

# 22nd Annual Safar Symposium

44th Peter & Eva Safar Lecture for the Sciences & Humanities

**Patrick M. Kochanek, MD, MCGM**



Thursday, May 15, 2025 | 8:00 am to 5:00 pm | University Club

**The Safar Vision II: Searching for Breakthroughs in Acute Brain Injury**

Friday, May 16, 2025 | 8:00 am to 12:00 pm | WISER

**Transforming Pediatric Care Through Simulation**

### ***Featured on the Cover***

***The mosaic tiles represent the more than 70 research fellows that Dr. Kochanek has played a key role in mentoring***

# 22<sup>nd</sup> Annual Safar Symposium

## May 15, 2025

**University Club, Ballroom B – 123 University Place**

- 7:30 Registration and Continental Breakfast
- 8:00 – 11:50 **THE SAFAR VISION II: SEARCHING FOR  
BREAKTHROUGHS IN ACUTE BRAIN INJURY**
- Moderators:** **Clifton W. Callaway, MD, PhD**  
Distinguished Professor and Executive Vice Chair  
Department of Emergency Medicine  
Associate Director, Safar Center for Resuscitation Research  
University of Pittsburgh School of Medicine, Pittsburgh, PA
- Anthony E. Kline, MD**  
Professor, Department of Physical Medicine and Rehabilitation  
Associate Director, Safar Center for Resuscitation Research  
University of Pittsburgh School of Medicine, Pittsburgh, PA
- 8:00 – 8:15 **Opening Comments**  
**Patrick M. Kochanek, MD, MCCM**  
Distinguished Professor and Vice Chair, Critical Care Medicine  
Director, Safar Center for Resuscitation Research  
University of Pittsburgh School of Medicine, Pittsburgh, PA
- 8:15 – 8:25 **Moderator Comments**
- 8:25 – 8:40 **Robert S.B. Clark, MD**  
Endowed Chair of Pediatric Critical Care Medicine  
Vice Chair, Critical Care Medicine  
Associate Director, Safar Center for Resuscitation Research,  
Pediatric Neuroscience and Molecular Biology  
UPMC Children's Hospital of Pittsburgh, Pittsburgh, PA  
***Integrating Bench, Bedside, and Big Data to Solve the  
Problem of Brain Injury***
- 8:40 – 8:45 Discussion

8:45 – 9:00	<b>Mioara D. Manole, MD</b> Associate Professor, Department of Pediatrics Associate Director, Safar Center for Resuscitation Research University of Pittsburgh School of Medicine, Pittsburgh, PA <b><i>Cerebral Resuscitation after Experimental Pediatric Cardiac Arrest</i></b>
9:00 – 9:05	Discussion
9:05 – 9:20	<b>Ericka L. Fink, MD, MS, FCCM</b> Professor, Division of Pediatric Critical Care Medicine, Pediatrics, and Clinical and Translational Science Associate Director, Safar Center for Resuscitation Research Director, Critical Illness Recovery for ChiLdrEn (CIRCLE) Program UPMC Children's Hospital of Pittsburgh, Pittsburgh, PA <b><i>Pediatric Cardiac Arrest Prognostication: Advancing Insights, Improving Outcomes</i></b>
9:20 – 9:25	Discussion
9:25 – 9:40	<b>Hülya Bayır, MD</b> Professor of Pediatrics and Director of Children's Redox Health Center Columbia University Vagelos College of Physicians and Surgeons Chief of Critical and Palliative Care and Hospital Medicine NYP Morgan Stanley Children's Hospital of New York <b><i>Redox Medicine in Traumatic Brain Injury</i></b>
9:40 – 9:45	Discussion
9:45 – 10:00	BREAK
<b>Moderators:</b>	<b>C. Edward Dixon, PhD</b> Neurotrauma Chair Professor Vice Chair, Research Department of Neurological Surgery Associate Director, Safar Center for Resuscitation Research University of Pittsburgh School of Medicine, Pittsburgh, PA

**Amy K. Wagner, MD**

Professor, Department of Physical Medicine and Rehabilitation  
Associate Director, Safar Center for Resuscitation Research  
University of Pittsburgh School of Medicine, Pittsburgh, PA

10:00 – 10:10     **Moderator Comments**

10:10 – 10:25     **Dennis W. Simon, MD**

Associate Professor of Critical Care Medicine and Pediatrics  
Associate Director, Safar Center for Resuscitation Research  
Director, Neurocritical Care  
UPMC Children's Hospital of Pittsburgh, Pittsburgh, PA  
***The Gut Microbiome in Neurotrauma***

10:25 – 10:30     Discussion

10:30 – 10:45     **Michael J. Whalen, MD**

Associate Professor of Pediatrics  
Massachusetts General Hospital, Boston, MA  
***Mechanistic Therapy for Blood-Brain Barrier Dysfunction  
in the Chronic Phase of TBI***

10:45 – 10:50     Discussion

10:50 – 11:05     **Rachel P. Berger, MD, MPH**

Medical Director  
Pennsylvania Department of Human Services  
Office of Children, Youth and Families, Pittsburgh, PA  
***Improving Detection of Abusive Head Trauma: From Blood  
to AI and Everything in Between***

11:05 – 11:10     Discussion

11:10 – 11:25     **Ruchira M. Jha, MD, MSc**

Associate Professor of Neurology and Translational Neuroscience  
Medical Director, Neurointensive Care Unit  
Barrow Neurological Institute, Phoenix, AZ  
***Advancing Precision Medicine by Deconstructing  
Secondary Injury in Traumatic Brain Injury***

11:25 – 11:30     Discussion

- 11:30 – 11:45     **Michael J. Bell, MD**  
 Chief, Pediatric Critical Care Medicine  
 Professor of Pediatrics  
 Sarah M. and Charles E. Seay Chair in Pediatric Research  
 University of Texas Southwestern, Dallas, TX  
***Pediatric TBI Research: What Can the Future Bring?***
- 11:45 – 11:50     Discussion and Closing Remarks
- 11:50 – 12:00     BREAK
- 12:00 – 12:05     **Introduction of the 44<sup>th</sup> Peter and Eva Safar Annual  
 Lectureship in Medical Sciences and Humanities**  
**Yan Xu, PhD**  
 Peter Winter Professor of Anesthesiology  
 Professor of Pharmacology & Chemical Biology, Physics &  
 Astronomy, and Structural Biology  
 Vice Chair for Basic Sciences, Department of Anesthesiology  
 and Perioperative Medicine  
 University of Pittsburgh School of Medicine, Pittsburgh, PA
- 12:05 – 1:00     **44<sup>th</sup> Peter and Eva Safar Annual Lectureship in Medical  
 Sciences and Humanities**  
**Patrick M. Kochanek, MD, MCCM**  
 Distinguished Professor and the Ake & Inger Grenvik  
 Professor of Critical Care Medicine  
 Department of Critical Care Medicine  
 Professor of Pediatrics, Anesthesiology and Perioperative  
 Medicine, and Clinical and Translational Science  
 University of Pittsburgh School of Medicine  
***Mentoring the Mentors in Neurocritical Care***
- 1:00 – 1:45     Reception  
 Ballroom B, University Club

# The 44<sup>th</sup> Peter and Eva Safar Annual Lectureship in Medical Sciences and Humanities

**Guest Speaker:**      **Patrick M. Kochanek, MD, MCCM**

Distinguished Professor and the Ake & Inger Grenvik  
Professor of Critical Care Medicine  
Department of Critical Care Medicine  
University of Pittsburgh School of Medicine

**Topic:**                      ***Mentoring the Mentors in Neurocritical Care***



**Dr. Patrick M. Kochanek** is a Distinguished Professor of Critical Care Medicine (CCM), the Ake & Inger Grenvik Professor of CCM, and a Professor of Pediatrics, Anesthesiology and Peri-operative Medicine, and Clinical and Translational Science in the Pitt School of Medicine, where he has served on the faculty since 1986. He received his BS Degree with high distinction from the University of Michigan,

and his MD, AOA from the University of Chicago. After a Pediatrics residency at the University of California San Diego, he completed a Pediatric CCM fellowship at Children's National Medical Center in Washington DC, before being recruited to our Pediatric CCM faculty by Ann Thompson. In 1994 he was named director of the International Resuscitation Research Center, following in the footsteps of legendary CPR pioneer Dr. Peter Safar. Dr. Kochanek's first act was to rename the Center, the Safar Center for Resuscitation Research, which he has directed for 31 years. Dr. Kochanek expanded the Center's research in traumatic brain injury, which complimented its renowned cerebral resuscitation research, and he built a pediatric component. Focusing on neuroinflammation, neuroprotection, and hypothermia, he linked the Center's work to many top basic and translational scientists at Pitt. Under his leadership, the Center has grown to house a multi-departmental faculty including CCM, Neurological Surgery, PM&R, and others, that has launched many trainees to careers of national and international prominence. In addition to his > 650 publications, which have been cited 30,000 times, he served as one of the editors of the Textbook of Critical Care and was the Editor-in-Chief of the journal *Pediatric Critical Care Medicine* for 20 years.

# Multi-Departmental Trainees' Research Day

**May 15, 2025**

**University Club | 123 University Place**

1:00 – 1:45	Registration and Poster Setup
2:00 – 2:05	<b>Opening Comments</b> <b>Patrick M. Kochanek, MD, MCCM</b>
2:05 – 3:20	Poster Session— <b>Ballroom A</b>
3:30 – 3:35	Judges Meeting (if necessary)— <b>Ballroom A</b>
3:35 – 4:00	Presentation of Awards Nancy Caroline Fellow Award S. William Stezoski Technician Award Trainee Awards Patrick M. Kochanek, MD, MCCM— <b>Ballroom B</b>
4:00 – 5:00	Reception Honoring Patrick M. Kochanek, MD, MCCM <b>Ballroom B</b>

**Scan QR Code for Abstract Booklet**





# 22<sup>nd</sup> Annual Safar Symposium

May 16, 2025

**WISER | 230 McKee Place, Suite 300**

- 7:30 – 8:00      Registration and Continental Breakfast
- 8:00 – 8:15      **Opening Comments**  
**Patrick M. Kochanek, MD, MCCM**  
Distinguished Professor and Vice Chair, Critical Care Medicine  
Director, Safar Center for Resuscitation Research  
University of Pittsburgh School of Medicine, Pittsburgh, PA
- Paul E. Phrampus, MD, CPE, FSSH**  
Director, Winter Institute for Simulation, Education and  
Research (WISER)  
Professor, Depts. of Emergency Medicine and Anesthesiology  
University of Pittsburgh and UPMC, Pittsburgh, PA
- 8:00 – 12:00      **TRANSFORMING PEDIATRIC CARE THROUGH  
SIMULATION**
- Moderators:**      **John M. O'Donnell, DrPh, CRNA**  
Professor and Chair, Department of Nurse Anesthesia  
Director, Nurse Anesthesia Program, University of Pittsburgh  
School of Nursing, Associate Director, WISER, Pittsburgh, PA
- Bianca Caruso**  
Director of Educational Development, WISER  
Winter Institute for Simulation, Education and Research  
Pittsburgh, PA
- 8:15 – 8:45      **Jennifer Arnold, MD, MSc, FAAP**  
Executive Director, Immersive Design Systems  
Boston Children's Hospital  
Harvard Medical School  
Boston Children's Hospital Simulator Program, Boston, MA  
***Patient Centered Simulation—Preparing Parents to  
Become Clinicians***
- 8:45 – 8:55      Discussion

8:55 – 9:25	<b>Jared W. Henricksen, MD, MS-HPed</b> Professor, Division of Critical Care Department of Pediatrics, University of Utah Simulation Consortium Medical Director, Intermountain Health <b><i>Simulation Can Also Be Resilience Training</i></b>
9:25 – 9:35	Discussion
9:35 – 9:50	BREAK
9:50 – 10:50	<b>Advait K. Kothare, MB, BCH, BAO</b> Clinical Instructor, Emergency Medicine UPMC/WISER Simulations and Medical Education Fellow UPMC Shady Hospital Emergency Department University of Pittsburgh School of Medicine, Pittsburgh, PA and <b>Alyssa A. Vigliotti, MD</b> Assistant Professor of Pediatrics Division of General Academic Pediatrics UPMC Children's Hospital of Pittsburgh University of Pittsburgh School of Medicine, Pittsburgh, PA <b><i>Outside of the ER: An Outpatient Pediatric In-Situ Simulation Program</i></b>
10:50 – 11:00	Discussion
11:00 – 11:30	<b>Melinda Fiedor Hamilton, MD, MS</b> Professor of Critical Care Medicine and Pediatrics Associate Director, Pediatric Multidisciplinary Critical Care Training Program Director, Pediatric Simulation, UPMC Children's Hospital of Pittsburgh Simulation Center and Peter M. Winter Institute for Simulation, Education, and Research (WISER) UPMC Children's Hospital of Pittsburgh, Pittsburgh, PA <b><i>From Manikins to Mastery: Two Decades of Pediatric Simulation at CHP</i></b>
11:30 – 11:40	Discussion
11:40 – 12:00	<b>Morning Wrap Up   Paul E. Phrampus, MD, CPE</b>  <b>Closing Comments   Patrick M. Kochanek, MD, MCCM</b>

# 22<sup>nd</sup> Annual Safar Symposium

## May 15, 2025

### SPEAKER PROFILES



**Dr. Robert S.B. Clark** is Endowed Chair of Pediatric Critical Care, Vice Chair of Critical Care Medicine, Associate Director of the Safar Center for Resuscitation Research, and Professor of Critical Care Medicine, Pediatrics, and Clinical and Translational Science at the University of Pittsburgh School of Medicine. After a residency in Pediatrics at the University of Utah, he completed a fellowship in Pediatric Critical Care

Medicine (PCCM) at UPMC Children's Hospital of Pittsburgh, under the supervision of Ann Thompson and the research mentorship of Patrick Kochanek. He joined the faculty in 1995 and was extremely fortunate to continue under Dr. Kochanek's mentorship during his early faculty years, along with Dr. Steven Graham in the Department of Neurology, developing a basic and translational science foundation studying mechanisms of cell death after traumatic brain injury (TBI) that would shape his career. His research interests focus on development of novel, and translating repurposed, therapeutics targeting mechanisms of cell death and neurological dysfunction after acute TBI and ischemic brain injury, particularly in the developing brain. Clinical research has focused on pediatric critical care with an emphasis on neurocritical care, most recently directed at incorporating big data and high-density data streams with high-performing clinical content expertise to improve intensive care and ultimately patient outcomes and quality of life. Carrying on the tradition of Dr. Kochanek of training the next generation, Dr. Clark has devoted much of his career to mentoring, with many of his mentees transitioning to successful academic careers, including six that have received K-awards and seven that have received R-awards.



**Dr. Mioara D. Manole** is a Clinician, Researcher, and Teacher in Pediatric Emergency Medicine. After completing a fellowship in Pediatric Emergency Medicine, Dr. Manole pursued organized research training in Neurointensive Care at the Safar Center for Resuscitation Research supported by an NSRA Scholars Award under the mentorship of Drs. Patrick Kochanek and Robert Clark. She then successfully

competed for the NIH Mentored Career Development Award “Oxidative stress in Cerebral Blood Flow Dysregulation after Pediatric Cardiac Arrest.” She established research independence as the principal investigator of university-, NIH-, and American heart association funded grants, including the American Heart Association award “Goal Directed Therapy Targeting Brain Oxygenation after Experimental Cardiac Arrest,” and the NIH R01 grant “CYP 450-mediated Cerebral Blood Flow Dysregulation and Neurotoxicity in Pediatric Cardiac Arrest.” Dr. Manole serves as Associate Director of the Safar Center for Resuscitation Research, and is key member of fellowship research and teaching committees. Nationally, Dr. Manole has an active role in the mission of the American Heart Association. Dr. Manole is a prominent educator for the pediatric emergency medicine fellows at Children’s Hospital of Pittsburgh. She has served as research mentor for several fellows, participates in the development of the research curriculum for the Pediatric Emergency Medicine Fellowship, participates in fellow education, and is the Director of Basic Research and Chair of the Fellowship Research Scholarship Oversight Committee for Pediatric Emergency Medicine. Additionally, Dr. Manole has significant contributions in teaching and mentoring undergraduate, postdoctoral and medical students, as well as residents and critical care fellows.



**Dr. Ericka L. Fink** is a Professor of Critical Care Medicine, Pediatrics, and Clinical and Translational Science at the University of Pittsburgh School of Medicine. She is an attending physician in the pediatric intensive care unit (PICU) at UPMC Children’s Hospital of Pittsburgh and Director of the Critical Illness Recovery for ChiLdrEn (CIRCLE)

program. She is Associate Director of the Safar Center for Resuscitation Research and PICU Fellowship Research Director. Dr. Fink’s research focuses on pediatric cardiac arrest prognostication and outcomes and recovery of children with critical illness and their families. Dr. Fink is the Principal Investigator on the NIH-funded multicenter POCCA (Personalizing Outcomes after Pediatric

Cardiac Arrest) study and Co-Investigator for her site's participation in the NICHD Collaborative Pediatric Critical Care Research Network (CPCCRN).



**Dr. Hülya Bayır** is the chief of the division of critical and palliative care and hospital medicine in the department of pediatrics at Columbia University College of Physicians and Surgeons. Dr. Bayır joined Columbia from University of Pittsburgh and UPMC Children's Hospital of Pittsburgh where she was the founding director of Children's Neuroscience Institute and held the UPMC Chair in Critical Care Pediatric Research. With over 25 years of

experience, Dr. Bayır is a physician-scientist working in the pediatric intensive care unit of NYP Morgan Stanley Children's Hospital of New York, a 41-bed medical-surgical unit. Dr. Bayır has both clinical and basic research interests in the detection and mitigation of brain injuries. She has established a world-recognized research program focused on damaging and signaling mechanisms of free radicals and oxidatively modified biomolecules in brain injury. Her grants as principal investigator, funded by NIAID, NINDS, and NICHD, involve collaborations between basic, translational, and clinical science researchers. Dr. Bayır has received many honors and awards for her clinical, teaching and research contributions, including 2021 Javits Neuroscience Investigator Award from the National Institute of Neurological Disorders and Stroke, 2018 Chancellor's Distinguished Research Award from the University of Pittsburgh and 2017 Clinical Science Award from the Society for Free Radical Research-Europe Oxygen Club of California. She has published more than 200 articles, reviews, chapters, and editorials in prestigious journals such as *Cell*, *Nature Neuroscience*, and *Journal of Clinical Investigation*. Dr. Bayır attended medical school at Hacettepe University, Ankara, Türkiye and graduated in 1995. She received her training in Pediatrics at the Hacettepe University Children's Hospital, Ankara, Turkey (1995-1996) and State University of New York at Stony Brook (1996-1999). Dr. Bayır then completed a fellowship in Pediatric Critical Care Medicine at Children's Hospital of Pittsburgh (1999-2002). Dr. Bayır served for 20 years on the faculty of the Department of Critical Care Medicine at the University of Pittsburgh. Dr. Bayır is a member of the Neurotrauma Society, The American Society for Clinical Investigation, and The Association of American Physicians.



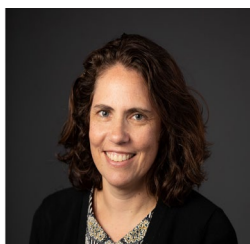
**Dr. Dennis W. Simon** is Associate Professor of Critical Care Medicine and Pediatrics at the University of Pittsburgh School of Medicine and Director of Neurocritical Care at UPMC Children's Hospital of Pittsburgh. In his clinical role he is the CCM representative to the trauma management group at UPMC Children's Hospital of Pittsburgh. He is

Associate Director of the Safar Center for Resuscitation Research where his lab investigates the impacts of neuroinflammation and the microbiome-gut-brain axis on outcomes from acute brain injury with the goal of developing novel neuroprotective therapies.



**Dr. Michael J. Whalen** is. Associate Professor of Pediatrics, Harvard Medical School and a pediatric intensivist at the Massachusetts General Hospital where he has been on staff since 1999. Dr. Whalen attended the University of Rochester, NY for undergraduate studies and the University of Vermont for graduate school (MS in Cell Biology) and medical school. He did Pediatrics residency at the Medical College of Virginia

and a Pediatric critical care medicine fellowship at Pittsburgh Children's Hospital under the mentorship of Dr. Patrick Kochanek. From there he joined the staff of the Massachusetts General Hospital and was mentored as a postdoctoral fellow by Dr. Michael Moskowitz, an internationally known stroke and migraine investigator. Dr. Whalen has had uninterrupted NIH funding since 2001. His lab investigates mechanisms of traumatic brain injury and intracerebral hemorrhage, focusing on receptor interacting protein kinases in cerebral contusion and intracerebral hemorrhage models, and the role of microbial products, circadian rhythms and inflammasome signaling in mouse concussion models.



**Dr. Rachel P. Berger** is the Medical Director of the Pennsylvania Office of Children, Youth and Families. Prior to taking this position in July 2024, she was Professor of Pediatrics and Clinical and Translational Research at the University of Pittsburgh, a Child Abuse Pediatrician at UPMC Children's Hospital of Pittsburgh and Director of Child Abuse Research at the Safar Center. She received a BA from Harvard University,

MD from Columbia University and MPH from the University of Pittsburgh. She

served as chief of the division of Child Advocacy at UPMC Children's Hospital of Pittsburgh from 2013 until 2022. She has co-authored over 130 peer-reviewed publications and book chapters and was the first child abuse pediatrician to be elected to the American Society for Clinical Investigation. She served on the Pennsylvania Task Force for Child Protection, the research lead for the Federal Commission to Eliminate Child Abuse and Neglect Fatalities (CECANF) during the Obama administration and a senior policy fellow for Casey Family Programs in 2019. She met Dr. Kochanek as a pediatric resident and he has played a pivotal role in her career for more than 25 years.



**Dr. Ruchira M. Jha** is the division chief of Neurocritical Care, medical director of the Neurointensive Care Unit, and an associate professor in the Departments of Neurology, Neurosurgery, and Translational Neuroscience at Barrow Neurological Institute. She is a clinical neurointensivist. She is board certified in neurology by the American Board of Psychiatry and Neurology and in neurocritical care by the United

Council for Neurologic Subspecialties. Dr. Jha's expertise includes clinical and translational research in neurotrauma and neurocritical care. She is a member of the American Academy of Neurology, the American Neurological Association, the National Neurotrauma Society, the Neurocritical Care Society, the Society for Neuroscience, and the Society of Critical Care Medicine. Dr. Jha earned her medical degree from Harvard Medical School in Boston, Massachusetts. She also earned a Master of Science degree in clinical and translational research from the University of Pittsburgh in Pennsylvania. Dr. Jha completed her neurology residency, chief residency, and a fellowship in neurocritical care at Massachusetts General Hospital and Brigham & Women's Hospital through the Harvard Medical School Partners Program. Dr. Jha has received prestigious awards from the National Institutes of Health (NIH) and other foundations to pursue her research. She uses a translational approach to evaluate and develop individualized targets against cerebral edema to improve outcomes after traumatic brain injury (TBI). She has multiple publications and national presentations in this field. She is also involved in collaborations with multicenter TBI consortia, such as TRACK TBI and GAIN (Genetic Associations in Neurotrauma), for her research. Dr. Jha serves on the editorial board of *JAMA Neurology* and is the critical care section editor for the journal *Stroke*.



***Dr. Michael Bell*** is a Professor and Chief of the Division of Pediatric Critical Care Medicine at UT Southwestern Medical Center. Dr. Bell joins UT Southwestern and Children's Health from Children's National Hospital in Washington, D.C., where he served as the Division Chief of Critical Care Medicine, led the Department of Respiratory Care Services and the Department of Transport Medicine and

Extracorporeal Membrane Oxygenation, and served as the Director of the Clinical Translational Science Institute. He holds a tenured Professorship of Pediatrics at The George Washington University. With 30 years of experience in academic pediatrics, he is a distinguished physician leader, scientist, clinician, and educator, renowned both nationally and internationally for his contributions to pediatric critical care medicine. Dr. Bell has published 250 peer-reviewed journal articles and book chapters. His articles can be accessed via PubMed.gov.



# 22<sup>nd</sup> Annual Safar Symposium

## May 16, 2025

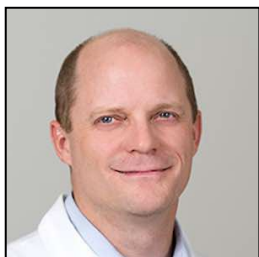
### SIMULATION SPEAKER PROFILES



**Dr. Jennifer Arnold** is a pediatrician, neonatologist, and expert in healthcare simulation at Boston Children's Hospital. Her unique perspective on medicine has been shaped by the various ways she has engaged with the field: as a pediatric and adult patient, cancer survivor, mother, and doctor. A native of St. Petersburg, FL, Arnold received her undergraduate degrees in biology and psychology from the University of Miami. She

completed her medical degree at Johns Hopkins School of Medicine in 2000 and attended a pediatric residency program at the University of Pittsburgh School of Medicine and the Children's Hospital of Pittsburgh in 2003. Arnold was a National Institutes of Health postdoctoral scholar at the University of Pittsburgh's Safar Center for Resuscitative Medicine from 2006 to 2007. During her fellowship in neonatology at the University of Pittsburgh Medical Center and Magee-Women's Hospital, she also pursued a Master of Science in medical education, graduating in 2009. A founding director of the simulation centers at both Texas Children's Hospital and Johns Hopkins All Children's Hospital, Dr. Arnold has a passion for innovating the application of healthcare simulation as a patient safety tool. She is currently the executive director for the Immersive Design Systems at Boston Children's Hospital, the primary pediatric teaching hospital for Harvard Medical School. She is also an attending physician in the Bone Health Center and Newborn Medicine Division at Boston Children's Hospital. She is the host of Boston Children's Hospital's Answers Parentcast, a podcast focused on helping parents raise healthy and happy kids. Dr. Arnold is an internationally known speaker, published NYT best-selling author (*Life is Short, No Pun Intended* and *Think Big*), and recipient of awards for innovation in medical education and patient-care. She has spoken both nationally and internationally on healthcare simulation and has made inspirational speeches on overcoming obstacles as an individual with a disability. Dr. Arnold's passion is to advocate for pediatric healthcare and raising awareness for individuals with disabilities. It is this passion that led her to a career in medicine and to focus her media efforts in this effort. Dr. Arnold has a rare type of dwarfism called Spondyloepiphyseal Dysplasia Type Strudwick (which involved more than 30 orthopedic surgeries). She is a 10-year cancer survivor. Not only does she have a disability and has personally overcome extraordinary physical and health obstacles, but she is the

mother of two kids with medical complexities, both with skeletal dysplasia. With her husband, Bill Klein, and their two children, they were featured from 2009 to 2019 on TLC's docuseries "The Little Couple," an unscripted program that provided a window into the family's personal and professional lives. The show's popularity helped to break down barriers and educate viewers about people with disabilities.



**Dr. Jared Henricksen** is a Utah native who earned his medical degree from the Medical College of Wisconsin and completed his Pediatric Residency at the University of Arizona in Tucson. He specialized in Pediatric Critical Care Medicine through a Fellowship at the University of Tennessee Health Science Center in Memphis. Additionally, he holds a master's degree in Health Profession's Education from the MGH Institute of Health Professions in Boston. He serves as a Professor in the Department of Pediatrics' Division of Critical Care in the University of Utah Health system and concurrently as the Intermountain Health Simulation Consortium Medical Director. His interests include demonstrating the value of simulation in healthcare to promote patient safety, and nurturing a culture of high reliability and psychological safety within hospital settings.



**Dr. Kothare Advait** is a Clinical Instructor of Emergency Medicine at the University of Pittsburgh School of Medicine. He is also currently a Simulation and Medical Education fellow at the Winter Institute for Simulation, Education, and Research (WISER) at the University of Pittsburgh and the UPMC Health System. He has extensive experience in simulation-based education. He has developed an Emergency Department-based mock code in-situ pediatric cardiac arrest program, and critical care simulation curricula. Internationally, he has built simulation curricula in Rwanda, Africa, for their Emergency Medicine training programs. His primary educational and research focus is on in-situ simulation, simulation assessment, pediatric emergency readiness, and curriculum development in health sciences. Dr. Kothare was the recipient of the *Rhode Island American College of Emergency Physicians Educational Excellence Award in 2024*. Dr. Kothare is a practicing emergency physician at UPMC Health System.



**Dr. Alyssa Vigliotti** is a practicing general pediatrician within the Division of General Academic Medicine at UPMC Children's Hospital of Pittsburgh. As an Assistant Professor of Pediatrics, she has a passion for preventative medicine and children's healthcare. She is currently completing a Master of Science degree in medical education. Her current interests and areas of focus include optimizing pediatric primary care education for trainees and utilizing simulation in the ambulatory setting to enhance emergency preparedness.

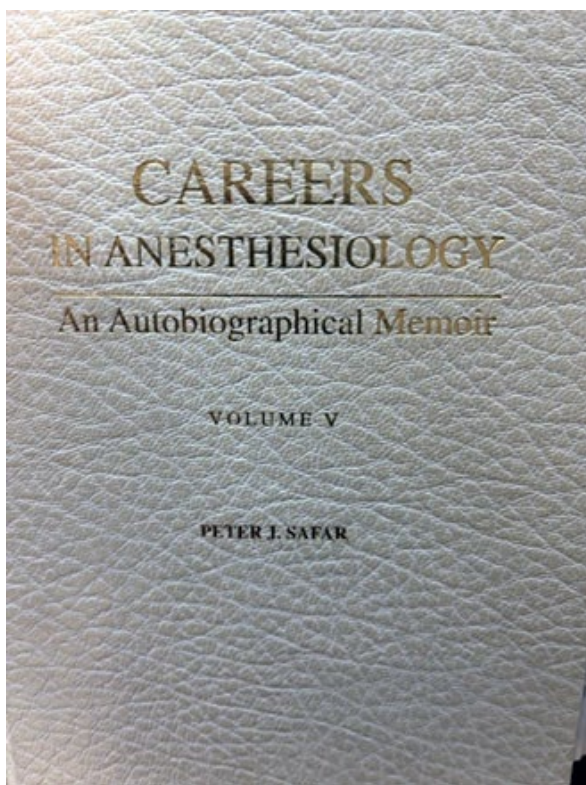


**Dr. Melinda Fiedor Hamilton** is a Professor of Critical Care Medicine (CCM) and Pediatrics at the University of Pittsburgh School of Medicine. She received her MD from Creighton University School of Medicine, completed pediatric residency at Penn State/Hershey Medical Center, and a CCM fellowship at UPMC Children's Hospital of Pittsburgh (CHP). She was a Safar Center NIH T32 scholar from 2003-2005 during

which time she completed an MS in Medical Education from the University of Pittsburgh. She is an active, dedicated clinician in the pediatric intensive care unit, where she feels privileged to provide care for critically ill patients and their families. Dr. Hamilton is recognized as an expert in pediatric simulation, pediatric resuscitation education and communication skills training. She is an avid clinician educator, providing didactic and simulation sessions for faculty, residents, fellows, and nursing. She has a special interest in teaching communication skills and has facilitated training sessions across UPMC. She is an avid mentor and advisor, having mentored CHP pediatric residents, fellows and faculty peers. She was the program director for the Pediatric CCM fellowship program for 8 years. She also co-chairs the UPMC GME Professional Development Subcommittee and is responsible for creation and dissemination of faculty and trainee development material to our 150+ training programs. As director for the UPMC CHP Pediatric Simulation Center, she oversees all operational aspects of the center. In 2021-2022, she was elected to represent the University of Pittsburgh in the prestigious Hedwig van Ameringen Executive Leadership in Academic Medicine® (ELAM®) program for women. She is also the President of the UPMC CHP Medical staff, president-elect of the University of Pittsburgh School of Medicine Academy of Distinguished Medical Educators and Co-Leads the Longitudinal Educator program in the newly established Three Rivers Curriculum at the University of Pittsburgh School of Medicine.

We are pleased to announce that a digital copy of Peter Safar's Autobiography, Volume 5 of the Careers in Anesthesiology series published in 2000 by the Wood Library-Museum of Anesthesiology, is now available free of charge on the Wood Library website.

**Scan QR Code for Dr. Safar's Autobiography**



# NOTES

# **The Safar Center for Resuscitation Research gratefully acknowledges the support of our sponsors:**

**Dr. Ake N. Grenvik Endowed Chair in Critical Care Medicine**

**Department of Anesthesiology & Perioperative Medicine**

**Department of Critical Care Medicine**

**Department of Emergency Medicine**

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**Department of Physical Medicine & Rehabilitation**

**University of Pittsburgh School of Medicine**

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**Allan Braslow and Virginia Klunder**

**UPMC Children's Hospital of Pittsburgh**

**Safar Symposium Planning Committee**

## **The 22nd Annual Safar Symposium is hosted by:**

**Robert S.B. Clark, MD, Vice Chair of Pediatric Critical Care,**

**Department of Critical Care Medicine,**

**Yan Xu, PhD, Vice Chair for Basic Sciences, Department of**

**Anesthesiology & Perioperative Medicine**

**Patrick M. Kochanek, MD, MCCM, Director of the Safar**

**Center for Resuscitation Research**

## **Committee members are:**

**Clifton W. Callaway, MD, PhD**

**Robert S.B. Clark, MD**

**C. Edward Dixon, PhD**

**Anthony E. Kline, PhD**

**John O'Donnell, DrPH, CRNA**

**Paul E. Phrampus, MD, CPE**

**Amy K. Wagner, MD**

**Yan Xu, PhD**



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