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; this rotation includes experiences ranging from the care of patients in the emergency department, operating room, and clinical practice in the outpatient and inpatient ward.

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

Degrees & Requirements

While 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 Offered (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 orthsurg@wudosis.wustl.edu or contact the faculty member directly.

Yousef Abu-Amer, PhD
Robert L. Barrack, MD
Robert Brophy, MD
Jacob M. Buchowski, MD, MS
Ryan Calfee, MD
Aaron Chamberlain, MD
John Clohisy, MD
Matthew Dobbs, MD
Richard H. Gelberman, MD
Charles A. Goldfarb, MD
Eric Gordon, MD
Munish Gupta, MD
Michael Kelly, MD
Sandra Klein, MD
Scott J. Luhmann, MD
Matthew J. Matava, MD
Chris McAndrew, MD
Mark Miller, MD
Jeff Nepple, MD
Regis O'Keefe, MD
Daniel Osei, 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, MS, PHD
Professor of Orthopaedic Surgery (primary appointment)
Professor of Cell Biology and Physiology
BS Hebrew University 1985
MS Hebrew University 1987
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)
BS Johns Hopkins University 2006
MD Washington Univ in St. Louis 2010

B

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

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

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

Jacob M Buchowski, MD, MS  
Professor of Orthopaedic Surgery (primary appointment)  
Professor of Neurological Surgery  
BS Yale University 1996  
MD Johns Hopkins University 2000  
MS Yale University 1996  

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

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

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. Viehmann Distinguished Professor of Orthopaedic Surgery (primary appointment)  
MD Northwestern University 1989  
BA Northwestern University 1985  

Berdale S. Colorado, DOST, MS  
Assistant Professor of Orthopaedic Surgery (primary appointment)  
Assistant Professor of Neurology  
DOST Des Moines Universtiy 2009  
BS University of Iowa 2004  
MS Des Moines University 2009  

Laura C DePalma, DOST  
Assistant Professor of Orthopaedic Surgery (Pending Executive Faculty Approval) (primary appointment)  
DOST Phil Coll of Osteopathic Med 2009  

Matthew Barrett Dobbs, MD  
Dr Asa C and Mrs Dorothy W Jones Professorship in Orthopaedic Surgery (primary appointment)  
BS University of Notre Dame 1991  
MD University of Iowa 1995  

Robert Kelso Duddy  
Instructor in Clinical Orthopaedic Surgery (primary appointment)  

Christopher J. Dy, MD, M PH  
Assistant Professor of Orthopaedic Surgery (primary appointment)  
MD University of Miami 2008  
BS University of Miami 2004  
M PH University of Miami 2008  

Kelly Eileen Estes, MS, MD, MPH  
Assistant Professor of Orthopaedic Surgery (primary appointment)  
Assistant Professor of Emergency Medicine in Medicine  
BS Kalamazoo College 2005  
MS Columbia University 2016  
MD Wright State University 2012  
MPH Wright State University 2012  

Lawrence Glennon Evans Jr  
Instructor in Orthopaedic Surgery (primary appointment)  

Roberta Faccio, PHD  
Professor of Orthopaedic Surgery (primary appointment)  
Professor of Cell Biology and Physiology  
PHD University of Bari 2000  

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

J. Eric Gordon, MD
Professor of Orthopaedic Surgery (primary appointment)
BS University of California 1983
MD University of CA Davis 1988

Farshid Guilak, MPH, PhD, MS
Professor of Orthopaedic Surgery (primary appointment)
Professor of Biomedical Engineering
Professor of Development Biology
MPH Columbia University 1990
BS Rensselaer Poly Institute 1985
PHD Columbia University 1992
MS Rensselaer Poly Institute 1987

Munish C Gupta, MD
Mildred B. Simon Distinguished Professor of Orthopaedic Surgery (primary appointment)
MD Northwestern University Med 1986
BS Northwestern University 1982

H

Mark E. Halstead, MD
Associate Professor of Orthopaedic Surgery (primary appointment)
Associate Professor of Pediatrics
MD Univ of Wisconsin Madison 1998
BS Univ of Wisconsin Madison 1994

Damon Joseph Louis Hays, MD
Instructor in Clinical Orthopaedic Surgery (primary appointment)
MD Ohio University 2003
BS Truman State University 1998

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

J

Jeffrey E Johnson, MD
Professor of Orthopaedic Surgery (primary appointment)
BA Duke University 1976
MD Georgetown University 1980

K

Jay Donovan Keener, MD
Associate 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)
BA Williams College 2002
MD Columbia University 2009

Michael Patrick Kelly, MD
Assistant Professor of Orthopaedic Surgery (primary appointment)
Assistant Professor of Neurological Surgery
BS Boston College 1999
MD University of Massachussetts 2005

Sandra E. Klein, BE, MD
Associate Professor of Orthopaedic Surgery (primary appointment)
BE University of Missouri 1994
MD Washington Univ in St. Louis 2001

Robert S Kramer, MD
Instructor in Clinical Orthopaedic Surgery (primary appointment)
BA Harvard University 1979
MD Washington Univ in St. Louis 1983

L

Adam J. LaBore, MD
Associate Professor of Orthopaedic Surgery (primary appointment)
Associate Professor of Neurology
MD Loyola University Chicago 1998
BS Louisiana College 1994

Robert Craig Lander, MD
Instructor in Clinical Orthopaedic Surgery (primary appointment)
BA University of Michigan 1968
MD University of Illinois 1972

Fanxin Long, PHD, MA
Professor of Orthopaedic Surgery (primary appointment)
Professor of Developmental Biology
Professor of Medicine
PHD Tufts University 1997
MA University of CA Santa Barbara 1992
BS Beijing University 1988

Scott J Luhmann, MD
Professor of Orthopaedic Surgery (primary appointment)
BA Gustavus Adolphus College 1986
MD University of Minnesota 1991

Paul Sherman Lux, MD
Associate Professor of Orthopaedic Surgery (primary appointment)
MD Tulane University 1983
Jeffrey Wackher Martin, MD  
Associate Professor in Orthopaedic Surgery (primary appointment)  
MD Case Western Reserve Univ 1981

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  
Assistant Professor of Orthopaedic Surgery (primary appointment)  
MD University of Tennessee 2004

Sarah Howe McBride, PHD, MS  
Adjunct Instructor in Orthopaedic Surgery (primary appointment)  
BS Clemson University 2004  
PHD Case Western Reserve Univ 2011  
MS Case Western Reserve Univ 2008

Jeremy James McCormick, MD  
Associate Professor of Orthopaedic Surgery (primary appointment)  
BS Dartmouth College 1999  
MD Loyola University Chicago 2003

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  
MD University of Texas Galveston 1995  
BS Texas A&M University 1991

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

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)  
BA Vanderbilt University 1998  
MD University of North Carolina 2002

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

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

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

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

Heidi Prather, DOST  
Professor of Orthopaedic Surgery (primary appointment)  
Professor of Neurology  
DOST Univ of Health Sciences KC 1991
BA Drury College 1987

**R**

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

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

**S**

Linda J Sandell, PHD, MS
Mildred B Simon Research Professor of Orthopaedic Surgery (primary appointment)
      Professor of Cell Biology and Physiology
      PHD Northwestern University 1980
      MS University of Denver 1971
      BA University of Denver 1969

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

Hua Shen, MD, PHD, MS
Instructor in Orthopaedic Surgery (primary appointment)
      MD Capital U of Medical Sciences 1991
      PHD University of Konstanz 2002
      MS Chinese Academy of Med Science 1996

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

John Joseph Sheridan, MD
Instructor in Clinical Orthopaedic Surgery (primary appointment)
      BA University of Notre Dame 1965
      MD Washington Univ in St. Louis 1969

Matthew J Silva, PHD, ME
Julia and Walter R Peterson Professor of Orthopaedic Research (primary appointment)
      Assistant Professor of Biomedical Engineering
      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)

**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
Assistant Professor of Orthopaedic Surgery (primary appointment)
      MS Rensselaer Poly Institute 2005
      BS University of CA Berkeley 2003
      PHD Rensselaer Poly Institute 2007

**V**

Harry John Visser, MD
Instructor in Clinical Orthopaedic Surgery (primary appointment)
      MD Medical College of Ohio 1978

**W**

Lindley Bevelle Wall, MD
Assistant Professor of Orthopaedic Surgery (primary appointment)
      BS Duke University 2002
      MD Washington Univ in St. Louis 2006

Devin Ray Willis, MD
Assistant Professor of Orthopaedic Surgery (primary appointment)
      MD Ross Univ School of Medicine 2013

Rick Wayne Wright, MD
Jerome J Gilden MD Distinguished Professor of Orthopaedic Surgery (primary appointment)
      BS University of Missouri 1984
      MD University of Missouri 1988

**Y**

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

Z

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

Courses

For course information, please visit the Surgery page (http://bulletin.wustl.edu/medicine/departments/surgery/#courses) of this Bulletin.