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.

A

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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

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Bachelor of Science, Pennsylvania State University, 2008
Doctor of Medicine, University of Rochester, 2013

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Foreign MD equivalent, University of Bombay, 1970

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Doctor of Medicine, Washington University in St Louis, 1968

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Bachelor of Science, Brown University, 1994
Doctor of Philosophy, Brown University, 2001
Doctor of Medicine, Brown University, 2001

B

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Master of Public Administration, Golden Gate University, 1986
Doctor of Medicine, Saint Louis University, 1996

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Doctor of Philosophy, Utah State University, 2008

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Doctor of Medicine, Tulane University, 1965

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Doctor of Medicine, Washington University in St Louis, 1945

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Bachelor of Arts, Youngstown State University, 1962
Doctor of Medicine, Saint Louis University, 1966

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

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Doctor of Medicine, University of Texas Health Science Center, 1983

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Doctor of Medicine, University of Louisville, 2011
Master of Health Science, Yale University, 2018

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

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C

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Doctor of Medicine, Yale University, 1947

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Doctor of Philosophy, Johns Hopkins University, 2010

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Doctor of Medicine, University of Tennessee, 1967

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Bachelor of Science, Ohio State University, 1976
Doctor of Medicine, Ohio State University, 1979

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Doctor of Medicine, University of California Los Angeles, 1993

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Doctor of Philosophy, University of Pennsylvania, 2006

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Doctor of Medicine, Northwestern University, 1991

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

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Doctor of Philosophy, Erasmus University Rotterdam, 1989

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Baccalaureatus, Princeton University, 2011
Doctor of Medicine, Case Western Reserve University, 2015

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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

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Bachelor of Science, University of Illinois at Urbana–Champaign, 1996
Doctor of Medicine, University of Illinois at Urbana–Champaign, 2004
Master of Science, Oregon Health Science University, 2012

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Bachelor of Arts, New York University, 1991

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Bachelor of Arts, Saint Louis University, 1976
Master of Science, Saint Louis University, 1978
Doctor of Medicine, University of Missouri Columbia, 1982

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Bachelor of Science, Illinois State University, 2004
Doctor of Philosophy, Washington University in St Louis, 2012

Sara E Holden, M.D.
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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 Virginia, 2009

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Bachelor of Arts, University of Washington, 2005
Master of Public Administration, George Mason University, 2007
Doctor of Occupational Therapy, Washington University in St Louis, 2014

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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.
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Instructor of Anthropology (Courtesy Affiliation)
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Master of Public Health, Northwestern University, 2011
Doctor of Philosophy, Northwestern University, 2011

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Doctor of Medicine, Stanford University, 1997
Chelsea Marie Hutchinson, M.D.
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Doctor of Medicine, University of Virginia, 2014

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Doctor of Medicine, University of Rome, 1999

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Doctor of Medicine, Aga Khan University, 1992

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Master of Arts, University of Houston, 1998
Doctor of Philosophy, University of Houston, 2000

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Bachelor of Science, Simon Fraser University, 2015
Master of Science, University of Western Ontario, 2016
Doctor of Philosophy, University of Waterloo, 2018

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Bachelor of Science, University of Minnesota, 2007
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Puja Kachroo, M.S., M.D.
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Bachelor of Science, Boston University, 2001
Master of Science, Columbia University, 2003
Doctor of Medicine, Ross University School of Medicine, 2007

Demetrios Katsikas, M.D.
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Doctor of Medicine, Wayne State University, 1989

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Doctor of Medicine, Vanderbilt University, 1993

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Doctor of Medicine, Aga Khan University, 2002

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Master of Public Health, Drexel University, 2008
Doctor of Philosophy, University of North Carolina at Chapel Hill, 2016

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Assistant Professor of Radiology
Doctor of Medicine, Karnataka Institute of Medical Sciences, 2007

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Master of Arts, Seoul National University, 1990
Doctor of Philosophy, University of Wisconsin, 1999

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Master of Science, University of Illinois, 1999

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Doctor of Medicine, Rowan University, 2015

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Doctor of Medicine, Syracuse University, 1959

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Assistant Professor of Surgery (Urologic Surgery) (primary appointment)
Doctor of Medicine, SUNY Downstate Health Sciences University, 2012
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

Benjamin D. Kozower, M.D.
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Bachelor of Science, University of Rochester, 1993
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Doctor of Medicine, St. George’s University, 2009

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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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Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
Professor of Pathology and Immunology
G Alexander Patterson MD and Mid America Transplant Endowed Distinguished Chair in Lung Transplantation
Doctor of Medicine, Mount Sinai School of Medicine, 1995
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Professor of Anesthesiology
Gerald L Andriole Professorship in Urologic Surgery

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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

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Doctor of Medicine, Guangdong Medical College, 1991
Sen University, 2004

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Bachelor of Science, Fisher More College, 2002
Master of Science, Fisher More College, 2005
Doctor of Philosophy, Clemson University, 2012

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Bachelor of Science, University of Utah, 1995
Doctor of Podiatric Medicine, Ohio College of Podiatric Medi, 2002

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Doctor of Medicine, Drexel University, 2014

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Doctor of Philosophy, Washington University in St Louis, 2005
Doctor of Medicine, Washington University in St Louis, 2005

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Bachelor of Science, Washington University in St Louis, 2000
Master of Science, Northwestern University, 2003
Doctor of Philosophy, University of Michigan, 2014

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Doctor of Medicine, Florida Beacon Bible College, 1995
Doctor of Philosophy, Texas Tech University, 2006

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Doctor of Medicine, Washington University in St Louis, 1961

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Bachelor of Arts, Oberlin College, 1981  
Doctor of Medicine, Yale University, 1985

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Associate Professor of Biostatistics  
Bachelor of Science, Nankai University, 1997  
Master of Science, National Univ of Singapapore, 2002  
Doctor of Philosophy, Medical College of Wisconsin, 2007

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Instructor in Clinical Surgery (General Surgery)  
Bachelor of Arts, Emory University, 1972  
Doctor of Medicine, University of Chicago, 1976

**Chongliang Luo, Ph.D.**  
Assistant Professor in Surgery (Public Health Sciences)  
(Pending Executive Faculty Approval) (primary appointment)  
Doctor of Philosophy, University of Connecticut, 2017

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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  
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Professor of Otolaryngology  
Professor of Occupational Therapy  
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Doctor of Medicine, Queen's University, 1975

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Doctor of Philosophy, Indian Institute of Science, 1998

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Endowed Professorship of Urologic Surgery Research  
Doctor of Philosophy, Indian Institute Of Technology, 1997

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Doctor of Medicine, Dow Medical College Karachi, 2001

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Bachelor of Arts, California State Fresno, 1973  
Master of Science, University of Wisconsin Madison, 1975  
Doctor of Medicine, University of California Los Angeles, 1981  
Doctor of Philosophy, University of Minnesota, 1993

**Patricia A McGuire, M.D.**  
Instructor in Clinical Surgery (Plastic and Reconstructive Surgery)  
Doctor of Medicine, University of Missouri Columbia, 1985

**Michelle Leah Medintz**  
Voluntary Clinical Assistant Professor of Surgery

**Syed Mehmood**  
Voluntary Clinical Assistant Professor of Surgery

**Spencer J Melby, M.D.**  
Associate Professor of Surgery (Cardiothoracic Surgery) (primary appointment)  
Bachelor of Science, Brigham Young University, 1997  
Doctor of Medicine, University of Utah, 2002

**Bryan F Meyers, M.D.**  
Professor of Surgery (Cardiothoracic Surgery) (primary appointment)  
Section Chief - Section of Thoracic Surgery  
Patrick and Joy Williamson Endowed Professor of Surgery (Cardiothoracic Surgery)  
Bachelor of Arts, Yale University, 1982  
Doctor of Medicine, University of Chicago, 1986

**Jerry R Meyers, M.D.**  
Assistant Professor of Clinical Surgery (General Surgery)  
Bachelor of Arts, University of Texas Austin, 1962  
Doctor of Medicine, Washington University in St Louis, 1966

**Jacob Ryan Miller, M.D.**  
Instructor in Surgery (Cardiothoracic Surgery) (primary appointment)  
Bachelor of Science, Indiana University Bloomington, 2020  
Doctor of Medicine, Indiana University Indianapolis, 2020

**Kevin Joseph Mitchell, M.D.**  
Instructor in Clinical Surgery (General Surgery)  
Bachelor of Science, Howard University, 1981  
Doctor of Medicine, Howard University, 1985
Marc R Moon, M.D.
Section Chief - Section of Cardiac Surgery
Bachelor of Science, University of Michigan, 1983
Doctor of Medicine, Wayne State University, 1988

Julian C Mosley, M.D.
Instructor in Clinical Surgery (General Surgery)
Bachelor of Science, 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 Arts, Saint Olaf College, 1990

Terence M. Myckatyn, M.D.
Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)
Doctor of Medicine, University of Rochester, 1997

Dilip Sri Nath, 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, Univ of Armed Forces: Military, 2000

Thoi Hieu Ngo, M.D.
Assistant Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Science, University of Maryland, 2010

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)
Bachelor of Science, Iowa State University, 1979
Doctor of Dentistry, University of Iowa, 1983

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 Arts, Saint Olaf College, 1990

Terence M. Myckatyn, M.D.
Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)
Doctor of Medicine, University of Rochester, 1997

Dilip Sri Nath, 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, Univ of Armed Forces: Military, 2000

Thoi Hieu Ngo, M.D.
Assistant Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Science, University of Maryland, 2010

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)
Bachelor of Science, Iowa State University, 1979
Doctor of Dentistry, University of Iowa, 1983

Master of Science, Washington University in St Louis, 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)

John Westley 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
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)
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, 2002

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, 2009
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
Doctor of Medicine, University of Pittsburgh, 1995

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 Ahmed 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

Courtney Shands, M.D.
Instructor in Clinical Surgery (Urologic Surgery)
Bachelor of Arts, Stanford University, 1978
Doctor of Medicine, Vanderbilt University, 1982

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 Siroospour, 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 Arts, 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

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, Princeton University, 1998
Master of Health Science, Johns Hopkins University, 2001
Master of Science, Johns Hopkins University, 2004
Doctor of Philosophy, Johns Hopkins University, 2005

T

Tsuyoshi Takahashi, Ph.D., M.D.
Instructor in Surgery (Cardiothoracic Surgery) (primary appointment)
Doctor of Medicine, 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
**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)  
Professor of Cell Biology and Physiology  
Professor of Radiology  
Bachelor of Arts, Hope College, 1979  
Doctor of Medicine, University of Michigan, 1983

**Adetunji Toriola, Ph.D.**  
Professor of Surgery (Public Health Sciences) (primary appointment)  
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. Ternberg, 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 Medicine, 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

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 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/quadruplegia
- 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 principles of cardiopulmonary 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 services during the four weeks. This 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. 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 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.