Department of Anesthesiology

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

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 (CPR).

The realm of scientific investigation in anesthesiology also spans a broad range. Scientific efforts at the cellular and molecular levels are directed to 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:

1. acquire and apply pharmacologic knowledge related to anesthetic, narcotic, paralytic and sedative drugs and to 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 in the clinical evaluation and management of patients, and in applied physiology and pharmacology. The Department of Anesthesiology offers student experiences in the operating room, the intensive care unit, the pain clinic and the laboratory.

Website: http://anest.wustl.edu

Degrees & Requirements

While the Department of Anesthesiology does not offer its own degree, some of the department's courses are open to students in the MD and MSTP (MD/PhD) programs. Further information about the MD and MSTP degrees can be found in the Degrees & Programs Offered (http://bulletin.wustl.edu/medicine/degrees) section of this Bulletin.

Research

Research Electives in Anesthesiology

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 Anesthesiology Research Unit and the Washington University Pain Center under the direction of Rob Gereau, PhD, or the Division of Clinical and Translational Research under the direction of Michael Avidan, MBCh.

These laboratories focus on various aspects of molecular neurobiology, including ion channel structure and function; G-protein molecular biology; molecular mechanisms of anesthetic action; genetics of anesthetic responsiveness; and the molecular, cellular and genetic basis of acute and chronic pain and itch. Arrangements for these special electives are made through the specific investigators: Walter A. Boyle III, MD; Zhou-Feng Chen, PhD; Alex S. Evers, MD; Narasimhan Gautam, PhD; Richard S. Hotchkiss, MD; Christopher J. Lingle, PhD; Gustav Akk, PhD; Michael Bruchas, PhD; Yu-Qing Cao, PhD; Robert W. Gereau, PhD; DP Mohapatra, PhD; or Jose Moron-Concepcion, PhD. In addition, opportunities exist for clinical research under the direction of Michael Avidan, MBCh; Evan Kharasch, MD, PhD; Peter Nagele, MD; or Ben Palanca, MD, PhD.

Faculty

Department Chair
Alex S. Evers, MD

Department Vice Chair
Ellen M. Lockhart, MD

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

A

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MD University of Pittsburgh 2007
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MBBS Liaquat Medical College 1969
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BS Moscow State University 1991
PHD State Univ of NY Buffalo 1997

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PHD University of Surrey 2009

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BS Rutgers University 2008
MD Washington Univ in St. Louis 2013
BS1 Rutgers University 2008

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MD M.G.R. Medical University 2013

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MBBCH University of the Witwatersra 1991

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MD Ain Shams University 1977

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BS University of CA San Francisco 1974

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Associate Professor of Neuroscience
PHD Creighton University 2004

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PHD University of CA San Francisco 1999

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Professor of Developmental Biology
Professor of Psychiatry
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MS School Not Listed 1987
BS Wuhan University 1983

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MBBS Dalian Medical University 1995
MS Dalian Medical University 1996
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PHD Washington Univ in St. Louis 2012
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BS Wheaton College 2005

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MD Baylor University 1977

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Assistant Professor of Surgery (Cardiothoracic Surgery)
MD University of Kansas 2009

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MD Washington Univ in St. Louis 2006

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BS Pennsylvania State University 2006

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DOST Midwestern University 2001
BS St Xavier University 1995

E

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MD Saint Louis University 2005

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Head of the Department of Anesthesiology
Professor of Developmental Biology
Professor of Medicine
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BS Yale University 1974

F

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Professor of Pediatrics
MD Davenport University 1988
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G

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Associate Professor of Surgery (Cardiothoracic Surgery)
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**H**

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MD Hahnemann University 1972

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Professor of Medicine
Professor of Surgery (General Surgery)
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**I**

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**K**

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MBBS University of Leipzig 1998

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PHD Washington Univ in St. Louis 2012
BS Colorado St University 2001

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MD University of MO Kansas City 2005
BS Saint Louis University 2001

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Instructor in Anesthesiology (primary appointment)
BS University of California 2004
PHD University of California 2010

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MD U Medical-Dental Of New Jersey 2008

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MD Washington Univ in St. Louis 2005
BS University of Washington 1997

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Assistant Professor of Anesthesiology (primary appointment)
PHD All-India Inst of Medical Sci 2003
MD Tamilnadu Medical University 2000

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Assistant Professor of Emergency Medicine in Medicine
MD SUNY - Empire State College 2008
BS Virginia Tech 2004

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

Mitchell R Platin, MD
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MD Kent St University 1987

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PHD Washington St University 2011

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Associate Professor of Anesthesiology (primary appointment)
MD Saint Louis University 1987
BS Vanderbilt University 1978
MME University of MO Columbia 1982

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Assistant Professor of Anesthesiology (primary appointment)
MD Juan N Corpas School of Medic 1989

Lesley Kathryn Rao, MD
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MD Saint Louis University 2006

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Assistant Professor of Anesthesiology (primary appointment)
MD University of Illinois 2007

Jebadurai Ratnaraj, MD, MD1
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MD Madurai Kamaraj University 1979
MD1 Northrhein Westfalen Medical 1985

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Instructor in Anesthesiology (primary appointment)
MD University of Illinois Chicago 2011

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BA Columbia College of Phy & Surg 2002
MD Washington Univ in St. Louis 2008

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Associate Professor of Anesthesiology
Associate Professor of Psychiatry
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MA University of Pennsylvania 1983
PHD University of Pennsylvania 1989

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MD University of Cincinnati 2010

Adnan Sadiq, MD
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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

Charles R Schrock, MD
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MD University of MO Columbia 1991
BS University of Notre Dame 1986

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Professor of Genetics
Professor of Pathology and Immunology
MA University of Toledo 1983
BS Northwestern University 1981

PHD Vanderbilt University 1987

James Serot, MD
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MD Loyola University Chicago 2006

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MD University of Rochester 2010

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Instructor in Anesthesiology (primary appointment)
BS Tufts University 2001
MD Bharati Vidyapeeth Med College 2000

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Professor of Anesthesiology (primary appointment)
MD Institute of Medical Science 1990
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PHD University of Manchester 2006

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MD University of MO Columbia 2003
BS University of MO Columbia 1998

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MD Washington Univ in St. Louis 2008

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Robert A Swarm, MD
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BA Oberlin College 1978
MD Washington Univ in St. Louis 1983

Martha Zorko Szabo, MD
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MD Medical College of Ohio 1990

Rene Tempelhoff, MD
Professor of Anesthesiology (primary appointment)
Professor of Neurological Surgery
MD University of Lyon 1974

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MD University of MO Columbia 1987
BS University of MO Columbia 1983

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

V

Swarup Varadaya, MBBS
Assistant Professor of Anesthesiology (primary appointment)
MBBS Andhra University 1989

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MD U Medical-Dental Of New Jersey 2011

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

W

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Instructor in Anesthesiology (primary appointment)
MD University of Arkansas 2011

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Assistant Professor of Anesthesiology (primary appointment)
Assistant Professor of Pediatrics
MD University of Cincinnati 2004

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Associate Professor of Emergency Medicine in Medicine
MD Commonwealth College 2005
BS College of William and Mary 2000

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

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

X

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

Y

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

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

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MD University of Arkansas 1990
BA University of Mississippi 1986

Anna Rebecca Young, MD
Assistant Professor of Anesthesiology (primary appointment)
MD University of Kentucky 2008
BS Asbury College 2004

Z

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Assistant Professor of Anesthesiology (primary appointment)
MD Saint Louis University 2006

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MS Zhejiang Medical University 1999
BS Wuhan University 1996
PHD State Univ of NY Buffalo 2005

Jonathan Kramer Zoller, MD
Instructor in Anesthesiology (Pending Dean's Approval) (primary appointment)
MD Tulane University 2009

Courses

Visit online course listings to view offerings for M10 Anesth

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. 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 airway 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. Note: Presence and participation in the three Friday Simulator Sessions and the Presentation on the last day of the rotation are required to receive a grade. If there is a conflict with attendance, prior arrangements can be made to accommodate the student.
M10 Anesth 611 Cardiothoracic Anesthesiology
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 postoperative 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 Anesthesia
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 four weeks of active participation with pediatric anesthesiologists at St. Louis Children's Hospital and St. Louis Shriners Hospital learning preanesthetic 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 room, and to subspecialties including cardiovascular anesthesia, neurosurgical anesthesia, and acute and chronic pediatric pain management. Students also will have an opportunity to learn the management of some common medical emergencies in the Clinical Simulation Center.

M10 Anesth 819 Cardiothoracic Critical Care
This clinical elective offers practical experience in the postoperative management of cardiothoracic patients. The student will be fully integrated into the intensive care team and have the opportunity to contribute to the management of critically ill patients. Students will be afforded the opportunity to follow specific patients over the course of their stay on 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. Cardiorespiratory physiology and pharmacology will be demonstrated at the patients’ bedside, an invaluable and unforgettable learning experience. Students will have numerous opportunities to learn and sometimes assist with procedures, such as central lines, chest tubes, bronchoscopy and pulmonary artery catheter insertion. Principles of management and resuscitation of hemodynamically unstable patients following surgery will be emphasized. Students will also see and help manage patients on ventricular assist devices, ECMO, and following heart and lung transplantation. At the conclusion of the rotation, the student will have gained 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 cardiac echo exams. Students will be encouraged to present on their patient at morning ward rounds, during which constructive feedback and interactive teaching will occur. Students will present on a topic related to one of their patients at the end of the block.

M10 Anesth 820 Critical Care
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 noninvasive and invasive hemodynamic monitoring, and techniques for airway management and pulmonary support in respiratory failure. Basic knowledge and skills in the management of neurologic injuries, liver and/or renal 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 provide adequate nutrition. Practical experience is gained in placement of vascular access devices, interpretation of 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 821B Pain Management - Missouri Baptist Medical Center
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 Missouri Baptist Medical Center with focus adjusted to meet student's interest and career plans.

M10 Anesth 822 Anesthesia for Neurosurgery
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 Anesthesia
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.