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, cardiovascular and thoracic 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. MPHS program leadership can help students find a research project or lab to work in that would provide a good fit for their goals and interests.

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
MS Indiana University Indianapolis 2010
BA Cornell University 1993

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

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

Gerald L Andriole, MD
Robert Kilian Royce, M.D. Distinguished Professor of Urologic Surgery (primary appointment)
MD Jefferson Medical College 1978
BS Pennsylvania State University 1976

Christopher Thomas Arett, MD
Assistant Professor of Surgery (Urologic Surgery) (primary appointment)
BS Washington Univ in St. Louis 1999
MD Washington Univ in St. Louis 2003

Bracken Abram Armstrong
Assistant Adjunct Professor of Surgery (General Surgery) (primary appointment)

Kenneth J Arnold, MD
Assistant Professor of Clinical Surgery (General Surgery) (primary appointment)
BA University of Notre Dame 1964
MD Washington Univ in St. Louis 1968

Michael Magdi Awad, MD, PHD
Associate Professor of Surgery (General Surgery) (primary appointment)
MD Brown University 2001
BS Brown University 1994
PHD Brown University 2001

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)
BS Oklahoma City University 2008
MD University of Oklahoma 2013

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)
BA Miami University 2003
MD Case Western Reserve University 2007

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

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)
BS University of Edinburgh 1979
PHD University of Edinburgh 1983

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

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

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

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

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, MPH, PHD
Assistant Professor of Surgery (Public Health Sciences) (primary appointment)
Assistant Professor of Medicine
MPH Columbia University 2009
PHS Harvard University 2013

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

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

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

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

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

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

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

Douglas E Coplen, MD
Associate Professor of Surgery (Urologic Surgery) (primary appointment)
MD Indiana University Bloomington 1985
James L Cox, MD, 1, UNKNOWN, MD  
Evarts A. Graham Professor Emeritus of Surgery (Cardiothoracic Surgery) (primary appointment)  
MD1 University of Tennessee 1967  
UNKNOWN Duke University 1978  
BS University of Mississippi 1964  
MD University of Tennessee 1967  

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

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

Patrick A Dillon, MD  
Associate Professor of Surgery (Pediatric Surgery) (primary appointment)  
Associate Professor of Pediatrics  
BA Brown University 1983  
MD Georgetown University 1988  

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

Maria Bernadette Majella Doyle, MD  
Professor of Surgery (General Surgery) (primary appointment)  
BS Trinity College Dublin 1990  

MD Trinity College Dublin 1996  

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)  
MD Washington Univ in St. Louis 1960  
BA Amherst College 1956  

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

Timothy J Eberlein, MD, MA  
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  
MD University of Pittsburgh 1977  
BS University of Pittsburgh 1973  
MA Harvard University 1996  

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  
BS University of CA Los Angeles 1987  
MD University of CA Los Angeles 1993  
D SC University of CA Los Angeles 1993  
MS University of CA Los Angeles 1987  

Zachary P Engler, 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)  
BA College of Wooster 2000  
MD University of Pennsylvania 2007

F

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)  
MD University of Minnesota 1987  
BS Macalester College 1981

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)  
BS Haverford College 1994  
MD University of Rochester 1999

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

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

G

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, MD, MS1, BA1, MS  
Professor of Surgery (General Surgery) (primary appointment)  
Vice Chair for Research, Department of Surgery  
MD Duke University 1991  
MS1 Medical University of Sth Car 2006  
BA Williams College 1987  
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)  
BS Xavier University Louisana 2001  
PHD Meharry Med College 2009  
MD Meharry Med College 2009

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

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

H

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

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

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

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

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

Virginia M Herrmann, 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)
BS Truman State University 2005
MD University of Minnesota 2010

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

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

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

Steven R Hunt, MD

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

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

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

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

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

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)
MS University of Southern Calif 1999
BS University of Southern Calif 1996
MD University of CA Irvine 2003

Puja Kachroo, MD, MS
Assistant Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
MD Ross Univ School of Medicine 2007
BS Boston University 2001
MS Columbia University 2003

Demetrios Katsikas, MD
Instructor in Clinical Surgery (Urological Surgery) (primary appointment)
MD Wayne State University 1989
BS University of Michigan 1985

Martin S Keller, MD
Associate Professor of Surgery (Pediatric Surgery) (primary appointment)
Associate Professor of Pediatrics
BS University of Pennsylvania 1985
MD University of Vermont 1990

Adeel Khan, MD
Assistant Professor of Surgery (General Surgery) (primary appointment)
BS Bahria University 1997
MD Aga Khan University 2002

Vipul Khetarpaul, MD
Assistant Professor of Surgery (General Surgery)(Pending Executive Faculty Approval) (primary appointment)
MD Karnatak Medical College 2007

Andrew M Kim, DDENT, MS
Assistant Professor of Clinical Surgery (Plastic and Reconstructive Surgery) (primary appointment)
Instructor in Clinical Otolaryngology
BA California State University 1978
DDENT Washington Univ in St. Louis 1984
MS Ohio State University 1987

Eric Hwan Kim, MD
Assistant Professor of Surgery (Urological Surgery) (primary appointment)
MD Washington Univ in St. Louis 2012

Jae Sung Kim, BS1, PHD, MA
Professor of Surgery (General Surgery) (primary appointment)
Professor of Cell Biology and Physiology
BS1 Seoul National University 1988
PHD University of Wisconsin 1999
MA Seoul National University 1990

John P. Kirby, MD, MS
Associate Professor of Surgery (General Surgery) (primary appointment)
BS University of Illinois 1988
MD University of Illinois 1993
MS University of Illinois 1999

Saul Klein, MD
Instructor in Clinical Surgery (Urologic Surgery) (primary appointment)
MD Syracuse University 1959

Mary E Klingensmith, MD
Professor of Surgery (General Surgery) (primary appointment)

Mary Culver Distinguished Professor
Vice Chairman for Education, Department of Surgery
BA Wellesley College 1988
MD Duke University 1992

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

Kunal Deepak Kotkar, MD
Instructor in Surgery (Cardiothorasic 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
BS Rice University 1994
MD Cornell University 1999

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

Wenjun Li, MD, MS
Associate Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
MD Guangdong Medical College 1991
MS Sun Yat-Sen University 2004

Yiing Lin, PHD, MD
Assistant Professor of Surgery (General Surgery) (primary appointment)
PHD Washington Univ in St. Louis 2005
MD Washington Univ in St. Louis 2005
BS Duke University 1997

Erin Lynn Linnenbringer, BS1, MS1, PHD
Assistant Professor of Surgery (Public Health Sciences) (primary appointment)
BS1 Washington Univ in St. Louis 2000
MS1 Northwestern University 2003
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 Singapore 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, MS, PHD, MS1
Associate Professor of Surgery (Public Health Sciences) (primary appointment)
Associate Professor of Biostatistics
Associate Professor of Medicine
MS Renmin University of China 2001
BS Renmin University of China 1998
PHD Duke University 2006
MS1 Duke University 2003

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
MD Queen's University 1975
BA Queens College 1971

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
BS University of Michigan 1994
MD University of Illinois 1998

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
MS Univ of Wisconsin Madison 1975
PHD University of Minnesota 1993
BA California State Fresno 1973

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

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)
BA Yale University 1982
MD University of Chicago 1986

Jerry R Meyers, MD
Assistant Professor of Clinical Surgery (General Surgery) (primary appointment)
BA University of Texas Austin 1962
MD Washington Univ in St. Louis 1966
Kevin Joseph Mitchell, MD  
Instructor in Clinical Surgery (General Surgery) (primary appointment)  
MD Howard University 1985  
BS Howard University 1981

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)  
BS Saint Louis University 2000  
MD Washington Univ in St. Louis 1972

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

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)  
MD Washington Univ in St. Louis 1994  
BA St Olaf College 1990

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)  
BS University of CA Berkeley 1995  
MD New York U. School of Medicine 1999

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 1971

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

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)

O

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

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

P

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

Yikyung Park, MS1, PHD  
Associate Professor of Surgery (Public Health Sciences) (primary appointment)  
BS EWH RA Womans University 1994  
MS1 EWH RA Womans University 1996  
PHD Harvard University 2005

Charles L Parks, MD  
Instructor in Clinical Surgery (General Surgery) (primary appointment)  
BS University of South Dakota 1967
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)  
MD University of Arizona 2005  
BS University of MO Kansas City 2000

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

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

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

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)  
BA University of CA San Diego 1983  
MD University of Missouri 1987

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

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

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

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  
MD Harvard University 1987  
BS Yale University 1983

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

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

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 Ahed Shakhsheer
Assistant Professor of Surgery (Pediatric Surgery) (primary appointment)

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

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

Michelle Iiana Silver, PHD, MS
Assistant Professor of Surgery (Public Health Sciences) (primary appointment)
BS Stanford University 2007
PHD Johns Hopkins University 2015
MS Johns Hopkins University 2009

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

David Siroospour, MD
Assistant Professor of Clinical Surgery (General Surgery) (primary appointment)
MD School Not Listed 2000

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 (Urologic Surgery) (primary appointment)
MD University of MO Kansas City 2010

Jason Andrew Snyder, 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
Adjunct Assistant Professor of Surgery (primary appointment)

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

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

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
MD University of Michigan 1983
BA Hope College 1979

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)
MS Washington Univ in St. Louis 2008
BS University of Oregon 1998
MD Washington Univ in St. Louis 2008

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

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

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

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

Brad W. Warner, MD
Jessie L. Ternberg, M.D., PhD. Distinguished Professor of Pediatric Surgery in Surgery (Pediatric Surgery) (primary appointment)
Professor of Pediatrics
BS University of MO Kansas City 1982
MD University of MO Kansas City 1982

Erika Waters, MS PSYC, PHD, M PH
Associate Professor of Surgery (Public Health Sciences) (primary appointment)
MS PSYC Rutgers University 2003
BS Arizona State University 1999
PHD Rutgers University 2006
M PH Johns Hopkins University Medic 2007

Michael D Weiss, BS1, DPM
Assistant Professor of Surgery (General Surgery) (primary appointment)
BS1 Ohio State University 1977
DPM Ohio College of Podiatric Medi 1981

Jason R Wellen, MD
Associate Professor of Surgery (General Surgery) (primary appointment)
BS Emory University 1998
MD St George's University 2002

Brad C White, MD
Instructor in Clinical Surgery (Urologic Surgery) (primary appointment)
MD Loyola University Chicago 1993
BS Illinois State University 1986

Bruce I White, MD
Instructor in Clinical Surgery (Plastic and Reconstructive Surgery) (primary appointment)
MD Washington Univ in St. Louis 1964

Paul Edward Wise, MD
Professor of Surgery (General Surgery) (primary appointment)
MD John Hopkins University 1996
BS Georgetown University 1992

Brian Wing-Chi Wong, PHD
Assistant Professor of Surgery (General Surgery) (primary appointment)
PHD University of British Columbia 2011
BS University of British Columbia 2001

Matthew D Wood, PHD, MS
Assistant Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)
PHD Washington Univ in St. Louis 2009
BS Saint Louis University 2005
MS Washington Univ in St. Louis 2008
BS Washington Univ in St. Louis 2009

Y

Yan Yan, MHS, MD, PHD
Professor of Surgery (Public Health Sciences) (primary appointment)
Professor of Biostatistics
MHS Johns Hopkins University 1995
MD Nanjing Medical University 1983

PHD Johns Hopkins University 1998
Muhammad T Yasin, MD
Assistant Professor of Surgery (General Surgery) (primary appointment)
MD Punjab University 1985

William D Yates, MD
Instructor in Clinical Surgery (General Surgery) (primary appointment)
BA Northwestern University 1983
MD Northwestern University 1985

Robert A Young, MS, MD, JD
Instructor in Clinical Surgery (Plastic and Reconstructive Surgery) (primary appointment)
BA University of Michigan 1973
MS Ohio State University 1975
MD Ohio State University 1978
JD Saint Louis University 1997

Z

Mohamed A Zayed, PHD, MD
Assistant Professor of Surgery (General Surgery) (primary appointment)
PHD University of North Carolina 2007
BS University North Carolina 2002
MD University of North Carolina 2009

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 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 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 gastroscopy; 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
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, they 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. 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. Participation in conferences is expected. Students will turn in two histories and physicals.

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 clinical 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 and 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.
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, multimodality 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.