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, M.S., Ph.D.
Professor of Orthopedic Surgery (primary appointment)
Professor of Cell Biology and Physiology
Dr J Albert Key Professor of Orthopedic Surgery
Bachelor of Science, Hebrew University, 1985
Master of Science, Hebrew University, 1987
Doctor of Philosophy, Hebrew University, 1993

Alexander William Aleem, M.D.
Associate Professor of Orthopedic Surgery (primary appointment)
Bachelor of Science, Johns Hopkins University, 2006
Doctor of Medicine, Washington University in St Louis, 2010

Jonathon David Backus, M.D.
Assistant Professor of Orthopedic Surgery (primary appointment)
Bachelor of Science, University of Illinois at Urbana–Champaign, 2005
Doctor of Medicine, Duke University, 2010

Robert L Barrack, M.D.
Professor of Orthopedic Surgery (primary appointment)
Charles F and Joanne Knight Distinguished Professor of Orthopedic Surgery
Doctor of Medicine, Vanderbilt University, 1980

Kimberly Ann Bartosiak, M.D.
Assistant Professor of Orthopedic Surgery (Pending Executive Faculty Approval) (primary appointment)
Doctor of Medicine, Loyola University Chicago, 2015

Donald R Bassman, M.D.
Instructor in Clinical Orthopedic Surgery
Bachelor of Arts, Washington University in St Louis, 1971
Bachelor of Medicine, Washington University in St Louis, 1975

Ilya Bendich, M.D.
Assistant Professor of Orthopedic Surgery (primary appointment)
Doctor of Medicine, Dartmouth College, 2015

Marschall Brantling Berkes, M.D.
Assistant Professor of Orthopedic Surgery (primary appointment)
Doctor of Medicine, Vanderbilt University, 2008

Terra Rupert Blatnik, M.D.
Assistant Professor of Orthopedic Surgery (primary appointment)
Bachelor of Science, Allegheny College, 2003
Doctor of Medicine, Case Western Reserve University, 2007

Michael Anthony Boeving
Assistant Professor of Orthopedic Surgery (Pending Executive Faculty Approval) (primary appointment)

Martin I Boyer, M.S., M.D.
Professor of Orthopedic Surgery (primary appointment)
Carol B and Jerome T Loeb Professor of Orthopedic Surgery
Doctor of Medicine, University of Toronto, 1988
Master of Science, University of Toronto, 1993

Keith Happ Bridwell, M.D.
Professor of Orthopedic Surgery (primary appointment)
Professor of Neurological Surgery
J Albert Key Distinguished Professor of Orthopedic Surgery
Bachelor of Arts, Washington University in St Louis, 1973
Doctor of Medicine, Washington University in St Louis, 1977

David Micah Brogan, M.S., M.D.
Associate Professor of Orthopedic Surgery (primary appointment)
Associate Professor of Neurological Surgery
Division Chief - Division of Spine
Vice Chair - Department of Orthopedic Surgery
Lawrence G and Elizabeth A Lenke Distinguished Professor of Orthopedic Surgery
Ryan Patrick Calfee, M.D.
Professor of Orthopedic Surgery (primary appointment)
Division Chief - Division of Hand and Wrist
Bachelor of Science, University of Virginia, 1997
Doctor of Medicine, Washington University in St Louis, 2001

Alejandra Camacho-Soto, M.D.
Assistant Professor of Orthopedic Surgery (primary appointment)
Bachelor of Arts, Georgetown University, 2005
Doctor of Medicine, University of Pittsburgh, 2011

Eric Ward Carson, M.D.
Professor of Orthopedic Surgery (primary appointment)
Bachelor of Science, Tufts University, 1982
Doctor of Medicine, University of Illinois Chicago, 1989

Alexandre Carter, Ph.D., M.D.
Associate Professor of Orthopedic Surgery (primary appointment)
Associate Professor of Occupational Therapy
Associate Professor of Neurology
Bachelor of Science, Brandeis University, 1991
Doctor of Philosophy, Harvard University, 2003
Doctor of Medicine, Harvard University, 2003

Aaron Mark Chamberlain, M.D.
Associate Professor of Orthopedic Surgery (primary appointment)
Adjunct Lecturer
Bachelor of Music, University of Utah, 2002
Doctor of Medicine, University of California San Francisco, 2006

Abby Ling Lee Cheng, M.D.
Assistant Professor of Orthopedic Surgery (primary appointment)
Assistant Professor of Neurology
Assistant Professor of Surgery (Public Health Sciences)
Bachelor of Arts, University of California Davis, 2011
Doctor of Philosophy, University of Calgary, 2017

J. Eric Gordon, M.D.
Professor of Orthopedic Surgery (primary appointment)
Bachelor of Science, University of California, 1983
Doctor of Medicine, University of California Davis, 1988

Dennis Ian English, M.A., M.D.
Assistant Professor of Orthopedic Surgery (primary appointment)
Bachelor of Arts, Washington University in St Louis, 2008
Master of Arts, Loyola University Chicago, null
Doctor of Medicine, Loyola University Chicago, null

Lawrence Glennon Evans
Instructor in Clinical Orthopedic Surgery

Robert Faccio, Ph.D.
Professor of Orthopedic Surgery (primary appointment)
Professor of Cell Biology and Physiology
Doctor of Philosophy, University of Bari, 2000

Richard H Gelberman, M.D.
Professor of Orthopedic Surgery (primary appointment)
Bachelor of Arts, University of North Carolina, 1965
Doctor of Medicine, University of Tennessee, 1969

Charles A Goldfarb, M.D.
Professor of Orthopedic Surgery (primary appointment)
Division Chair - Division of Pediatric Orthopedics
Executive Vice Chair - Department of Orthopedic Surgery
Bachelor of Arts, Williams College, 1992
Doctor of Medicine, University of Alabama, 1996

Matthew Lawrence Goodwin, M.D.
Assistant Professor of Orthopedic Surgery (primary appointment)
Assistant Professor of Neurological Surgery
Doctor of Medicine, Cornell University, 2013

Kelsey Helen-Marie Collins, Ph.D.
Instructor in Orthopedic Surgery (primary appointment)
Bachelor of Arts, University of California Davis, 2011
Doctor of Philosophy, University of Calgary, 2017

Kayla E Daniel, M.D.
Assistant Professor of Orthopedic Surgery (primary appointment)
Foreign MD equivalent, Mahatma Gandhi University, 2002
Doctor of Philosophy, Marquette University, 2012

Farshid Guilak, M.P.H., M.S., Ph.D.
Professor of Orthopedic Surgery (primary appointment)
Professor of Biomedical Engineering
Professor of Mechanical Engineering and Materials Science
Professor of Developmental Biology
Mildred B. Simon Research Professorship in Orthopaedic Surgery
Bachelor of Science, Rensselaer Polytechnic Institute, 1985
Master of Science, Rensselaer Polytechnic Institute, 1987
Master of Public Health, Columbia University, 1990
Doctor of Philosophy, Columbia University, 1992

Munish C Gupta, M.D.
Mildred B. Simon Distinguished Professor of Orthopedic Surgery (primary appointment)
Bachelor of Science, Northwestern University, 1982
Doctor of Medicine, Northwestern University Medical, 1986

Mark E. Halstead, M.D.
Professor of Orthopedic Surgery (primary appointment)
Professor of Pediatrics
Bachelor of Science, University of Wisconsin Madison, 1994
Doctor of Medicine, University of Wisconsin Madison, 1998

Charles Patrick Hannon, M.B.A., M.D.
Assistant Professor of Orthopedic Surgery (primary appointment)
Doctor of Medicine, Georgetown University, 2015
Bachelor of Science, Villanova University, null
Master of Business Administration, University of Chicago, null

Natalia Sara Harasymowicz, M.S., Ph.D.
Instructor in Orthopedic Surgery (primary appointment)
Bachelor of Science, Jagiellonian University, 2010
Master of Science, Jagiellonian University, 2012
Doctor of Philosophy, Edinburgh University, 2016

Jeremy A Hartman, M.D.
Assistant Professor of Orthopedic Surgery (primary appointment)
Doctor of Medicine, Saint Louis University, 2013

Damon Joseph Louis Hays, M.D.
Instructor in Clinical Orthopedic Surgery
Bachelor of Science, Truman State University (Duplicate of Truman State University (Formerly Northeast Missouri State University)), 1998
Main Campus), 2003

Pooya Hosseinzadeh, M.D.
Associate Professor of Orthopedic Surgery (primary appointment)
Doctor of Medicine, Isfahan U of Medical Sciences, 2004

Devyani M. Hunt, M.D.
Professor of Orthopedic Surgery (primary appointment)
Professor of Neurology

Divison Chief - Division of Physical Medicine & Rehabilitation
Bachelor of Science, University of Texas Austin, 1995
Doctor of Medicine, University of Texas Houston, 2000

Thy N Huskey, M.D.
Professor of Orthopedic Surgery (primary appointment)
Bachelor of Science, Northwestern University, 1993
Doctor of Medicine, Northwestern University Medical, 1996

Sindhu Saji Jacob, M.D.
Associate Professor of Orthopedic Surgery (primary appointment)
Doctor of Medicine, Kottayam Medical College, 1994

Deeptee Jain, M.D.
Assistant Professor of Orthopedic Surgery (primary appointment)
Assistant Professor of Neurological Surgery
Doctor of Medicine, Duke University, 2013

Kirsten A Jansen, M.D.
Instructor in Orthopedic Surgery (primary appointment)
Doctor of Medicine, University of Missouri Kansas City, 2011

Jeffrey E Johnson, M.D.
Professor Emeritus of Orthopedic Surgery
Bachelor of Arts, Duke University, 1976
Doctor of Medicine, Georgetown University, 1980

Neringa Juknis, M.D.
Associate Professor of Orthopedic Surgery (primary appointment)
Doctor of Medicine, Kaunas Medical Institute, 1989

Jay Donovan Keener, M.D.
Professor of Orthopedic Surgery (primary appointment)
Division Chief - Division of Shoulder and Elbow
Vice Chair - Department of Orthopedic Surgery
Bachelor of Science, West Virginia University, 1991
Doctor of Medicine, West Virginia University, 1998

Brian Adams Kelly, M.D.
Assistant Professor of Orthopedic Surgery (primary appointment)
Assistant Professor of Neurological Surgery
Bachelor of Arts, Williams College, 2002
Doctor of Medicine, Columbia University, 2009

Derrick Michael Knapik, M.D.
Assistant Professor of Orthopedic Surgery (Pending Executive Faculty Approval) (primary appointment)
Main Campus, 2014

Robert S Kramer, M.D.
Instructor in Clinical Orthopedic Surgery
Bachelor of Arts, Harvard University, 1979
Doctor of Medicine, Washington University in St Louis, 1983

Robert E Kuhlman, M.D.
Assistant Professor Emeritus of Clinical Orthopedic Surgery
Bachelor of Arts, Washington University in St Louis, 1953
Doctor of Medicine, Washington University in St Louis, 1956

Adam J. LaBore, M.D.
Professor of Orthopedic Surgery (primary appointment)
Division Chief - Division of Orthopedic Injury Clinic
Professor of Neurology
Bachelor of Science, Louisiana College, 1994
Doctor of Medicine, Loyola University Chicago, 1998

Scott J Luhmann, M.D.
Professor of Orthopedic Surgery (primary appointment)
Professor of Neurological Surgery
Bachelor of Arts, Gustavus Adolphus College, 1986
Doctor of Medicine, University of Minnesota, 1991

Paul Sherman Lux, M.D.
Associate Professor of Orthopedic Surgery (primary appointment)
Doctor of Medicine, Tulane University, 1983

Matthew J Matava, M.D.
Professor of Orthopedic Surgery (primary appointment)
Professor of Physical Therapy
Division Chief - Division of Sports Medicine
Bachelor of Arts, University of Missouri Kansas City, 1986
Doctor of Medicine, University of Missouri Kansas City, 1987

Audrey McAlinden, Ph.D.
Professor of Orthopedic Surgery (primary appointment)
Professor of Cell Biology and Physiology
Doctor of Philosophy, University of London, 1998

Christopher M McAndrew, M.D.
Associate Professor of Orthopedic Surgery (primary appointment)
Doctor of Medicine, University of Tennessee, 2004

Sarah Howe McBride, M.S., Ph.D.
Adjunct Instructor in Orthopedic Surgery
Bachelor of Science, Clemson University, 2004
Master of Science, Case Western Reserve University, 2008
Doctor of Philosophy, Case Western Reserve University, 2011

Jeremy James McCormick, M.D.
Associate Professor of Orthopedic Surgery (primary appointment)
Division Chief - Division of Foot and Ankle
Bachelor of Science, Dartmouth College, 1999
Doctor of Medicine, Loyola University Chicago, 2003

Douglas J. McDonald, M.D.
Professor Emeritus Orthopaedic Surgery
Bachelor of Science, Saint Johns University, 1978
Doctor of Medicine, University of Minnesota, 1982

John P Metzler, M.D.
Associate Professor of Orthopedic Surgery (primary appointment)
Associate Professor of Neurology
Bachelor of Science, Texas A&M University, 1991
Doctor of Medicine, University of Texas Galveston, 1995

Zachary Isaac Meyer, M.D.
Assistant Professor of Orthopedic Surgery (Pending Executive Faculty Approval) (primary appointment)
Doctor of Medicine, Washington University in St Louis, 2015

Laura L Meyers, M.D.
Associate Professor of Orthopedic Surgery (primary appointment)
Bachelor of Science, Washington University in St Louis, 1988
Doctor of Medicine, Vanderbilt University, 1993

Gary Arthur Miller, M.D.
Associate Professor of Orthopedic Surgery (primary appointment)
Bachelor of Arts, University of Chicago, 1973
Doctor of Medicine, Jefferson Medical College, 1977

Mark L. Miller, M.D.
Associate Professor of Orthopedic Surgery (primary appointment)
Other bachelor's degree, Stanford University, 2004
Doctor of Medicine, Harvard University, 2008

Jeffrey Jerome Nepple, M.D.
Associate Professor of Orthopedic Surgery (primary appointment)
Bachelor of Science, Truman State University, 2003
Doctor of Medicine, Washington University in St Louis, 2007

Robert John Nims, M.S., Ph.D.
Instructor in Orthopedic Surgery (primary appointment)
Bachelor of Science, Boston University, 2010
Master of Science, Columbia University, 2012
Doctor of Philosophy, Columbia University, 2017

Ryan M. Nunley, M.D.
Associate Professor of Orthopedic Surgery (primary appointment)
Bachelor of Arts, Vanderbilt University, 1998
Doctor of Medicine, University of North Carolina, 2002

Regis James O’Keefe, Ph.D., M.D.
Professor of Orthopedic Surgery (primary appointment)
Head of the Department of Orthopedic Surgery
Fred C Reynolds Professor of Orthopedic Surgery
Bachelor of Arts, Yale University, 1981
Doctor of Medicine, Harvard University, 1985
Doctor of Philosophy, University of Rochester, 2000
Arin D Oestreich, Ph.D.
Instructor in Orthopedic Surgery (primary appointment)
Doctor of Philosophy, University of Missouri Columbia, 2015

Arin D Oestreich, Ph.D.

Assistant Professor of Orthopedic Surgery (primary appointment)
Assistant Professor of Neurology
Doctor of Medicine, University of Missouri Columbia, 2012

Nicholas Pallotta, M.S., M.D.
Assistant Professor of Orthopedic Surgery (Pending Executive Faculty Approval) (primary appointment)
Assistant Professor of Neurological Surgery
Bachelor of Science, Rensselaer Polytechnic Institute, 2007
Master of Science, Rensselaer Polytechnic Institute, 2009
Doctor of Medicine, Stony Brook School of Medicine, 2013

Julia Partin, D.P.M.
Assistant Professor of Orthopedic Surgery (primary appointment)
Bachelor of Science, University of Missouri in St Louis, 1997
Doctor of Podiatric Medicine, Kent State University, 2001

Cecilia Pascual Garrido, M.D.
Associate Professor of Orthopedic Surgery (primary appointment)
Doctor of Medicine, Universidad del Buenos Aires, 2000

Terrence L Piper, M.D.
Assistant Professor of Clinical Orthopedic Surgery
Bachelor of Arts, Saint Louis University, 1971
Doctor of Medicine, Saint Louis University, 1975

Feini Qu, Ph.D.
Instructor in Orthopedic Surgery (primary appointment)
Bachelor of Science, University of Pennsylvania, 2009

Muhammad Farooq Rai, Ph.D.
Assistant Professor of Orthopedic Surgery (primary appointment)
Doctor of Philosophy, Freie University, 2008

Elizabeth Yanik Rowlands, Sc.M., Ph.D.
Assistant Professor of Orthopedic Surgery (primary appointment)
Bachelor of Science, University of Maryland, 2007
Master of Science, Johns Hopkins University, 2009
Doctor of Philosophy, University of North Carolina, 2013

Rimma Ruvinskaya, M.D.

Associate Professor of Orthopedic Surgery (primary appointment)
Doctor of Medicine, Leningrad Inst of Peds Med, 1985

Linda J Sandell, M.S., Ph.D.
Professor Emeritus of Orthopedic Surgery
Bachelor of Arts, University of Denver, 1969
Master of Science, University of Denver, 1971
Doctor of Philosophy, Northwestern University, 1980

Perry Lee Schoenecker, M.D.
Professor of Orthopedic Surgery (primary appointment)
Bachelor of Science, University of Wisconsin Madison, 1964
Doctor of Medicine, University of Wisconsin Madison, 1968

Girdhar G Sharma, M.S., Ph.D.
Instructor in Orthopedic Surgery (primary appointment)
Bachelor of Science, Banaras Hindu University, 1990
Master of Science, Banaras Hindu University, 1992
Doctor of Philosophy, Banaras Hindu University, 2000

Hua Shen, M.S., Ph.D., M.D.
Assistant Professor of Orthopedic Surgery (primary appointment)
Doctor of Medicine, Capital U of Medical Sciences, 1991
Master of Science, Chinese Academy of Med Science, 1996
Doctor of Philosophy, University of Konstanz, 2002

Jie Shen, M.S., Ph.D.
Associate Professor of Orthopedic Surgery (primary appointment)
Bachelor of Science, Nanjing University, 2005
Master of Science, University of Rochester, 2011
Doctor of Philosophy, University of Rochester, 2012

Matthew J Silva, M.Eng., Ph.D.
Professor of Orthopedic Surgery (primary appointment)
Assistant Professor of Biomedical Engineering
Professor of Mechanical Engineering and Materials Science
Vice Chair - Research, Department of Orthopedic Surgery
Bachelor of Science, Cornell University, 1982
Master of Engineering, Cornell University, 1984
Doctor of Philosophy, Massachusetts Institute of Technology, 1996

Scott A. Simpson, M.D.
Assistant Professor of Orthopedic Surgery (primary appointment)
Assistant Professor of Neurology
Bachelor of Arts, Columbia University, 2005
Doctor of Medicine, University of Rochester, 2010

Matthew Vernon Smith, M.D.
Associate Professor of Orthopedic Surgery (primary appointment)
Doctor of Medicine, Virginia Commonwealth University, 2002

Michael F Sookochoff, M.D.
Assistant Professor of Orthopedic Surgery (primary appointment)
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 Neppe, MD
- Regis O’Keefe, MD
Courses


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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
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<tbody>
<tr>
<td>M96 Ortho 801A Orthopedic Surgery Subinternship: Sports</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>M96 Ortho 801B Orthopedic Surgery Subinternship: Sports</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>M96 Ortho 801C Orthopedic Surgery Subinternship: Sports</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>M96 Ortho 810A Orthopedic Surgery Subinternship: Foot/Ankle</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>M96 Ortho 820A Orthopedic Surgery Subinternship: Hand</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>M96 Ortho 820B Orthopedic Surgery Subinternship: Hand</td>
<td>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, attendance at designated attending office hours, attendance at designated orthopedic conferences, and dissection of upper-extremity anatomical specimens.</td>
<td></td>
</tr>
<tr>
<td>M96 Ortho 823A Orthopedic Surgery Subinternship: Hand/Pediatric Hand</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>M96 Ortho 823B Orthopedic Surgery Subinternship: Hand/Pediatric Hand</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>M96 Ortho 825A Orthopedic Surgery Subinternship: Hand/Nerve</td>
<td>Clinical elective available during which time the student will work with attending surgeons primarily at Barnes-Jewish Hospital, 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.</td>
<td></td>
</tr>
<tr>
<td>M96 Ortho 827A Orthopedic Surgery Subinternship: Hand/Microsurgery</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>M96 Ortho 830A Orthopedic Surgery Subinternship: Shoulder/Elbow</td>
<td>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 outpatient procedures, attendance at designated attending office hours, attendance at designated orthopedic conferences, and dissection of upper-extremity anatomical specimens.</td>
<td></td>
</tr>
</tbody>
</table>
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 and outpatient 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 and outpatient 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 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 and outpatient 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 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 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 850C Orthopedic Surgery Subinternship Pediatrics
Orthopedic Surgery Subinternship - Pediatrics

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, 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 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 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.