–Thursday:

8:30 a.m.–8:30 p.m.

Friday:

8:30 a.m.–5 p.m.

Saturday:

10:00 a.m.–5 p.m.

### Library Services

The CMSRU Library provides a wide range of information resources and services. The collection reflects the demand for access to electronic materials with 6,000 e-journals and 2,000 e-books. The library maintains a small print collection of textbooks and review books as well as AV board review materials. Both collections are supplemented by an active and efficient document delivery service. Reference librarians can help users with quick searches and do-it-yourself search training. The librarians also perform expert, comprehensive searches of databases and internet resources on request.

Library resources are accessed through the library website. The library offers 40 public computers, with three printers and a scanner. The library is located on the ground floor of the hospital in the Roberts Pavillion. House staff may be admitted, via a badge swipe system, to the library's computer center after regular library hours.

### Research Institute

The Cooper Research Institute (CRI) provides focused administrative and financial support for research to the Cooper Health System. CRI provides researchers with regulatory-mandated education, biostatistical support, and guidance through the Institutional Review Board. The institute helps researchers secure grants from government agencies, foundations, and industry, allowing them to continue Cooper's long history of medical research.

Cooper faculty members conduct over 400 NIH foundation- and industry-sponsored clinical trials each year. Through basic and clinical research, researchers provide thousands of South Jersey patients access to cutting-edge treatment in the fields of cancer, cardiovascular disease, critical care medicine, diabetes, orthopaedics, stroke, and surgery.

# to educate

## How to Apply



### Contact Information

*Director:*

**Rakesh P. Mashru, MD**

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cooperhealth.edu/fellowships/  
orthopaedic-trauma

*Address:*

Cooper University Hospital  
Orthopaedic Trauma Fellowship  
Three Cooper Plaza, Suite 408  
Camden, NJ 08103

The Orthopaedic Trauma Fellowship at the Cooper Medical School of Rowan University and Cooper University Hospital participates in San Francisco Match Service and all information is processed through this system without exception. Information regarding the San Francisco Match application process and timeline is available on the websites below.

### San Francisco Match

[www.sfmach.org](http://www.sfmach.org)

[www.ota.org](http://www.ota.org)

- Common application
- Curriculum vitae
- Medical school transcript
- Three original letters of recommendation, one of which must be from your current or most recent training director
- Personal statement describing your training goals and future career plans
- USLME reports (1, 2 and 3).

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

### Program Eligibility

Eligibility for the Orthopaedic Trauma Fellowship Program requires that applicants must have completed an ACGME accredited residency and be ABOS eligible.

Individuals accepted for a position in the fellowship program must be a U.S. Citizen, classified as a resident alien, or hold a J-1 Visa.

Please visit the SF match or OTA website for application deadlines.

## The Cooper Campus and Surrounding Area



**The expansion project  
at Cooper is a direct  
reflection of the growth  
in services that Cooper  
has experienced over  
the past several years.**



Cooper University Health Care is the leading academic health system in South Jersey. Since 1887, Cooper has been providing quality health care to the people of Camden County and South Jersey. When it comes to care, Cooper's experts treat minor problems, critical illnesses, and major traumas with the same level of excellence. These experts will train you – the medical professionals of the future – while together as colleagues providing our patients with comprehensive, compassionate care today. It's more than just medicine, it's our mission.

Located across the Delaware River from Philadelphia, Cooper University Health Care has more than 7,500 employees, including more than 1,250 nurses and 630 physicians in more than 75 specialties. As one of the most trusted health systems in the region, Cooper offers patients quality health care from primary care to specialty care in one or more of its premier Institutes and Centers of Excellence. In 2018, Cooper received 28,716 hospital admissions, 80,802 Emergency Department visits, 46,511 visits to our Urgent Care Centers, and more than 1.6 million outpatient visits. Our teams saw 23,110 surgical cases, 3,766 trauma cases, and more than 123,000 combined inpatient and outpatient cancer visits.

Cooper University Hospital is the center of a growing Camden Health Sciences Campus that includes MD Anderson Cancer Center at Cooper, Sheridan Pavilion at Three Cooper Plaza medical offices, Cooper Medical School of Rowan University (CMSRU), internationally acclaimed Coriell Institute for Medical Research, and the Ronald McDonald House of Southern New Jersey. Cooper is proud to be a catalyst working to transform our community for the better.

The hospital's 312,000-square-foot, 10-story Roberts Pavilion features technologically advanced operating room suites with hybrid imaging capabilities, an advanced laboratory automation facility, and the 25,000-square-foot Dr. Edward D. Viner Intensive Care Unit—featuring 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 considered too medically unstable for transport to the operating room. We are proud to be the first in the nation to provide advanced surgical trauma training to the United States Army Elite Forward Resuscitation Surgical Team.

As South Jersey's only Level 1 Trauma Center and Level II Pediatric Trauma Center, Cooper provides critically ill patients with life-saving care. Cooper's two medical transport helicopters have 24/7 access to a helipad with the latest lighting, snow-melting capabilities, and automatic drainage to prevent icing. Our recently-expanded Emergency Department includes state-of-the-art exam rooms and an iTrack system to improve the flow of patients through the ED, reducing patient wait times. Additionally, designated floors within the hospital serve specific patient populations, including those needing advanced surgical and heart care, along with South Jersey's only dedicated 30-bed inpatient cancer unit.



## The Cooper Campus and Surrounding Area, *continued*



Cooper University Health Care and MD Anderson Cancer Center in Houston, Texas, partnered in 2013 to create MD Anderson Cancer Center at Cooper. Our partnership is a full clinical integration between the two programs. MD Anderson at Cooper physicians adhere to the same philosophy, protocols, and guidelines set by MD Anderson in Houston, and patients receive the same proven practice standards and treatment plans provided at MD Anderson. Today at MD Anderson at Cooper, patients have access to more clinical trials for more types of cancer than ever before, as well as a full range of supportive care services. Additionally, Cooper's Center for Special Diagnostics, located in our Education and Research Building, includes molecular pathology, flow cytometry, and cytogenetics, enhancing Cooper's ability to provide genomic testing for cancer patients at Cooper.

CMSRU's Medical Education Building is located on the Cooper Health Sciences Campus on South Broadway, between Benson and Washington Streets. The medical school, which opened in July 2012, was designed to support an innovative curriculum that integrates knowledge of basic science concepts, early clinical experience and patient care, self-directed learning, teamwork, and medical and non-medical activities for the greater community's benefit. It was featured in U.S. News and World Report's ranking of the 10 U.S. medical schools with the lowest acceptance rates in fall 2018. It received 6,708 applications and admitted only 203 students, for an acceptance rate of 3%. In 2019, 100% of medical students matched with a residency program.

The Cooper Health Sciences Campus is located in the heart of Camden's business district. The academic medical center campus is easily accessible by car or public transportation via the PATCO and bus terminal adjacent to the hospital. Public transportation options offer convenient access to Philadelphia's cultural, culinary, and historic venues, as well as a range of living and entertainment options in South Jersey, including walkable communities such as Haddonfield and Collingswood.

Cooper is a short walk or drive from the exciting Camden waterfront, which includes a magnificent waterfront park and marina; the Adventure Aquarium; and the BB&T Pavilion, which hosts nationally renowned entertainment throughout the year. Nearby are the 76ers Training Complex, L3 Communications complex, Rutgers University Camden Campus, Rowan University, and Camden County College. There are expected to be \$350M in transportation and infrastructure improvements within the next four to five years to handle the influx of thousands of new employees to the area and students at nearby growing academic campuses.

Cooper is proud to be part of the transformation of our community. Employment in the city of Camden has increased 24.7% in the past few years, with 55.4% of those jobs in the health care and education sectors. And our neighborhoods are safer: the crime rate is at a 50-year low, thanks to an aggressive community policing program.

Cooper University Health Care is growing and changing lives. We invite you to be part of our mission: To serve. To heal. To educate.

# Cooper Camden Campus Map



The most up-to-date directions to Cooper University Hospital are available at:  
[CooperHealth.org/Locations](http://CooperHealth.org/Locations)



One Cooper Plaza · Camden, NJ 08103-1489 · [CooperHealth.edu](http://CooperHealth.edu)

Hospital Main Number: **856.342.2000**

Graduate Medical Education: **856.342.2922**