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

Degrees & Requirements

Although the Department of Orthopaedic Surgery does not offer its own degree, some of the department’s courses are open to students in the MD and MSTP (MD/PhD) programs. Further information about the MD and MSTP degrees can be found in the Degrees & Programs of the School of Medicine (http://bulletin.wustl.edu/medicine/degrees) section of this Bulletin.

Research

M95 Surgery 900

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
- Munish Gupta, MD
- Pooya Hosseinzadeh, MD
- Michael Kelly, MD
- Sandra Klein, MD
- Charles Lawrie, MD
- Scott J. Luhmann, MD
- Matthew J. Matava, MD
- Audrey McAlinden, PhD
- Chris McAndrew, MD
- Mark Miller, MD
- Jeff Neppele, MD
- Regis O’Keefe, MD
- Nathan Olafsen, MD
- Linda Sandell, PhD
- Perry Schoenecker, MD
- Matt Silva, PhD
- Matthew Smith, MD
- Lindley B. Wall, MD
- Rick Wright, MD

Faculty

Department Chair

Regis O’Keefe, MD, PhD

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.

A

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Professor of Orthopaedic Surgery (primary appointment)
Professor of Cell Biology and Physiology
MS Hebrew University 1987
BS Hebrew University 1985
PHD Hebrew University 1993

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

B

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Assistant Professor of Orthopaedic Surgery (primary appointment)
MD Duke University 2010
BS University of Urbana IL 2005

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

Donald R Bassman, MD
Instructor in Clinical Orthopaedic Surgery (primary appointment)
MD Washington Univ in St. Louis 1975
BA Washington Univ in St. Louis 1971

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Assistant Professor of Orthopaedic Surgery (primary appointment)
MD Vanderbilt University 2008

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MD Case Western Reserve Univ 2007
BS Allegheny College 2003

Ljiljana Bogunovic, MD
Assistant Professor of Orthopaedic Surgery (primary appointment)
MD Cornell University 2009

Martin I Boyer, MD, MS
Carol B and Jerome T Loeb Professor of Orthopaedic Surgery (primary appointment)
MD University of Toronto 1988
MS University of Toronto 1993

Keith Happ Bridwell, MD
J Albert Key Distinguished Professor of Orthopaedic Surgery (primary appointment)
Professor of Neurological Surgery
BA Washington Univ in St. Louis 1973
MD Washington Univ in St. Louis 1977

David Micah Brogan, BE, MS, MS1, MD
Assistant Professor of Orthopaedic Surgery (primary appointment)
BE Vanderbilt University 2003
MS University College London 2004
MS1 University of London 2005
MD Washington Univ in St. Louis 2009

Robert Henry Brophy IV, MS, MD
Professor of Orthopaedic Surgery (primary appointment)
MS Stanford University 1995
BA Stanford University 1994
MD Washington Univ in St. Louis 2001
BS Stanford University 1994

Jacob M Buchowski, MS, MD
Lawrence G and Elizabeth A Lenke Distinguished Professor of Orthopaedic Surgery (primary appointment)
Professor of Neurological Surgery
MS Yale University 1996
MD Johns Hopkins University 2000
BS Yale University 1996

C

Ryan Patrick Calfee, MD

Associate Professor of Orthopaedic Surgery (primary appointment)
MD Washington Univ in St. Louis 2001
BS University of Virginia 1997

Eric Ward Carson, MD
Associate Professor of Orthopaedic Surgery (Pending Executive Faculty Approval) (primary appointment)
MD University of Illinois Chicago 1989
BS Tufts University 1982

Aaron Mark Chamberlain, MD, B MUS
Associate Professor of Orthopaedic Surgery (primary appointment)
MD University of CA San Francisco 2006
B MUS University of Utah 2002

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Assistant Professor of Surgery (Public Health Sciences)
MD Washington Univ in St. Louis 2013

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BS University of Iowa 2004
MS Des Moines Universtiy 2009
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D

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Assistant Professor of Neurology

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BS University of Notre Dame 1991
MD University of Iowa 1995

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MPH Wright State University 2012
MS Columbia University 2016
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MS Rensselaer Poly Institute 1987
BS Rensselaer Poly Institute 1985
MPH Columbia University 1990
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MD Isfahan U of Medical Sciences 2004

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MD Georgetown University 1980
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MD Tulane University 1983  

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MD Case Western Reserve Univ 1981  

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PHD University of London 1998  

Christopher M McAndrew, MD  
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MD University of Tennessee 2004  

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BS Clemson University 2004  
PHD Case Western Reserve Univ 2011  
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MD Loyola University Chicago 2003  
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MD University of Minnesota 1982  
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MD Baylor University 2005  
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MD Jefferson Medical College 1977  
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N

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O

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PHD University of Rochester 2000
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R

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SCM Johns Hopkins University 2009
BS University of Maryland 2007
PHD University of North Carolina 2013

S

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Professor of Orthopaedic Surgery (primary appointment)
BS Univ of Wisconsin Madison 1964
MD Univ of Wisconsin Madison 1968

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BS1 Banaras Hindu University 1990
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Instructor in Orthopaedic Surgery (primary appointment)
MD Capital U of Medical Sciences 1991
MS Chinese Academy of Med Science 1996
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BS Nanjing University 2005
PHD University of Rochester 2012
MS University of Rochester 2011

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Julia and Walter R Peterson Professor of Orthopaedic Research (primary appointment)
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PHD Mass Inst of Technology (MIT) 1996
BS Cornell University 1982
ME Cornell University 1984

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

Matthew Vernon Smith, MD
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Gaurav Swarnkar, PHD
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PHD CENTRAL DRUG RESEARCH INSTITUT 2011

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Associate Professor of Neurology
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Simon Tang, PHD, MS
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PHD Rensselaer Poly Institute 2007
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MD Washington Univ in St. Louis 2006
BS Duke University 2002

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BA University of California 1983
MD George Washington University 1989
MS University of California 1985

Lukas P Zebala, MD
Associate Professor of Orthopaedic Surgery (primary appointment)
Associate Professor of Neurological Surgery
BS Northwestern University 1998
MD University of Chicago 2004

Courses

M96 Ortho 801A Orthopedic Surgery Subinternship — Sports
This clinical elective is available for four weeks during which the student participates in orthopedic conferences, outpatient clinics, surgical cases, and patient rounds on the Sports Medicine service.

M96 Ortho 801B Orthopedic Surgery Subinternship — Sports
This clinical elective is available for four weeks during which the student participates in orthopedic conferences, outpatient clinics, surgical cases, and patient rounds on the Sports Medicine service.

M96 Ortho 810A Orthopedic Surgery Subinternship — Foot/Ankle
This four-week clinical elective is available to medical students looking to further their knowledge of and experience in orthopedics, specifically foot and ankle surgery. Students will participate in surgical cases, outpatient clinics, inpatient care, and weekly didactic sessions/conferences. At the completion of the elective, students should have gained a basic knowledge of foot and ankle problems as well as their operative and nonoperative care.

M96 Ortho 810B Orthopedic Surgery Subinternship — Foot/Ankle
This four-week clinical elective is available to medical students looking to further their knowledge of and experience in orthopedics, specifically foot and ankle surgery. Students will participate in surgical cases, outpatient clinics, inpatient care, and weekly didactic sessions/conferences. At the completion of the elective, students should have gained a basic knowledge of foot and ankle problems as well as their operative and nonoperative care.

M96 Ortho 820A Orthopedic Surgery Subinternship — Hand
Clinical elective available during which time 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
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 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 faculty clinic office hours, attendance at orthopedic conferences, and dissection of upper-extremity anatomical specimens.

M96 Ortho 825A Orthopedic Surgery Subinternship — Hand/Nerve
Clinical elective available during which time the student will work with attending surgeons, primarily at Barnes-Jewish Hospital, St. Louis Children's Hospital, and Washington University Orthopedics at Center for Advanced Medicine and South County. The service includes care of adult and pediatric patients with traumatic, sports (arthroscopy), nerve, and degenerative disease. 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, physician assistants, and nurse practitioners 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 attending surgeons, primarily at St. Louis Children's Hospital, observing and assisting with outpatient and inpatient care. Activities in the operating room, emergency room, and outpatient clinics are to be included. Attendance at and participation in the weekly pediatric orthopedic conference activities are required.

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

M96 Ortho 860A Orthopedic Surgery Subinternship — Spine
This clinical elective is available for four weeks during which time the student will work with attending surgeons, primarily at Barnes-Jewish Hospital, observing and assisting when appropriate in outpatient and inpatient care. Activities in the operating room, emergency room, and outpatient clinics are to be included. Attendance at and participation in the weekly orthopedic conference activities are 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 attending surgeons, primarily at Barnes-Jewish Hospital, observing and assisting when appropriate in outpatient and inpatient care. Activities in the operating room, emergency room, and outpatient clinics are to be included. Attendance at and participation in the weekly orthopedic conference activities are 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 attending surgeons, 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. Activities in the operating room, emergency room, and outpatient clinics are to be included. Attendance at and participation in the weekly orthopedic conference activities are 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 attending surgeons, primarily at St. Louis Children's Hospital, observing and assisting in outpatient and inpatient care. Activities in the operating room, emergency room, and outpatient clinics are to be included. Attendance at and participation in the weekly pediatric orthopedic conference activities are required.
M96 Ortho 863B Orthopedic Surgery Subinternship — Pediatric Spine
Clinical elective available for four weeks during which time the student will work with attending surgeons, primarily at St. Louis Children's Hospital, observing and assisting in outpatient and inpatient care. Activities in the operating room, emergency room, and outpatient clinics are to be included. Attendance at and participation in the weekly pediatric orthopedic conference activities are required.

M96 Ortho 870A Orthopedic Surgery Subinternship — Joint Preservation & Reconstruction
Clinical elective available during which time the student will work with attending physicians on the Adult Reconstruction and Joint Preservation/Replacement service. This rotation is primarily centered at Barnes-Jewish Hospital and includes care of hospitalized inpatients, participation 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 attending physicians 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, participation 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 attending physicians 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, participation 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 hospitalized inpatients, participation 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 890 Orthopedic Surgery Externship
Students rotate on Orthopaedic 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.