

# **Anesthesiology**

#### **Division Photo**



Row 1: M. Kibelbek, A. Tucker, V. Chidambaran, M. Baker, A. Mueller, A. Loepke, D. Kurth, J. McAuliffe, III

Row 2: K. Goldschneider, K. Lewellyn, M. Patino, B. Hugus, J. Spaeth

Row 3: S. Danzer, J. Estes, L. Roeder, K. Beutel, K. Franic-Everhart, M. Konig

Row 4: K. Vicars, J. Kondik, S. Kennedy, J. Moeller, K. Callahan, N.

Andersen, R. Blacklidge, J. Beiersdorfer, C. Opdycke

Row 5: P. Samuels, L. Pfaff, M. Linker, S. Sadhasivam, G. Istaphanous, C. Ward

## **Division Data Summary**

#### **Research and Training Details**

Number of Faculty	46
Number of Joint Appointment Faculty	2
Number of Research Fellows	1
Number of Research Students	4
Number of Support Personnel	13
Direct Annual Grant Support	\$735,000
Direct Annual Industry Support	\$22,808
Peer Reviewed Publications	19

#### **Clinical Activities and Training**

Number of Clinical Staff	102
Number of Clinical Fellows	8
Number of Clinical Students	140
Number of Other Students	32
Inpatient Encounters	15,836
Outpatient Encounters	31,272

## **Significant Publications**

presynaptic terminals during the development of limbic epilepsy. Hippocampus, 20:113-124. PMC2801769

Sadhasivam S, Cohen LL, Hosu L, Gorman KL, Wang Y, Nick TG, Jou JF,et al. Real-time assessment of perioperative behaviors in children and parents: development and validation of the perioperative adult child behavioral interaction scale (PACBIS). Anesth Analg 2010; 110:1109-15

Mahmoud M, Gunter J, Donnelly L, Wang Y, Nick T,Sadhasivam S" Comparisonof Dexmedetomidinewith Propofolfor Magnetic Resonance Imaging Sleep Studies in Children". Anesthesia Analgesia 2009 109: 745-753

Loepke AW: Developmental Neurotoxicity of Sedatives and Anesthetics – A Concern For Neonatal and Pediatric Critical Care Medicine? Pediatr Crit Care Med 2010; 11(2): 217-226

### **Faculty Members**

C. Dean Kurth, MD, Professor; Anesthesiologist-in-Chief and Chair, Department of Anesthesia

Elena Adler, MD, Adjunct Associate Professor; Medical Director, Anesthesia Supply Chain, Division of Anesthesia

Nancy Andersen, MD, Adjunct Associate Professor

Lori Aronson, MD, Adjunct Associate Professor

Anne Boat, MD, Assistant Professor; Director, Fetal Surgery Team, Division of Anesthesia

Vidya Chidambaran, MD, Assistant Professor

Steve Danzer, PhD, Assistant Professor

Kenneth Goldschneider, MD, Associate Professor; Director, Division of Pain Management

Joel Gunter, MD, Professor

Nancy Hagerman, MD, Adjunct Assistant Professor; Co-Medical Director, Same Day Surgery and Pre-Anesthesia Consultation Clinic, Division of Anesthesia

Elizabeth Hein, MD, Adjunct Assistant Professor

Liana Hosu, MD, Assistant Professor

George Istaphanous, MD, Assistant Professor

Fay Jou, MD, Assistant Professor

Thomas Kabalin, MD, Associate Professor

Michael "Jack" Kibelbek, MD, Associate Professor

Matthias Konig, MD, Assistant Professor

Ik Lee, MD, Associate Professor; Director, Division of Anesthesia

Andreas Loepke, MD, PhD, Associate Professor

Mohamed Mahmoud, MD, Assistant Professor

**John McAuliffe, MD, MBA**, Associate Professor; *Director, Research, Division of Neurobiology; Interim Director, Division of Neurobiology* 

Mark Meyer, MD, Assistant Professor; Director, Procedure Management, Division of Pain Management

**David Moore, MD,** Associate Professor; Clinical Coordinator, Anesthesia Fellow Pain Management Education, Division of Pain Management

Jacquelyn Morillo-Delerme, MD, Associate Professor; *Director of Anesthesia, Liberty Campus, Division of Anesthesia*Mario Patino, MD, Assistant Professor

Joseph Previte, MD, FAAP, Associate Professor; Director, Information Technology Services, Division of Anesthesia

David Richards, PhD, Assistant Professor

Senthilkumar Sadhasivam, MD, Associate Professor

Nancy Samol, MD, Adjunct Assistant Professor

Paul Samuels, MD, Associate Professor; Director, Education, Department of Anesthesia

Thomas "Mike" Shackleford, DO, Assistant Professor

Ximena Soler, MD, Assistant Professor

James Spaeth, MD, Associate Professor; Associate Chief, Division of Anesthesia; Director, Cardiac Anesthesia Team, Division of Anesthesia

Theodore Striker, MD, Adjunct Professor

Alexandra Szabova, MD, Assistant Professor

Jon Tomasson, MD, Assistant Professor; Medical Director, Post Anesthesia Care Unit, Division of Anesthesia

Anna Varughese, MD, MPH, Associate Professor; Associate Chief, Division of Anesthesia; Director, Quality, Division of Anesthesia; Medical Director, Same Day Surgery and Pre-Anesthesia Consultation Clinic, Division of Anesthesia

Deborah Vermaire, MD, Adjunct Associate Professor; Director, Quality, Division of Pain Management

Norbert Weidner, MD, Associate Professor; Director, Palliative Care, Division of Pain Management; Medical Director, Starshine Hospice

Eric Wittkugel, MD, Associate Professor

Junzheng Wu, MD, Assistant Professor

## **Joint Appointment Faculty Members**

**Susmita Kashikar-Zuck**, **PhD**, Associate Professor Behaviorial Medicine & Clinical Psychology

**Anne Lynch-Jordan, PhD,** Assistant Professor Behavioral Medicine & Clinical Psychology

**Todd Nick, PhD**, Professor Epidemiology & Biostatistics

### **Clinical Staff Members**

- o Jasleen Goel, MD
- Clifford Hoffmann, MD

#### **Trainees**

- Rahul Baijal, MD, PGY-IV, Johns Hopkins School of Medicine
- Chandra Beals, MD, PGY-IV, University of Iowa
- Charles Eastwood, MD, PGY-IV, University of Vermont
- Lisa Francis, DO, PGY-IV, West Virginia University
- Erica Lin, MD, PGY-IV, University of North Carolina
- David Morse, MD, PGY-IV, University of Albama at Birmingham
- Kristen Ogg, DO, PGY-IV, University Hospitals Case Medical Center
- Wade Smith, MD, PGY-IV, University of Arizona

## Significant Accomplishments

#### **Research Growth**

Research growth in the past year has made our division one of the nation's top three pediatric anesthesia departments in grant funding. Steve Danzer, PhD, received an NIH grant to investigate neuronal circuitry development in epilepsy and autism. David Richards, PhD, is using an NIH grant to investigate mechanisms of synaptic transmission. George Istaphanous, MD, and Andreas Loepke, MD, PhD, are using a Foundation for Anesthesia Education and Research (FAER) grant to investigate mechanisms of anesthetic neurotoxicity. And Senthilkumar Sadhasivam, MD, MPH, has a FAER grant to study the relationship between the genetics of morphine drug metabolism and side effects of morphine after surgery.

#### **Regional Anesthesia Service Launched**

The Division of Pain Management, led by David Moore, MD, Jacquelyn Morillo-Delerme, MD, Senthilkumar Sadhasivam, MD, MPH, and Richard Goins, implemented a regional anesthesia service at Cincinnati Children's. During orthopedic and plastic surgery, catheters are inserted around peripheral nerves and local anesthetics are injected to produce selective postoperative analgesia for up to several days. Only a few children's hospitals in the country offer such a service.

#### **Neuromonitoring Service Begins**

The Division of Neurobiology, led by John McAuliffe, MD, MBA, and Michelle Cooper, implemented a neuromonitoring

service. This is the only such program in a pediatric anesthesiology department in the nation. During spine surgery, neurosurgery, or plastic surgery, this service monitors the integrity of the peripheral and central nervous systems. It helps protect patients from injury and enables the surgeons to attempt procedures that would otherwise be judged too risky to perform.

## Grants, Contracts, and Industry Agreements

#### **Grant and Contract Awards**

## **Annual Direct / Project Period Direct**

Danzer, S

Selective Disruption of Hippocampal Dentate Granule Cells in Autism: Impact of PTEN Deletion

National Institutes of Health

R01 NS 065020 05/0109 - 04/30/14 \$247,500 / \$1,247,500

Contributions of Aberrant Granule Cell Integration to the Development of Epilepsy

National Institutes of Health

R01 NS 062806 08/05/09 - 07/31/14 \$218,750 / \$1,093,750

Short and Long-Term Impact of Neonatal Seizures on Hippocampal Granule Cell Integration

National Institutes of Health

R03 NS 064378 06/01/09 - 5/31/11 \$50,000 / \$100,000

Richards, D

Regulation and Mechanisms of Synaptic Vesicle Exocytosis

National Institutes of Health

R01 NS 054750 11/09/08 - 06/30/12 \$218,750 / \$847,663

Current Year Direct \$ 735,000

**Industry Contracts** 

Tomasson, J

Nonin Medical, Inc. \$ 22,808

Current Year Direct Receipts

\$ 22,808

Total \$ 757,808