

THE OHIO STATE UNIVERSITY

# Department of Orthopaedics

## Hand Surgery Fellowship Program



**THE OHIO STATE UNIVERSITY**

WEXNER MEDICAL CENTER



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#### Faculty

Jonathan Barlow, M.D.  
Kanu Goyal, M.D.  
Sonu Jain, M.D.  
James Popp, M.D.  
Michael Ruff, M.D.  
Julie Balch Samora, M.D.  
Marlo Van Steyn, M.D.

# W elcome to the Hand and Upper Extremity Surgery Program

Excellence in patient care, research, and education is the overall goal of the Department of Orthopaedics at The Ohio State University. The hand fellowship training program is committed to a process of maturation in the pursuit of knowledge, and the development of intellectual capacity leading to a life-long commitment to the fundamentals of a career in hand surgery. Fellows will be exposed to the full spectrum of adult and pediatric clinical activities, teaching, and research.

The Department of Orthopaedics at The Ohio State University is committed to a Teaching program that includes a comprehensive didactic program in which all areas of Hand and Upper Extremity are represented. The curriculum allows the fellow to be involved with all Orthopaedic hand surgery faculty as well as plastic surgery faculty. The variety of styles in the management of upper limb problems, surgical indication, patient/physician relationships, charting/documentation, and billing methods that exist in this broad spectrum of practices offers an experience that is truly a mosaic.

Fellows are treated as individuals, are encouraged to develop excellence, are held accountable for their personal professional development, and finally, have the great reward of knowing that they are part of an ongoing process of inquiry and discovery. Musculoskeletal health and well-being will continue to grow in demand, requiring practitioners committed to excellence in patient care, the quest to investigate and expand the ever-broadening horizons of technology. Upon completion of the program the fellow will be qualified to sit for the hand surgery CAQ.

## E ducational Mission

The training faculty members of The Ohio State University Hand and Upper Extremity Fellowship and Plastic Surgery Residency Program are committed to the education of all fellows and wish to prepare these physicians to function as well-qualified, independent specialists. We believe that fellows require training in basic science, and clinical care as it relates to orthopaedics. Our role as educators is to instill trainees with those traits essential to success including honesty and integrity, objectivity, self-motivation, curiosity, timeliness, and a sense of responsibility.

## *The OSUMC Hand & Upper Extremity Center*



The OSU Hand and Upper Extremity Center is a comprehensive center that treats all ages and includes the surgical and nonsurgical management of traumatic and acquired conditions. The center opened in March 2010 within the OSU Eye and Ear Institute building and is located just adjacent to the Medical Center campus (1.1 miles from University Hospital; approx 3-4 minutes driving time). This is a state of the art facility with custom-designed space for the Hand faculty.



It is fully supported by the institution as a hospital-based clinical site. The building includes a total of 137,500 square feet with 13,000 square feet dedicated to the Hand and Upper Extremity Center on the third floor. The Center includes exam rooms, treatment rooms, Occupational/physical therapy space, a conference room and faculty offices.

In addition, the first floor of the building includes an Outpatient Surgery Center with six outpatient operating rooms. This site is the location for the majority of the surgery for the Hand service. The facility also boasts exemplary conference facilities.



# *The Orthopaedic Hand Surgery Fellowship Program*

The Orthopaedic Hand Surgery Fellowship program is a one-year training program which is fully accredited by the Accreditation Council on Graduate Medical Education. It is currently accredited to accept one fellow each year.

**The program's parent institution is The Ohio State University Hospital/Ohio State University Hospitals East.** An additional hospital, Nationwide Children's Hospital & Riverside Methodist Hospital collaborate with the parent institution to provide each fellow with an outstanding pediatric hand experience.

The fellowship program consists primarily of rotations with the core orthopaedic and plastic surgery faculty.

Goals and objectives for each rotation have been identified and assist the training faculty in evaluating the fellow's progress. All fellows receive written evaluations upon the completion of each rotation. The fellow meets with the Program Director semi-annually to evaluate their progress.

As the OSU Medical Center is a teaching hospital with an affiliated college of medicine, fellows are also given the responsibility of teaching the nearly one hun-

dred 3rd and 4th year medical students who rotate through orthopaedics each year as well as the 30 orthopaedic residents currently in the orthopaedic residency program. There are also 10 residents currently in the plastic surgery residency program.

Research is also an important component of the Hand Surgery Fellowship program. Each fellow is required to complete, present, and submit a book chapter or case report for publication in a peer-reviewed journal prior to completion of the fellowship. In addition, the fellow will collaborate on on-going research projects underway in the division. Research projects are presented at the annual Mallory-Coleman Research Day. Ample time is provided to the fellow throughout the program to complete their project.

Several benefits are extended to the fellow from the both the hospital and the department. In addition to routine patient care services such as transportation, transfusion, etc., the medical center also provides all fellows with state of the art call room facilities, meal stipends, lab coats, and laundry and dry cleaning services. In addition, the Department provides time off for vacations as well as financial support and time off to attend national conferences.

## *Affiliated Training Sites - Nationwide Children's Hospital & Riverside Methodist Hospital*

Nationwide Children's Hospital and Riverside Methodist Hospital/OrthopaedicOne also serve as a training sites for the hand surgery fellowship program.

Already the fifth largest children's hospital in the U.S. and among the top ten in National Institutes of Health-funded free-standing pediatric research centers, Nationwide Children's Hospital serves as the free-standing children's hospital for all of central and southeastern Ohio. Nationwide Children's Hospital also receives hundreds of specialty referrals from throughout the United States and worldwide. The American College of Surgeons certifies Nationwide Children's as a Level 1 Trauma Center. The dedicated Paul R. Miller Orthopaedic Library is an up-to-date resource for all educational needs. Administrative support is available. Research resources and funding are available and animal research is available

Riverside Methodist Hospital is a not-for-profit, charitable, healthcare organization. It is large Level II trauma center providing a very high volume of orthopaedic cases to the residents and fellows. It is consistently recognized as a one of the top large health systems in the United States.

OrthopaedicOne is very large private practice surgery center based in Columbus. With over 50 orthopaedic surgeons on staff, OrthopaedicOne provides a very large volume of orthopaedic cases in a community setting.

# *The Hand and Upper Extremity Faculty*

Fellows will rotate among seven busy hand surgery faculty, with exposure to additional hand surgery faculty within the Orthopaedics and Plastic Surgery departments.

Fellows are also afforded the services of several Ph.D. researchers in order to assist them with their research endeavors. The department currently employs a Ph.D. researchers in Biomaterials, Biomechanics, Mechanical Engineering. Opportunities in Equine Musculoskeletal Medicine also exist with the College of Veterinary Medicine. Fellows also have access to research support team which includes a grants manager, a publications manager, and a research manager.

*Core Hand and Upper Extremity Faculty are as follows:*

Hisham Awan, M.D.—Program Director  
Jonathan Barlow, M.D.  
Kanu Goyal, M.D.  
Sonu Jain, M.D.  
James Popp, M.D.  
Julie Balch Samora, M.D.  
Marlo Van Steyn, M.D.

## *Conferences*

### **J**ournal Club

Journal club is a required monthly educational activity which is used to help the residents and fellows develop the skills needed to use information technology in order to locate, appraise, and assimilate evidence from scientific studies and apply it to their patients' health problems. Fellows will be responsible for using information technology to search the literature in order to identify, appraise, and select appropriate articles to discuss during each journal club. Fellows will be expected to critically review the articles and appraise and assimilate the clinical information. Fellows will be specifically assigned articles and are required to provide a review of the assigned article as well as a review of the relevant literature.

### **W**eekly Hand Conference

The fellow will attend and present at a weekly hand surgery teaching conference. The fellow will attend and present at a weekly x-ray conference along with orthopaedic residents. The fellow will attend a weekly didactic conference on anatomy, biomechanics, and specific topics related to hand and upper extremity along with orthopaedic residents.

### **A**dditional Conferences/Opportunities

The fellow will complete a laboratory course taught by the program director along with the microsurgery faculty on proper microsurgical technique. In addition, the fellow will attend a course on AO Technique and will attend the American Society for Surgery of the Hand annual meeting or another education meeting sponsored by the AAOS.

## *Educational Program*

- The fellow will take call at a Level 1 Trauma Center and will participate in both emergent and elective surgical treatment of wounds using conventional as well as microsurgical techniques and participate in the treatment of amputations and mangling and devascularizing injuries to the hand and upper extremity.
- Fellow will observe, diagnose and treat all types of emergent fingertip injuries including direct closure, amputation, and delayed reconstructive techniques
- Fellow will diagnose and treat acute and chronic flexor tendon injuries and employ appropriate surgical treatment for primary repair, delayed treatment including tenolysis and staged tendon reconstruction
- Fellow will diagnose peripheral nerve injuries and understand surgical planning for proposed tendon transfers. Fellow will carry out all common tendon transfers and at the direction of the Faculty and will learn proper surgical technique for such transfers.
- Fellow will gain experience in treatment of both acute nerve laceration as well as delayed nerve grafting and reconstruction using microsurgical techniques. Fellow will demonstrate competency in the diagnosis and, both operative and non-operative management of peripheral nerve compression neuropathies.
- Fellow will treat emergent fractures of the hand and upper extremity while on call. Fellow will understand fracture pathomechanics, classification systems and both appropriate operative and non-operative treatment of fractures of the hand, wrist, forearm and elbow.
- Fellow will understand the indications and techniques of both autologous bone graft and synthetic bone graft substitutes. Fellow will participate with the Hand Surgery Faculty in preoperative planning and operative techniques for reconstructive osteotomy.
- The treatment of both osteoarthritis as well as inflammatory arthritis as it pertains to the joints of the hand, wrist and elbow will include techniques in arthrodesis, joint repair, and arthroplasty
- Fellow will treat acute thumb injuries while on call. Fellow will understand the treatment options for delayed thumb reconstruction including both conventional as well as microsurgical techniques and will participate with the Faculty on surgical cases. Fellow will have the opportunity to participate at Nationwide Children's Hospital in the treatment of pediatric hand and thumb disorders.
- Fellow will understand the diagnosis, including use of appropriate imaging, and treatment of osteonecrosis as well as nonunion of carpal bones. Fellow will gain experience at the direction of the Faculty in the use of conventional bone grafting techniques as well as vascularized grafting techniques.
- Fellow will diagnose and treat all common tumors of the hand and upper extremity. Fellow will have the opportunity to participate with the Director of Musculoskeletal Oncology in the preoperative planning and surgical treatment of malignant tumors of the upper extremity including limb salvage techniques.
- The diagnosis and treatment of compartment syndrome as well as all types of infection of the digit, hand, wrist and forearm will be taught by the Hand Surgery Faculty.
- The fellow will rotate at the Nationwide Children's Hospital where s/he will rotate in the pediatric hand clinic and participate in reconstructive surgical procedures.
- Fellow will participate in the treatment of thermal injuries at the Ohio State University Hospital's Regional Burn Unit with the direction of the Hand Surgery of Plastic Surgery Faculty.

## Applying for the Fellowship Program

The Universal Hand Surgery Fellowship Application will be accepted.

The deadline for applications is December 31. Interviews will be held in Columbus in January, February, or March.

*The following must be submitted with application in order to be considered for our program:*

- \* Universal Hand Surgery Fellowship Application
- \* Personal Statement
- \* Three or four letters of recommendation
- \* USMLE Transcript
- \* Medical school Transcript

## For more information...

Please visit our website at [www.ortho.ohio-state.edu](http://www.ortho.ohio-state.edu) for more information on the fellowship program or contact the Education Program Manager at [Julia.Panzo@osumc.edu](mailto:Julia.Panzo@osumc.edu) or (614) 293-6194.

We're on the web  
[www.ortho.ohio-state.edu](http://www.ortho.ohio-state.edu)

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## Benefits Overview

### Institutional/University

- ✓ Competitive Salary
- ✓ Comprehensive Medical, dental, & vision
- ✓ Disability coverage
- ✓ Retirement plans
- ✓ Flexible spending accounts
- ✓ Malpractice Insurance (\$1,000,000 per occurrence)
- ✓ On-call meal stipend
- ✓ On-call suites
- ✓ Two lab coats per year
- ✓ Laundering of lab coats
- ✓ Limited dry cleaning services

### Departmental

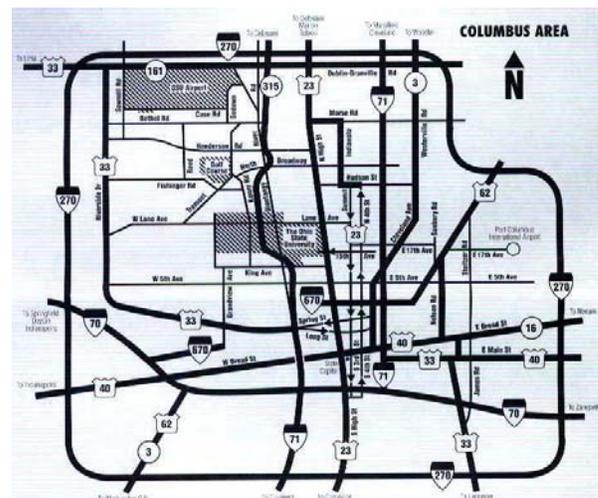
- ✓ 3 Weeks paid vacation
- ✓ One week professional leave with pay for attendance at National or International conference
- ✓ Stipend of \$1500 or \$2000 each year to attend national/international conference

## About Columbus

Columbus is the largest city in Ohio, the 15th largest in the United States and the fastest growing city in the northeast quadrant. Columbus has a population of more than 700,000 residents and a metropolitan area of more than 1.5 million people. It is within 550 miles of more than one half of the nation's population, meaning Columbus is less than one day's drive for many U.S. residents. Columbus is a financially prosperous community. Of the nation's 25 largest cities, only Columbus and Dallas, Texas, have achieved a AAA rating from both Moody's and Standard and Poor's.

Columbus is home to countless cultural and sporting events. The Columbus Symphony Orchestra, Ballet-Met, the Columbus Association of Performing Arts and COSI, the Center for Science and Industry are just a few of the cultural organizations which thrive in Central Ohio. Columbus also hosts two major league sports franchises, the Columbus Crew Major League Soccer and the newest franchise in Major League Hockey, the Columbus Blue Jackets. Columbus is proud to host the Memorial Golf Tournament at Muirfield Village and the New Albany Classic LPGA tournament. Then of course, there are the Ohio State Buckeyes, who excel in all NCAA sports. Go Bucks!

Columbus is also home to several leading institutions of higher education. The Ohio State University, Franklin University, Capital University Law School, Otterbein University, Ohio Dominican, and Columbus State all offer first class education to thousands of students each year.





## **Department of Orthopaedics**

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