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 Nepple, 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

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

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

Jonathon David Backus, MD
Assistant Professor of Orthopaedic Surgery (Pending Executive Faculty Approval) (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)
BA Washington Univ in St. Louis 1971
MD Washington Univ in St. Louis 1975

Marschall Brantling Berkes, MD
Assistant Professor of Orthopaedic Surgery (primary appointment)
MD Vanderbilt University 2008

Terra Rupert Blatnik, MD
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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

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Carol B and Jerome T Loeb Professor of Orthopaedic Surgery (primary appointment)
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
BE Vanderbilt University 2003
MD Washington Univ in St. Louis 2009
MS1 University of London 2005

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MD Washington Univ in St. Louis 2001
MS Stanford University 1995
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BS Stanford University 1994

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Professor of Neurological Surgery
MD Johns Hopkins University 2000
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BS University of Virginia 1997
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BS Tufts University 1982
MD University of Illinois Chicago 1989

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MD University of Tennessee 1969
BA University of North Carolina 1965

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L

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M

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BS Dartmouth College 1999  
MD Loyola University Chicago 2003

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MD University of Minnesota 1982  
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S

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Professor of Orthopaedic Surgery (primary appointment)

MD Univ of Wisconsin Madison 1968
BS Univ of Wisconsin Madison 1964

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MD Capital U of Medical Sciences 1991
MS Chinese Academy of Med Science 1996
PHD University of Konstanz 2002

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BS Nanjing University 2005
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PHD University of Rochester 2012

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BS Cornell University 1982
ME Cornell University 1984
PHD Mass Inst of Technology (MIT) 1996

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MD University of Rochester 2010
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PHD CENTRAL DRUG RESEARCH INSTITUT 2011

T

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

Simon Tang, MS, PHD
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MS Rensselaer Poly Institute 2005
PHD Rensselaer Poly Institute 2007
BS University of CA Berkeley 2003

W

Lindley Bevelle Wall, MD
Associate Professor of Orthopaedic Surgery (primary appointment)
the elective, students should have gained a basic knowledge and weekly didactic sessions/conferences. At the completion of participate in surgical cases, outpatient clinics, inpatient care, orthopedics, specifically foot and ankle surgery. Students will looking to further their knowledge of and experience in This four-week clinical elective is available to medical students 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 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 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 orthopedic conferences, and dissection of upper-extremity anatomical specimens.

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 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 patients with traumatic, sports (arthroscopy), nerve, and degenerative disease. Activities will include participation in the care of hospitalized inpatients, participation in inpatient and outpatient procedures, attendance at designated attending 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 Barnes-Jewish Hospital, St. Louis Children's Hospital, and Shriner's Hospital. The service includes care of adult patients with traumatic, sports (arthroscopy), nerve, and degenerative disease. Activities will include participation in the care of hospitalized inpatients, participation in inpatient and 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 — 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 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 participation in orthopedic conferences.

**M96 Ortho 830A Orthopedic Surgery Subinternship — Shoulder/Elbow**  
Clinical elective available during which 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 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 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 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 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 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.