Department of Orthopaedic Surgery

Orthopaedic surgery is concerned with the injuries, diseases and conditions of the musculoskeletal system. The WUSM III rotation in Musculoskeletal Surgery & Medicine exposes the student to multiple aspects of orthopaedic surgery, including caring for patients in the emergency department and the operating room as well as clinical practice in the emergency department and the outpatient and inpatient wards.

Website: http://www.ortho.wustl.edu

Faculty

Regis O'Keefe, MD, PhD (https://www.ortho.wustl.edu/content/Patient-Care/3683/FIND-A-PHYSICIAN/Physician-Directory/Regis-OKeefe-MD/Bio.aspx)
Department Chair
Visit our website for more information about our faculty (http://www.ortho.wustl.edu/content/Patient-Care/2295/Find-a-Physician/Physician-Directory.aspx) and their appointments.

Yousef Abu-Amer, PHD, MS
Dr J Albert Key Professor of Orthopaedic Surgery (primary appointment)
Professor of Cell Biology and Physiology
BS Hebrew University 1985
PHD Hebrew University 1993
MS Hebrew University 1987

Muyibat A Adelani, MD
Assistant Professor of Orthopaedic Surgery (primary appointment)
MD Vanderbilt University 2008

Alexander William Aleem, MD
Assistant Professor of Orthopaedic Surgery (primary appointment)
MD Washington Univ in St. Louis 2010
BS Johns Hopkins University 2006

Jonathon David Backus, MD
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BS University of Urbana IL 2005
MD Duke University 2010

Robert L Barrack, MD
Charles F and Joanne Knight Distinguished Professor of Orthopaedic Surgery (primary appointment)
MD Vanderbilt University 1980

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MD Washington Univ in St. Louis 1975
BA Washington Univ in St. Louis 1971

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MD Vanderbilt University 2008

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BS Allegheny College 2003
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MD University of Toronto 1988
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Professor of Neurological Surgery
MD Washington Univ in St. Louis 1977
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MS University College London 2004
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Professor of Orthopaedic Surgery (primary appointment)
BS Stanford University 1994
BA Stanford University 1994
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MS Stanford University 1995

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Professor of Neurological Surgery
MS Yale University 1996
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BS Yale University 1996

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M PH University of Miami 2008
BS University of Miami 2004
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BA University of North Carolina 1965
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MD Cornell University 2013

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Professor of Biomedical Engineering
Professor of Developmental Biology
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MPH Columbia University 1990
PHD Columbia University 1992
BS Rensselaer Poly Institute 1985
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BA Williams College 2002
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M
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BS Clemson University 2004
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BS Dartmouth College 1999
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BS St Johns University 1978
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MD Harvard University 1985
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MD Saint Louis University 1975
BA Saint Louis University 1971

Muhammad Farooq Rai, PHD
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Elizabeth Yanik Rowlands, PHD, SCM
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PHD University of North Carolina 2013
SCM Johns Hopkins University 2009
BS University of Maryland 2007

Perry Lee Schoenecker, MD
Professor of Orthopaedic Surgery (primary appointment)
BS Univ of Wisconsin Madison 1964
MD Univ of Wisconsin Madison 1968

Girdhar G Sharma, BS1, MS1, PHD1
Instructor in Orthopaedic Surgery (primary appointment)
BS1 Banaras Hindu University 1990
MS1 Banaras Hindu University 1992
PHD1 Banaras Hindu University 2000
Hua Shen, PHD, MD, MS  
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PHD University of Konstanz 2002  
MD Capital U of Medical Sciences 1991  
MS Chinese Academy of Med Science 1996  

Jie Shen, MS, PHD  
Assistant Professor of Orthopaedic Surgery (primary appointment)  
MS University of Rochester 2011  
PHD University of Rochester 2012  
BS Nanjing University 2005  

Matthew J Silva, PHD, ME  
Julia and Walter R Peterson Professor of Orthopaedic Research (primary appointment)  
Assistant Professor of Biomedical Engineering  
Professor of Mechanical Engineering and Materials Science  
PHD Mass Inst of Technology (MIT) 1996  
ME Cornell University 1984  
BS Cornell University 1982  

Scott A. Simpson, MD  
Assistant Professor of Orthopaedic Surgery (primary appointment)  
Assistant Professor of Neurology  
BA Columbia University 2005  
MD University of Rochester 2010  

Matthew Vernon Smith, MD  
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Gaurav Swarnkar, PHD  
Instructor in Orthopaedic Surgery (primary appointment)  
PHD CENTRAL DRUG RESEARCH INSTITUT 2011  

Chi-Tsai Tang, MD  
Associate Professor of Orthopaedic Surgery (primary appointment)  
Associate Professor of Neurology  
MD University of North Carolina 2004  

Simon Tang, PHD, MS  
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Associate Professor or Mechanical Engineering and Materials Science  
BS University of CA Berkeley 2003  
PHD Rensselaer Poly Institute 2007  
MS Rensselaer Poly Institute 2005  

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Assistant Professor of Orthopaedic Surgery (primary appointment)  

Susan Thapa, PHD  
Instructor in Orthopaedic Surgery (primary appointment)  
Instructor in Surgery (Public Health Sciences)  
BS Dhaka University 2009  
PHD University of AR Med Sciences 2018  

Y  

Ken Yamaguchi, MD, MS  
Professor of Orthopaedic Surgery (primary appointment)  
MD George Washington University 1989  
BA University of California 1983  
MS University of California 1985  

Z  

Benjamin Matthew Zmistowski, MD  
Assistant Professor of Orthopaedic Surgery (primary appointment)  
MD Jefferson Medical College 2014  

**Research Electives**  
**Orthopaedic Surgery Research Electives**  

During the fourth year, opportunities exist for many varieties of advanced clinical or research experiences.  

Various orthopaedic surgery research opportunities are available with the following faculty attendings. If interested, please contact the Education Office at 314-747-2543, email the orthopaedic surgery department (orthsurg@wudosis.wustl.edu), or contact the faculty member directly.  

- Yousef Abu-Amer, PhD  
- Alexander Aleem, MD  
- Robert L. Barrack, MD  
- Robert Brophy, MD  
- Jacob M. Buchowski, MD, MS  
- Ryan Calfee, MD  
- Aaron Chamberlain, MD  
- Cara A. Cipriano, MD  
- John Clohisy, MD  
- Matthew Dobbs, MD  
- Charles A. Goldfarb, MD  
- Farshid Guilak, PhD
M96 Ortho 820A Orthopedic Surgery Subinternship: Hand
Clinical elective available, during which the student will work with attending surgeons primarily at Chesterfield and Center for Advanced Medicine. The service includes care of adult patients with traumatic, sports (arthroscopy), nerve, and degenerative disease. Activities will include participation in outpatient procedures, attendance at faculty clinic office hours, and attendance at orthopedic conferences.

M96 Ortho 820B Orthopedic Surgery Subinternship: Hand
This is a clinical elective during which the student will work with the attending surgeon primarily at Barnes-Jewish Hospital. Activities will include participation in the care of hospitalized inpatients, participation in outpatient procedures, attention at designated attending office hours, attendance at designated orthopedic conferences, and dissection of upper-extremity anatomical specimens.

M96 Ortho 823A Orthopedic Surgery Subinternship: Hand/Pediatric Hand
Clinical elective available during which time the student will work with attending surgeons primarily at Barnes-Jewish Hospital, St Louis Children's Hospital, and Shriner's Hospital. The service includes care of adult and pediatric patients with congenital, traumatic, sports (arthroscopy), nerve, and degenerative disease. Activities will include participation in outpatient procedures, attendance at faculty clinic office hours, attendance at orthopedic conferences, and dissection of upper-extremity anatomical specimens.

M96 Ortho 823B Orthopedic Surgery Subinternship: Hand/Pediatric Hand
Clinical elective available during which time the student will work with attending surgeons primarily at St Louis Children's Hospital, Shriner's Hospital, Chesterfield, Center for Advanced Medicine and St. Louis Children's Specialty Care Center. The service includes care of adult and pediatric patients with congenital, traumatic, sports (arthroscopy), nerve, and degenerative disease. Activities will include participation in outpatient procedures, attendance at designated attending office hours, attendance at orthopedic conferences, and dissection of upper-extremity anatomical specimens.

M96 Ortho 825A Orthopedic Surgery Subinternship: Pediatric Hand
Clinical elective available during which the student will work with attending surgeons primarily at Barnes-Jewish Hospital, Shriner's Hospital, Chesterfield, Center for Advanced Medicine and South County. The service includes care of adult and pediatric patients with congenital, traumatic, sports (arthroscopy), nerve, and degenerative disease. Activities will include participation in the care of hospitalized inpatients, participation in outpatient procedures, attention at designated attending office hours, attendance at orthopedic conferences, and dissection of upper-extremity anatomical specimens.

M96 Ortho 825B Orthopedic Surgery Subinternship: Pediatric Hand
This is a clinical elective during which the student will work with the attending surgeon primarily at Chesterfield Center for Advanced Medicine. The service includes care of adult patients with traumatic, sports (arthroscopy), nerve, and degenerative disease. Activities will include participation in surgical cases, outpatient clinics, inpatient care and weekly didactic sessions/conferences. The rotation will cover general hand surgery as well as brachial plexus and peripheral nerve surgery. Activities will include participation in outpatient procedures, attendance at faculty clinic office hours, and attendance at orthopedic conferences.

M96 Ortho 827A Orthopedic Surgery Subinternship: Hand/Microsurgery
Clinical elective available during which time the student will work with attending surgeons primarily at Barnes-Jewish Hospital, Center for Advanced Medicine and the Chesterfield office. The service includes care of adult and pediatric patients...
with traumatic, sports (arthroscopy), nerve, and degenerative disease. Activities will include participation in outpatient procedures, attendance at faculty clinic office hours, and attendance at orthopedic conferences.

M96 Ortho 830A Orthopedic Surgery Subinternship: Shoulder/Elbow
Clinical elective available during which time the student will work with attending surgeons primarily at Barnes-Jewish Hospital. Activities will include participation in the care of hospitalized inpatients, participation in inpatient and outpatient procedures, attendance at designated attending office hours, attendance at designated orthopedic conferences, and dissection of upper-extremity anatomical specimens.

M96 Ortho 840A Orthopedic Surgery Subinternship: Trauma
Clinical elective available for a four-week period during which time the student will work in orthopedic trauma at Barnes-Jewish Hospital. The student will work with a team of attendings, residents, PAs, and NPs to provide care for orthopedic trauma patients. Activities include participation in the care of hospitalized inpatients, inpatient surgical procedures, outpatient office visits and daily conferences.

M96 Ortho 840B Orthopedic Surgery Subinternship: Trauma
Clinical elective available for a four-week period during which time the student will work in orthopedic trauma at Barnes-Jewish Hospital. The student will work with a team of attendings, residents, PAs, and NPs to provide care for orthopedic trauma patients. Activities include participation in the care of hospitalized inpatients, inpatient surgical procedures, outpatient office visits and daily conferences.

M96 Ortho 840C Orthopedic Surgery Subinternship: Trauma
This is a clinical elective available for a four-week period during which time the student will work in orthopedics trauma at Barnes-Jewish Hospital. The student will work with a team of attendings, residents, PAs, and NPs to provide care for orthopedic trauma patients. Activities include participation in the care of hospitalized inpatients, inpatient surgical procedures, outpatient office visits, and daily conferences.

M96 Ortho 850A Orthopedic Surgery Subinternship: Pediatrics
Clinical elective available for four weeks during which time the student will work with the attending surgeon primarily at St. Louis Children's Hospital observing and assisting in outpatient and inpatient care. To be included are activities in the OR, ER, and outpatient clinics. Attendance at and participation in the weekly pediatric orthopedic conference activities required.

M96 Ortho 850B Orthopedic Surgery Subinternship: Pediatrics
Clinical elective available for four weeks during which time the student will work with the attending surgeon primarily at St. Louis Children's Hospital observing and assisting in outpatient and inpatient care. To be included are activities in the OR, ER, and outpatient clinics. Attendance at and participation in the weekly pediatric orthopedic conference activities required.

M96 Ortho 860A Orthopedic Surgery Subinternship: Spine
This clinical elective is available for four weeks during which time the student will work with the attending surgeon primarily at Barnes-Jewish Hospital observing and assisting, when appropriate, in outpatient and inpatient care. To be included are activities in the OR, ER, and outpatient clinics. Attendance at and participation in the weekly orthopedic conference activities is required. The spine fellow assigned to this service will serve as a primary contributor to the student’s education experience on this rotation.

M96 Ortho 860B Orthopedic Surgery Subinternship: Spine
This clinical elective is available for four weeks during which time the student will work with the attending surgeon primarily at Barnes-Jewish Hospital observing and assisting, when appropriate, in outpatient and inpatient care. To be included are activities in the OR, ER, and outpatient clinics. Attendance at and participation in the weekly orthopedic conference activities is required. The spine fellow assigned to this service will serve as a primary contributor to the student’s education experience on this rotation.

M96 Ortho 860C Orthopedic Surgery Subinternship: Spine
This clinical elective is available for four weeks during which time the student will work with the attending surgeon primarily at Barnes-Jewish Hospital, Barnes-Jewish West County Hospital, and Washington University Orthopedics - Center for Advanced Medicine observing and assisting, when appropriate, in outpatient and inpatient care. To be included are activities in the OR, ED, and outpatient clinics. Attendance at and participation in the weekly orthopedic conference activities is required. The spine fellow assigned to this service will serve as a primary contributor to the student’s education experience on this rotation.

M96 Ortho 863A Orthopedic Surgery Subinternship: Pediatric Spine
Clinical elective available for four weeks during which time the student will work with the attending surgeon primarily at St. Louis Children's Hospital observing and assisting in outpatient and inpatient care. To be included are activities in the OR, ER, and outpatient clinics. Attendance at and participation in the weekly pediatric orthopedic conference activities required.

M96 Ortho 863B Orthopedic Surgery Subinternship: Pediatric Spine
Clinical elective available for four weeks during which time the student will work with the attending surgeon primarily at St. Louis Children's Hospital observing and assisting in outpatient and inpatient care. To be included are activities in the OR, ER, and outpatient clinics. Attendance at and participation in the weekly pediatric orthopedic conference activities required.

M96 Ortho 870A Orthopedic Surgery Subinternship: Joint Preservation & Reconstruction
Clinical elective available, during which time the student will work with the attending physician on the Adult Reconstruction and Joint Preservation/Replacement service. This rotation is primarily centered at Barnes-Jewish Hospital and includes care of hospitalized inpatients, participant in inpatient and outpatient procedures, attendance at designated office hours, and attendance at and participation in orthopedic educational conferences and anatomy sessions.
M96 Ortho 870B Orthopedic Surgery Subinternship: Joint Preservation & Reconstruction
Clinical elective available, during which time the student will work with the attending physician on the Adult Reconstruction and Joint Preservation/Replacement service. This rotation is primarily centered at Barnes-Jewish Hospital and includes care of young patients with hip impingement pathology and older patients with end stage joint arthritis, hospitalized inpatients, participant in inpatient and outpatient procedures, attendance at designated office hours, and attendance at and participation in orthopedic educational conferences and anatomy sessions.

M96 Ortho 870C Orthopedic Surgery Subinternship: Joint Preservation & Reconstruction
Clinical elective available, during which time the student will work with the attending physician on the Adult Reconstruction and Joint Preservation/Replacement service. This rotation is primarily centered at Barnes-Jewish Hospital and includes care of young patients with hip impingement pathology and older patients with end stage joint arthritis, hospitalized inpatients, participant in inpatient and outpatient procedures, attendance at designated office hours, and attendance at and participation in orthopedic educational conferences and anatomy sessions.

M96 Ortho 875A Orthopedic Surgery Subinternship: Joint Reconstruction
Clinical elective available, during which time the student will work with the attending physician on the Adult Reconstruction and Joint Preservation/Replacement service. This rotation is primarily centered at Barnes-Jewish Hospital and includes care of young patients with hip impingement pathology and older patients with end stage joint arthritis, hospitalized inpatients, participant in inpatient and outpatient procedures, attendance at designated office hours, and attendance at and participation in orthopedic educational conferences and anatomy sessions.

M96 Ortho 880A Orthopedic Surgery Subinternship: Oncology/Joint Reconstruction
Clinical elective available for four weeks, during which time the student will work with the attending physicians on the Musculoskeletal Oncology service. The student will participate in orthopedic conferences, outpatient clinics, surgical cases and patient rounds.

M96 Ortho 880B Orthopedic Surgery Subinternship: Oncology/Joint Reconstruction
Clinical elective available for four weeks, during which time the student will work with the attending physicians on the Musculoskeletal Oncology service. The student will participate in orthopedic conferences, outpatient clinics, surgical cases and patient rounds.

M96 Ortho 890 Orthopedic Surgery Externship
Students rotate on orthopedic services in four-week blocks. During their rotations, students are assigned to two different services for two weeks each. Students may rotate on a variety of subspecialties, including trauma sports medicine, hand and upper extremity, foot and ankle, musculoskeletal oncology, adult reconstructive surgery, pediatric orthopaedics, shoulder and elbow, and spine. For more information about the Orthopedic Surgery Externship Program, visit https://www.ortho.wustl.edu/content/Education/2905/Training-Programs/Med-Student-Programs/Externship-Program/Overview.aspx.

M96 Ortho 899 Special Study Elective: Orthopedic Surgery

M96 Ortho 899C Clinical Special Study Elective: Ortho

M96 Ortho 900 Research Elective: Orthopedic Surgery
Research opportunities may be available. Contact the Department of Orthopedic Surgery for additional information.