Mary Culver
Department of Surgery

Formal instruction in surgery begins during the third year, with the required 12-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 (e.g., pediatric surgery, transplant surgery, vascular surgery, cardiothoracic surgery, urologic surgery, plastic and reconstructive surgery).

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

Degrees & Requirements

MPHS Program

Within the Department of Surgery, the Division of Public Health Sciences offers a Master of Population Health Sciences (MPHS) program, which prepares students for clinical research careers by accelerating and deepening their expertise in population health and clinical outcomes research. Students gain a strong foundation and hands-on experience in leading, designing, conducting and moving clinical research findings to applications that will improve patient care and treatment.

In the MD/MPHS program, medical students have an opportunity to add clinical research methods training to their medical school experience. Medical students in the program work on a research project and use that project to complete their MPHS course work in 10 months, creating the ideal combination of didactic training and hands-on experience. Students will be encouraged to design and complete their own research study during the elective. The minimum rotation length is six weeks.

To learn more about the MD/MPHS Program, contact Blanka Hodzic at by phone at 314-286-0881 or by email at bhodzic@wustl.edu.

Other Courses

Some of the Department of Surgery's courses are also open to students in the MD and MSTP (MD/PhD) programs. Further information about the MD and MSTP degrees can be found in the Degrees & Programs (http://bulletin.wustl.edu/medicine/degrees) section of this Bulletin.

Research

M95 Surgery

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 minimally invasive 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.

Faculty

Clerkship Director
Michael M. Awad, MD, PHD

Visit our website for more information about our faculty (http://www.surgery.wustl.edu/Faculty) and their appointments.

A

Aaron Michael Abarbanell, MD, MS
Assistant Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
MD University of Michigan 2005
BA Cornell University 1993
MS Indiana University Indianapolis 2010

Rebecca L Aft, PHD, MD
Professor of Surgery (General Surgery) (primary appointment)
PHD Univ of Wisconsin Madison 1983
BS Univ of Wisconsin Madison 1978
MD Washington Univ in St. Louis 1992

Dorothy A Andrile, MD
Associate Professor of Surgery (General Surgery) (primary appointment)
Assistant Dean for Student Affairs and Medical Education
MD New York University 1980
BA New York University 1976

B

Jeffrey Allen Bailey, M PA, MD
Professor of Surgery (General Surgery) (primary appointment)
M PA Golden Gate University 1986
MD Saint Louis University 1996

Cody Barnes, MD
Instructor in Surgery (General Surgery) (primary appointment)
MD University of Oklahoma 2013
BS Oklahoma City University 2008

Kenneth J Bennett, MD
Associate Professor of Clinical Surgery (General Surgery) (primary appointment)
MD Tulane University 1965

Sam B Bhayani, MD
Professor of Surgery (Urologic Surgery) (primary appointment)
MD Washington Univ in St. Louis 1996
BS Cornell University 1992

Lawrence J Billy, MD
Instructor in Clinical Surgery (General Surgery) (primary appointment)
MD Saint Louis University 1966
BA Youngstown St University 1962

Jeffrey Alan Blatnik, MD
Assistant Professor of Surgery (General Surgery) (primary appointment)
MD Case Western Reserve Univ 2007
BA Miami University 2003

Grant Bochicchio, M PH, MD
Professor of Surgery (General Surgery) (primary appointment)
M PH University of Pittsburgh 1989
MD Pennsylvania State University 1993

Keith E Brandt, MD
William G. Hamm Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)
MD Univ Texas Health Science Ctr 1983
BS Texas A&M University 1979

Anoop k Brar, PHD
Instructor in Surgery (Cardiothoracic Surgery) (Pending Dean's Approval) (primary appointment)
PHD University of Edinburgh 1983
BS University of Edinburgh 1979

Taylor Clarke Brown, MHS, MD
Assistant Professor of Surgery (General Surg) (primary appointment)
BS Rhodes College 2007
MHS Yale University 2018
MD University of Louisville 2011

L. Michael Brunt, MD
Professor of Surgery (General Surgery) (primary appointment)
BA University of Mississippi 1976
MD Johns Hopkins University Medich 1980

Donald William Buck, MD
Assistant Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)
BS Indiana University Bloomington 2002
MD Johns Hopkins University 2006

Sara Anne Buckman, PHARMD, MD
Assistant Professor of Surgery (General Surgery) (primary appointment)
PHARMD Univ of Wisconsin Madison 1999
MD Univ of Wisconsin Madison 2008

John B Buettner, MD
Instructor in Clinical Surgery (General Surgery) (primary appointment)
MD Washington Univ in St. Louis 1967
BA Dartmouth College 1963

Arnold D Bullock, MD
Professor of Surgery (Urologic Surgery) (primary appointment)
Alan A and Edith L Wolff Distinguished Professor
BS Xavier University Louisiana 1983
MD Johns Hopkins University 1987

Yin Cao, M PH, PHS
Assistant Professor of Surgery (Public Health Sciences) (primary appointment)
Assistant Professor of Medicine
M PH Columbia University 2009
PHS Harvard University 2013

David Anthony Caplin, MD
Instructor in Clinical Surgery (Plastic and Reconstructive Surgery) (primary appointment)
MD University of Cincinnati 1975
BA Kenyon College 1971

Diego Casali, MD
Assistant Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
Assistant Professor of Anesthesiology
MD University of Brescia 2007

Su-Hsin Chang, PHD, MA
Assistant Professor of Surgery (Public Health Sciences) (primary appointment)
BA National Chengchi University 1995
PHD Johns Hopkins University 2010
MA Mass Inst of Technology (MIT) 2004

Will C Chapman, MD
Eugene M. Bricker Professor of Surgery (General Surgery) (primary appointment)
BA University of North Carolina 1980
MD University of South Carolina 1984

John E. Codd, MD
Professor of Clinical Surgery (Cardiothoracic Surgery) (primary appointment)
BA Gonzaga University 1954
MD Saint Louis University 1963

Graham A Colditz, M PH, DRPH, MBBS
Niess-Gain Professor of Surgery (General Surgery) (primary appointment)
Deputy Director for the Institute of Public Health
Professor of Medicine
M PH Harvard University 1982
DRPH Harvard University 1986
BS University of Queensland 1977
MBBS University of Queensland 1979

H. Groves Cooke III, MS, DDENT
Instructor in Clinical Surgery (Plastic and Reconstructive Surgery) (primary appointment)
BA De Paul University 1967
MS George Washington University 1975
DDENT Washington Univ in St. Louis 1971

Douglas E Coplen, MD
Associate Professor of Surgery (Urologic Surgery) (primary appointment)
MD Indiana University Bloomington 1985
BA Wabash College 1981

James L Cox, MD, MD1, UNKNOWN
Evarts A. Graham Professor Emeritus of Surgery (Cardiothoracic Surgery) (primary appointment)
BS University of Mississippi 1964
MD University of Tennessee 1967
MD1 University of Tennessee 1967
UNKNOWN Duke University 1978

Michael Crittenden, MD, BS1
Associate Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
MD Georgetown University 1979
BS1 University of Notre Dame 1974

Amy Cyr, MD
Assistant Professor of Surgery (General Surgery) (primary appointment)
MD Univ of Nebraska Med Center 2002
BA Creighton University 1997

Ralph James Damiano Jr, MD
Evarts Ambrose Graham Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
BA Dartmouth College 1976
MD Duke University 1980

Kia L Davis, AB, PHS, MPH
Assistant Professor of Surgery (Public Health Sciences) (primary appointment)
AB Washington Univ in St. Louis 2018
PHS Harvard University 2015
MPH Saint Louis University 2007

Alana C Desai, MD
Assistant Professor of Surgery (Urologic Surgery) (primary appointment)
MD Georgetown University 2002
BS Marquette University 1997

Patrick A Dillon, MD
Associate Professor of Surgery (Pediatric Surgery) (primary appointment)
BS Marquette University 1988

Francesca Maria Dimou, MD, MS
Assistant Professor of Surgery (General Surgery) (Pending Executive Faculty Approval) (primary appointment)
BS Stetson University 2006
MD University of South Florida 2011
MS University of Texas Galveston 2015

Maria Bernadette Majella Doyle, MD
Professor of Surgery (General Surgery) (primary appointment)
MD Trinity College Dublin 1996

BS Trinity College Dublin 1990

Bettina Drake, M PH, PHD
Professor of Surgery (Public Health Sciences) (primary appointment)
BS Baylor University 2001
M PH Univ Texas Health Science Ctr 2003
PHD University of South Carolina 2006

Kefu Du, MD
Assistant Professor of Surgery (Urological Surgery) (Pending Executive Faculty Approval) (primary appointment)
MD University of Tennessee 2011
BS Duke University 2007

Joseph W Eades, MD
Assistant Professor of Clinical Surgery (Plastic and Reconstructive Surgery) (primary appointment)
BA Amherst College 1956
MD Washington Univ in St. Louis 1960

J. Chris Eagon, MS, MD
Associate Professor of Surgery (General Surgery) (primary appointment)
MS University of Utah 1997
BA Williams College 1984
MD Harvard University 1988

Timothy J Eberlein, MA, MD
Bixby Professor of Surgery (General Surgery) (primary appointment)
Director of The Alvin J. Siteman Cancer Center
Head of the Department of Surgery
Professor of Pathology and Immunology
Spencer T. and Ann W. Olin Distinguished Professor
MA Harvard University 1996
MD University of Pittsburgh 1977
BS University of Pittsburgh 1973

Shaina Rose Eckhouse, MD
Assistant Professor of Surgery (General Surgery) (primary appointment)
MD Univ Texas Health Sci San Anto 2008

Pirooz Eghtesady, MD, D SC, MS
Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
Professor of Pediatrics
MD University of CA Los Angeles 1993
D SC University of CA Los Angeles 1993
MS University of CA Los Angeles 1987
BS University of CA Los Angeles 1987

Zachary P Englert, DOST
Adjunct Assistant Professor of Surgery (primary appointment)
DOST Phil Coll of Osteopathic Med 2009
BS Pennsylvania State University 2005
Sean Jason English, MD
Assistant Professor of Surgery (General Surgery) (primary appointment)
MD University of Pennsylvania 2007
BA College of Wooster 2000

John Matthew Felder III, MD
Assistant Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)
MD Baylor University 2009
BA University of Oregon 2004

Ryan Courtney Fields, MD
Professor of Surgery (General Surgery) (primary appointment)
MD Duke University 2003
BS Davenport University 1998

Robert S Figenshau, MD
Taylor Family and Ralph V. Claman, M.D. Professor of Surgery (Urologic Surgery) (primary appointment)
BS Macalester College 1981
MD University of Minnesota 1987

Gerald Richard Fortuna Jr
Adjunct Assistant Professor of Surgery (primary appointment)

Ida K Fox, MD
Associate Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)
MD University of Rochester 1999
BS Haverford College 1994

Bradley D. Freeman, MD
Professor of Surgery (General Surgery) (primary appointment)
MD Duke University 1988
BS University of Central Florida 1984

Anja G. Fuchs, MS, PHD
Assistant Professor of Surgery (General Surgery) (primary appointment)
BS School Not Listed 1994
MS University of Manchester 2001
PHD University of Manchester 2006

Feng Gao, PHD
Associate Professor of Surgery (Public Health Science) (primary appointment)
Associate Professor of Biostatistics
Associate Professor of Medicine
PHD Emory University 2003

Andrew E. Gelman, PHD
Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
Professor of Pathology and Immunology
PHD University of Pennsylvania 2006

BS University of CA Los Angeles 1996

Patrick J Geraghty, MD
Professor of Surgery (General Surgery) (primary appointment)
MD Northwestern University 1991
BS Northwestern University 1989

William Ewald Gillanders, MS1, MD, BA1, MS
Professor of Surgery (General Surgery) (primary appointment)
Vice Chair for Research, Department of Surgery
MS1 Medical University of Sth Car 2006
BA Williams College 1987
MD Duke University 1991
BA1 Williams College 1987
MS Medical Univ South Carolina 2006

Sean C. Glasgow, MD
Associate Professor of Surgery (General Surgery) (primary appointment)
MD Duke University 1999
BS Duke University 1995

Katherine LuBell Glover-Collins, PHD, MD
Assistant Professor of Surgery (General Surgery) (primary appointment)
PHD Meharry Med College 2009
MD Meharry Med College 2009
BS Xavier University Louisiana 2001

Simon P Goedegebuure, PHD, MA
Associate Professor of Surgery (General Surgery) (primary appointment)
PHD Erasmus University Rotterdam 1989
BS School Not Listed 1982
MA School Not Listed 1985

Jun Guo, MS, PHD
Associate Professor of Surgery (Pediatric Surgery) (primary appointment)
MS Dalian Medical University 1997
PHD Shanghai Medical University 2000
BS Nanjing University 1991

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

Andrew Benjamin Hall, MD
Adjunct Assistant Professor of Surgery (primary appointment)
BS Univ of Nebraska at Omaha 2004
MD Saint Louis University 2008

Bruce Lee Hall, MD, MBA, PHD
Professor of Surgery (General Surgery) (primary appointment)
Fellow in the Center for Health Policy
Professor of Health Care Management (Olin School of Business)
BA Princeton University 1984
MD Duke University 1992
MBA Harvard University 2000
PHD Duke University 1991

Chet Hammill, MD, MS
Associate Professor of Surgery (General Surgery) (primary appointment)
MD Univ of IL -Urbana-Champaign 2004
BS Univ of IL -Urbana-Champaign 1996
MS Oregon Health Science Univs 2012

William G. Hawkins, MD
Professor of Surgery (General Surgery) (primary appointment)
Neidorff Family and Robert C Packman Professor
BA New York University 1991
MD State Univ of NY Stonybrook 1995

Michael E Hayek, MD, MS
Instructor in Clinical Surgery (General Surgery) (primary appointment)
MD University of Missouri 1982
BA Saint Louis University 1976
MS Saint Louis University 1978

Mark Francis Heiland
Assistant Professor of Clinical Surgery (General Surgery) (primary appointment)

Virginia M Hermann, MD
Professor of Surgery (General Surgery) (primary appointment)
Professor of Medicine
MD Saint Louis University 1974

Sara E Holden, MD
Assistant Professor of Surgery (General Surgery) (primary appointment)
MD University of Minnesota 2010
BS Truman State University 2005

Mark Houston Hoofnagle, PHD, MD
Assistant Professor of Surgery (General Surgery) (primary appointment)
PHD University of Virginia 2008
BS Bucknell University 1999
MD University of Virginia 2009

Ashley J Housten, MSCR, OTD, MPA
Assistant Professor of Surgery (Public Health Sciences) (primary appointment)
MS MSCR Washington Univ in St. Louis 2014
OTD Washington Univ in St. Louis 2014
BA University of Washington 2005
MPA George Mason University 2007

Jean Marie Hunleth, PHD, M PH
Assistant Professor of Surgery (Public Health Sciences) (primary appointment)
Instructor of Anthropology (Courtesy Affiliation)
PHD Northwestern University 2011
BA Vanderbilt University 1998

M PH Northwestern University 2011

Steven R Hunt, MD
Associate Professor of Surgery (General Surgery) (primary appointment)
BA Dartmouth College 1992
MD Stanford University 1997

Mohsen Ibrahim, MD
Instructor in Surgery (Cardiothoracic Surgery) (primary appointment)
MD University of Rome 1999

Obaid Noor Ilahi, MD
Associate Professor of Surgery (General Surgery) (primary appointment)
MD Aga Khan University 1992

Akinobu Itoh, PHD, MD
Assistant Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
PHD Tohoku University Sendai Miyag 2010
MD Tohoku University Sendai Miyag 1998

Aimee S. James, MA, PHD, M PH
Professor of Surgery (General Surgery) (primary appointment)
BA Goucher College 1995
MA University of Houston 1998
PHD University of Houston 1999
M PH University of Texas Houston 2000

Shu Jiang, MS, PHD
Assistant Professor of Surgery (Public Health Sciences) (primary appointment)
MS University of Western Ontario 2016
BS Simon Fraser University 2015
PHD University of Waterloo 2018

Jeffrey Jim, MS, MD
Associate Professor of Surgery (General Surgery) (primary appointment)
BS University of Southern Calif 1996
MS University of Southern Calif 1999
MD University of CA Irvine 2003

Puja Kachroo, MS, MD
Assistant Professor of Surgery (Cardiothoracic Surgery) (primary appointment)

Dane P Johnson, MD
Assistant Professor of Surgery (Urologic Surgery) (primary appointment)
BS University of Minnesota 2007
MD University of Minnesota 2011

Puja Kachroo, MS, MD
Assistant Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
Mary E Klingensmith, MD  
Professor of Surgery (General Surgery) (primary appointment)  
Mary Culver Distinguished Professor  
Vice Chairman for Education, Department of Surgery  
MD Duke University 1992  
BA Wellesley College 1988

Piroska K Kopar, MD  
Assistant Professor of Surgery (General Surgery) (primary appointment)  
BA St Johns College 1999  
MD Emory University 2007

Kunal Deepak Kotkar, MD  
Instructor in Surgery (Cardiothoracic Surgery) (primary appointment)  
MD Grant Medical College 2004

Benjamin D. Kozower, MD  
Professor of Surgery (Cardiothoracic Surgery) (primary appointment)  
BS University of Rochester 1993  
MD University of Rochester 1997

Jessica Kramer  
Instructor in Surgery (Cardiothoracic Surgery) (primary appointment)  
BA Emory University 2001

Daniel Kreisel, PHD, MD  
Professor of Surgery (Cardiothoracic Surgery) (primary appointment)  
Professor of Pathology and Immunology  
PHD University of Pennsylvania 2002  
MD Mount Sinai School of Medicine 1995

Hing Hung H Lai, MD  
Associate Professor of Surgery (Urologic Surgery) (primary appointment)  
Associate Professor of Anesthesiology  
MD Cornell University 1999  
BS Rice University 1994

Jennifer M Leonard, MD, PHD  
Assistant Professor of Surgery (General Surgery) (primary appointment)  
MD Mayo Clinic 2011  
PHD Mayo Clinic 2011  
BA Colorado College 1999

Wenjun Li, MS, MD  
Associate Professor of Surgery (Cardiothoracic Surgery) (primary appointment)  
MS Sun Yat-Sen University 2004  
MD Guangdong Medical College 1991  
Yiling Lin, MD, PHD
Assistant Professor of Surgery (General Surgery) (primary appointment)
BS Duke University 1997
MD Washington Univ in St. Louis 2005
PHD Washington Univ in St. Louis 2005

Erin Lynn Linnenbringer, MS1, BS1, PHD
Assistant Professor of Surgery (Public Health Sciences) (primary appointment)
MS1 Northwestern University 2003
BS1 Washington Univ in St. Louis 2000
PHD University of Michigan 2014

Ying Liu, MD, PHD
Assistant Professor of Surgery (Public Health Sciences) (primary appointment)
MD Southeast U Medical School 1995
PHD Texas Tech University 2006

Alan M Londe, MD
Instructor in Clinical Surgery (General Surgery) (primary appointment)
MD Washington Univ in St. Louis 1961
BA Washington Univ in St. Louis 1957

Stanley L London, MD
Associate Professor Emeritus of Clinical Surgery (General Surgery) (primary appointment)
MD Washington Univ in St. Louis 1949

Esther Jiaxin Lu, MS, PHD
Associate Professor of Surgery (Public Health Sciences) (primary appointment)
Associate Professor of Biostatistics
MS National Univ of Singapapore 2002
BS Nankai University 1997
PHD Medical College of Wisconsin 2007

Mark A Ludwig, MD
Instructor in Clinical Surgery (General Surgery) (primary appointment)
BA Emory University 1972
MD University of Chicago 1976

Jingqin Luo, MS1, PHD, MS
Associate Professor of Surgery (Public Health Sciences) (primary appointment)
Associate Professor of Biostatistics
Associate Professor of Medicine
MS1 Duke University 2003
PHD Duke University 2006
BS Renmin University of China 1998
MS Renmin University of China 2001

Susan E Mackinnon, MD
Sydney M., Jr. and Robert H. Shoenberg Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)

Professor of Occupational Therapy
Professor of Otolaryngology
BA Queens College 1971
MD Queen's University 1975

Kiran Mahajan, MS, PHD
Assistant Professor of Surgery (Urologic Surgery) (Pending Executive Faculty Approval) (primary appointment)
MS Madurai Kamaraj University 1991
PHD Indian Institute of Science 1998

Nupam P Mahajan, PHD
Professor of Surgery (Urological Surgery) (Pending Executive Faculty Approval) (primary appointment)
PHD Indian Institute Of Technology 1997

Hersh Maniar, MD
Associate Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
Associate Professor of Medicine
MD University of Illinois 1998
BS University of Michigan 1994

Julie Ann Margenthaler, MD
Professor of Surgery (General Surgery) (primary appointment)
BA Boston University 1993
MD Southern Illinois University 1997

Muhammad Faraz Masood, MD
Assistant Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
MD Dow Medical College Karachi 2001

John E. Mazuski, MD, MS, PHD
Professor of Surgery (General Surgery) (primary appointment)
MD University of CA Los Angeles 1981
BA California State Fresno 1973
MS Univ of Wisconsin Madison 1975
PHD University of Minnesota 1993

Patricia A McGuire, MD
Instructor in Clinical Surgery (Plastic and Reconstructive Surgery) (primary appointment)
MD University of Missouri 1985

Michelle L Medintz
Adjunct Assistant Professor of Surgery (primary appointment)

Spencer J Melby, MD
Associate Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
BS Brigham Young University 1997
MD University of Utah 2002

Bryan F Meyers, MD
Patrick and Joy Williamson Endowed Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
MD University of Chicago 1986
BA Yale University 1982
Jerry R Meyers, MD  
Assistant Professor of Clinical Surgery (General Surgery) (primary appointment)  
MD Washington Univ in St. Louis 1966  
BA University of Texas Austin 1962  

Kevin Joseph Mitchell, MD  
Instructor in Clinical Surgery (General Surgery) (primary appointment)  
BS Howard University 1981  
MD Howard University 1995  

Marc R Moon, MD  
John M Shoenberg Professor of Surgery (Cardiothoracic Surgery) (primary appointment)  
BS University of Michigan 1983  
MD Wayne State University 1988  

Amy M. Moore, MD  
Associate Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)  
MD Virginia Comm University 2004  

Julian C Mosley, MD  
Instructor in Clinical Surgery (General Surgery) (primary appointment)  
MD Washington Univ in St. Louis 1972  
BS Saint Louis University 2000  

Nabil A Munfakh, MD  
Professor of Surgery (Cardiothoracic Surgery) (primary appointment)  
BS University of Michigan 1981  
MD University of Michigan 1985  

Gregory P Murphy, MD  
Assistant Professor of Surgery (Urological Surgery) (primary appointment)  
BA Tufts University 2006  
MD University of Massachusetts 2011  

Matthew G Mutch, MD  
Professor of Surgery (General Surgery) (primary appointment)  
BA St Olaf College 1990  
MD Washington Univ in St. Louis 1994  

Terence M. Myckatyn, MD  
Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)  
MD Univ of Northern British Colu 1997  
BS Univ of Northern British Colu 2003  

Dilip Sri Nath, MD  
Assistant Professor of Surgery (Cardiothoracic Surgery) (primary appointment)  
MD New York U. School of Medicine 1999  
BS University of CA Berkeley 1995  

Ruben Nava, MD  
Assistant Professor of Surgery (Cardiothoracic Surgery) (Pending Executive Faculty Approval) (primary appointment)  
MD Univ of Armed Forces: Military 2000  

Neal Neuman, MD  
Instructor in Clinical Surgery (Urologic Surgery) (primary appointment)  
MD Saint Louis University 1981  

Thomas E Niesen, MD  
Instructor in Clinical Surgery (General Surgery) (primary appointment)  
BS Tulane University 1975  
MD Tulane University 1979  

Richard James Nissen, DDENT, MS  
Assistant Professor of Clinical Surgery (Plastic and Reconstructive Surgery) (primary appointment)  
DDENT University of Iowa 1983  
MS Washington Univ in St. Louis 1985  
BS Iowa State University 1979  

Anthony Ian Nunez  
Instructor in Clinical Surgery (Cardio Surgery) (primary appointment)  

John Westley Ohman, MD  
Assistant Professor of Surgery (General Surgery) (primary appointment)  
MD Univ Texas Health Science Ctr 2012  
BS University of Texas Austin 2008  

George A Oliver, MD  
Assistant Professor Emeritus of Clinical Surgery (General Surgery) (primary appointment)  
MD Washington Univ in St. Louis 1952  
BA Washington Univ in St. Louis 1948  

Tiffany Medlin Osborn, MD, M PH  
Professor of Surgery (General Surgery) (primary appointment)  
Professor of Emergency Medicine in Medicine  
BS University of Houston 1992  
MD Univ Texas Health Sci San Anto 1997  
M PH London Hygiene & Tropical Med 2009  

Sharad P Parikh, UNKNOWN  
Instructor in Clinical Surgery (General Surgery) (primary appointment)  
UNKNOWN University of Pune 1967  

Yikyung Park, PHD, MS1  
Associate Professor of Surgery (Public Health Sciences) (primary appointment)  
BS EWHA Womans University 1994  
PHD Harvard University 2005
Charles L Parks, MD  
Instructor in Clinical Surgery (General Surgery) (primary appointment)  
BS University of South Dakota 1967  
MD Washington Univ in St. Louis 1969  

Jeffrey Andrew Parres, MD  
Instructor in Clinical Surgery (Urologic Surgery) (primary appointment)  
MD University of Missouri 1987  
BA Washington Univ in St. Louis 1983

Michael K Pasque, MD  
Professor of Surgery (Cardiothoracic Surgery) (primary appointment)  
Professor of Biomedical Engineering  
Professor of Radiology  
MD University of Oklahoma 1978

Kamlesh Babulal Patel, MD  
Associate Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)  
BS University of MO Kansas City 2000  
MD University of Arizona 2005

G Alexander Patterson, MD  
Joseph C Bancroft Professor of Surgery (Cardiothoracic Surgery) (primary appointment)  
MD Queen's University 1974

Enrique Pedro Perinetti, MD, PHD  
Instructor in Clinical Surgery (Urologic Surgery) (primary appointment)  
MD School Not Listed 1969  
PHD School Not Listed 1975

Mitchell A Pet, MD  
Assistant Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)  
MD Washington Univ in St. Louis 2011

Mary Politi, M PHIL, PHD  
Professor of Surgery (Public Health Sciences) (primary appointment)  
M PHIL George Washington University 2004  
BS Barnard College 2001  
PHD George Washington University 2006

Laurie Jean Punch, MD  
Associate Professor of Surgery (General Surgery) (primary appointment)  
BS Yale University 1997  
MD University of Connecticut 2002  
BS Yale University 1997

Varun Puri, MS, MD  
Associate Professor of Surgery (Cardiothoracic Surgery) (primary appointment)  
BS All-India Inst of Medical Sci 1998  
MS Creighton University 2007  
MD Washington Univ in St. Louis 2009

R

Nishant Raj, MD, BS1  
Assistant Professor of Surgery (General Surgery) (primary appointment)  
MD Ross Univ School of Medicine 2009  
BS1 St Johns University 2004

Ricardo Rao, MD  
Instructor in Clinical Surgery (General Surgery) (primary appointment)  
MD University of Missouri 1987  
BA University of CA San Diego 1983

Nanette Rahee Reed, MD  
Assistant Professor of Surgery (General Surgery) (primary appointment)  
BS University of Notre Dame 2000  
MD Baylor College of Medicine 2004

Frank O Richards, MD  
Assistant Professor Emeritus of Clinical Surgery (General Surgery) (primary appointment)  
MD Howard University 1947  
BA Talladega College 1944

Shale M Rifkin, MD  
Assistant Professor of Clinical Surgery (General Surgery) (primary appointment)  
MD Washington Univ in St. Louis 1948

Brian G Rubin, MD  
Professor of Surgery (General Surgery) (primary appointment)  
Professor of Radiology  
MD University of Vermont 1984  
BA Colgate University 1979

S

Jacqueline Mitsouko Saito, MD  
Associate Professor of Surgery (Pediatric Surgery) (primary appointment)  
BS Harvard Radcliffe 1989  
MD Columbia University 1993

Luis A Sanchez, MD  
Professor of Surgery (General Surgery) (primary appointment)  
Gregorio A. Sicard Distinguished Professor  
Professor of Radiology  
BS Yale University 1983  
MD Harvard University 1987

Dominic Sanford, MD  
Assistant Professor of Surgery (General Surgery) (primary appointment)  
MD University of MO Columbia 2009
BS Maryville University 2005

Donald C Sauer, MD
Assistant Professor Emeritus of Clinical Surgery (General Surgery) (primary appointment)
BA Washington Univ in St. Louis 1956
MD Washington Univ in St. Louis 1960

Douglas J Schuerer, MD
Professor of Surgery (General Surgery) (primary appointment)
BS Allegheny College 1991
MD University of Pittsburgh 1995

Richard B Schuessler, PHD, MS
Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
Associate Professor of Biomedical Engineering
PHD Clemson University 1977
MS University of Missouri 1974
BS University of Missouri 1973

Maryls E Schuh, MD, BS1
Instructor in Clinical Surgery (General Surgery) (primary appointment)
MD Washington Univ in St. Louis 1979
BS University of North Dakota 1973
BS1 University of North Dakota 1977

Debra L Seoane, MD
Instructor in Clinical Surgery (General Surgery) (primary appointment)
MD University of Miami 1986

Dipesh K Shah, MD
Assistant Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
MD L.P.S. Institute of Cardiology 2004

Baddr Ahmed Shakhsheer
Assistant Professor of Surgery (Pediatric Surgery) (primary appointment)

Courtney Shands III, MD
Instructor in Clinical Surgery (Urologic Surgery) (primary appointment)
BA Stanford University 1978
MD Vanderbilt University 1982

Surendra Shenoy, MD, PHD
Professor of Surgery (General Surgery) (primary appointment)
MD Kasturba Medical College 1984
BS Kasturba Medical College 1980
PHD Institute of Medical Science 1989

Michelle Ilana Silver, PHD, MS
Assistant Professor of Surgery (Public Health Sciences) (primary appointment)
PHD Johns Hopkins University 2015
BS Stanford University 2007

MS Johns Hopkins University 2009

Matthew Leon Silviera, MD, MS1
Assistant Professor of Surgery (General Surgery) (primary appointment)
MD Temple University 2005
MS1 Temple University 2010
BS Pennsylvania State University 2001

David Siroospour, MD
Assistant Professor of Clinical Surgery (General Surgery) (primary appointment)

Arjun Sivaraman, MD
Instructor in Surgery (Urologic Surgery) (primary appointment)
MD Madras Medical College 2005

Radhika K Smith, MD
Assistant Professor of Surgery (General Surgery) (primary appointment)
MD University of MO Kansas City 2010

Zachary Lee Smith, MD
Assistant Professor of Surgery (General Surgery) (primary appointment)
BS Kettering University 2004
MD Marshall University 2008

Alison K Snyder-Warwick, MD
Assistant Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)
MD Washington Univ in St. Louis 2004
BA Knox College 2000

Dirk M Spitzer, PHD
Assistant Professor of Surgery (General Surgery) (primary appointment)
PHD Technische U Braunschweig 1999
BS School Not Listed 1995

Charlie Srivilasa
Adjunct Assistant Professor of Surgery (primary appointment)

Alan Joel Stein, MD
Assistant Professor of Clinical Surgery (Urologic Surgery) (primary appointment)
BS Univ of Wisconsin Madison 1972
MD Wayne State University 1976

Melissa Kay Stewart, MD
Assistant Professor of Surgery (General Surgery) (primary appointment)
MD University of Pittsburgh 2011

Daniel Charles Stoeckel
Instructor in Clinical Surgery (primary appointment)

**Steven M Strasberg, MD**
Prueett Professor of Surgery (General Surgery) (primary appointment)
Associate Professor of Cell Biology and Physiology
MD University of Toronto 1963

**Vijay Subramanian, MD**
Instructor in Surgery (General Surgery) (primary appointment)
MD Christian Medical College 2009

**Herbert Sunshine, MD**
Instructor in Clinical Surgery (Urologic Surgery) (primary appointment)
MD Washington Univ in St. Louis 1954
BA Washington Univ in St. Louis 1950

**Siobhan Sutcliffe, MS, MHS, PHD**
Professor of Surgery (Public Health Sciences) (primary appointment)
MS Johns Hopkins University 2004
MHS Johns Hopkins University 2001
PHD Johns Hopkins University 2005
BS Princeton University 1998

**T**

**Marissa Morningstar Tenenbaum, MD**
Associate Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)
BS Univ of Wisconsin Madison 1998
MD Washington Univ in St. Louis 2002

**Robert W Thompson, MD**
Professor of Surgery (General Surgery) (primary appointment)
Professor of Cell Biology and Physiology
Professor of Radiology
BA Hope College 1979
MD University of Michigan 1983

**Adetunji Toriola, PHD**
Associate Professor of Surgery (Public Health Sciences) (primary appointment)
PHD University of Tampere 2011

**Ralph J Torrence, MD**
Asst Prof of Clinical Surgery (Urologic Surgery) (primary appointment)
MD Georgetown University 1983

**Erica J Traxel, MD**
Assistant Professor of Surgery (Urologic Surgery) (primary appointment)
MD Beaufort Technical College 2002
BS Texas A&M University 1998

**Thomas H Tung, MD**
Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)
BS Duke University 1986
MD University of Maryland 1990

**Isaiah Turnbull, MS, MD**
Assistant Professor of Surgery (General Surgery) (primary appointment)
BS University of Oregon 1998
MS Washington Univ in St. Louis 2008
MD Washington Univ in St. Louis 2008

**V**

**Kelly Jean Vallar, MD**
Assistant Professor of Surgery (General Surgery) (primary appointment)
MD University of MO Kansas City 2011

**Ramakrishna Venkatesh, MS, MD, MS1**
Professor of Surgery (Urologic Surgery) (primary appointment)
MS Bangalore University 1991
MD Bangalore University 1988
MS1 School Not Listed 1991

**Jesse Daya Vrecenak, MD**
Assistant Professor of Surgery (Pediatric Surgery) (primary appointment)
BS Yale University 2003
MD University of Pennsylvania 2007

**Gino J Vricella, MD**
Assistant Professor of Surgery (Urologic Surgery) (primary appointment)
MD University of MO Columbia 2006
BS Saint Louis University 2012

**W**

**Howard S Walker, MD**
Instructor in Clinical Surgery (Cardiothoracic Surgery) (primary appointment)
BA Citadel 1971
MD Beaufort Technical College 1974

**Lisa Marie Waller, MS, PHD**
Professor of Surgery (Public Health Science) (primary appointment)
MS University of Memphis 1991
PHD University of Minnesota 1995
BS Concordia College 1982

**Fei Wan, MS, PHD**
Assistant Professor of Surgery (Public Health Sciences) (primary appointment)
MS University of Vermont 2001
PHD University of Pennsylvania 2015

**Brad W. Warner, MD**
Jessie L. Ternberg, M.D., PhD. Distinguished Professor of Pediatric Surgery in Surgery (Pediatric Surgery) (primary appointment)
Courses


**M95 Surgery 790 Integrated Surgical Disciplines Clerkship**
During the 12-week surgery clerkship, each student is assigned to three 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 12-week rotation, there are weekly small-group tutorial sessions with faculty members and a biweekly lecture series. Credit 462 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. Student involvement in all aspects of clinical surgery is accomplished by student attendance in the operating room, outpatient office, preoperative patient evaluation, in-hospital patient management, and postoperative outpatient follow-up after discharge. Practical experience will focus on the initial evaluation and resuscitation of trauma patients and other emergency general surgical patients.
The student will also participate in regular rounds, 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 emergency department (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 and first responders to patients with acute abdominal pain, chest pain, hypotension, mental status changes, and other ED/on-call types of problems. They will be assigned to the on-call surgical resident and will have a structured experience in order to maximize 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 senior elective 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, ventricular assist devices, cardiac transplantation, 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 subinterns under the direct supervision of a faculty member. On the thoracic surgical rotation, students will have the opportunity to perform bronchoscopy, esophagoscopy, and gastrosopy; to participate in surgical resections of lung cancer and esophageal cancer; and to participate in surgery for emphysema and for benign esophageal conditions. Students will also participate in lung transplantation surgery.

**M95 Surgery 830 Plastic & Reconstructive Surgery Subinternship**

This course is for visiting medical students only. Students rotate on different plastic surgery services for two weeks each to maximize their 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. Research projects should be student-motivated and must be approved prior to scheduling and confirming the research rotation. Students will also prepare a 10-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 their 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. Research projects should be student-motivated and must be approved prior to scheduling and confirming the research rotation. Students will also prepare a 10-minute case presentation.

**M95 Surgery 850 Urology Subinternship**

This four-week clinical subinternship will offer the interested student experience with a spectrum of problems in both adult and pediatric urology. 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 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 the 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, they must make special arrangements with the Colorectal Surgery Office prior to beginning this elective.

**M95 Surgery 863 Surgical Oncology & Endocrine Surgery Subinternship**

This subinternship elective is designed to give students in-depth experience in the clinical management of patients on the Endocrine and Surgical Oncology Service (Unit 1 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 on 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 opportunities 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 the exploration of the ethical challenges discussed during didactic conferences and in clinical settings within the Department of Surgery at Washington University School of Medicine in St. Louis. 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 the 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 opportunities 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, they 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 opportunities 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, they 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, the nurse practitioner, and the attending staff; 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, emergency department/trauma, and gastrointestinal conferences. Students have an 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 the procurement of allografts from cadaveric or living donors, organ preservation, and transplantation. Emphasis is also placed on postoperative care, immunosuppression, and the management of allograft rejection. Basic hepatic and renal physiology, fluid and electrolyte balance, and transplantation immunology are stressed. The rotation provides an elaborate exposure to different facets of the 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.