Department of Anesthesiology

Anesthesiology is a medical specialty encompassing a broad range of medical and scientific activities. The clinical practice of anesthesiology includes the following:

1. Assessment of, consultation for and preparation of patients for anesthesia and surgery;
2. Provision of insensibility to pain during surgical, obstetric, therapeutic and diagnostic procedures;
3. Monitoring and restoration of physiologic homeostasis during the perioperative period as well as homeostasis in the critically ill or seriously injured patient;
4. Diagnosis and treatment of painful syndromes; and
5. Clinical management and teaching of cardiopulmonary resuscitation.

The realm of scientific investigation in anesthesiology also spans a broad range. Scientific efforts at the cellular and molecular levels are directed toward understanding the molecular mechanisms of anesthesia and analgesia. Clinical research in anesthesiology includes broad epidemiological approaches to identifying indicators of outcome as well as prospective clinical studies examining new technologies, anesthetic agents and methods.

The Department of Anesthesiology (http://anest.wustl.edu) presents the student with the opportunity to do the following:

1. Acquire and apply pharmacologic knowledge related to anesthetic agents, opioids, paralytic and sedative drugs, and drugs affecting the autonomic nervous system;
2. Understand and apply the basic principles of airway management and mechanical ventilation;
3. Understand and apply the principles of cardiopulmonary resuscitation;
4. Understand and apply the technical skills and anatomic and pharmacologic knowledge used in performing regional nerve blocks;
5. Learn and apply the fundamental principles of acute and chronic pain management; and
6. Learn and apply the basic principles of critical care medicine.

Anesthesiology bridges the gap between basic science and clinical medicine. It provides experience with the clinical evaluation and management of patients as well as with applied physiology and pharmacology. The Department of Anesthesiology offers student experiences in the operating room, the intensive care unit, the pain management clinic and the laboratory.

Website:  http://anest.wustl.edu

Faculty

Department Chair

Michael Avidan, MBBCh, FCA SA (https://anesthesiology.wustl.edu/people/michael-avidan-mbbch/)

Department Vice Chair for Faculty Affairs

Ellen M. Lockhart, MD (https://wuphysicians.wustl.edu/find-a-physician/ellen-moseley-lockhart/)

Department Vice Chair for Clinical Operations

Courtney Hardy, MD, MBA (https://anesthesiology.wustl.edu/people/courtney-hardy-md-mba/)

Department Vice Chair for Research

Robert Gereau, PhD (https://anesthesiology.wustl.edu/people/robert-gereau/)

Department Vice Chair for Health Systems Liaison

Ivan Kangrja, MD, PhD (https://wuphysicians.wustl.edu/find-a-physician/ivan-kangrja/)

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

A

Enyo Ama Ablordepepey, M PH, MD
Associate Professor of Anesthesiology (primary appointment)
Associate Professor of Emergency Medicine in Medicine
M PH University of Pittsburgh 2007
MD University of Pittsburgh 2007

Joanna Abraham, PHD
Assistant Professor of Anesthesiology (primary appointment)
Assistant Professor of Medicine
BS SRM Easwari Engineering Coll 2001
PHD Pennsylvania State University 2010

Oluwafunmilayo Beverly Adebayo-Adonis, MD
Instructor in Anesthesiology (primary appointment)
MD Meharry Med College 2013
BA Cornell University 2007

Sirajuddin Agha, MBBS
Assistant Professor of Anesthesiology (primary appointment)
MBBS Liaquat Medical College 1969

Anwar Mohammad Akhras, MD
Instructor in Anesthesiology (primary appointment)
BS Loyola University Chicago 2010
MD Loyola University Chicago 2015

Gustav Akk, PHD

Website:  http://anest.wustl.edu
Associate Professor of Anesthesiology (primary appointment)
BS Moscow State University 1991
PHD State Univ of NY Buffalo 1997

Ream Al-Hasani, PHD
Adjunct Assistant Professor of Anesthesiology (primary appointment)
PHD University of Surrey 2009

Zekeriyya Alanoglu, MD, MED
Instructor in Anesthesiology (primary appointment)
MD Ankara University 1993
MED Ankara University 2000

Amrita Aranake-Chrisinger, MS, MD, BS1
Assistant Professor of Anesthesiology (primary appointment)
MS Washington Univ in St. Louis 2019
BS Rutgers University 2008
MD Washington Univ in St. Louis 2013
BS1 Rutgers University 2008

Jacob D AuBuchon, MD
Associate Professor of Anesthesiology (primary appointment)
MD University of MO Kansas City 2008
BA University of MO Kansas City 2005

Michael Simon Avidan, MBBCH
Dr. Seymour and Rose T Brown Professor of Anesthesiology (primary appointment)
Head of the Department of Anesthesiology
Professor of Psychiatry
Professor of Surgery (Cardiothoracic Surgery)
MBBCH University of the Witwatersra 1991

Chaltu Blaine Ayano, MD
Assistant Professor of Anesthesiology (primary appointment)
MD University of South Dakota 2014
BS Concordia College 2009

B

Sennaraj Balasubramanian, MD
Instructor in Anesthesiology (primary appointment)
MD All-India Inst of Medical Sci 1998
BS Tirunelveli Medical College 1992

Arbi Ben Abdallah, PHD
Associate Professor of Anesthesiology (primary appointment)
PHD Washington Univ in St. Louis 2011

Amber Christine Benhardt, MD
Assistant Professor of Anesthesiology (primary appointment)
BA Texas A&M University 2009
MD Texas A&M University 2013

George Richard Benzinger III, PHD, MD
Associate Professor of Anesthesiology (primary appointment)
BS California Institute Technolo 1993
PHD University of Chicago 1998
MD University of Chicago 2000

Adithya Devadas Bhat, MD
Assistant Professor of Anesthesiology (primary appointment)
MD Case Western Reserve Univ 2014
BS Washington Univ in St. Louis 2010

Matthew Eugene Boland, MD
Instructor in Clinical Anesthesiology (primary appointment)
MD University of MO Kansas City 1996

Anuradha Purushottam Borle, MBBS, MD
Instructor in Anesthesiology (primary appointment)
MBBS GMC Miraj 2007
MD All-India Inst of Medical Sci 2012

Robert Earl Sean Bowen, MD, M PH
Assistant Professor of Anesthesiology (primary appointment)
BA University of Notre Dame 2009
MD University of Nebraska 2014
M PH Columbia University 2012

Walter A Boyle III, MD
Professor of Anesthesiology (primary appointment)
Assistant Professor of Developmental Biology
Professor of Surgery (General Surgery)
MD University of CA San Francisco 1977
BS University of CA San Francisco 1974

Jamie Cao Brown-Shpigel, MD, BS1
Instructor in Anesthesiology (Pending Dean’s Approval) (primary appointment)
MD Univ Texas Health Science Ctr 2014
BS1 University of Houston 2009

Kyle Louis Bruns, DOST
Assistant Professor of Anesthesiology (primary appointment)
BS Rockhurst College 2009
DOST Kansas City Univ Med/Bioscience 2013

Sarah Buday, PHD
Assistant Professor of Anesthesiology (primary appointment)
BS Washington Univ in St. Louis 2002
PHD University of MO St Louis 2013

Broc Allen Burke, PHD, MD
Instructor in Anesthesiology (primary appointment)
PHD Dartmouth College 2011
MD Dartmouth College 2013

Thomas Patrick Burris, PHD1, BAS
Adjunct Professor of Anesthesiology (primary appointment)
Adjunct Professor of Genetics
PHD1 Florida State University 1993
BAS Southern Illinois University 1989

Yuqing Cao, PHD
Associate Professor of Anesthesiology (primary appointment)
BS Fudan University 1989
PHD University of CA San Francisco 1999
Laura Francesca Cavallone, MD  
Associate Professor of Anesthesiology (primary appointment)  
MD University of Milan 1993

Baron Chanda, MS, PHD  
Professor of Anesthesiology (Pending Executive Faculty Approval) (primary appointment)  
BS UNIVERSITY OF DELHI 1991  
MS University of Poona 1993  
PHD National Center for Biological 2000

Stephanie Kae Charshafian, MD  
Assistant Professor of Anesthesiology (Pending Executive Faculty Approval) (primary appointment)  
BS University of Florida 2009  
MD Washington Univ in St. Louis 2014

Tao Che, PHD, MS  
Assistant Professor of Anesthesiology (primary appointment)  
BS Wuhan University 2017  
PHD Case Western Reserve Univ 2015  
MS Wuhan University 2010

Yunwei Chen, MD  
Assistant Professor of Anesthesiology (primary appointment)  
MD Case Western Reserve Univ 2014  
BS Northwestern University 2008

Zhoufeng Chen, MS, PHD  
Russell D and Mary B Shelden Professor of Anesthesiology (primary appointment)  
Professor of Developmental Biology  
Professor of Medicine (Dermatology)  
Professor of Psychiatry  
MS School Not Listed 1987  
BS Wuhan University 1983  
PHD University of Texas Austin 1994

Ziwei Chen, MS, MBBS, PHD  
Assistant Professor of Anesthesiology (primary appointment)  
MS Dalian Medical University 1998  
MBBS Dalian Medical University 1995  
PHD Peking University 2001

Wayland W. Cheng, PHD, MD  
Assistant Professor of Anesthesiology (primary appointment)  
PHD Washington Univ in St. Louis 2012  
MD Washington Univ in St. Louis 2012  
BS Wheaton College 2005

Kelly Lynne Chilson, MD  
Associate Professor of Anesthesiology (primary appointment)  
MD University of MO St Louis 1999

James Close, MD  
Associate Professor of Anesthesiology (primary appointment)  
Associate Professor of Medicine  
MD Washington Univ in St. Louis 1984  
BA Washington Univ in St. Louis 1980

Albert Murray Cohen, MD  
Assistant Professor of Anesthesiology (primary appointment)  
MD Baylor University 1977

Bryan A Copits, PHD  
Assistant Professor of Anesthesiology (primary appointment)  
PHD Northwestern University 2012

Meaghan Claire Creed, PHD  
Assistant Professor of Anesthesiology (primary appointment)  
Assistant Professor of Neuroscience  
Assistant Professor of Psychiatry  
BS University of Toronto 2008  
PHD University of Toronto 2012

Lara W. Crock, PHD, MD  
Instructor in Anesthesiology (primary appointment)  
PHD Washington Univ in St. Louis 2013  
BA Barnard College 2001  
MD Washington Univ in St. Louis 2013

Michael John Cuipa, MD  
Instructor in Clinical Anesthesiology (primary appointment)  
MD University of Massachusetts 1994  
BS Tufts University 1988

D

Bakul Dave, MD, MD1  
Assistant Professor of Anesthesiology (primary appointment)  
MD BJ Medical College 1984  
MD1 University of Toledo 1997

Thomas Allen Davis, MD  
Assistant Professor of Anesthesiology (primary appointment)  
MD University of Tenn Memphis 1969

Chari Johan De Wet, MBCHB  
Professor of Anesthesiology (primary appointment)  
Professor of Surgery (Cardiothoracic Surgery)  
MBCHB University of Pretoria 1990

Anne Meredith Drewry, MD  
Associate Professor of Anesthesiology (primary appointment)  
MD Washington Univ in St. Louis 2006

Julie Kosto Drobish, MD  
Assistant Professor of Anesthesiology (primary appointment)  
MD Washington Univ in St. Louis 2009  
BS Pennsylvania State University 2006

Leon du Toit, MBCHB, MS, MS  
Instructor in Anesthesiology (primary appointment)  
MBCHB Stellenbosch University 2005  
MS University of Cape Town 2020  
BS Stellenbosch University 2005  
MS University of Cape Town 2020

Nicole Marie Durko, DOST  
Associate Professor of Anesthesiology (primary appointment)  
BS St Xavier University 1995
Bahaa Eldien Elgendy, MS, PhD
Adjunct Assistant Professor of Anesthesiology (primary appointment)
MS Benha University 2003
BS Benha University 1999
PHD University of Florida 2010

Daniel Emmert, MD
Associate Professor of Anesthesiology (primary appointment)
Associate Professor of Surgery (Cardiothoracic Surgery)
MD Saint Louis University 2005

Sina Erfani, MD
Instructor in Anesthesiology (primary appointment)
BS Stony Brook School of Medicine 2011
MD University of Buffalo 2016

Alex S Evers, MD
Henry Elliot Mallinckrodt Professor of Anesthesiology (primary appointment)
Professor of Developmental Biology
Professor of Medicine
BS Yale University 1974
MD New York University 1978

Steven Edward Feit, MD
Assistant Professor of Anesthesiology (primary appointment)
BA Indiana State University 1978
MD University of MO Columbia 1982

Jing Feng, PhD
Instructor in Anesthesiology (primary appointment)
PHD Wuhan University 2014

Mitchell Evan Fingerman, MD
Associate Professor of Anesthesiology (primary appointment)
MD University of Connecticut 2004

Catherine Foster, MD
Instructor in Anesthesiology (primary appointment)
MD University of Chicago 2016
BA University of CA Berkeley 2008

Rosemary Foster, MD
Assistant Professor of Anesthesiology (primary appointment)
MD Saint Louis University 2013

Bradley Alexander Fritz, MD
Instructor in Anesthesiology (Pending Dean's Approval) (primary appointment)
MD Washington Univ in St. Louis 2015
BS Case Western Reserve Univ 2010

Brian M Fuller, MD
Associate Professor of Anesthesiology (primary appointment)
Associate Professor of Emergency Medicine
BA University of Alabama 1998
MD University of Alabama 2003

Narasimhan Gautam, PHD, MS
Professor of Anesthesiology (primary appointment)
Professor of Genetics
BS School Not Listed 1977
PHD University of Bombay 1985
MS School Not Listed 1979

Preeta George, MBBS
Assistant Professor of Anesthesiology (primary appointment)
MBBS Bangalore University 1998

Robert W Gereau, PHD
Dr Seymour and Rose T Brown Professor of Anesthesiology (primary appointment)
Professor of Neuroscience
Vice Chairman of Anesthesiology
BS Southwest Missouri St Universi 1991
PHD Emory University 1995

Erin A Gibbons, MD
Assistant Professor of Anesthesiology (primary appointment)
MD University of North Carolina 2008
BS University of North Carolina 2003

Jason R Gillihan, MD
Associate Professor of Anesthesiology (primary appointment)
MD Southern Illinois University 2006
BS University of Southern Indiana 2002

Thomas James Goblirsch, MD
Assistant Professor of Anesthesiology (primary appointment)
MD Loyola University Chicago 1985
BS University of Notre Dame 1980

Judith P Golden, MA, PHD
Assistant Professor of Anesthesiology (primary appointment)
MA Hofstra University 1986
BS Hofstra University 1984
PHD Saint Louis University 1994

Vivian Maria Gonzalez-Perez, PHD
Instructor in Anesthesiology (primary appointment)
PHD University of Valparaiso 2009

Thomas J Graetz, MD
Associate Professor of Anesthesiology (primary appointment)
Associate Professor of Surgery (Cardiothoracic Surgery)
MD Saint Louis University 2005

Stephen H Gregory, MD
Assistant Professor of Anesthesiology (primary appointment)
MD Saint Louis University 2012

Russell J.I. Groener, MBCHB
Associate Professor of Anesthesiology (primary appointment)
MBCHB University of Cape Town 1983

Ryan C Guffey, MD
Assistant Professor of Anesthesiology (primary appointment)
MD Wayne State University 2007

Katharine Nicole Gurba, PHD
Assistant Professor of Anesthesiology (Pending Executive Faculty Approval) (primary appointment)
PHD Vanderbilt University 2013

H

Charles B Hantler, MD, MA
Professor of Anesthesiology (primary appointment)
BS Davenport University 1971
MD Davenport University 1977
MA Davenport University 1973

Courtney Alan Hardy, MD
Professor of Anesthesiology (primary appointment)
MD Loyola University Chicago 2000

Simon Haroutoumanian, MA, PHD
Associate Professor of Anesthesiology (primary appointment)
MA Hebrew University 2005
PHD Hebrew University 2011

Daniel Luke Heisten, MD
Associate Professor of Anesthesiology (primary appointment)
BS University of Kentucky 1997
MD University of Kentucky 2001

Mohammad Anas Helwani, MD
Assistant Professor of Anesthesiology (primary appointment)
Assistant Professor of Surgery (Cardiothoracic Surgery)
MD Damascus University 1998

Omokhaye M Higo, MBBS
Associate Professor of Anesthesiology (primary appointment)
MBBS University of Ilorin 1990
BS University of Ibadan 1984

Alexander Michael Hincker, MD
Assistant Professor of Anesthesiology (Pending Executive Faculty Approval) (primary appointment)
MD Columbia University 2013

Jiggar Rashmikant Hindia, MD
Instructor in Clinical Anesthesiology (primary appointment)
BS Truman State University 2004
MD A T Still University 2007

Gary E Hirshberg, MD
Professor Emeritus of Anesthesiology (primary appointment)
BA Princeton University 1968
MD Hahnemann University 1972

Richard S Hotchkiss, MD
Professor of Anesthesiology (primary appointment)
Professor of Developmental Biology

Professor of Medicine
Professor of Surgery (General Surgery)
MD University of Virginia 1976

Hawpeng Stephen Hsu, MS, MD
Assistant Professor of Anesthesiology (primary appointment)
BA Georgia St University 1991
MS Emory University 1993
MD Taipei Medical University 1983

Hongzhen Hu, PHD
Professor of Anesthesiology (primary appointment)
Professor of Medicine (Dermatology)
PHD Ohio State University 2004

Rocco Hueneke, MD
Assistant Professor of Anesthesiology (primary appointment)
MD Martin-Luther-University 1996

Catherine Ifune, MD, PHD
Associate Professor of Anesthesiology (primary appointment)
MD Washington Univ in St. Louis 1997
PHD Washington Univ in St. Louis 1990
BS California Institute Technolo 1985

Zahid Iqbal, MD
Assistant Professor of Anesthesiology (primary appointment)
MD University of Florida 2013
BS University of Miami 2009

Selma E.h.o. Ishag, PHD, MD
Associate Professor of Anesthesiology (primary appointment)
PHD University of Khartoum 1996
MD University of Khartoum 1987

York Jiao, MD
Assistant Professor of Anesthesiology (primary appointment)
MD University of Connecticut 2013
BS Washington Univ in St. Louis 2009

Jonathan Jocum, MD
Instructor in Anesthesiology (primary appointment)
MD University of Cape Town 2008

Jessica Justmann, MD
Instructor in Anesthesiology (primary appointment)
MD American Univ of the Caribbean 2012
BS University of CA Davis 2005

Mohammadmehd Kafashan, PHD, MS
Instructor in Anesthesiology (primary appointment)
BS Amirkabir University of Techno 2008
PHD Washington Univ in St. Louis 2016
MS Shariff Univ of Technology 2010

Muthuraj Kanakaraj, MD
Assistant Professor of Anesthesiology (primary appointment)
BS Tirunelveli Medical College 1995
MD Madras Medical College 2005
Ivan M Kangrga, PHD, MD
Professor of Anesthesiology (primary appointment)
PHD Iowa State University 1991
MD University of Belgrade 1982
Thomas George Kannampallil, PHD
Assistant Professor of Anesthesiology (primary appointment)
Assistant Professor of Medicine
PHD University of Illinois 2018
BS University of Kerala 1999
Menelaos Karanikolas, MD, MD
Associate Professor of Anesthesiology (primary appointment)
MD1 School Not Listed 1998
MD Athens University Med School 1988
Jan Kasal, MD
Associate Professor of Anesthesiology (primary appointment)
Associate Professor of Medicine
MD Charles University 1993
Monica Marie Keeline, MD
Assistant Professor of Anesthesiology (Pending Executive Faculty Approval) (primary appointment)
MD Saint Louis University 2010
BA Tulane University 2006
Rainer Kentner, MD
Assistant Professor of Anesthesiology (primary appointment)
MD University of Tuebingen 1987
Paul William Kerby, MBBS
Associate Professor of Anesthesiology (primary appointment)
BS King’s College London 2001
MBBS King’s College London 2004
Shahrad Khodamoradi, MD
Assistant Professor of Anesthesiology (primary appointment)
BA Vanderbilt University 1985
MD Washington Univ in St. Louis 1990
Christopher Ryan King, MD
Assistant Professor of Anesthesiology (primary appointment)
MD University of Chicago 2014
Tessa Marie King, MD, MD
Assistant Professor of Anesthesiology (primary appointment)
BA School Not Listed 1993
MD1 University of Kansas 1997
MD University of Kansas 1997
Justin Knittel, MD
Assistant Professor of Anesthesiology (primary appointment)
MD Case Western Reserve Univ 2009
Ahalya Kodali, MS, MD
Instructor in Anesthesiology (Pending Dean's Approval) (primary appointment)
MD Boston University 2012
MD Boston University 2015
BS Boston University 2010
Helga Komen, MD
Instructor in Anesthesiology (primary appointment)
MD University of Zagreb 1996
Joseph F Kras, MD, DDENT
Associate Professor of Anesthesiology (primary appointment)
MD Hahnemann University 1991
BS Loyola University Chicago 1977
DDENT Loyola University Chicago 1982
Catherine P Krucylak, MD
Assistant Professor of Anesthesiology (primary appointment)
MD U Medical-Dental Of New Jersey 1986
BA Rutgers University 1982
Anand Lakshminarasimhachar, MBBS
Associate Professor of Anesthesiology (primary appointment)
MBBS Bangalore University 1994
Chakrapol Lattanand, MD
Associate Professor of Anesthesiology (primary appointment)
MD Hahnemann University 2000
Chris Cheng-Fu Lee, MD, PHD
Associate Professor of Anesthesiology (primary appointment)
MD Hubei Medical University 1985
PHD Beijing Medical University 1991
Christopher J Lingle, PHD
Professor of Anesthesiology (primary appointment)
Professor of Neuroscience
BS University of Oregon 1972
PHD University of Oregon 1979
Qianjin Liu, MD, PHD
Associate Professor of Anesthesiology (primary appointment)
MD Nanjing Medical University 1983
PHD Saint Louis University 1997
Qin Liu, PHD
Associate Professor of Anesthesiology (primary appointment)
Associate Professor of Medicine (Dermatology)
Associate Professor of Neuroscience
Associate Professor of Ophthalmology and Visual Sciences
BS Wuhan University 1998
PHD Chinese Academy of Sciences 2004
Xianyu Liu, PHD, MD
Instructor in Anesthesiology (Pending Dean's Approval) (primary appointment)
PHD Peking University 2004
MD Beijing Medical University 1999
Salvador Lo Bianco, MD
Instructor in Clinical Anesthesiology (primary appointment)
MD Univ Autonoma de Guadalajara 1987

Ellen M Lockhart, MD
Professor of Anesthesiology (primary appointment)
Professor of Obstetrics and Gynecology
Vice Chairman of Anesthesiology
MD University of Texas Southwest 1993

George Alan Lodoly, MD
Instructor in Clinical Anesthesiology (primary appointment)
MD Saint Louis University 1984
BS Saint Louis University 1980

Thomas Lynch V, MD
Assistant Professor of Anesthesiology (primary appointment)
Assistant Professor of Emergency Medicine in Medicine
MD St. George’s University 2011

Susruta Majumdar, MS, PhD
Adjunct Associate Professor of Anesthesiology (primary appointment)
MS Delhi University 2000
BS Delhi University 1998
PHD University of Florida 2006

Jackie Lee Martin, MA, MD, MBA
Adjunct Professor of Anesthesiology (primary appointment)
MA Meharry Med College 1980
MD Meharry Med College 1984
BA Howard University 1976
MBA Johns Hopkins University 2010

Paolo Masetti, MD
Instructor in Clinical Anesthesiology (primary appointment)
MD University of Bologna 1985

Nicolas Massaly, PhD
Assistant Professor of Anesthesiology (primary appointment)
PHD Universite Paul Sabatier 2012

Anita Mathew, MD
Assistant Professor of Anesthesiology (primary appointment)
MD University of Illinois Chicago 2014
BS University of Illinois Chicago 2010

Monty Mazer, MD, MS
Instructor in Anesthesiology (primary appointment)
MD Technion – Israel Institute of 2013
MS McGill University 2010
BS Yeshiva University 2007

John D McAllister, MD
Professor of Anesthesiology (primary appointment)
MD University of Manitoba 1980
BS University of Manitoba 1982

Jordan Gary McCall, PHD
Assistant Professor of Anesthesiology (primary appointment)
PHD Washington Univ in St. Louis 2014

Molly Ann McCormick, MD
Assistant Professor of Anesthesiology (primary appointment)
MD University of MO Columbia 1987

Kathleen Williams Meacham, MD, PHD
Assistant Professor of Anesthesiology (primary appointment)
BS Carnegie Mellon University 2001
MD Emory University 2008
PHD Georgia Tech 2008

Bhavi Deepak Mehta, MD
Assistant Professor of Anesthesiology (Pending Executive Faculty Approval) (primary appointment)
BA University of MO Kansas City 2010
MD University of MO Kansas City 2010

Allison Denise Mitchell, MD
Assistant Professor of Anesthesiology (primary appointment)
MD Univ Texas Health Sci San Anto 2012
BS Howard University 2008

David Thomas Monks, MD
Assistant Professor of Anesthesiology (primary appointment)
MD Birmingham Medical School 2018

Michael C. Montana, MD
Assistant Professor of Anesthesiology (primary appointment)
MD Washington Univ in St. Louis 2012
BA University of Virginia 2003

John David Moore, MD
Instructor in Anesthesiology (Pending Dean's Approval) (primary appointment)
MD Universidad Autonoma de Centro 2020

Rachel Willis Moquin, PHD, M ED
Instructor in Anesthesiology (primary appointment)
PHD Vanderbilt University 2017
BA University of Mississippi 2011
M ED University of Mississippi 2013

Ehab Samir Morcos, MD
Instructor in Anesthesiology (primary appointment)
MD Cairo University 1991

Jose Moron-Concepcion, PHD
Professor of Anesthesiology (primary appointment)
Professor of Neuroscience
Professor of Psychiatry
PHD University of Barcelona 1998

Jeremiah J Morrissey, PHD
Professor of Anesthesiology (primary appointment)
BA Macmurray College 1969
PHD Saint Louis University 1974

Jimmy Lewis Moss, MD
Instructor in Clinical Anesthesiology (primary appointment)
MD Florida State University 2015
BS Florida State University 2010

David J Murray, MD
Carol B. and Jerome T. Loeb Professor of Anesthesiology (primary appointment)
BS University of Saskatchewan 1973
MD University of Saskatchewan 1978

Teresa Marie Murray-Torres, MD
Assistant Professor of Anesthesiology (primary appointment)
MD University of Chicago 2014
BS University of Notre Dame 2008

Amjad Issam Musleh, MD
Assistant Professor of Anesthesiology (primary appointment)
BS University of New Mexico 2008
MD University of New Mexico 2013

Jessica Lauren Nelson, MD
Assistant Professor of Anesthesiology (primary appointment)
Assistant Professor of Emergency Medicine
BS University of Wisconsin 2018
MD University of Michigan 2012

Joan M Niehoff, MD
Associate Professor of Anesthesiology (primary appointment)
BA University of MO Kansas City 1982
MD University of MO Columbia 1982

Daniel C Nieva, MD
Associate Professor of Anesthesiology (primary appointment)
BS University of Iowa 1998
MD University of Iowa 2003

Aaron John Norris, PHD, MD
Assistant Professor of Anesthesiology (primary appointment)
BS Colorado St University 2001
PHD Washington Univ in St. Louis 2012
MD Washington Univ in St. Louis 2012

Sydney Marie Nykiel-Bailey, MD
Assistant Professor of Anesthesiology (primary appointment)
BS Saint Louis University 2001
MD University of MO Kansas City 2005

Uchenna Ofoma, MS, MD
Associate Professor of Anesthesiology (primary appointment)
MS Pennsylvania State University 2010
MD University of Nigeria 1998

Folasade Oladapo, MD
Assistant Professor of Anesthesiology (primary appointment)
MD U Medical-Dental Of New Jersey 2008

Lawrence Osei, MS, MD
Instructor in Clinical Anesthesiology (primary appointment)
BS University of Science & Techn 1994
MS University of Science & Techn 1996
MD University of Science & Techn 1996

Ben Julian Palanca, MD
Associate Professor of Anesthesiology (primary appointment)
Associate Professor of Psychiatry
MD Washington Univ in St. Louis 2005
BS University of Washington 1997

Arvind Palanisamy, PHD, MD
Associate Professor of Anesthesiology (primary appointment)
Associate Professor of Obstetrics and Gynecology
PHD All-India Inst of Medical Sci 2003
MD Tamilnadu Medical University 2000

Chris M Palmer, MD
Assistant Professor of Anesthesiology (primary appointment)
Assistant Professor of Emergency Medicine in Medicine
MD SUNY - Empire State College 2008
BS Virginia Tech 2004

Hess Amir Panjeton, MD
Instructor in Anesthesiology (Pending Dean's Approval) (primary appointment)
PHD University of MO Columbia 2013

Jesus Ceferino Patino, MD
Instructor in Anesthesiology (primary appointment)
MD University of the Philippines 2002
BS University of the Philippines 1997

Giovanni Pauletti, MS, PHD
Adjunct Professor of Anesthesiology (primary appointment)
MS Swiss Fed Inst Tech (EPFL) 1987
PHD Swiss Fed Inst Tech (EPFL) 1994

Patricia A. Penkoske, MD
Instructor in Anesthesiology (primary appointment)
MD Washington Univ in St. Louis 1974
BS Lindenwood University 1969

John Albert Pieper, MD
Adjunct Professor of Anesthesiology
MD State Univ of NY Buffalo 1979
BS University of Colorado Boulder 1974
BS University of Wyoming 1977

Mitchell R Platin, MD
Assistant Professor of Anesthesiology (primary appointment)
MD Kent St University 1987
Debra D Pulley, MME, MD  
Professor of Anesthesiology (primary appointment)  
BS Vanderbilt University 1978  
MME University of MO Columbia 1982  
MD Saint Louis University 1987

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

Lesley Kathryn Rao, MD  
Associate Professor of Anesthesiology (primary appointment)  
MD Saint Louis University 2006

Rashmi R Rathor, MD  
Assistant Professor of Anesthesiology (primary appointment)  
MD University of Illinois 2007

Jebadurai Ratnaraj, MD1, MD  
Assistant Professor of Anesthesiology (primary appointment)  
MD1 Northrhein Westfalen Medical 1985  
MD Madurai Kamaraj University 1979

Andrea Bulkley Reidy, MD  
Assistant Professor of Anesthesiology (primary appointment)  
BS Illinois Wesleyan University 2005  
MD Illinois Wesleyan University 2010

Eduardo Reina, MD  
Assistant Professor of Anesthesiology (primary appointment)  
MD University of Illinois Chicago 2011

Clare H Ridley, MD  
Assistant Professor of Anesthesiology (primary appointment)  
Assistant Professor of Surgery (Cardiothoracic Surgery)  
BA Columbia College of Phy & Surg 2002  
MD Washington Univ in St. Louis 2008

Isabella Rossi Riordan, MD  
Instructor in Anesthesiology (primary appointment)  
MD Loyola University Chicago 2014

Pedro Rios Morales, MD  
Assistant Professor of Anesthesiology (Pending Executive Faculty Approval) (primary appointment)  
MD University of Puerto Rico 2010  
BS University of Puerto Rico 2005

Stephen L. Ristvedt, MA, PHD  
Associate Professor of Anesthesiology (primary appointment)  
Associate Professor of Psychiatry  
BA University of Minnesota 1981  
MA University of Pennsylvania 1983  
PHD University of Pennsylvania 1989

Evan Ward Roller, MD  
Assistant Professor of Anesthesiology (primary appointment)  
MD University of Cincinnati 2010

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Adnan Sadiq, MD  
Assistant Professor of Anesthesiology (primary appointment)  
Assistant Professor of Surgery (Cardiothoracic Surgery)  
MD Royal College of Surgeons 2001  
BS State Univ of NY Buffalo 1996

Angela K Saettele, MD  
Assistant Professor of Anesthesiology (primary appointment)  
BS Simpson College 2004  
MD University of MO Columbia 2008

Monica Sala-Rabanal, PHD  
Instructor in Anesthesiology (primary appointment)  
Instructor in Cell Biology and Physiology  
BS University of Barcelona 1997  
PHD University of Barcelona 2003

Vijaya K Samineni, PHD  
Assistant Professor of Anesthesiology (primary appointment)  
PHD Southern Illinois University 2013

Matthew Stringfellow Sanzalone, MD  
Instructor in Anesthesiology (Pending Dean's Approval) (primary appointment)  
MD Louisiana St University 2015

Charles R Schrock, MD  
Associate Professor of Anesthesiology (primary appointment)  
BS University of Notre Dame 1986  
MD University of MO Columbia 1991

Fourutan Tim Shafiei, MD  
Instructor in Anesthesiology (primary appointment)  
MD Trinity School of Medicine 2015

Rajiv K Shah, MD  
Assistant Professor of Anesthesiology (primary appointment)  
MD University of Rochester 2010

Anshuman Sharma, MD  
Professor of Anesthesiology (primary appointment)  
MD Institute of Medical Science 1990  
BA Government Medical College 1987

Ravitha Sheolal, MD  
Instructor in Anesthesiology (primary appointment)  
MD Natal Medical School 1997

Nicole Jimin Shin, MD  
Instructor in Anesthesiology (primary appointment)  
MD Washington Univ in St. Louis 2015  
BS Washington Univ in St. Louis 2010

Preet Mohinder Singh, MD, MBBS  
Assistant Professor of Anesthesiology (primary appointment)  
MD All-India Inst of Medical Sci 2010
MBBS Dayanand Medical College 2007

Pratik Sinha, MD, PHD
Assistant Professor of Anesthesiology (primary appointment)
MD University of Manchester 2002
BS University of Manchester 2001
PHD Imperial College 2013

John Charles Spiller, MD
Assistant Professor of Anesthesiology (primary appointment)
MD University of MO Columbia 2003
BS University of MO Columbia 1998

Tracey Wagner Stevens, MD
Assistant Professor of Anesthesiology (primary appointment)
MD Washington Univ in St. Louis 2008

Sanjay Subramanian, MD
Associate Professor of Anesthesiology (primary appointment)
BS University of MO Columbia 2001

Robert A Swarm, MD
Professor of Anesthesiology (primary appointment)
BA Oberlin College 1978
MD Washington Univ in St. Louis 1983

Raghu P Terkonda, MD
Assistant Professor of Anesthesiology (primary appointment)
BS University of MO Columbia 1983
MD University of MO Columbia 1987

Loc Vinh Thang, MD
Instructor in Anesthesiology (Pending Dean’s Approval) (primary appointment)
MD Michigan State University 2015

Douglas Royce Thompson, MD
Associate Professor of Anesthesiology (primary appointment)
BS University of CA San Diego 1998
MD University of CA San Diego 2003

Swarup Varaday, MBBS
Associate Professor of Anesthesiology (primary appointment)
MBBS Andhra University 1989

Anandhalakshmi Varadarajan, MBBS, MD
Instructor in Clinical Anesthesiology (primary appointment)
MBBS Sriramachandra Medical College 2000
MD St. Lukes 2007

Gershon Ram Volotzky, MD
Associate Professor of Anesthesiology (primary appointment)
MD Tel-Aviv University 1979

Coridalia Wald Chen, MD
Instructor in Anesthesiology (primary appointment)
MD University of Panama 2006

Brian Louis Weber, JD, MD
Instructor in Anesthesiology (primary appointment)
BS University of MO St Louis 2005
JD Washington Univ in St. Louis 2008
MD University of MO Kansas City 2015

Ashley Brooke Weinhold, MD
Assistant Professor of Anesthesiology (primary appointment)
MD University of Arkansas 2011

Brian T Wessman, MD
Associate Professor of Anesthesiology (primary appointment)
Associate Professor of Emergency Medicine in Medicine
BS College of William and Mary 2000
MD Commonwealth College 2005

Troy S Wildes, MD
Associate Professor of Anesthesiology (primary appointment)
MD Washington Univ in St. Louis 2002
BS Illinois Wesleyan University 1998

Mark D. Willingham, MD, MS
Assistant Professor of Anesthesiology (primary appointment)
MD Saint Louis University 2014
BS Washington Univ in St. Louis 2009
MS Washington Univ in St. Louis 2013

Brett D Wolff, MD
Associate Professor of Anesthesiology (primary appointment)
MD Indiana University Bloomington 1985
BA Indiana University Bloomington 1981

Maxim Wolfson, MD
Instructor in Anesthesiology (primary appointment)
MD Washington Univ in St. Louis 2015

Xiaoming Xia, MS, PHD
Assistant Professor of Anesthesiology (primary appointment)
BS Fudan University 1984
MS Shanghai Jiao Tong University 1987
PHD Vollum Institute OHSU 1998

Branden Edward Yee, MD
Assistant Professor of Anesthesiology (primary appointment)
MD Tufts University 2008
BS Tufts University 2004

Xiaobin Yi, MD
Associate Professor of Anesthesiology (primary appointment)
MD Hunan Medical University 1985

Alexander H Young, MD
Assistant Professor of Anesthesiology (primary appointment)
MD University of Arkansas 1990
Anesthesiology Research Electives

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

Special electives in basic science research as it applies to anesthesiology can be arranged with the principal investigators in the Department of Anesthesiology (http://anest.wustl.edu); in the Division of Basic Research under the direction of Jose Moron-Concepcion, PhD; in the Washington University Pain Center under the direction of Rob Gereau, PhD; and in the Division of Clinical and Translational Research under the direction of Simon Haroutounian, PhD.

The basic science laboratories focus on various topics related to ion channel structure and function, molecular mechanisms of anesthetic action, sepsis, cellular and molecular mechanisms of reward and addiction, and the cellular and genetic basis of acute and chronic pain and itch. Arrangements for these special electives are made through the specific investigators: Zhou-Feng Chen, PhD; Meaghan Creed, PhD; Alex S. Evers, MD; Narasimhan Gautam, PhD; Robert W. Gereau, PhD; Richard S. Hotchkiss, MD; Hongzhen Hu, PhD; Christopher J. Lingle, PhD; Qin Liu, PhD; Jose Moron-Concepcion, PhD; or Arvind Palanisamy, MD. In addition, opportunities exist for clinical research under the direction of Joanna Abraham, PhD; Michael Avidan, MBBCh; Anne Drewry, MD; Brian Fuller, MD; Simon Haroutounian, PhD; Thomas Kannamapallil, PhD; Michael Montana, MD, PhD; Ben Palanca, MD, PhD; Tanya Wildes, MD; or Troy Wildes, MD.

Courses


M10 Anesth 805 Anesthesiology

This clinical elective is designed to familiarize the student with basic aspects of anesthesiology practice. The primary teaching method is patient care in a clinical setting (one-on-one). The student will learn the basics of preoperative evaluation of surgical patients, the use of intraoperative monitoring in patient management and postoperative care. In addition to perioperative care, the student will be exposed to other clinical areas which include our pain management clinic, regional anesthesia/acute pain management, cardiothoracic intensive care unit, labor and delivery, pediatric anesthesia, and the Center for Preoperative Assessment and Planning. During the four-week rotation, the student will learn airway management skills, practical perioperative fluid and electrolyte therapy, along with general and regional anesthetic techniques. As an integral part of the anesthesia care team, the student will participate actively in the anesthetic management of surgical patients. The student's specific requests to be assigned to certain types of cases will be honored as time and availability dictate. The rotation will include three clinical simulator sessions using a simulator mannequin for practical management of airways problems, resuscitation, and trauma emergencies. By the end of the rotation, the student should be able to independently (under supervision) provide anesthesia for uncomplicated surgical procedures.

M10 Anesth 811 Cardiothoracic Anesthesiology

Subinternship

This clinical elective offers practical experience in the perioperative assessment and management of surgical patients undergoing cardiothoracic procedures. The student, as an integral part of the cardiothoracic anesthesia team that is composed of faculty members, fellows and residents, will learn basic principles of airway management and lung ventilation, essential aspects of pharmacologic treatment of hemodynamic abnormalities and cardiac dysrhythmias, and management of intraoperative coagulation disturbances. Emphasis will be placed on the interpretation of intraoperative hemodynamic data, echocardiographic finding (TEE), and laboratory results. During this rotation, the student will also gain practical experience in endotracheal intubation as well as the placement of intravenous lines and invasive monitoring lines, including radial artery and pulmonary artery catheters. Students will learn how to use these parameters in clinical decision making during anesthesia. At the conclusion of the rotation, the student will have a better understanding of invasive monitoring and data interpretation, as well as a more systematic approach to the management of intra- and post-operative hemodynamic, pulmonary and coagulation abnormalities. The students are expected to attend the didactic sessions of CTA and the Department of Anesthesiology. A presentation will be assigned.
M10 Anesth 812 Pediatric Anesthesiology
This clinical elective is designed to teach the theory and practice of pediatric anesthesiology and pain management. It features individualized instruction with faculty who specialize in the perioperative care of pediatric patients. The elective consists of active participation with pediatric anesthesiologists at St. Louis Children's Hospital and St. Louis Shriners Hospital learning pre-anesthetic assessment, the performance of routine anesthetics (which includes instruction and practice in pediatric airway skills), learning other technical skills such as intravenous line placement and the management of post-anesthesia care and pain therapies. The final week may be tailored to meet the student's individual interests, needs and career goals. Possibilities include exposure to sedation and anesthesia for procedures outside of the operating rooms, and to subspecialties including cardiovascular anesthesia, neurosurgical anesthesia, and acute and chronic pediatric pain management. Students will also have an opportunity to learn the management of some common medical emergencies in the Clinical Simulation Center.

M10 Anesth 819 Cardiothoracic Critical Care Subinternship
This clinical elective offers practical experience in the postoperative management of cardiothoracic patients. The student will be fully integrated into one of the intensive care teams and have the opportunity to contribute to the management of critically ill patients. Students will have the opportunity to follow specific patients over the course of their stay in the ICU, during which time they will gain insight into holistic management of patients with multi-organ dysfunction. The CTICU environment is both challenging and exciting. Students will gain unique insight into cardiorespiratory physiology and pharmacology which will be demonstrated at the patients' bedside, an invaluable and unforgettable learning experience. Students will have opportunities to learn and sometimes assist with procedures, such as central lines, chest tubes, bronchoscopy and pulmonary artery catheter insertion as well as bedside ultrasound including TTE and TEE. Principles of management and resuscitation of hemodynamically unstable patients following surgery will be emphasized as well as ventilator management. Students will also see and help manage patients with unique physiology such as those patients on ventricular assist devices, and on ECMO. We also have a very busy and heart and lung transplantation program at the hospital - all of these patients are cared for in the CTICU. At the conclusion of the rotation, the student will have a better understanding of shock, sepsis, multi-organ failure, organ system support and compassionate withdrawal of life support. In addition to bedside teaching, there will be informal teaching sessions on a wide variety of topics as well as teaching on interpreting hemodynamic data and waveforms, and cardiac echo exams. Students will be encouraged to present on their patient at morning rounds, during which constructive feedback and interactive teaching will occur. Medical students will be asked to present a short discussion on a topic of their choice. This should be a short 20 - 30 minute presentation followed by a discussion on the topic which will be moderated by the attending. Discuss the time and topic of choice with the attending of service.

M10 Anesth 820 Critical Care Subinternship
Students on this rotation are integral members of the multidisciplinary intensivist-led critical care team in the Surgical Intensive Care Unit (SICU). Students learn an organ systems-based approach for evaluation and management of critically ill and injured patients, and application of evidence-based principles in delivery of state-of-the-art critical care. Emphasis is placed on critical care knowledge and techniques used at the bedside in the clinical management of serious traumatic and surgical conditions. Students become familiar with resuscitation and cardiopulmonary support, including methods for non-invasive and invasive hemodynamic monitoring, and techniques for airway management and pulmonary support in respiratory failure. Basic knowledge and skills in the management of blunt and penetrating trauma, neurologic injuries, multi-system organ failure, and life-threatening infections in the surgical patient are also taught, as is the importance of treatments to alleviate anxiety and pain, maintain fluid and electrolyte balance, and providing adequate nutrition. Practical experience is gained in placement of vascular access devices, airway equipment, ultrasonography and its applications, interpretation of imaging and laboratory data, and use of guidelines, protocols and quality assurance tools in the management of critically ill patients.

M10 Anesth 821 Pain Management
Acute pain is the most common symptom of medical illness and is ubiquitous after major surgery. Chronic pain is the leading cause of worker disability. Severe pain afflicts most people with advanced cancer. Learning the fundamentals of pharmacologic, interventional, and multidisciplinary pain management is important for all areas of clinical medicine. Rotation is based at Barnes-Jewish Hospital with focus adjusted to meet student's interest and career plans.

M10 Anesth 822 Anesthesiology for Neurosurgery Subinternship
Students will help care for patients having challenging neurosurgical procedures. Students will become familiar with complex procedures, brain monitoring, cardiovascular support and airway management and will be exposed to all kinds of neurosurgical pathology. Student must be prepared to participate in the intricate anesthetic management of patients undergoing surgery in our novel intraoperative MRI rooms. For those interested, clinical research projects are ongoing and student participation is encouraged.

M10 Anesth 823 Obstetrical Anesthesiology
The medical students will learn the different analgesia/anesthetic options for the labor patient. They will also learn how the physiological adaptations of pregnancy influence anesthetic management. They will be actively involved in the parturient's management, i.e., starting an IV, placement of spinal, epidural or CSE (combined spinal epidural) anesthetics. They will also attend the OB anesthesia conferences and interview patients in labor (with an OB anesthesia attending).

M10 Anesth 900 Research Elective - Anesthesiology
Research opportunities may be available. If interested, please contact the Department of Anesthesiology.