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

Department Chair

Regis O’Keefe, MD, PhD (https://www.ortho.wustl.edu/content/Patient-Care/3683/FIND-A-PHYSICIAN/Physician-Directory/Regis-OKeefe-MD/Bio.aspx)

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, MS, PHD
Dr J Albert Key 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

Jonathon David Backus, MD
Assistant Professor of Orthopaedic Surgery (primary appointment)
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

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

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

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

Jacob M Buchowski, MD, MS
Lawrence G and Elizabeth A Lenke Distinguished Professor of Orthopaedic Surgery (primary appointment)
Professor of Neurological Surgery
MD Johns Hopkins University 2000
MS Yale University 1996
BS Yale University 1996
C
Ryan Patrick Calfee, MD
Associate Professor of Orthopaedic Surgery (primary appointment)
BS University of Virginia 1997
MD Washington Univ in St. Louis 2001
Eric Ward Carson, MD
Professor of Orthopaedic Surgery (primary appointment)
MD University of Illinois Chicago 1989
BS Tufts University 1982
Aaron Mark Chamberlain, B MUS, MD
Associate Professor of Orthopaedic Surgery (primary appointment)
B MUS University of Utah 2002
MD University of CA San Francisco 2006
Abby Ling Lee Cheng, MD
Assistant Professor of Orthopaedic Surgery (primary appointment)
Assistant Professor of Surgery (Public Health Sciences)
MD Washington Univ in St. Louis 2013
Cara Alessandra Cipriano, MD
Assistant Professor of Orthopaedic Surgery (primary appointment)
BS Williams College 2003
MD University of Pennsylvania 2007
John C Clohisy, MD
Daniel C. and Betty B. Vehmann Distinguished Professor of Orthopaedic Surgery (primary appointment)
BA Northwestern University 1985
MD Northwestern University 1989
Berdale S. Colorado, MS, DOST
Assistant Professor of Orthopaedic Surgery (primary appointment)
Assistant Professor of Neurology
MS Des Moines Universtiy 2009
BS University of Iowa 2004
DOST Des Moines Universtiy 2009
D
Kayla E Daniel, MD
Assistant Professor of Orthopaedic Surgery (primary appointment)
BA Washington Univ in St. Louis 2011
MD RUSH MEDICAL COLLEGE 2016
Gregory M Decker, MD
Assistant Professor of Orthopaedic Surgery (primary appointment)
Assistant Professor of Neurology
MD American Univ of the Caribbean 2014
Laura C DePalma, DOST
Assistant Professor of Orthopaedic Surgery (primary appointment)
DOST Phil Coll of Osteopathic Med 2009
Christopher J. Dy, MD, M PH
Assistant Professor of Orthopaedic Surgery (primary appointment)
BS University of Miami 2004
MD University of Miami 2008
M PH University of Miami 2008
E
Lawrence Glennon Evans Jr
Instructor in Orthopaedic Surgery (primary appointment)
F
Roberta Faccio, PHD
Professor of Orthopaedic Surgery (primary appointment)
Professor of Cell Biology and Physiology
PHD University of Bari 2000
G
Richard H Gelberman, MD
Professor of Orthopaedic Surgery (primary appointment)
BA University of North Carolina 1965
MD University of Tennessee 1969
Charles A Goldfarb, MD
Professor of Orthopaedic Surgery (primary appointment)
MD University of Alabama 1996
BA Williams College 1992
Matthew Lawrence Goodwin, MD
Assistant Professor of Orthopaedic Surgery (primary appointment)
Assistant Professor of Neurological Surgery
MD Cornell University 2013
J. Eric Gordon, MD
Professor of Orthopaedic Surgery (primary appointment)
BS University of California 1983
MD University of CA Davis 1988
Farshid Guilak, PHD, MS, MPH
Professor of Orthopaedic Surgery (primary appointment)
Professor of Biomedical Engineering
Professor of Developmental Biology
PHD Columbia University 1992
BS Rensselaer Poly Institute 1985
MS Rensselaer Poly Institute 1987
MPH Columbia University 1990
Munish C Gupta, MD
Mildred B. Simon Distinguished Professor of Orthopaedic Surgery (primary appointment)
BS Northwestern University 1982
MD Northwestern University Med 1986
Mark E. Halstead, MD  
Associate Professor of Orthopaedic Surgery (primary appointment)  
Associate Professor of Pediatrics  
BS Univ of Wisconsin Madison 1994  
MD Univ of Wisconsin Madison 1998  
Jeremy A Hartman, MD  
Assistant Professor of Orthopaedic Surgery (primary appointment)  
MD Saint Louis University 2013  
Damon Joseph Louis Hays, MD  
Instructor in Clinical Orthopaedic Surgery (primary appointment)  
BS Truman State University 1998  
MD Ohio University 2003  
Pooya Hosseinzadeh, MD  
Assistant Professor of Orthopaedic Surgery (primary appointment)  
MD Isfahan U of Medical Sciences 2004  
Devyani M. Hunt, MD  
Associate Professor of Orthopaedic Surgery (primary appointment)  
Associate Professor of Neurology  
MD University of Texas Houston 2000  
BS University of Texas Austin 1995  
Deeptee Jain, MD  
Assistant Professor of Orthopaedic Surgery (primary appointment)  
Assistant Professor of Neurological Surgery  
MD Duke University 2013  
Jay Donovan Keener, MD  
Professor of Orthopaedic Surgery (primary appointment)  
BS West Virginia University 1991  
MD West Virginia University 1998  
Brian Adams Kelly, MD  
Assistant Professor of Orthopaedic Surgery (primary appointment)  
Assistant Professor of Neurological Surgery  
BA Williams College 2002  
MD Columbia University 2009  
Michael Patrick Kelly, MD  
Associate Professor of Orthopaedic Surgery (primary appointment)  
Associate Professor of Neurological Surgery  
MD University of Massachusetts 2005  
BS Boston College 1999  
Sandra E. Klein, MD, BE  
Associate Professor of Orthopaedic Surgery (primary appointment)  
MD Washington Univ in St. Louis 2001  
BE University of Missouri 1994  
Robert S Kramer, MD  
Instructor in Clinical Orthopaedic Surgery (primary appointment)  
MD Washington Univ in St. Louis 1983  
BA Harvard University 1979  
Adam J. LaBore, MD  
Associate Professor of Orthopaedic Surgery (primary appointment)  
Associate Professor of Neurology  
BS Louisiana College 1994  
MD Loyola University Chicago 1998  
Charles Murray Lawrie, MD  
Assistant Professor of Orthopaedic Surgery (primary appointment)  
MD Baylor College of Medicine 2012  
Scott J Luhmann, MD  
Professor of Orthopaedic Surgery (primary appointment)  
Professor of Neurological Surgery  
MD University of Minnesota 1991  
BA Gustavus Adolphus College 1986  
Paul Sherman Lux, MD  
Associate Professor of Orthopaedic Surgery (primary appointment)  
MD Tulane University 1983  
Matthew J Matava, MD  
Professor of Orthopaedic Surgery (primary appointment)  
Professor of Physical Therapy  
BA University of MO Kansas City 1986  
MD University of MO Kansas City 1987  
Audrey McAlinden, PHD  
Associate Professor of Orthopaedic Surgery (primary appointment)  
Associate Professor of Cell Biology and Physiology  
PHD University of London 1998  
Christopher M McAndrew, MD  
Associate Professor of Orthopaedic Surgery (primary appointment)  
MD University of Tennessee 2004  
Sarah Howe McBride, MS, PHD  
Adjunct Instructor in Orthopaedic Surgery (primary appointment)  
BS Clemson University 2004  
MS Case Western Reserve Univ 2008  
PHD Case Western Reserve Univ 2011
Jeremy James McCormick, MD
Associate Professor of Orthopaedic Surgery (primary appointment)
MD Loyola University Chicago 2003
BS Dartmouth College 1999

Douglas J. McDonald, MD
Professor of Orthopaedic Surgery (primary appointment)
BS St Johns University 1978
MD University of Minnesota 1982

John P Metzler, MD
Associate Professor of Orthopaedic Surgery (primary appointment)
Associate Professor of Neurology
BS Texas A&M University 1991
MD University of Texas Galveston 1995

Laura L Meyers, MD
Associate Professor of Orthopaedic Surgery (primary appointment)
BS Washington Univ in St. Louis 1988
MD Vanderbilt University 1993

Anna Noel Miller, MD
Associate Professor of Orthopaedic Surgery (primary appointment)
MD Baylor University 2005
BA Rice University 2001

Gary Arthur Miller, MD
Associate Professor of Orthopaedic Surgery (primary appointment)
MD Jefferson Medical College 1977
BA University of Chicago 1973

Mark L. Miller, BE, MD
Assistant Professor of Orthopaedic Surgery (primary appointment)
BE Stanford University 2004
MD Harvard University 2008

Jeffrey Jerome Nepple, MD
Assistant Professor of Orthopaedic Surgery (primary appointment)
BS Truman State University 2003
MD Washington Univ in St. Louis 2007

Ryan M. Nunley, MD
Associate Professor of Orthopaedic Surgery (primary appointment)
MD University of North Carolina 2002
BA Vanderbilt University 1998

Regis James O’Keefe, PHD, MD

Fred C Reynolds Professor of Orthopaedic Surgery (primary appointment)
Head of the Department of Orthopaedic Surgery
PHD University of Rochester 2000
MD Harvard University 1985
BA Yale University 1981

Nathan P Olafsen, MD
Assistant Professor of Orthopaedic Surgery (primary appointment)
Assistant Professor of Neurology
MD University of MO Columbia 2012

Julia Partin, DPM
Instructor in Orthopaedic Surgery (primary appointment)
BS University of MO St Louis 1997
DPM Kent St University 2001

Cecilia Pascual Garrido, MD
Assistant Professor of Orthopaedic Surgery (primary appointment)
MD Universidad del Buenos Aires 2000

Debabrata Patra, PHD, MS
Associate Professor of Orthopaedic Surgery (primary appointment)
BS University of Bombay 1985
PHD University of Pittsburgh 1993
MS University of Bombay 2005

Terrence L Piper, MD
Assistant Professor of Clinical Orthopaedic Surgery (primary appointment)
BA Saint Louis University 1971
MD Saint Louis University 1975

Muhammad Farooq Rai, PHD
Assistant Professor of Orthopaedic Surgery (primary appointment)
PHD Freie University 2008

Elizabeth Yanik Rowlands, SCM, PHD
Assistant Professor of Orthopaedic Surgery (primary appointment)
SCM Johns Hopkins University 2009
BS University of Maryland 2007
PHD University of North Carolina 2013

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

Girdhar G Sharma, MS1, PHD1, BS1
Instructor in Orthopaedic Surgery (primary appointment)
MS Banaras Hindu University 1992
PHD Banaras Hindu University 2000
BS Banaras Hindu University 1990
Hua Shen, MD, MS, PHD
Assistant Professor of Orthopaedic Surgery (primary appointment)
MD Capital U of Medical Sciences 1991
MS Chinese Academy of Med Science 1996
PHD University of Konstanz 2002
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, ME, PHD
Julia and Walter R Peterson Professor of Orthopaedic Research (primary appointment)
Assistant Professor of Biomedical Engineering
BS Cornell University 1982
ME Cornell University 1984
PHD Mass Inst of Technology (MIT) 1996
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
Associate Professor of Orthopaedic Surgery (primary appointment)
MD Virginia Comm University 2002
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, MS, PHD
Associate Professor of Orthopaedic Surgery (primary appointment)
BS University of CA Berkeley 2003
MS Rensselaer Poly Institute 2005
PHD Rensselaer Poly Institute 2007
Lauren MacCormick Tatman, MD
Assistant Professor of Orthopaedic Surgery (primary appointment)
MD Ohio State University 2014
Susan Thapa, PHD
Instructor in Orthopaedic Surgery (primary appointment)
Instructor in Surgery (Public Health Sciences)
PHD University of AR Med Sciences 2018
BS Dhaka University 2009
Lindley Bevelle Wall, MD
Associate Professor of Orthopaedic Surgery (primary appointment)
MD Washington Univ in St. Louis 2006
BS Duke University 2002
Ken Yamaguchi, MS, MD
Professor of Orthopaedic Surgery (primary appointment)
MS University of California 1985
MD George Washington University 1989
BA University of California 1983
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
• Munish Gupta, MD
• Pooya Hosseinzadeh, MD
• Deeptee Jain, 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

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 801C 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 805 Geriatric Musculoskeletal Medicine
Students will participate in nonoperative and operative treatment of common geriatric musculoskeletal issues, including degenerative, traumatic, and metabolic disorders. Selected research articles and other readings will be provided to guide self-directed study of relevant topics. At the end of the course, participants should be familiar with the following: hip, knee, and shoulder arthritis (conservative management and arthroplasty); femur fracture (fixation versus arthroplasty); distal radius fracture (casting versus open reduction internal fixation); spinal degeneration, including lumbar and cervical (nonoperative management and injections); anesthesia preoperative evaluation (risk stratification and optimization); perioperative inpatient management (medical and pain management); and bone health outpatient management (osteopenia and osteoporosis). Please note that this elective is designed for students who are not applying for residency in orthopedic surgery and that it may be particularly relevant for those pursuing fields such as internal medicine, family practice, emergency medicine, and so on.

M96 Ortho 810A Orthopedic Surgery Subinternship: Foot/Ankle
This four-week clinical elective is available to medical students looking to further their knowledge/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/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 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. 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 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 designated attending 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 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 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 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 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 & Recon
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 & Recon
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 & Recon
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 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 900 Research Elective: Orthopedic Surgery
Research opportunities may be available. Contact the Department of Orthopedic Surgery for additional information.