Formal instruction in surgery begins during the third year, with the required 8-week Integrated Surgical Disciplines Clerkship. During this surgical clerkship, students are assigned to clinical rotations, mostly within the Department of Surgery, with some exposure to other surgical-related disciplines outside of the department. The clerkship gives students opportunities to participate in the care of surgical patients (both inpatient and outpatient), to spend time in the operating rooms, and to attend seminars, teaching conferences and didactic sessions on a regular basis. During the fourth year, students may select sub-internship electives within the Division of General Surgery, which include a variety of general surgical specialties. In addition to the general surgery sub-internships, electives are available in several other surgical subspecialties, including pediatric surgery, transplant surgery, vascular surgery, cardiovascular and thoracic surgery, urologic surgery, and plastic and reconstructive surgery.

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

Faculty

Bethany Sacks, MD, MEd
Clerkship Director
Visit our website for more information about our faculty (http://www.surgery.wustl.edu/Faculty/) and their appointments.

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Jeffrey F. Moley Professorship in Endocrine and Oncologic Surgery
Bachelor of Science, University of Wisconsin Madison, 1978
Doctor of Philosophy, University of Wisconsin Madison, 1983
Doctor of Medicine, Washington University in St Louis, 1992

Rami Al-Aref
Instructor in Surgery (General Surgery) (primary appointment)

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Assistant Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)
Bachelor of Science, Pennsylvania State University, 2008
Doctor of Medicine, University of Rochester, 2013

Sunil Apte, MBBS
Assistant Professor of Surgery (Urologic Surgery) (primary appointment)
Foreign MD equivalent, University of Bombay, 1970

Christopher Thomas Arett, M.D.
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Bachelor of Science, Washington University in St Louis, 1999
Doctor of Medicine, Washington University in St Louis, 2003

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Bachelor of Arts, University of Notre Dame, 1964
Doctor of Medicine, Washington University in St Louis, 1968

Travis Atkinson Arnold-Lloyd
Voluntary Clinical Assistant Professor of Surgery

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Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Science, Brown University, 1994
Doctor of Philosophy, Brown University, 2001
Doctor of Medicine, Brown University, 2001

Jeffrey Allen Bailey, M.P.A., M.D.
Professor of Surgery (General Surgery) (primary appointment)
Master of Public Administration, Golden Gate University, 1986
Doctor of Medicine, Saint Louis University, 1996

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Assistant Professor of Anesthesiology
Bachelor of Arts, Brasilia University, 2000
Master of Arts, Brasilia University, 2003
Doctor of Philosophy, Utah State University, 2008

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Doctor of Medicine, Tulane University, 1965

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Associate Professor Emeritus of Clinical Surgery (Cardiothoracic Surgery)
Bachelor of Arts, Washington University in St Louis, 1942
Doctor of Medicine, Washington University in St Louis, 1945

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Instructor in Surgery (Urologic Surgery) (Pending Dean's Approval) (primary appointment)

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Professor of Surgery (Urologic Surgery) (primary appointment)
Robert Killian Royce, M.D. Distinguished Professor of Urologic Surgery
Chief Medical Officer
Bachelor of Science, Cornell University, 1992
Doctor of Medicine, Washington University in St Louis, 1996

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Instructor in Clinical Surgery (General Surgery)
Bachelor of Arts, Youngstown State University, 1962
Doctor of Medicine, Saint Louis University, 1966

Jeffrey Alan Blatnik, M.D.
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Bachelor of Arts, Miami University, 2003
Doctor of Medicine, Case Western Reserve University, 2007

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Section Chief - Division of Acute & Critical Care Surgery
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Master of Public Health, University of Pittsburgh, 1989
Doctor of Medicine, Pennsylvania State University, 1993

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Bachelor of Arts, Miami University, 2003
Doctor of Medicine, Case Western Reserve University, 2007

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Main Campus), 1945
Doctor of Medicine, Washington University in St Louis, 1952

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Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)
William G. Hamm Professor of Surgery (Plastic and Reconstructive Surgery)
Bachelor of Science, Texas A&M University, 1979
Doctor of Medicine, University of Texas Health Science Center, 1983

Taylor Clarke Brown, M.H.S., M.D.
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Bachelor of Science, Rhodes College, 2007
Doctor of Medicine, University of Louisville, 2011
Master of Health Science, Yale University, 2018

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Section Chief - Section of Minimally Invasive
Pratt Professor of Surgery
Bachelor of Arts, University of Mississippi, 1976
Doctor of Medicine, Johns Hopkins University Medical, 1980

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Doctor of Pharmacy, University of Wisconsin Madison, 1999
Doctor of Medicine, University of Wisconsin Madison, 2008

John B Buettner, M.D.
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Bachelor of Arts, Dartmouth College, 1963
Doctor of Medicine, Washington University in St Louis, 1967

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Doctor of Medicine, Johns Hopkins University, 1987

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Associate Professor of Medicine
Master of Public Health, Columbia University, 2009

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Main Campus), 1975

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Associate Professor Emeritus of Clinical Surgery (Urologic Surgery)
Bachelor of Arts, Dartmouth College, 1943
Doctor of Medicine, Yale University, 1947

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Bachelor of Arts, National Chengchi University, 1995
Master of Arts, Massachusetts Institute of Technology, 2004
Doctor of Philosophy, Johns Hopkins University, 2010

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Doctor of Medicine, University of South Carolina, 1984

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Doctor of Medicine, Johns Hopkins University, null

John E. Codd, M.D.
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Bachelor of Arts, Gonzaga University, 1954
Doctor of Medicine, Saint Louis University, 1963

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Master of Public Health, Harvard University, 1982
null, University of Queensland, 1998

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Doctor of Medicine, Indiana University Bloomington, 1985

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Doctor of Medicine, University of Tennessee, 1967

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null, University of Kentucky, 2008
null, Marshall University, 2010
null, West Virginia School of Osteopathic Medicine, 2015

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**D**

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**E**

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Doctor of Science, University of California Los Angeles, 1993
Doctor of Medicine, University of California Los Angeles, 1993

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Doctor of Osteopathic Medicine, Philadelphia College of Osteopathic Medicine, 2009

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Bachelor of Science, University of Central Arkansas, 2011
Doctor of Podiatric Medicine, Rosalind Franklin University of Medicine and Science (Formerly Finch University of Health Sciences), 2016

F

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G

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Professor of Medicine
Doctor of Philosophy, Emory University, 2003

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Doctor of Medicine, Duke University, 1961

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Doctor of Medicine, Northwestern University, 1991

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Bachelor of Arts, Williams College, 1987
Doctor of Medicine, Duke University, 1991

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null, Northwestern University, 1983
null, University of Missouri Columbia, 1987

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Doctor of Medicine, Duke University, 1999

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Bachelor of Science, Xavier University Louisiana, 2001
Doctor of Philosophy, Meharry Medical College, 2009
Doctor of Medicine, Meharry Medical College, 2009

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Associate Professor of Surgery (General Surgery) (primary appointment)
Doctor of Philosophy, Erasmus University Rotterdam, 1989

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Bachelor of Science, Princeton University, 2011
Doctor of Medicine, Case Western Reserve University, 2015

Steven William Guyton
Associate Professor of Clinical Surgery (Cardiothoracic Surgery)

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Professor of Surgery (General Surgery) (primary appointment)
Professor of Health Care Management (Olin School of Business)
Fellow in the Center for Health Policy
Bachelor of Arts, Princeton University, 1984
Doctor of Philosophy, Duke University, 1991
Doctor of Medicine, Duke University, 1992
Master of Business Administration, Harvard University, 2000

Chet Hammill, M.S., M.D.
Associate Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Science, University of Illinois at Urbana–Champaign, 1996
Doctor of Medicine, University of Illinois at Urbana–Champaign, 2004

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Neidorff Family and Robert C Packman Professor
Section Chief - Section of Hepatobiliary-Pancreatic
Bachelor of Arts, New York University, 1991
Doctor of Medicine, State University of New York at Stonybrook, 1995

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Bachelor of Science, Truman State University, 2005
Doctor of Medicine, University of Minnesota, 2010

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Doctor of Medicine, University of Minnesota, 2010

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Professor Emeritus of Surgery
Doctor of Dentistry, Washington University in St Louis, 1969
Master of Science, Case Western Reserve University, 1971
Master of Arts, Washington University in St Louis, 1975

Jean Marie Hunleth, M.P.H., Ph.D.
Assistant Professor of Surgery (Public Health Sciences) (primary appointment)
Instructor of Anthropology (Courtesy Affiliation)
Bachelor of Arts, Vanderbilt University, 1998
Master of Public Health, Northwestern University, 2011
Doctor of Philosophy, Northwestern University, 2011

Steven R Hunt, M.D.
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Bachelor of Arts, Dartmouth College, 1992
Doctor of Medicine, Stanford University, 1997

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Doctor of Medicine, University of Virginia, 2014

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Instructor in Surgery (Cardiothoracic Surgery) (primary appointment)
Doctor of Medicine, University of Rome, 1999

Obeid Noor Ilahi, M.D.
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Doctor of Medicine, Aga Khan University, 1992

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Bachelor of Science, Vanderbilt University, 1998
Doctor of Philosophy, Vanderbilt University, 1992
Doctor of Medicine, Vanderbilt University, 1993

Adeel Khan, M.D.
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Bachelor of Science, Bahria University, 1997
Doctor of Medicine, Aga Khan University, 2002

Saira Khan, M.P.H., Ph.D.
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Bachelor of Science, Southeast Missouri State University, 2004
Master of Public Health, Drexel University, 2008
Doctor of Philosophy, University of North Carolina at Chapel Hill, 2016

Vipul Khetarpaul, M.D.
Assistant Professor of Surgery (General Surgery) (primary appointment)
Assistant Professor of Radiology
Doctor of Medicine, Karnataka Institute of Medical Sciences, 2007

Eric Hwan Kim, M.D.
Associate Professor of Surgery (Urologic Surgery) (primary appointment)
Doctor of Medicine, Washington University in St Louis, 2012

Jae Sung Kim, M.A., Ph.D.
Professor of Surgery (General Surgery) (primary appointment)
Professor of Cell Biology and Physiology
Bachelor of Science, Seoul National University, 1988
Master of Arts, Seoul National University, 1990
Doctor of Philosophy, University of Wisconsin, 1999

John P. Kirby, M.S., M.D.
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Doctor of Medicine, University of Illinois, 1993
Master of Science, University of Illinois, 1999
Jordan Michael Kirsch, M.D.
Instructor in Surgery (Acute and Critical Care Surgery) (Pending Dean's Approval) (primary appointment)
Doctor of Medicine, Rowan University, 2015

Saul Klein, M.D.
Instructor in Clinical Surgery (Urologic Surgery)
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Voluntary Research Associate Professor of Surgery (General Surgery)

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Bachelor of Arts, Washington University in St Louis, 1963
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Bachelor of Science, SUNY Downstate Health Sciences University, 1997
Bachelor of Science, SUNY Geneseo, null

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Bachelor of Arts, Saint Johns College, 1999
Doctor of Medicine, Emory University, 2007

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Doctor of Medicine, Grant Medical College, 2004

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Bachelor of Science, University of Rochester, 1993
Doctor of Medicine, University of Rochester, 1997

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Doctor of Medicine, University of Colorado Anschutz Medical Campus, 2014
Bachelor of Science, Johns Hopkins University, null

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G Alexander Patterson MD and Mid America Transplant Endowed Distinguished Chair in Lung Transplantation

Doctor of Medicine, Mount Sinai School of Medicine, 1995
Doctor of Philosophy, University of Pennsylvania, 2002

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Doctor of Medicine, Cornell University, 1999

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Bachelor of Arts, Colorado College, 1999
Doctor of Philosophy, Mayo Clinic, 2011
Doctor of Medicine, Mayo Clinic, 2011

Wenjun Li, M.S., M.D.
Associate Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
Doctor of Medicine, Guangdong Medical College, 1991
Doctor of Philosophy, Clemson University, 2004

Xiaowei Li, M.S., Ph.D.
Assistant Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)
Bachelor of Science, Fisher More College, 2002
Master of Science, Fisher More College, 2005
Doctor of Philosophy, Clemson University, 2012

Jerry Michael Liddell, D.P.M.
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Bachelor of Science, University of Utah, 1995
Doctor of Podiatric Medicine, Ohio College of Podiatric Medi, 2002

Deacon Jones Lile, M.D.
Adjunct Assistant Professor of Surgery (General Surgery)
Doctor of Medicine, Drexel University, 2014

Yiing Lin, Ph.D., M.D.
Associate Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Science, Duke University, 1997
Doctor of Philosophy, Washington University in St Louis, 2005
Doctor of Medicine, Washington University in St Louis, 2005

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Assistant Professor of Surgery (Public Health Sciences) (primary appointment)
Bachelor of Science, Washington University in St Louis, 2000
Master of Science, Northwestern University, 2003
Doctor of Philosophy, University of Michigan, 2014

Ying Liu, Ph.D., M.D.
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Doctor of Medicine, Florida Beacon Bible College, 1995
Doctor of Philosophy, Texas Tech University, 2006

Alan M Londe, M.D.
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Doctor of Medicine, Washington University in St Louis, 1961

Jeffrey A Lowell, M.D.
Professor Emeritus of Surgery
Bachelor of Arts, Oberlin College, 1981
Doctor of Medicine, Yale University, 1985

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Associate Professor of Surgery (Public Health Sciences) (primary appointment)
Associate Professor of Biostatistics
Bachelor of Science, Nankai University, 1997
Master of Science, National Univ of Singapore, 2002
Doctor of Philosophy, Medical College of Wisconsin, 2007

Mark A Ludwig, M.D.
Instructor in Clinical Surgery (General Surgery)
Bachelor of Arts, Emory University, 1972
Doctor of Medicine, University of Chicago, 1976

Chongliang Luo, Ph.D.
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Doctor of Philosophy, University of Connecticut, 2017

Jingqin Luo, M.S., Ph.D.
Associate Professor of Surgery (Public Health Sciences) (primary appointment)
Associate Professor of Medicine
Associate Professor of Biostatistics
Bachelor of Science, Queen of The Holy Rosary College, 1998
Master of Science, Queen of The Holy Rosary College, 2001
Doctor of Philosophy, Duke University, 2006

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Professor of Otolaryngology
Professor of Occupational Therapy
Minot Packer Fryer Professor of Plastic Surgery
Bachelor of Arts, Queens College, 1971
Doctor of Medicine, Queen's University, 1975

Kiran Mahajan, M.S., Ph.D.
Assistant Professor of Surgery (Urologic Surgery) (primary appointment)
Master of Science, Madurai Kamaraj University, 1991
Doctor of Philosophy, Indian Institute of Science, 1998

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Professor of Surgery (Urologic Surgery) (primary appointment)
Endowed Professorship of Urologic Surgery Research

Doctor of Philosophy, Indian Institute Of Technology, 1997

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Doctor of Medicine, Ohio State University, 2011

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Adjunct Lecturer
null, Centre College, 2012
null, Washington University in St Louis, 2014
null, Washington University in St Louis, 2022

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Professor of Surgery (General Surgery) (primary appointment)
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Doctor of Medicine, Southern Illinois University, 1997

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Doctor of Medicine, Dow Medical College Karachi, 2001

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Master of Science, University of Wisconsin Madison, 1975
Doctor of Medicine, University of California Los Angeles, 1981
Doctor of Philosophy, University of Minnesota, 1993

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Michelle Leah Medintz
Voluntary Clinical Assistant Professor of Surgery

Syed Mehmood
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Bachelor of Science, Brigham Young University, 1997
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Doctor of Medicine, University of Chicago, 1986

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Bachelor of Science, Indiana University Bloomington, 2020
Doctor of Medicine, Indiana University Indianapolis, 2020

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Bachelor of Science, Saint Louis University, 1972
Doctor of Medicine, Saint Louis University, 2000

Nabil A Munfakh, M.D.
Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
Bachelor of Science, University of Michigan, 1981
Doctor of Medicine, University of Michigan, 1985

Gregory P Murphy, M.D.
Associate Professor of Surgery (Urologic Surgery) (primary appointment)
Bachelor of Arts, Tufts University, 2006
Doctor of Medicine, University of Massachusetts, 2011

Matthew G Mutch, M.D.
Professor of Surgery (General Surgery) (primary appointment)
Section Chief - Section of Colon-Rectal Surgery
Bachelor of Science, University of Northern British Columbia, 1994
Doctor of Medicine, University of Northern British Columbia, 1997

Terence M. Myckatyn, M.D.
Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)
Bachelor of Science, University of Northern British Columbia, 1997
Doctor of Medicine, University of Northern British Columbia, 2003

Nabil A Munfakh, M.D.
Associate Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
Bachelor of Science, University of California Berkeley, 1995
Doctor of Medicine, New York University School of Medicine, 1999

Ruben Nava, M.D.
Assistant Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
Doctor of Medicine, University of Armed Forces, 2000

Thoi Hieu Ngo, M.D.
Assistant Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Science, University of Maryland, 2010
Doctor of Medicine, New York Medical College, 2014

Dennis Nguyen, M.S., M.D.
Assistant Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)
Bachelor of Science, University of California Irvine, 2005
Master of Science, University of California Berkeley, 2009
Doctor of Medicine, University of California San Francisco, 2011

Thomas E Niesen, M.D.
Instructor in Clinical Surgery (General Surgery)
Bachelor of Science, Tulane University, 1975
Doctor of Medicine, Tulane University, 1979

Richard James Nissen, M.S., D.Dent.
Assistant Professor of Clinical Surgery (Plastic and Reconstructive Surgery) (primary appointment)
Bachelor of Science, University of Iowa, 1983
Doctor of Medicine, University of Iowa, 1985

Charles Upshur Nottingham, M.D.
Assistant Professor of Surgery (Urologic Surgery) (primary appointment)
Bachelor of Science, Wake Forest University, 2006
Doctor of Medicine, Virginia Commonwealth University, 2012

Anthony Ian Nunez
Instructor in Clinical Surgery (Cardio Surgery)

O

John Wesley Ohman, M.D.
Associate Professor of Surgery (General Surgery) (primary appointment)
Associate Professor of Radiology
Bachelor of Science, University of Texas Austin, 2008
Doctor of Medicine, University of Texas Health Science Center, 2012

Kerri A Ohman, M.D.
Assistant Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Science, University of Michigan, 2008
Doctor of Medicine, University of Michigan, 2012

George A Oliver, M.D.
Assistant Professor Emeritus of Clinical Surgery (General Surgery)
Bachelor of Arts, Washington University in St Louis, 1948
Doctor of Medicine, Washington University in St Louis, 1952

John A Olson, Ph.D., M.D.
Professor of Surgery (General Surgery) (primary appointment)
Bixby Professor of Surgery (General Surgery)
Head of the Department of Surgery
Bachelor of Science, University of Michigan Ann Arbor, null
Doctor of Philosophy, University of Florida, null
Doctor of Medicine, University of Florida, null

Tiffany Medlin Osborn, M.P.H., M.D.
Professor of Surgery (General Surgery) (primary appointment)
Professor of Emergency Medicine
Bachelor of Science, University of Houston, 1992
Doctor of Medicine, University of Texas Health Sciences at San Antonio, 1997
Master of Public Health, London Hygiene & Tropical Med, 2009

Twinkle Kumar Samudra Pandian, M.P.H., M.D.
Assistant Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Science, University of Minnesota, 2006
Master of Public Health, Johns Hopkins University, 2010
Doctor of Medicine, Mayo Clinic, 2011

Sharad P Parikh
Instructor in Clinical Surgery (General Surgery)

Yikyung Park, M.S., Ph.D.
Associate Professor of Surgery (Public Health Sciences) (primary appointment)
Bachelor of Science, EWHA Womans University, 1994
Master of Science, EWHA Womans University, 1996
Doctor of Philosophy, Harvard University, 2005

Charles L Parks, M.D.
Instructor in Clinical Surgery (General Surgery)
Bachelor of Science, University of South Dakota, 1967
Doctor of Medicine, Washington University in St Louis, 1969

Jeffrey Andrew Parres, M.D.
Instructor in Clinical Surgery (Urologic Surgery)
Bachelor of Arts, Washington University in St Louis, 1983
Doctor of Medicine, University of Missouri Columbia, 1987

Michael K Pasque, M.D.
Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
Professor of Biomedical Engineering
Professor of Radiology
Doctor of Medicine, University of Oklahoma, 1978

Kamleshkumar Patel, M.D.
Associate Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)
Bachelor of Science, University of Missouri Kansas City, 2000
Doctor of Medicine, University of Arizona, 2005

G Alexander Patterson, M.D.
Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
Joseph C Bancroft Professor of Surgery (Cardiothoracic Surgery)
Doctor of Medicine, Queen's University, 1974

Amit Audumbar Pawale
Associate Professor of Surgery (Cardiothoracic Surgery) (Pending Executive Faculty Approval) (primary appointment)

Enrique Pedro Perinetti, Ph.D., M.D.
Instructor in Clinical Surgery (Urologic Surgery)
Doctor of Medicine, School Not Listed, 1969
Doctor of Philosophy, School Not Listed, 1975

Mitchell A Pet, M.D.
Assistant Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)
Doctor of Medicine, Washington University in St Louis, 2011

Gordon W Philpott, M.D.
Professor Emeritus of Surgery (General Surgery)
Bachelor of Science, Yale University, 1957
Doctor of Medicine, Washington University in St Louis, 1961

Varun Puri, M.S., M.D.
Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
India Inst of Medical Sci, 1998
Master of Science, Creighton University, 2007
Doctor of Medicine, Washington University in St Louis, 2009

Nishant Raj, M.D.
Assistant Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Science, Saint Johns University, 2004
Doctor of Medicine, Ross University School of Medicine, 2009

Antonella Luisa Rastelli, M.D.
Associate Professor of Surgery (General Surgery)
Bachelor of Arts. University of Verona, 1984
Doctor of Medicine, University of Verona, 1991

Shuddhadeb Ray, M.D.
Assistant Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
Doctor of Medicine, KANSAS UNIVERSITY SCHOOL OF MEDICINE, 2011

Nanette Rahee Reed, M.D.
Assistant Professor of Surgery (General Surgery) (primary appointment)
Assistant Professor of Radiology
Bachelor of Science, University of Notre Dame, 2000
Doctor of Medicine, Baylor College of Medicine, 2004

Frank O Richards, M.D.
Assistant Professor Emeritus of Clinical Surgery (General Surgery)
Bachelor of Arts, Talladega College, 1944
Doctor of Medicine, Howard University, 1947

Shale M Rifkin, M.D.
Assistant Professor of Clinical Surgery (General Surgery)
Doctor of Medicine, Washington University in St Louis, 1948

Harold G Roberts, M.D.
Associate Professor of Surgery (Cardiothoracic Surgery)
(secondary appointment)
Bachelor of Arts, Hendrix College, 1977
Doctor of Medicine, University of Arkansas for Medical Sciences, 1981

Brian G Rubin, M.D.
Professor of Surgery (General Surgery) (primary appointment)
Professor of Radiology
Bachelor of Arts, Colgate University, 1979
Doctor of Medicine, University of Vermont, 1984

Bethany Cara Sacks, M.Ed., M.D.
Associate Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Science, Connecticut College, 1995
Doctor of Medicine, Mount Sinai School of Medicine, 1999
Master of Education, University of Houston, 2010

Justin M Sacks, M.B.A., M.D.
Professor of Surgery (Plastic and Reconstructive Surgery)
(secondary appointment)
Division Chief - Division of Plastic Surgery
Sydney M Jr and Robert H Shoenberg Endowed Chair in Plastic & Reconstructive Surgery
Bachelor of Science, Cornell University, 1993
Doctor of Medicine, Mount Sinai School of Medicine, 1998
Master of Business Administration, Johns Hopkins University, 2015

Adnan Sadiq, M.D.
Assistant Professor of Surgery (Cardiothoracic Surgery)
Bachelor of Science, State University of New York at Buffalo, 1996
Doctor of Medicine, Royal College of Surgeons, 2001

Jacqueline Mitsouko Saito, M.D.
Associate Professor of Surgery (Pediatric Surgery) (primary appointment)
Bachelor of Science, Harvard University, 1989
Doctor of Medicine, Columbia University, 1993

Elizabeth Ann Salerno, M.P.H., Ph.D.
Assistant Professor of Surgery (Public Health Sciences) (primary appointment)
Bachelor of Science, University of Illinois at Urbana–Champaign, 2012
Doctor of Philosophy, University of Illinois at Urbana–Champaign, 2017
Master of Public Health, Johns Hopkins University, 2018

Luis A Sanchez, M.D.
Professor of Surgery (General Surgery) (primary appointment)
Professor of Radiology
Gregorio A. Sicard Distinguished Professor
Section Chief - Section of Vascular
Bachelor of Science, Yale University, 1983
Doctor of Medicine, Harvard University, 1987

Kenneth Gordon Sands, M.B.A., D.O.
Assistant Professor of Surgery (Urologic Surgery) (primary appointment)
Master of Business Administration, Lincoln Memorial University, 2014
Doctor of Osteopathic Medicine, Lincoln Memorial University, 2014

Dominic Sanford, M.D.
Assistant Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Science, Maryville University, 2005
Doctor of Medicine, University of Missouri Columbia, 2009

Donald C Sauer, M.D.
Assistant Professor Emeritus of Clinical Surgery (General Surgery)
Bachelor of Arts, Washington University in St Louis, 1956
Doctor of Medicine, Washington University in St Louis, 1960

Matthew Robert Schill, M.D.
Instructor in Surgery (Cardiothoracic Surgery) (primary appointment)
Bachelor of Science, University of Iowa, Null
Doctor of Medicine, Washington University in St Louis, null

Douglas J Schuerer, M.D.
Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Science, Allegheny College, 1991
Maryls E Schuh, M.D.
Instructor in Clinical Surgery (General Surgery)
Bachelor of Science, University of North Dakota, 1973
Doctor of Medicine, Washington University in St Louis, 1979

Debra L Seoane, M.D.
Instructor in Clinical Surgery (General Surgery)
Doctor of Medicine, University of Miami, 1986

Baddr Ahed Shakhsheer, M.D.
Assistant Professor of Surgery (Pediatric Surgery) (primary appointment)
Bachelor of Arts, University of Virginia, 2005
Doctor of Medicine, Eastern Virginia Medical School, 2010

Surendra Shenoy, Ph.D., M.D.
Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Science, Kasturba Medical College, 1980
Doctor of Medicine, Kasturba Medical College, 1984
Doctor of Philosophy, Institute of Medical Science, 1989

Sachin Mahavir Shridharani
Adjunct Associate Professor of Surgery (Plastic and Reconstructive Surgery)

Gregorio A Sicard, M.D.
Emeritus Professor of Surgery
Bachelor of Science, Saint Louis University, 1965
Doctor of Medicine, University of Puerto Rico (Duplicate of University of Puerto Rico), 1972

Michelle Ilana Silver, M.S., Ph.D.
Assistant Professor of Surgery (Public Health Sciences) (primary appointment)
Bachelor of Science, Stanford University, 2007
Master of Science, Johns Hopkins University, 2009
Doctor of Philosophy, Johns Hopkins University, 2015

Matthew Leon Silviera, M.S., M.D.
Assistant Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Science, Pennsylvania State University, 2001
Doctor of Medicine, Temple University, 2005
Master of Science, Temple University, 2010

David Siroospor, M.D.
Assistant Professor of Clinical Surgery (General Surgery)
Doctor of Medicine, School Not Listed, 2000

Arjun Sivaraman, M.D.
Assistant Professor of Surgery (Urologic Surgery) (primary appointment)
Doctor of Medicine, Madras Medical College, 2005

Woodson Smelser
Assistant Professor of Surgery (Urologic Surgery) (Pending Executive Faculty Approval) (primary appointment)

Radhika K Smith, M.D.
Assistant Professor of Surgery (General Surgery) (primary appointment)
Doctor of Medicine, University of Missouri Kansas City, 2010

Zachary Lee Smith, M.D.
Assistant Professor of Surgery (Urologic Surgery) (primary appointment)
Doctor of Medicine, University of Missouri Kansas City, 2010

Jason Andrew Snyder, M.D.
Assistant Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Science, Kettering University, 2004
Doctor of Medicine, Marshall University, 2008

Alison K Snyder-Warwick, M.D.
Associate Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)
Bachelor of Science, Knox College, 2000
Doctor of Medicine, Washington University in St Louis, 2004

Dirk M Spitzer, Ph.D.
Assistant Professor of Surgery (General Surgery) (primary appointment)
Doctor of Philosophy, Technische U Braunschweig, 1999

Marguerite Spruce, M.D.
Voluntary Clinical Assistant Professor of Surgery
Bachelor of Science, University of Missouri Columbia, 2011
Doctor of Medicine, University of Missouri Columbia, 2015

Charlie Srivilasa
Adjunct Assistant Professor of Surgery

Jessica Staszak, M.S., M.D.
Instructor in Surgery (Acute and Critical Care Surgery) (Pending Dean’s Approval) (primary appointment)
Bachelor of Science, Boston University, null
Master of Science, Georgetown University, null
Doctor of Medicine, Georgetown University, null

Alan Joel Stein, M.D.
Assistant Professor of Clinical Surgery (Urologic Surgery)
Bachelor of Science, University of Wisconsin Madison, 1972
Doctor of Medicine, Wayne State University, 1976

Melissa Kay Stewart, M.D.
Assistant Professor of Surgery (General Surgery) (primary appointment)
Doctor of Medicine, University of Pittsburgh, 2011

Daniel Charles Stoeckel
Instructor in Clinical Surgery

Steven M Strasberg, M.D.
Professor Emeritus of Surgery
Doctor of Medicine, University of Toronto, 1963

Herbert Sunshine, M.D.
Assistant Professor of Clinical Surgery (Urologic Surgery)
Bachelor of Arts, Washington University in St Louis, 1950
Doctor of Medicine, Washington University in St Louis, 1954

Siobhan Sutcliffe, M.H.S., M.S., Ph.D.
Professor of Surgery (Public Health Sciences) (primary appointment)
Bachelor of Science, Washington University in St Louis, 1982
Master of Science, Johns Hopkins University, 2001
Doctor of Philosophy, Johns Hopkins University, 2005

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Tsuyoshi Takahashi, Ph.D., M.D.
Instructor in Surgery (Cardiothoracic Surgery) (primary appointment)
Bachelor of Science, Tokushima University, 2007
Doctor of Philosophy, University of Tokyo, 2018

Shoichiro Alberto Tanaka, M.P.H., M.D.
Assistant Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)
Bachelor of Science, University of Dallas, 2006
Master of Public Health, Tulane University, 2008
Doctor of Medicine, Texas A&M Health Science Center, 2012

Marissa Morningstar Tenenbaum, M.D.
Associate Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)
Bachelor of Science, University of Wisconsin Madison, 1998
Doctor of Medicine, Washington University in St Louis, 2002

Gregory S Tentindo
Voluntary Clinical Instructor of Surgery

David J Testrake
Voluntary Clinical Assistant Professor of Surgery

Ajit K Tharakan
Visiting Assistant Professor of Surgery

Lewis Jones Thomas, M.D.
Assistant Professor of Surgery (Urologic Surgery) (Pending Executive Faculty Approval) (primary appointment)
Bachelor of Science, Washington University in St Louis, 2008
Doctor of Medicine, University of Missouri Columbia, 2012

Robert W Thompson, M.D.
Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Arts, Hope College, 1979
Doctor of Medicine, University of Michigan, 1983

Adetunji Toriola, M.P.H., MB.ChB., Ph.D.
Professor of Surgery (Public Health Sciences) (primary appointment)
null, Obafemi Awolowo University, 1998
null, University of Kuopio, 2007
Doctor of Philosophy, University of Tampere, 2011

Ralph J Torrence, M.D.
Asst Prof of Clinical Surgery (Urologic Surgery)
Doctor of Medicine, Georgetown University, 1983

Erica J Traxel, M.D.
Associate Professor of Surgery (Urologic Surgery) (primary appointment)
Bachelor of Science, Texas A&M University, 1998
Doctor of Medicine, Beaufort Technical College, 2002

Thomas H Tung, M.D.
Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)
Bachelor of Science, Duke University, 1986
Doctor of Medicine, University of Maryland, 1990

Isaiah Turnbull, M.S., M.D.
Associate Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Science, University of Oregon, 1998
Master of Science, Washington University in St Louis, 2008
Doctor of Medicine, Washington University in St Louis, 2008

Kelly Jean Vallar, M.D.
Assistant Professor of Surgery (General Surgery) (primary appointment)
Doctor of Medicine, University of Missouri Kansas City, 2011

Jesse Daya Vrecenak, M.D.
Assistant Professor of Surgery (Pediatric Surgery) (primary appointment)
Bachelor of Science, Yale University, 2003
Doctor of Medicine, University of Pennsylvania, 2007

Gino J Vricella, M.D.
Assistant Professor of Surgery (Urologic Surgery) (primary appointment)
Doctor of Medicine, University of Missouri Columbia, 2006
Bachelor of Science, Saint Louis University, 2012

Howard S Walker, M.D.
Instructor in Clinical Surgery (Cardiothoracic Surgery)
Bachelor of Arts, Citadel Military College of South Carolina, 1971
Doctor of Medicine, Beaufort Technical College (Duplicate of Technical College of the Lowcountry), 1974

Lisa Marie Waller, M.S., Ph.D.
Professor of Surgery (Public Health Sciences) (primary appointment)
Bachelor of Science, Concordia College, 1982
Master of Science, University of Memphis, 1991
Doctor of Philosophy, University of Minnesota, 1995
Fei Wan, M.S., Ph.D.
Associate Professor of Surgery (Public Health Sciences) (primary appointment)
Master of Science, University of Vermont, 2001
Doctor of Philosophy, University of Pennsylvania, 2015

Zachary James Wanken, M.S., M.D.
Assistant Professor of Surgery (General Surgery) (primary appointment)
Doctor of Medicine, Saint Louis University, 2015
Master of Science, Dartmouth College, 2019

Brad W. Warner, M.D.
Professor of Surgery (Pediatric Surgery) (primary appointment)
Professor of Pediatrics
Division Chief - Division of Pediatric Surgery
Jessie L. Temberg, M.D., PhD. Distinguished Professor of Pediatric Surgery in Surgery (Pediatric Surgery)
Bachelor of Science, University of Missouri Kansas City, 1982
Doctor of Medicine, University of Missouri Kansas City, 1982

Erika Waters, M.P.H., M.S., Ph.D.
Professor of Surgery (Public Health Sciences) (primary appointment)
Bachelor of Science, Arizona State University, 1999
Master of Science, Rutgers University, 2003
Doctor of Philosophy, Rutgers University, 2006
Master of Public Health, Johns Hopkins University Medical, 2007

Michael D Weiss, D.P.M.
Assistant Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Science, Ohio State University, 1977
Doctor of Podiatric Medicine, Ohio College of Podiatric Medi, 1981

Jason R Wellen, M.D.
Associate Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Science, Emory University, 1998
Doctor of Medicine, Saint George's University, 2002

Samuel A Wells, M.D.
Professor Emeritus of Surgery
Doctor of Medicine, Emory University, 1961

Amanda Meppelink Westman, Ph.D.
Assistant Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)
Bachelor of Science, Washington University in St Louis, 2012
Doctor of Philosophy, University of Virginia, 2020

Brad C White, M.D.
Instructor in Clinical Surgery (Urologic Surgery)
Bachelor of Science, Illinois State University, 1986
Doctor of Medicine, Loyola University Chicago, 1993

Paul Edward Wise, M.D.
Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Science, Georgetown University, 1992
Doctor of Medicine, John Hopkins University, 1996

Brian Wing-Chi Wong, Ph.D.
Assistant Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Science, University of British Columbia, 2001
Doctor of Philosophy, University of British Columbia, 2011

Matthew D Wood, M.S., Ph.D.
Assistant Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)
Bachelor of Science, Saint Louis University, 2005
Master of Science, Washington University in St Louis, 2008
Doctor of Philosophy, Washington University in St Louis, 2009

Yan Yan, M.H.S., Ph.D., M.D.
Professor of Surgery (Public Health Sciences) (primary appointment)
Professor of Biostatistics
Doctor of Medicine, Nanjing Medical University, 1983
Master of Health Science, Johns Hopkins University, 1995
Doctor of Philosophy, Johns Hopkins University, 1998

Muhammad T Yasin, M.D.
Assistant Professor of Surgery (General Surgery) (primary appointment)
Doctor of Medicine, Punjab University, 1985

William D Yates, M.D.
Instructor in Clinical Surgery (General Surgery)
Bachelor of Arts, Northwestern University, 1983
Doctor of Medicine, Northwestern University, 1985

Andrew Yeh, M.D.
Assistant Professor of Surgery (Pediatric Surgery) (Pending Executive Faculty Approval) (primary appointment)
null, University of Toronto, 2007
null, University of Hawaii Oahu, 2012

Robert A Young, M.S., J.D., M.D.
Instructor in Clinical Surgery (Plastic and Reconstructive Surgery)
Bachelor of Arts, University of Michigan (Duplicate of University of Michigan Ann Arbor), 1973
Main Campus), 1975
Main Campus), 1978
Juris Doctor, Saint Louis University, 1997

Jennifer Yu, M.S., M.D.
Assistant Professor of Surgery (General Surgery) (Pending Executive Faculty Approval) (primary appointment)
Bachelor of Science, Washington University in St Louis, 2020
Master of Science, Washington University in St Louis, 2020
Doctor of Medicine, Washington University in St Louis, 2020
Mohamed A Zayed, Ph.D., M.D.
Associate Professor of Surgery (General Surgery) (primary appointment)
Associate Professor of Radiology
Bachelor of Science, University North Carolina, 2002
Doctor of Philosophy, University of North Carolina, 2007
Doctor of Medicine, University of North Carolina, 2009

Christian W Zemlin, Ph.D.
Associate Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
Doctor of Philosophy, Humboldt University, 2012

Research Electives
Surgery Research Electives
During the fourth year, opportunities exist for many varieties of advanced clinical or research experiences.

For the most up-to-date medical student research opportunities, please visit the Research page of the Department of Surgery website (https://surgery.wustl.edu/research/).

Section of Minimally Invasive Surgery
660 S. Euclid, Box 8109
Phone: 314-454-8877

Under the direction of L. Michael Brunt, MD, students may investigate minimally invasive gastrointestinal and hernia surgery. The minimum rotation length is four weeks. Under the auspices of the Section of Minimally Invasive Surgery and the Washington University Institute for Minimally Invasive Surgery, a number of surgeons are investigating outcomes of various minimally invasive surgical approaches to abdominal wall hernias, benign foregut disorders, bariatric surgery and cholecystectomy. Dr. Brunt is currently investigating the clinical outcomes and standardization of various laparoscopic surgical procedures, opioid prescribing patterns and opioid use in surgical patients, and education-related research and skills training for medical students planning to enter a surgical internship.

Division of Plastic and Reconstructive Surgery
660 S. Euclid, Box 8238
Phone: 314-747-0541

The Division of Plastic Surgery offers many opportunities for research projects on various topics related to plastic surgery. A project will be designed with students prior to their rotation on plastic surgery so that all of the materials and methods will be available at the beginning of the rotation. The basic science laboratories primarily investigate nerve injury and regeneration, including nerve transplantation. Students will be encouraged to design and complete their own research study during the elective. The minimum rotation length is six weeks.

The research rotation can be conducted in the plastic surgery laboratories under the direction of Drs. Moore, Snyder-Warwick, Wood or Mackinnon. Ongoing projects include the following:

- The influence of the immune system on nerve regeneration;
- Neural tissue engineering and regenerative medicine therapeutics, such as electrical stimulation to promote tissue regeneration
- The investigation of glial cells at the neuromuscular junction during development, maintenance, aging, and after nerve injury

Additional clinical and educational research opportunities in various fields of plastic surgery are available with Drs. Fox, Myckatyn, Patel, Tung, and Woo. These various projects include the following:

- In vivo tissue generation and tissue differentiation
- The mechanical, structural and biochemical effects of stress on scar tissue maturation
- In vivo anatomy of craniofacial deformities
- Outcome analysis of methods of cleft lip and palate management
- Breast reconstruction (3D imaging of breasts after cosmetic or reconstructive surgery, interpretation of angiograms of the breast to measure nipple perfusion)
- The use of nerve transfer to improve hand function in patients with cervical spinal cord injury/quadriplegia
- Surgical education (specifically web-based multimedia strategies for peripheral nerve surgery education)

The Department of Surgery can host Washington University medical students in any of its labs either to receive credit for a class they are currently enrolled in or to add them into the system as Washington University student employees to be paid for their time worked. Student work may be obtained through the Federal Work-Study program, the Office of Medical Student Research, or direct communication initiated by the student with faculty they wish to work alongside on specific subjects of interest with the goal of furthering their education. This can occur during any year of a medical student’s education.

Courses
M95 Surgery 790 Integrated Surgical Disciplines Clerkship
During the 8-week surgery clerkship, each student is assigned to separate rotations. Each student is assigned to a required general surgery rotation at Barnes-Jewish Hospital or the John Cochran Veterans Administration Medical Center. In addition, each student selects elective rotations in other general surgical fields, surgical subspecialties and related disciplines of critical care. The student is an active participant in the daily care of patients on each service and attends the service teaching conferences and rounds. For the duration of the 8-week rotation, there are weekly small-group tutorial sessions with faculty members and a biweekly lecture series.

Credit 308 units.

M95 Surgery 814 Trauma Service Subinternship
The student on this elective will function as a subintern on the Trauma and Acute Care Surgical Service within the Section of Acute and Critical Care Surgery. Through completion of this subinternship, the student will gain an ability to evaluate, resuscitate and manage trauma and emergency general surgery patients. Subinterns will actively interact with patients in the outpatient office, hospital ward and operating room. Practical experience will involve preoperative patient evaluation, resuscitation of acutely ill patients, operative patient management, in-hospital patient care and postoperative outpatient follow-up. The student will also participate in affiliated conferences and in-house call.

M95 Surgery 818 Surgical Night Float & ED Subinternship
This subinternship is specifically designed to give senior medical students an intern-level experience in managing acute on-call problems in surgical patients and in evaluating urgent and emergent problems in the ED. The rotation will be divided into two, two-week segments: one segment in the ED and the second on night float call on the surgical floors. Students will gain experience evaluating and managing the types of acute problems they will encounter as surgical interns as first responders to patients with acute abdominal pain, chest pain, hypotension, mental status changes, and other ER/on-call type problems. They will be assigned to the on-call surgical resident and will have a structured experience in order to maximize development of their diagnostic, management, and case presentation skills in the acute care setting so that they may more smoothly make the transition to a surgical internship.

M95 Surgery 820 Cardiothoracic Surgery Subinternship
The subinternship in cardiothoracic surgery is a four-week clinical rotation with two-week blocks divided between adult cardiac, pediatric cardiothoracic, and general thoracic surgery (according to the student’s preference). Students will participate in morning work rounds, attend the operative procedures of their choice, and attend weekly conferences and teaching rounds. Students will be introduced not only to the surgical procedures, but also to the postoperative care of the surgical patients. On the pediatric and adult cardiac services, students will be introduced to the management of coronary artery bypass, repair of congenital heart defects, ventricular assist devices, heart lung transplantation and procurement, coronary artery bypass surgery (on and off pump), valve repair and replacement, complex aortic surgery, the MAZE procedures and others. On the adult cardiac surgery service, students will function as sub-interns under the direct supervision of a faculty member. On the thoracic surgical rotation, students will have the opportunity to perform bronchoscopy, esophagoscopy, gastroscopy, and participate in surgical resections of lung cancer and esophageal cancer, as well as surgery for emphysema and for benign esophageal conditions. Students will also participate in lung transplantation surgery. Medical students are also invited to participate in ongoing research projects under the mentorship of surgery faculty. Please contact course director if you are interested in this option.

M95 Surgery 830 Plastic & Reconstructive Surgery Subinternship
The period on Plastic Surgery may either be spent as a clinical clerkship or conducting a research project. The purpose of the clinical subinternship is to familiarize the student with the basic principles of Plastic Surgery. The student will have successive assignments to each of the attending staff and the ward resident. During the four weeks, the student will expose the student to the breadth and depth of plastic surgery. Alternatively, if the student has identified a focus of interest, the student may participate on those services of special interest, such as hand or pediatric plastic surgery. The student will assume an active role on the plastic surgery service and will participate in the total management of a wide variety of surgical problems including congenital anomalies, microvascular surgery, surgery of the upper extremity, peripheral nerve surgery, cosmetic surgery, and general reconstructive plastic surgery. Research projects should be student-motivated, and must be approved prior to scheduling and confirming the research rotation. Student will perform a ten-minute case presentation.

M95 Surgery 832 Plastic Surgery Externship
This course is for visiting medical students only. Students rotate on different Plastic Surgery Services for two weeks each to maximize exposure to all faculty. The student will assume an active role on the plastic surgery service and will participate in the total management of a wide variety of surgical problems including congenital anomalies, microvascular surgery, surgery of the upper extremity, peripheral nerve surgery, cosmetic surgery, and general reconstructive plastic surgery. Participation in conferences is expected. Students will turn in two H&Ps.

M95 Surgery 850 Urology Subinternship
The four-week clinical subinternship will offer the interested student experience with a spectrum of problems in clinical urology - both adult and pediatric. The student will learn the basic diagnostic procedures and management of surgical and non-surgical aspects of patient care under the supervision of the attending staff and house staff. Clinical conferences are held two days per week. Medical students are also invited to participate in ongoing research projects under the mentorship of urology faculty. Please contact course director prior to the start of the elective if you are interested in this option.

M95 Surgery 850A Urology Subinternship with Research
The four-week elective will offer exposure to the full spectrum of problems in clinical urology (adult and pediatric). The student will learn the basic diagnostic procedures and management of surgical and nonsurgical aspects of patient care under the supervision of the attending staff and house staff. Clinical conferences are held one to two days per week.

M95 Surgery 862 Colon & Rectal Surgery Subinternship
This subinternship elective is designed to give students in-depth experience in the clinical management of patients on the Colorectal Surgery Service. Students work closely with the attendings within the Section of Colon and Rectal Surgery, and
clinical exposure is focused on a wide range of benign and malignant colorectal diseases. There is exposure to radiation oncology and the specialized areas of nursing related to care of patients with colorectal cancer and inflammatory bowel disease. The course will offer opportunities for students to gain experience in preoperative, intraoperative and postoperative, patient management under house staff, fellows, and faculty guidance, as well as ample opportunity to attend and participate in conferences. Notice: If a student desires to work more closely with a specific attending, he/she must make special arrangements with the Colorectal Surgery Office prior to beginning this elective.

M95 Surgery 863 Surgical Oncology & Endocrine Surgery Subinternship
This subinternship is designed to give students in-depth experience in the clinical management of patients on the Endocrine and Surgical Oncology Service (Unit I Service). Students will serve as clerks and will be responsible for patient management with house staff under the guidance of the chief resident and attending surgeons. Clinical exposure is focused on thyroid and parathyroid surgery, as well as breast oncology, melanoma, and soft-tissue sarcomas. The course will offer opportunities for students to gain experience in preoperative, intraoperative, and postoperative patient management. There will be opportunity for students to evaluate patients, decide on a diagnostic and management strategy and provide care under house staff and faculty guidance, as well as ample opportunity to attend and participate in conferences.

M95 Surgery 864 Ethical Challenges in Surgery and Medicine
This elective will involve exploration of the ethical challenges discussed during didactic conferences and in clinical settings within the Department of Surgery at Washington University in St. Louis School of Medicine. The student will be guided through readings, discussions, and projects by department faculty members with expertise in clinical ethics. The elective will result in a manuscript ready to be revised/finalized for publication submission with the student as lead author. This elective provides the opportunity to work closely with faculty mentors and should appeal to any student interested in the ethical and humanitarian challenges facing physicians in particular and society in general.

M95 Surgery 871 Vascular Surgery Subinternship
This subinternship elective is designed to give students in-depth experience in the clinical management of patients on the Vascular Surgery Service. The elective will offer opportunities for students to gain experience in preoperative, intraoperative and postoperative management of patients with surgically treated vascular diseases/conditions. Students will serve as clerks and will be responsible for patient management with house staff under the guidance of the fellow and attending surgeons. There will be opportunity for students to evaluate patients, decide on a diagnostic and management strategy, and provide care under house staff and faculty guidance, as well as ample opportunity to attend and participate in conferences. Notice: If a student desires to work more closely with a specific attending, he/she must make special arrangements with the faculty member prior to beginning this elective.

M95 Surgery 879 Hepatobiliary-Pancreatic Surgery Subinternship
This subinternship is designed to give students in-depth experience in the clinical management of patients on the Hepatobiliary-Pancreatic (HPB) Service. The HPB Service is a busy upper gastrointestinal service with a focus on hepatobiliary and pancreatic diseases and their treatment. The course offers opportunities for students to gain experience in preoperative, intraoperative, and postoperative patient management. Students will serve as clerks and will be responsible for patient management with house staff under the guidance of the fellow, chief resident and attending surgeons. There will be opportunity for students to evaluate patients, decide on a diagnostic and management strategy, and provide care under house staff and faculty guidance, as well as ample opportunity to attend and participate in conferences. Note: If a student desires to work more closely with a specific attending, he/she must make special arrangements with the faculty member prior to beginning this elective.

M95 Surgery 880 Pediatric Surgery Subinternship
This subinternship will expose the student to a wide variety of pediatric surgical cases. This includes the preoperative and postoperative care of patients as well as the care of pediatric trauma patients. Daily walking or sit-down rounds are made with the resident, nurse practitioner, and attending staff, and participation is expected in the pediatric surgery clinic and the operating room. Weekly conference attendance is mandatory and includes mortality and morbidity, radiology, pathology, solid tumor board, ED/trauma, and GI conferences. Students have the opportunity to understand the widely differing anatomy and physiology of patients ranging from newborn infants to teenagers and young adults. The student functions as a team member and assumes level-appropriate responsibilities as determined by senior team members in this highly specialized care field.

M95 Surgery 891 Organ Transplantation Subinternship
The care of transplant patients requires the integration of multiple diverse medical and surgical disciplines. This subinternship in organ transplantation encompasses the preoperative evaluation and management of adult and pediatric recipients of liver, kidney, and pancreas. Students participate in procurement of allografts from cadaveric or living donors, organ preservation, and transplantation. Emphasis is also placed on postoperative care, multimodality immunosuppression and management of allograft rejection. Basic hepatic and renal physiology, fluid and electrolyte balance, and transplantation immunology are stressed. Rotation provides an elaborate exposure to different facets of management of end stage renal and liver disease. Management of the complications of diabetes, hypertension, portal hypertension, and infectious problems are an integral part of pre- and post-transplant care. This course is designed to offer the student an overview of the field of organ transplantation, however, in addition to transplant surgery, students will also get some exposure to vascular access and hepatobiliary surgery. The student functions as a member of the transplant team and assumes appropriate responsibilities under supervision.

M95 Surgery 893 Minimally Invasive Surgery Subinternship
This subinternship elective in minimally invasive surgery is offered by the Chief of the Section of Minimally Invasive Surgery in the General Surgery Division. Surgeons in the Minimally Invasive Surgery group regularly perform the following procedures laparoscopically: cholecystectomy, splenectomy,
adrenalectomy, hiatal hernia repair, endoscopic myotomy for achalasia, inguinal hernia repair, ventral hernia repair, complex abdominal wall reconstruction, robotic surgery, and bariatric surgery for morbid obesity. The medical student electing this rotation will participate in the outpatient office and direct patient care, assist and observe in a wide range of laparoscopic procedures and participate in teaching rounds and conferences. During this rotation, the student will also have the opportunity to observe and participate in minimally invasive surgical procedures performed by various surgeons within the Section of Minimally Invasive Surgery and will function as an acting intern.

**M95 Surgery 900 Research Opportunities-Surgery**
Research opportunities may be available. If interested, please contact the department of Surgery.