Formal instruction in surgery begins during Phase 2 of the MD program’s Gateway Curriculum, with a required eight-week clinical clerkship. During this curricular phase, students are assigned to two general surgery clinical rotations lasting three weeks each within the Department of Surgery. These clinical experiences provide students with 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 Phase 3, students may elect to participate in a variety of sub-internship rotations offered within the Department of Surgery. The sub-internships cover general surgical specialties and subspecialties, including trauma surgery, pediatric surgery, transplant surgery, vascular surgery, cardiovascular and thoracic surgery, urologic surgery, and plastic and reconstructive surgery.

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

Faculty

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

A

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

Rami Al-Aref, M.D.
Instructor in Surgery (General Surgery) (primary appointment)
Bachelor of Science, University of Michigan Dearborn, 2012
Doctor of Medicine, Wayne State University, 2016

Brent Allen, M.D.
Associate Professor of Surgery (General Surgery) (Pending Executive Faculty Approval) (primary appointment)
Bachelor of Science, Utah State University, 1975
Doctor of Medicine, Washington University in St Louis, 1979

David Michael Alvarado, Ph.D.
Instructor in Surgery (Pediatric Surgery) (Pending Dean’s Approval) (primary appointment)
Bachelor of Science, University of South Florida, 2007
Doctor of Philosophy, Johns Hopkins University, 2014

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Main Campus, 2008
Doctor of Medicine, University of Rochester, 2013

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

Christopher Thomas Arett, M.D.
Assistant Professor of Surgery (Urologic Surgery) (primary appointment)
Bachelor of Science, Washington University in St Louis, 1999
Doctor of Medicine, Washington University in St Louis, 2003

Bracken Abram Armstrong
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Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Science, Brown University, 1994
Doctor of Philosophy, Brown University, 2001
Doctor of Medicine, Brown University, 2001
Master of Education, University of Illinois at Chicago, 2022

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

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Associate Professor of Surgery (Public Health Sciences) (primary appointment)
Associate Professor of Anesthesiology
Bachelor of Arts, Brasilia University, 2000
Master of Arts, Brasilia University, 2003
Doctor of Philosophy, Utah State University, 2008

Kenneth J Bennett, M.D.
Associate Professor of Clinical Surgery (General Surgery)
Doctor of Medicine, Tulane University, 1965

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Instructor in Surgery (Urologic Surgery) (Pending Dean's Approval) (primary appointment)
Bachelor of Science, University of Missouri Columbia, 1988
Doctor of Medicine, University of Missouri Columbia, 1993

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

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Instructor in Clinical Surgery (General Surgery)
Bulletin 2023-24
Mary Culver Department of Surgery (10/02/23)

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

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Instructor in Surgery (General Surgery) (primary appointment)
Bachelor of Science, Tilka Manjhi Bhagalpur University, 1990
Master of Science, Banaras Hindu University, 1992
Doctor of Philosophy, Banaras Hindu University, 1999

Jeffrey Alan Blatnik, M.D.
Associate Professor of Surgery (General Surgery) (primary appointment)
Oxford, 2003
Doctor of Medicine, Case Western Reserve University, 2007

Grant Bochicchio, M.P.H., M.D.
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Section Chief - Division of Acute & Critical Care Surgery
Harry Edison Professor of Surgery
Master of Public Health, University of Pittsburgh, 1989
Main Campus, 1993

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

Taylor Clarke Brown, M.H.S., M.D.
Assistant Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Science, Rhodes College, 2007
Doctor of Medicine, University of Louisville, 2011
Master of Health Science, Yale University, 2018

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Professor of Surgery (General Surgery) (primary appointment)
Section Chief - Section of Minimally Invasive
Pruett Professor of Surgery
Bachelor of Arts, University of Mississippi, 1976
Doctor of Medicine, Johns Hopkins University, 1980

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Associate Professor of Surgery (General Surgery) (primary appointment)
Doctor of Pharmacy, University of Wisconsin Madison, 1999
Doctor of Medicine, University of Wisconsin Madison, 2008

John B Buettner, M.D.
Instructor in Clinical Surgery (General Surgery)
Bachelor of Arts, Dartmouth College, 1963
Doctor of Medicine, Washington University in St Louis, 1967

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Professor of Surgery (Urologic Surgery) (primary appointment)
Alan A and Edith L Wolf Distinguished Professor
Bachelor of Science, Xavier University of Louisiana, 1983
Doctor of Medicine, Johns Hopkins University, 1987

C

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Associate Professor of Surgery (Public Health Sciences) (primary appointment)
Associate Professor of Medicine
Master of Public Health, Columbia University, 2009
Doctor of Science, Harvard University, 2013

David Anthony Caplin, M.D.
Instructor in Clinical Surgery (Plastic and Reconstructive Surgery)
Bachelor of Arts, Kenyon College, 1971
Main Campus, 1975

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

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

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Section Chief - Section of Transplantation
Eugene M. Bricker Professor of Surgery (General Surgery)
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Doctor of Medicine, University of South Carolina Columbia, 1984

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Assistant Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)
Bachelor of Arts, Vanderbilt University, 2007
Doctor of Medicine, Johns Hopkins University, 2014

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

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Deputy Director for the Institute of Public Health
Division Chief - Division of Public Health
Niess-Gain Professor of Surgery (General Surgery)
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Foreign MD equivalent, University of Queensland, 1979
Master of Public Health, Harvard University, 1982
Doctor of Medicine, University of Queensland, 1998

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Master of Science, George Washington University, 1975

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Doctor of Medicine, Indiana University Bloomington, 1985

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Bachelor of Science, University of Mississippi, 1964
Doctor of Medicine, University of Tennessee, 1967

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Instructor in Surgery (General Surgery) (primary appointment)
Bachelor of Science, University of Kentucky, 2008
Master of Medical Science, Marshall University, 2010
Doctor of Osteopathic Medicine, West Virginia School of Osteopathic Medicine, 2015

**Michael Crittenden, M.D.**
Associate Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
Bachelor of Science, University of Kentucky, 2008
Master of Medical Science, Marshall University, 2010
Doctor of Osteopathic Medicine, West Virginia School of Osteopathic Medicine, 2015

**Kelly Bettina Currie, M.D.**
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Doctor of Medicine, Georgetown University, 1979

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Doctor of Science, Harvard University, 2015

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Doctor of Medicine, Georgetown University, 1988

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Doctor of Philosophy, University of South Carolina Columbia, 2006

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Doctor of Medicine, Washington University in St Louis, 1960

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Master of Science, University of Utah, 1997

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Doctor of Medicine, University of Pittsburgh, 1977
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Doctor of Medicine, University of Missouri Kansas City, 2015

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Master of Science, University of California Los Angeles, 1987
Doctor of Science, University of California Los Angeles, 1993
Doctor of Medicine, University of California Los Angeles, 1993

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Main Campus), 2005
Doctor of Osteopathic Medicine, Philadelphia College of Osteopathic Medicine, 2009

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

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Doctor of Medicine, University of California, 2015

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Bachelor of Arts, University of Oregon, 2004
Doctor of Medicine, Baylor University, 2009

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Section Chief - Section of Surgical Oncology
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Taylor Family and Ralph V. Clayman, M.D. Professor of Surgery (Urologic Surgery)
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Doctor of Medicine, University of Minnesota, 1987

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Voluntary Clinical Instructor of Surgery

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Doctor of Medicine, University of Rochester, 1999

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Doctor of Medicine, Albany Medical College, 2013

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Bachelor of Science, University of Central Florida, 1984
Doctor of Medicine, Duke University, 1988

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Professor of Surgery (Public Health Sciences) (primary appointment)
Professor of Biostatistics
Professor of Medicine
Doctor of Philosophy, Emory University, 2003

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Bachelor of Arts, Virginia Military Institute, 1957
Doctor of Medicine, Duke University, 1961

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Jacqueline G and William E Maritz Endowed Chair in Immunology and Oncology
Bachelor of Science, University of California Los Angeles, 1996
Doctor of Philosophy, University of Pennsylvania, 2006

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Bachelor of Science, Northwestern University, 1989
Doctor of Medicine, Northwestern University, 1991

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Vice Chair - Research,
Mary Culver Professorship in Surgery
Bachelor of Arts, Williams College, 1987
Doctor of Medicine, Duke University, 1991
Master of Science, Medical University of South Carolina, 2006

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Bachelor of Arts, Northwestern University, 1983
Doctor of Medicine, University of Missouri Columbia, 1987

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Assistant Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Science, Xavier University of Louisiana, 2001
Doctor of Philosophy, Meharry Medical College, 2009
Doctor of Medicine, Meharry Medical College, 2009

Simon P Goedegebuure, Ph.D.
Associate Professor of Surgery (General Surgery) (primary appointment)
Doctor of Philosophy, Erasmus University Rotterdam, 1989

Omar Guerra
Assistant Professor of Surgery (General Surgery) (Pending Executive Faculty Approval) (primary appointment)

Zeynep Gul, M.D.
Assistant Professor of Surgery (Urologic Surgery) (primary appointment)
Baccalaureatus, Princeton University, 2011
Doctor of Medicine, Case Western Reserve University, 2015

Jun Guo, M.S., Ph.D.
Associate Professor of Surgery (Pediatric Surgery) (Pending Executive Faculty Approval) (primary appointment)
Bachelor of Science, Nanjing University (####), 1991
Master of Science, Dalian Medical University (####), 1997
Doctor of Philosophy, Mongolian National University of Medical Sciences, 2000

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

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

Chet Hammill, M.S., M.D.
Associate Professor of Surgery (General Surgery) (primary appointment)
Champaign, 1996
Champaign, 2004
Master of Science, Oregon Health & Science University, 2012

William G. Hawkins, M.D.
Professor of Surgery (General Surgery) (primary appointment)
Neidoff Family and Robert C Packman Professor
Section Chief - Section of Hepatobiliary-Pancreatic
Bachelor of Arts, New York University, 1991
Doctor of Medicine, State University of New York at Stonybrook, 1995

Genevieve A Hayek, M.S., M.D.
Assistant Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Arts, Washington University in St Louis, 2005
Master of Science, Columbia University, 2020
Doctor of Medicine, University of Queensland, 2020

Michael E Hayek, M.S., M.D.
Instructor in Clinical Surgery (General Surgery)

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

Sara E Holden, M.D.
Assistant Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Science, Truman State University (Formerly Northeast Missouri State University), 2005
Doctor of Medicine, University of Minnesota, 2010

Katherine M. Holzem, M.D.
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Doctor of Medicine, Washington University in St Louis, 2017

Mark Houston Hoofnagle, Ph.D., M.D.
Assistant Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Science, Bucknell University, 1999
Doctor of Philosophy, University of Virginia, 2008
Doctor of Medicine, University of Virginia, 2009

Ashley J Housten, M.P.A., O.T.D.
Assistant Professor of Surgery (Public Health Sciences) (primary appointment)
Assistant Professor of Occupational Therapy
Bachelor of Arts, University of Washington, 2005
Master of Public Administration, George Mason University, 2007
Doctor of Occupational Therapy, Washington University in St Louis, 2014

Donald V Huebener, M.A., M.S., D.Dent.
Professor Emeritus of Surgery
Doctor of Dentistry, Washington University in St Louis, 1969
Master of Science, Case Western Reserve University, 1971
Master of Arts, Washington University in St Louis, 1975

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

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

Chelsea Marie Hutchinson, M.D.
Adjunct Assistant Professor of Surgery (General Surgery)
Doctor of Medicine, University of Virginia, 2014

Mohsen Ibrahim, M.D.
Instructor in Surgery (Cardiothoracic Surgery) (primary appointment)
Doctor of Medicine, University of Rome, 1999
Obeid Noor Ilahi, M.D.
Associate Professor of Surgery (General Surgery) (primary appointment)
Doctor of Medicine, Aga Khan University, 1992

Aimee S. James, M.A., M.P.H., Ph.D.
Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Arts, Goucher College, 1995
Master of Arts, University of Houston, 1998
Doctor of Philosophy, University of Houston, 1999
Master of Public Health, University of Texas Houston, 2000

Shu Jiang, M.S., Ph.D.
Associate Professor of Surgery (Public Health Sciences) (primary appointment)
Bachelor of Science, Simon Fraser University, 2015
Master of Science, University of Western Ontario, 2016
Doctor of Philosophy, University of Waterloo, 2018

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Assistant Professor of Surgery (Urologic Surgery) (primary appointment)
Bachelor of Science, University of Minnesota, 2007
Doctor of Medicine, University of Minnesota, 2011

Michael Hiroshi Johnson, M.D.
Associate Professor of Surgery (Urologic Surgery) (primary appointment)
Bachelor of Arts, Dartmouth College, 2001
Doctor of Medicine, University of Washington, 2009

Puja Kachroo, M.S., M.D.
Associate Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
Bachelor of Science, Boston University, 2001
Master of Science, Columbia University, 2003
Doctor of Medicine, Ross University School of Medicine, 2007

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John M Shoenberg Professor of Surgery (Cardiothoracic Surgery)
Doctor of Medicine, Keio University, 2002

Demetrios Katsikas, M.D.
Instructor in Clinical Surgery (Urological Surgery)
Bachelor of Science, University of Michigan (Duplicate of University of Michigan Ann Arbor), 1985
Doctor of Medicine, Wayne State University, 1989

Amy Frances Kells, Ph.D., M.D.
Assistant Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)
Bachelor of Science, Vanderbilt University, 1984
Doctor of Philosophy, Vanderbilt University, 1992

Doctor of Medicine, Vanderbilt University, 1993
Adeel Khan, M.D.
Associate Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Science, Bahria University, 1997
Doctor of Medicine, Aga Khan University, 2002

Saira Khan, M.P.H., Ph.D.
Assistant Professor of Surgery (Public Health Sciences) (primary appointment)
Bachelor of Science, Southeast Missouri State University, 2004
Master of Public Health, Drexel University, 2008
Doctor of Philosophy, University of North Carolina at Chapel Hill, 2016

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

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

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

John P. Kirby, M.S., M.D.
Associate Professor of Surgery (General Surgery) (primary appointment)
Champaign, 1988
Champaign, 1993
Champaign, 1999

Saul Klein, M.D.
Instructor in Clinical Surgery (Urologic Surgery)
Doctor of Medicine, Syracuse University, 1959

Mary E Klingensmith, M.D.
Professor Emerita of Surgery
Bachelor of Arts, Wellesley College, 1988
Doctor of Medicine, Duke University, 1992

Coen Klos
Voluntary Research Associate Professor of Surgery (General Surgery)

Ira Joe Kodner, M.D.
Professor Emeritus of Surgery (General Surgery)
Bachelor of Arts, Washington University in St Louis, 1963
Doctor of Medicine, Washington University in St Louis, 1967

Paul Kogan, M.D.
Assistant Professor of Surgery (Urologic Surgery) (primary appointment)
Doctor of Medicine, SUNY Downstate Health Sciences University, 2012
Bachelor of Science, SUNY Geneseo, null
Piroska K Kopar, M.D.
Assistant Professor of Surgery (General Surgery) (primary appointment)
Maryland, 1999
Doctor of Medicine, Emory University, 2007

Kunal Deepak Kotkar, M.D.
Assistant Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
Doctor of Medicine, Grant Medical College, 2004

Benjamin D. Kozower, M.D.
Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
Bachelor of Science, University of Rochester, 1993
Doctor of Medicine, University of Rochester, 1997

Lindsay Kranker, M.D.
Assistant Professor of Surgery (General Surgery) (primary appointment)
Doctor of Medicine, University of Colorado Anschutz Medical Campus, 2014
Bachelor of Science, Johns Hopkins University, null

Daniel Kreisel, Ph.D., M.D.
Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
Professor of Pathology and Immunology
G Alexander Patterson MD and Mid America Transplant Endowed
Distinguished Chair in Lung Transplantation
Doctor of Medicine, Mount Sinai School of Medicine, 1995
Doctor of Philosophy, University of Pennsylvania, 2002

Hing Hung H Lai, M.D.
Professor of Surgery (Urologic Surgery) (primary appointment)
Professor of Anesthesiology
Gerald L Andriole Professorship in Urologic Surgery
Bachelor of Science, Rice University, 1994
Doctor of Medicine, Cornell University, 1999

Natasha Leigh, M.D.
Assistant Professor of Surgery (General Surg) (primary appointment)
Doctor of Medicine, University of Birmingham, 2020

Jennifer M Leonard, Ph.D., M.D.
Assistant Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Arts, Oberlin College, 1981
Doctor of Medicine, Yale University, 1985

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

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

Jerry Michael Liddell, D.P.M.
Assistant Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Science, University of Utah, 1995
Doctor of Podiatric Medicine, Ohio College of Podiatric Medicine, 2002

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

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

Erin Lynn Linnenbringer, M.S., Ph.D.
Associate Professor of Surgery (Public Health Sciences) (primary appointment)
Bachelor of Science, Washington University in St Louis, 2000
Master of Science, Northwestern University, 2003
Doctor of Philosophy, University of Michigan Ann Arbor, 2014

Ying Liu, Ph.D., M.D.
Associate Professor of Surgery (Public Health Sciences) (primary appointment)
Doctor of Medicine, Florida Beacon Bible College, 1995
Doctor of Philosophy, Texas Tech University, 2006

Alan M Londe, M.D.
Instructor in Clinical Surgery (General Surgery)
Bachelor of Arts, Washington University in St Louis, 1957
Doctor of Medicine, Washington University in St Louis, 1961

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

Esther Jiaxin Lu, M.S., Ph.D.
Associate Professor of Surgery (Public Health Sciences) (primary appointment)
Associate Professor of Biostatistics
Bachelor of Science, Nankai University (####), 1997
Master of Science, National Univ of Singapore, 2002
Doctor of Philosophy, Medical College of Wisconsin, 2007

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

Chongliang Luo, Ph.D.
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Doctor of Philosophy, University of Connecticut, 2017
Jingqin Luo, M.S., Ph.D.
Professor of Surgery (Public Health Sciences) (primary appointment)
Professor of Biostatistics
Professor of Medicine
Bachelor of Science, Queen of The Holy Rosary College, 1998
Master of Science, Queen of The Holy Rosary College, 2001
Doctor of Philosophy, Duke University, 2006

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Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)
Professor of Otolaryngology
Professor of Occupational Therapy
Minot Packer Fryer Professor of Plastic Surgery
Bachelor of Arts, Queens College, 1971
Doctor of Medicine, Queen’s University, 1975

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

Nupam P Mahajan, Ph.D.
Professor of Surgery (Urologic Surgery) (primary appointment)
Endowed Professorship of Urologic Surgery Research
Doctor of Philosophy, Indian Institute Of Technology, 1997

Arnab Majumder, M.D.
Assistant Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Science, Case Western Reserve University, 2007
Main Campus, 2011

Sara M Malone, M.S.W., Ph.D.
Instructor in Surgery (Public Health Sciences) (primary appointment)
Adjunct Lecturer
Bachelor of Science, Centre College, 2012
Master of Social Work, Washington University in St Louis, 2014
Doctor of Philosophy, Washington University in St Louis, 2022

Julie Ann Margenthaler, M.D.
Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Arts, Boston University, 1993
Doctor of Medicine, Southern Illinois University Carbondale, 1997

Muhammad Faraz Masood, M.D.
Associate Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
Doctor of Medicine, Dow Medical College Karachi, 2001

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

Matthew Justin McHale
Voluntary Clinical Assistant Professor of Surgery

Michelle Leah Medintz
Voluntary Clinical Assistant Professor of Surgery

Voluntary Clinical Assistant Professor of Surgery

Syed Mehmoood
Voluntary Clinical Instructor in Surgery (Cardiothoracic Surgery)

Lawrence Mendelow
Assistant Professor of Surgery (General Surgery) (Pending Executive Faculty Approval) (primary appointment)

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

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

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

Kevin Joseph Mitchell, M.D.
Instructor in Clinical Surgery (General Surgery)
Bachelor of Science, Howard University, 1981
Doctor of Medicine, Howard University, 1985

Marc R Moon, M.D.
Section Chief - Section of Cardiac Surgery
Bachelor of Science, University of Michigan Ann Arbor, 1983
Doctor of Medicine, Wayne State University, 1988

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

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

Matthew G Mutch, M.D.
Professor of Surgery (General Surgery) (primary appointment)
Section Chief - Section of Colon-Rectal Surgery
Solon and Bettie Gershman Professorship in Colon and Rectal Surgery
Bachelor of Arts, Saint Olaf College, 1990
Doctor of Medicine, Washington University in St Louis, 1994

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

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

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

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

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

Richard James Nissen, M.S., D.Dent.
Assistant Professor of Clinical Surgery (Plastic and Reconstructive Surgery)
Bachelor of Science, Iowa State University, 1979
Doctor of Dentistry, University of Iowa, 1983
Master of Science, Washington University in St Louis, 1985

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

Anthony Ian Nunez
Instructor in Clinical Surgery (Cardio Surgery)

O

Jack Oak
Assistant Professor of Surgery (General Surgery) (Pending Executive Faculty Approval) (primary appointment)

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

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

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

John A Olson, Ph.D., M.D.
Professor of Surgery (General Surgery) (primary appointment)
Biostatistician Professor of Surgery (General Surgery)
Head of the Department of Surgery
Bachelor of Science, University of Michigan Ann Arbor, 1986
Doctor of Philosophy, University of Florida, 1990
Doctor of Medicine, University of Florida, 1992

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

P

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

Sharad P Parikh
Instructor in Clinical Surgery (General Surgery)

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

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

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

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

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

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

Amit Audumbar Pawale, MBBS
Associate Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
Foreign MD equivalent, Shivaji University, 2001

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

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

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

Mary Politi, M.Phil., Ph.D.
Professor of Surgery (Public Health Sciences) (primary appointment)
Bachelor of Arts, Barnard College, 2001
Master of Philosophy, George Washington University, 2004
Doctor of Philosophy, George Washington University, 2006

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

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

Ricardo Rao, M.D.
Instructor in Clinical Surgery (General Surgery)
Bachelor of Arts, University of California San Diego, 1983
Doctor of Medicine, University of Missouri Columbia, 1987

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

Shuddhadeb Ray, M.D.
Assistant Professor of Surgery (Cardiothoracic Surgery) (primary appointment)
Doctor of Medicine, University of Kansas Medical Center, 2011

Nanette Rahee Reed, M.D.
Assistant Professor of Surgery (General Surgery) (primary appointment)
Assistant Professor of Radiology

Bachelor of Science, University of Notre Dame, 2000
Doctor of Medicine, Baylor College of Medicine, 2004

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

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

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

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

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

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

Jacqueline Mitsouko Saito, M.B.A., M.D.
Associate Professor of Surgery (Pediatric Surgery) (primary appointment)
Bachelor of Arts, Harvard University, 1989
Doctor of Medicine, Columbia University, 1993
Master of Business Administration, Indiana University Indianapolis, 2021

Elizabeth Ann Salerno, M.P.H., Ph.D.
Assistant Professor of Surgery (Public Health Sciences) (primary appointment)
Champaign, 2012
Champaign, 2017
Master of Public Health, Johns Hopkins University, 2018

Luis A Sanchez, M.D.
Professor of Surgery (General Surgery) (primary appointment)
Professor of Radiology
Gregorio A. Sicard, M.D.
Emeritus Professor of Surgery
Bachelor of Science, Yale University, 1983
Doctor of Medicine, University of Puerto Rico (Duplicate of University of Puerto Rico), 1972

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

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

David Siroospour, M.D.
Assistant Professor of Clinical Surgery (General Surgery)
Bachelor of Science, Kettering University, 2004
Doctor of Medicine, Marshall University, 2008

Alison K Snyder-Warwick, M.D.
Associate Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)
Bachelor of Arts, Knox College, 2000
**Bulletin 2023-24**  
Mary Culver Department of Surgery (10/02/23)

**Dirk M Spitzer, Ph.D.**  
Assistant Professor of Surgery (General Surgery) (primary appointment)

**Marguerite Spruce, M.D.**  
Voluntary Clinical Assistant Professor of Surgery

**Charlie Srivilasa**  
Adjunct Assistant Professor of Surgery

**Jessica Staszak, M.S., M.D.**  
Assistant Professor of Surgery (General Surgery) (primary appointment)

**Alan Joel Stein, M.D.**  
Assistant Professor of Clinical Surgery (Urologic Surgery)

**Siobhan Sutcliffe, M.H.S., M.S., Ph.D.**  
Professor of Surgery (Public Health Sciences) (primary appointment)

**Tsuyoshi Takahashi, Ph.D., M.D.**  
Instructor in Surgery (Cardiothoracic Surgery) (primary appointment)

**Shoichiro Alberto Tanaka, M.P.H., M.D.**  
Assistant Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)

**Marissa Morningstar Tenenbaum, M.D.**  
Associate Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)

**Gregory S Tentindo**  
Voluntary Clinical Instructor of Surgery

**Ajit K Tharakan**  
Visiting Assistant Professor of Surgery

**Lewis Jones Thomas, M.D.**  
Assistant Professor of Surgery (Urologic Surgery) (Pending Executive Faculty Approval) (primary appointment)

**Robert W Thompson, M.D.**  
Professor of Surgery (General Surgery) (primary appointment)

**Adetunji Toriola, M.P.H., MB.ChB., Ph.D.**  
Professor of Surgery (Public Health Sciences) (primary appointment)

**Erica J Traxel, M.D.**  
Associate Professor of Surgery (Urologic Surgery) (primary appointment)

**Thomas H Tung, M.D.**  
Professor of Surgery (Plastic and Reconstructive Surgery) (primary appointment)

**Isaiah Turnbull, M.S., M.D.**  
Associate Professor of Surgery (General Surgery) (primary appointment)

**Kelly Jean Vallar, M.D.**  
Assistant Professor of Surgery (General Surgery) (primary appointment)

**Jesse Daya Vrecenak, M.D.**  
Assistant Professor of Surgery (Pediatric Surgery) (primary appointment)
Gino J Vricella, M.D.
Assistant Professor of Surgery (Urologic Surgery) (primary appointment)
Doctor of Medicine, University of Pennsylvania, 2007
Bachelor of Science, Saint Louis University, 2012

Alyssa Danielle Wait
Assistant Professor of Surgery (General Surgery) (Pending Executive Faculty Approval) (primary appointment)
Bachelor of Science, Saint Louis University, 2012

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

Lisa Marie Waller, M.S., Ph.D.
Professor of Surgery (Public Health Sciences) (primary appointment)
Bachelor of Science, Concordia College, 1982
Master of Science, University of Memphis (Formerly Memphis State University), 1991
Doctor of Philosophy, University of Minnesota, 1995

Fei Wan, M.S., Ph.D.
Associate Professor of Surgery (primary appointment)
Master of Science, University of Vermont, 2001
Doctor of Philosophy, University of Pennsylvania, 2015

Zachary James Wanken, M.S., M.D.
Assistant Professor of Surgery (General Surgery) (primary appointment)
Bachelor of Science, Emory University, 1998
Doctor of Medicine, Saint George's University, 2002

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

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

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

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

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

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

Yan Yan, M.A., M.H.S., Ph.D., M.D.
Professor of Surgery (Public Health Sciences) (primary appointment)
Professor of Biostatistics
Doctor of Medicine, Nanjing Medical University (#####), 1983
Master of Arts, Georgetown University, 1993
Master of Health Science, Johns Hopkins University, 1995
Doctor of Philosophy, Johns Hopkins University, 1998

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

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

Andrew Yeh, M.D.
Assistant Professor of Surgery (Pediatric Surgery) (primary appointment)
Bachelor of Science, University of Toronto, 2007
Doctor of Medicine, University of Hawaii Oahu, 2012
in the outpatient office, hospital ward and operating room. Practical general surgery patients. Subinterns will actively interact with patients and have the ability to evaluate, resuscitate and manage trauma and emergency care. Through completion of this elective, the student will gain an ability to evaluate resuscitate and manage trauma and emergency care setting so that they may more smoothly make the transition to a surgical internship. Medical students are also invited to participate in ongoing research projects under the mentorship of surgery faculty.

Research Electives

Surgery Research Electives

Students at all levels are encouraged and welcomed to get involved with surgical research. Many opportunities exist within the Department of Surgery for students to participate in advanced clinical or research experiences.

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

Courses


M95 Surgery 814 Acute and Critical Care Surgery (Clinical Elective)

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

M95 Surgery 817 Surgical Night Float / Emergency Surgical Consults and Trauma Night Rotation (Clinical Elective)

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

M95 Surgery 820 Cardiothoracic Surgery (Clinical Elective)

The 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, repair of congenital heart defects, ventricular assist devices, heart lung transplantation and procurement, coronary artery bypass surgery (on and off pump), valve repair and replacement, complex aortic surgery, the MAZE procedures and others. On the adult cardiac surgery service, students will function as sub-interns under the direct supervision of a faculty member. On the thoracic surgical rotation, students will have the opportunity to perform bronchoscopy, esophagoscopy, gastroscopy, and participate in surgical resections of lung cancer and esophageal cancer, as well as surgery for emphysema and for benign esophageal conditions. Students will also participate in lung transplantation surgery. Medical students are also invited to participate in ongoing research projects under the mentorship of surgery faculty. Please contact course director if you are interested in this option.

M95 Surgery 830 Plastic & Reconstructive Surgery (Clinical Elective)

The period on Plastic Surgery may either be spent as a clinical clerkship or conducting a research project. The purpose of the clinical clerkship is to familiarize the student with the basic principles of Plastic Surgery. The student will have successive assignments to each of the attending staff and the ward resident services during the four weeks. This will expose the student to the breadth and depth of plastic surgery. Alternatively, if the student has identified a focus of interest, the student may participate on those services of special interest, such as hand or pediatric plastic surgery. The student will assume an active role on the plastic surgery service and will participate in the total management of a wide variety of surgical problems including congenital anomalies, microvascular surgery, surgery of the upper extremity, peripheral nerve surgery, cosmetic surgery, and general reconstructive plastic surgery. Research projects should be student-motivated, and must be approved prior to scheduling and confirming the research rotation. Student will perform a ten-minute case presentation.
M95 Surgery 850 Urologic Surgery (Clinical Elective)
The four-week clinical elective will offer the interested student experience with a spectrum of problems in clinical urology - both adult and pediatric. The student will learn the basic diagnostic procedures and management of surgical and non-surgical aspects of patient care under the supervision of the attending staff and house staff. Clinical conferences are held two days per week. Medical students are also invited to participate in ongoing research projects under the mentorship of urology faculty. Please contact course director prior to the start of the elective if you are interested in this option.

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

M95 Surgery 863 Surgical Oncology & Endocrine Surgery (Clinical Elective)
This elective is designed to give students in-depth experience in the clinical management of patients on the Endocrine and Surgical Oncology Service (Unit I Service). Students will serve as clerks and will be responsible for patient management with house staff under the guidance of the chief resident and attending surgeons. Clinical exposure is focused on thyroid and parathyroid surgery, as well as breast oncology, melanoma, and soft-tissue sarcomas. The course will offer opportunities for students to gain experience in preoperative, intraoperative, and postoperative patient management. There will be opportunity for students to evaluate patients, decide on a diagnostic and management strategy, and provide care under house staff and faculty guidance, as well as ample opportunity to attend and participate in conferences. Notice: If a student desires to work more closely with a specific attending, he/she must make special arrangements with the Colorectal Surgery Office prior to beginning this elective.

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

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

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

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

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

M95 Surgery 893 Minimally Invasive Surgery (Clinical Elective)
This 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, adenectomy, 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 910 General Surgery Advanced Clinical Rotation (ACR)

Students in the General Surgery ACR are placed in one of the following seven services. Students may enroll in this ACR twice. Acute and Critical Care Surgery: The ACCS service provides experience with a broad range of general surgical problems. Typically, students encounter patients with acute traumatic injuries or burns and are exposed to many acute surgical problems such as acute abdominal emergencies, skin and soft tissue infections (including some amputations), acute appendicitis, and acute cholecystitis. Students will likely experience a combination of laparoscopic, robotic, and open operations. Students also gain experience with pre-operative evaluation and operative management of patients undergoing elective surgical procedures such as hernia repair and cholecystectomy. Colorectal Surgery: The Colorectal Surgery rotation covers all aspects of benign and malignant colorectal and anal disease. The operative procedures vary from simple anorectal procedures to large open abdominal, robotic and laparoscopic operations. Students will likely encounter both urgent/emergent and elective operations. Hepatobiliary and Pancreatic Surgery: The HPB service exposes students to a variety of surgical conditions of the pancreas, liver, stomach, and biliary tract. This includes benign and cancerous conditions. Students may also encounter surgeries for various types of sarcomas. They will encounter laparoscopic, robotic, and large open operations. Minimally Invasive Surgery: The MIS service exposes students to patients with a variety of surgical problems (including hernias, gallstone disease, gastrointestinal foregut problems, morbid obesity, and endocrine disorders). Students are exposed to basic and advanced minimally invasive surgery (laparoscopic and robotic operations) as well as complex open operations. Plastic Surgery: Pediatric surgery is essentially general surgery on children. Students are exposed to a wide variety of conditions involving the gastrointestinal tract, genitourinary tract, lung, diaphragm, etc. The service handles a significant amount of penetrating and blunt trauma, burns, and other acute surgical emergencies such as appendicitis, intestinal obstruction, and perforated viscus. In addition, the student will be exposed to surgery on newborns for vascular access and intestinal and abdominal wall conditions. Students will be exposed to a variety of surgical approaches including open, laparoscopic, and thoracoscopic procedures. Surgical Oncology: The Surgical Oncology (formerly Endo/Onc) service is primarily dedicated to the treatment of some of the most common cancers in adults (including breast, melanoma, and thyroid). Students will also obtain experience with many other surgeries for benign disease processes in breast and endocrine glands (thyroid, parathyroid, and adrenal). Students may also encounter surgery for sarcomas and a unique operation that involves heated intra-peritoneal chemotherapy for advanced cancers (HIPEC). They will likely encounter some laparoscopic procedures (adrenalectomy). Transplant Surgery: Abdominal Organ Transplantation exposes students to a blend of medical and surgical care of solid-organ transplant patients (kidney, pancreas, and liver). Organ procurements provide the ultimate exposure to human anatomy in a heart-beating, brain-dead donor. Students will likely experience other hepato-biliary procedures (liver resection, pancreatic resection, biliary tract surgery, etc.) for benign/malignant conditions and vascular access procedures (AV fistula formation), providing broad anatomical exposure. Most of these operations are performed with large, open incisions but students may encounter some laparoscopic procedures (cholecystectomy).

Credit 140 units.

M95 Surgery 915 Cardiothoracic Surgery Advanced Clinical Rotation (ACR)

Available blocks: TBD 4 week rotations

The description for this course will be added as soon as it is finalized.

Student time distribution: TBD

On-call/weekend responsibility: TBD

M95 Surgery 920 Plastic and Reconstructive Surgery Advanced Clinical Rotation (ACR)

The period on Plastic and Reconstructive Surgery will be spent as a clinical clerkship. The purpose of the clinical sub-internship is to familiarize the student with the basic principles of Plastic and Reconstructive Surgery and prepare for internship. 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 and reconstructive surgery. Alternatively, if the student has identified a focus of interest, the student may participate on those services of special interest, such as hand or pediatric plastic surgery, although rotation will be required each week. Students will submit a preference list for service assignments prior to the rotation and efforts will be made to accommodate these preferences. The student will assume an active role on the plastic and reconstructive 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. Students will be expected to participate in patient care on morning and afternoon rounds, in clinic, the emergency department, and in the operating room. Students will gain basic procedural skills including wound care, splinting, and suturing. Student will perform a ten-minute case presentation at PRS Grand Rounds.

Credit 140 units.

M95 Surgery 925 Urologic Surgery Advanced Clinical Rotation (ACR)

The Phase 3 Urology ACR will provide exposure to the full spectrum of clinical urology over four weeks. The student will learn the basic evaluation of the urologic patient, including diagnostic procedures, as well as the management (both surgical and non-surgical) of urologic conditions, under the supervision of the attending staff and house staff. The majority of the rotation will be with the Adult Urology Service in both inpatient and outpatient settings along with a few days on Pediatric Urology.

Credit 140 units.