



SAFAR CENTER FOR RESUSCITATION RESEARCH

Celebrating the 50th Anniversary of CPR

8th Annual Safar Symposium – June 1-2, 2010



8th Annual Safar Symposium

Multi-Departmental Trainees' Research Day

June 1, 2010

Location: Starzl Biomedical Science Tower
200 Lothrop St. – South-Room S100

- 8:00 – 8:30 am Registration and Continental Breakfast
Morning Poster Setup
- 8:30 – 8:45 am Welcome
- 8:45 – 10:15 am Poster Presentations
- 10:15 – 10:30 am Break
- 10:30 – 11:00 am **Patrick M. Kochanek, MD**
Professor and Vice Chair, Department of Critical Care Medicine and
Director, Safar Center for Resuscitation Research
“The Remarkable Career of Peter Safar”
- 11:00 – 11:05 am Discussion
- 11:05 – 11:35 am **Rona G. Giffard, PhD, MD**
Professor, Vice Chair for Research, Department of Anesthesia and
Neurosurgery, Stanford University
*“Astrocytes - Critical Determinants of Outcome Following
Forebrain Ischemia”*
- 11:35 – 11:40 am Discussion
- 11:45 – 1:00 pm Lunch
Morning Poster Take Down

- 12:15 – 12:45 pm **Doris M. Rubio, PhD**
Director Data Center, Center for Research on Health Care, Co-Director,
Institute for Clinical Research Education, Associate Professor, Medicine,
Biostatistics, Nursing and Clinical & Translational Science, University
of Pittsburgh
“Career Boosters or Busters: How to Achieve Academic Career Success”
- 12:45 – 12:50 pm Discussion
- 12: 50 – 1:00 pm Break
- 1:00 – 2:30 pm Oral Presentations
- 2:30 – 2:45 pm Break
Afternoon Poster Setup
- 2:45 – 4:15 pm Poster presentations
- 4:15 – 4:45 pm Abstract Judges Meeting**
- 4:45 – 5:00 pm Awards Presentation and Concluding Remarks
- 5:00 pm **Afternoon Poster Take Down**

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Patrick M. Kochanek, MD is Professor and Vice Chair, Department of Critical Care Medicine and Director, Safar Center for Resuscitation Research. He has a longstanding track-record of investigation in the fields of traumatic brain injury and neurointensive care with a special emphasis on pediatric issues. He is funded by the National Institute of Neurological Disorders and Stroke/NIH, the National Institute of Child Health and Human Development/NIH, the United States Army, DARPA, and the Laerdal Foundation. He is the PI of a T-32 entitled “Pediatric

Neurointensive Care and Resuscitation Research” and has mentored trainees across multiple levels of experience and in many departments interested in the field of trauma and resuscitation medicine.

Dr. Kochanek is also Professor of Anesthesiology, Research & Clinical & Translational Science at the University of Pittsburgh School of Medicine, Editor-in-Chief of the journal *Pediatric Critical Care Medicine*, Associate Director of the PCTRC at Children’s Hospital of Pittsburgh of UPMC, and has served on the Advisory Council of the National Institute of Child Health and Human Development. In 2007 he received the Distinguished Investigator Award from the American College of Critical Care Medicine, in 2008 he received the Critical Care Distinguished Career Award from the Critical Care Section of the American Academy of Pediatrics, he gave the Baaken Lecture at the Cleveland Clinic in 2008, and also gave the 2010 Integra Foundation Lecture at the College of Neurological Surgeons.



Rona G. Giffard, PhD, MD is Professor of Anesthesia and Neurosurgery, Stanford University; Vice Chair for Research, Department of Anesthesia, Stanford University, Stanford Graduate and Fellowship Program affiliations: Neuroscience, Neonatology and Developmental Biology, Cell Biology, Molecular and Genetic Medicine, and Bio-X. Dr. Giffard’s lab studies cerebral ischemia, with the goal of developing new ways to reduce the long term neurological impairment caused by this dreaded condition. The lab focuses on the roles of astrocytes,

stress proteins, mitochondrial function and oxidative stress as targets for therapeutic strategies.

Dr. Giffard has developed unique methods to express protective genes in the brain and uses rodent stroke and forebrain ischemia models, as well as primary brain cell cultures to dissect mechanisms of injury. Ongoing work in the laboratory focuses on manipulation of astrocytes to improve outcome. Recent work has identified impairment of mitochondrial function in early neuronal cells as one of the blocks to robust recovery, despite increased neurogenesis. In addition, recent work on modulating the inflammatory response suggests that this is both a direct and indirect way to improve outcome.



Doris M. Rubio, PhD is Associate Professor of Medicine, Biostatistics, Nursing, and Clinical and Translational Science. She directs two cores in the Clinical and Translational Science Institute: Design, Biostatistics, and Clinical Research Ethics Core and Evaluation Core. Additionally, she is the Co-Director of the Institute for Clinical Research Education (ICRE), which provides training in clinical and translational research and offers multiple programs for career development. She is the Co-Director of the

KL2 program mentored career development program, which supports 27 KL2 scholars. She is the Co-Core Leader of the Data Management and Analysis Core of the Pepper Center. She is Director of the Center for Research on Health Care Data Center, which provides data management and analysis services across the University and Medical Center. Nationally, Dr. Rubio serves multiple roles for the national consortium for the CTSA's. Not only is she a member of 3 Key Function Committees (KFC) (Education, Biostatistics, and Evaluation) she also serves as the Chair of the Education/Evaluation Workgroup, a member of the Operations Committee for the Biostatistics Epidemiology, and Research Design (BERD) KFC, past Chair of the BERD Evaluation Workgroup. She is the President-elect for the Association for Clinical Research Training and past Chair of the Evaluation Committee for the ACRT as well as past Chair for the Evaluation of the Roadmap K12 program. Her research focuses on alcohol use co-occurring with depression in women and in particular how life events impact alcohol use and depression. She has published in such fields as psychometrics, structural equation modeling, quality of life indicators, aging and alcoholism.

8th Annual Safar Symposium

June 2, 2010

Morning Session

Location: Starzl Biomedical Science Tower
200 Lothrop St. – South-Room S100

- 7:45 am Continental Breakfast
- 8:15 – 12:00 ***Breakthroughs in Resuscitation – “Resuscitation in the 21st Century: from the Field to Rehabilitation”***
- 8:15 – 8:20 **Opening Comments – Morning Session**
Patrick M. Kochanek, MD
Professor & Vice Chair, Department of Critical Care Medicine and
Director, Safar Center for Resuscitation Research
- Moderators:** **Clifton Callaway, MD, PhD**
Associate Professor and Vice Chair of Emergency Medicine, University of
Pittsburgh
Anthony E. Kline, PhD
Associate Professor, Physical Medicine & Rehabilitation, Psychology, and
Center for Neuroscience, University of Pittsburgh
- 8:20 – 8:50 **Thomas D. Rea, MD, MPH**
Associate Professor of Medicine, Harborview Medical Center, University
of Washington, Seattle, Washington
Topic: “*The Resuscitation Grail: Innovation, Translation, or Tall Tales*”
- 8:50 – 9:00 Discussion
- 9:00 – 9:30 **Elizabeth R. Skidmore, PhD, OTR/L**
Assistant Professor of Occupational Therapy and Physical Medicine &
Rehabilitation, University of Pittsburgh
Topic: “*NeuroRehabilitation: Interventions Derived from Neuroscience*”
- 9:30 – 9:40 Discussion
- 9:40 – 9:55 Break
- 9:55 – 10:25 **Keith R. Walley, MD**
Professor of Medicine, Heart + Lung Institute, University of British
Columbia, Vancouver, Canada
Topic: “*Vasopressin in Septic Shock*”

10:25 – 10:35	Discussion
10:35 – 11:05	<p>Yan Xu, PhD Professor of Anesthesiology, Pharmacology & Chemical Biology, and Structural Biology, Vice Chair for Basic Sciences, Department of Anesthesiology, University of Pittsburgh School of Medicine Topic: <i>“Umbilical Cord Matrix Stem Cell Treatment of Global Cerebral Ischemia after Circulatory Arrest in Rats”</i></p>
11:05 – 11:15	Discussion
11:15 – 11:35	<p>Andreas Janata, MD Fellow, Safar Center for Resuscitation Research, University of Pittsburgh School of Medicine Topic: <i>“Novel Studies Using a Rat Model of Ventricular Fibrillation Cardiac Arrest”</i></p>
11:35 – 11:40	Discussion
11:40 – 11:45	<p>Presentation of the 8th Nancy Caroline Fellowship Award Presented by Patrick M. Kochanek, MD</p>
11:45 – 12:00	Break
12:00 – 12:05	Introduction of the <i>Safar Lecture</i> –John P. Williams, MD
12:05 – 12:10	Introduction of <i>Safar Lecturer</i> –Patrick M. Kochanek, MD
12:10 – 12:50	30th Annual Safar Lecture – Frank Shann, MB, BS, MD
12:50 – 1:00	Questions and Discussion
1:00 – 1:45	Reception – Foyer

The 30th Peter and Eva Safar Annual Lectureship in Medical Sciences and Humanities

Guest Speaker: FRANK SHANN, MB, BS, MD
Professor, Critical Care Medicine
University of Melbourne
Staff Specialist, Intensive Care
Royal Children’s Hospital
Melbourne, Australia

Topic: Critically Ill Children in Developing Countries

8th Annual Safar Symposium

June 2, 2010

Afternoon Session

Location: WISER, 230 McKee Place, Suite 300

- 2:00 – 5:25 *“Simulation in Healthcare”*
- 2:00 – 2:05 **Opening Comments – Afternoon Session**
Paul E. Phrampus, MD
Director, Winter Institute for Simulation, Education and Research (WISER),
University of Pittsburgh, Associate Professor of Emergency Medicine and
Anesthesiology, University of Pittsburgh School of Medicine
- Moderators:** **William McIvor, MD**
Associate Director, Medical Student Programs
Peter M. Winter Institute for Simulation, Education and Research,
University of Pittsburgh
Amy Seybert, PharmD
Associate Director, Pharmacy Programs
Peter M. Winter Institute for Simulation, Education and Research,
University of Pittsburgh
- 2:05 – 2:30 **Paul E. Phrampus, MD**
Director, WISER, University of Pittsburgh, Associate Professor of
Emergency Medicine and Anesthesiology
University of Pittsburgh School of Medicine
Topic: *“The History of Simulation in CPR Training”*
- 2:30 – 2:35 Discussion
- 2:35 – 3:00 **Michael A. Seropian, MD, FRCPC**
Medical Director of Simulation for OHSU, Associate Professor of
Anesthesiology and Pediatrics, Oregon Health and Science University
President-Elect, Society for Simulation in Healthcare
Topic: *“The Simulation Super Highway – Where is it Going?”*
- 3:00 – 3:05 Discussion
- 3:05 – 3:25 Coffee Break

3:25 – 3:50

John Vozenilek, MD, FACEP

Director, Simulation Technology and Immersive Learning, Assistant Professor of Emergency Medicine, Medical Education, and Healthcare Studies, Feinberg School of Medicine, Northwestern University

Topic: *“An In Situ Simulation Program to Improve Neonatal Resuscitation and CPR”*

3:50 – 3:55

Discussion

3:55– 4:20

James B. McGee, MD

Associate Professor of Medicine, Assistant Dean for Medical Education Technology, Director, Laboratory for Educational Technology, University of Pittsburgh School of Medicine

Topic: *“Virtual Patients – Are They a Reality Yet”*

4:20 – 4:25

Discussion

4:25 – 4:50

John M. O’Donnell, DrPH, MSN, CRNA

Director, University of Pittsburgh Nurse Anesthesia Program, Associate Director, WISER, Nursing, University of Pittsburgh

Topic: *“Taking the Ball into the Endzone with a Simulation Project: From Conception to Clinical Surveillance”*

4:50 – 4:55

Discussion

4:55 – 5:20

Connie M. Lopez, RNC, MSN, CNS

National Leader, Patient Safety and Risk Management, Kaiser Permanente Program Offices, Oakland, California

Topic: *“Shoulder Dystocia – An Evidence Based Deployment of Simulation for Patient Safety”*

5:20 – 5:25

Discussion

5:25 pm

Concluding Comments –

Paul E. Phrampus, MD

Patrick M. Kochanek, MD

8th Annual Safar Symposium

June 2, 2010

Morning Session Speakers

Breakthroughs in Resuscitation:

“Resuscitation in the 21st Century: from the Field to Rehabilitation”

Location: Starzl Biomedical Science Tower,
200 Lothrop St. – South-Room S100



Thomas D. Rea, MD, MPH is a physician with training in internal medicine and epidemiology. He has had the good fortune to work clinically in the outpatient clinic, the emergency department, and the inpatient hospital settings. He is the program medical director for King County Medic One, which provides paramedic services for King County, WA.

Dr. Rea has a career interest in the evaluation of prehospital emergency care and specifically cardiac arrest resuscitation.

He participates in a variety of research initiatives including the NIH-supported Trial of Prehospital Hypothermia for Resuscitated Cardiac Arrest, the Resuscitation Outcomes Consortium, and the Cardiac Arrest Blood Study. He works with the American Heart Association Basic Life Support Committee.



Elizabeth R. Skidmore, PhD, OTR/L is an occupational therapist and Assistant Professor of Occupational Therapy and Physical Medicine & Rehabilitation at the University of Pittsburgh. In addition, Dr. Skidmore is a research scientist and clinical consultant to the University of Pittsburgh Medical Center's Institute for Rehabilitation and Research. Dr. Skidmore's NIH-funded research examines predictors of activities of daily living disability among individuals with acquired brain injury and interventions to address neurological impairments and disability in these individuals.

Specifically, she has focused on the influences of cognitive and affective impairments on neurorehabilitation outcomes. Presently, Dr. Skidmore is conducting investigations examining interventions to address impairments in executive cognitive functions, a common and persistent problem after acquired brain injury. Dr. Skidmore has over 14 years clinical expertise in stroke and traumatic brain injury rehabilitation, and has been invited to present to regional, national and international audiences on this topic.



Keith R. Walley, MD received his MD from the University of Manitoba in 1981, undertook Internal Medicine training at McGill University in 1984, and completed a Pulmonary and Critical Care Fellowship at the University of Chicago in 1988. Since 1988, he has been an intensive care physician at St. Paul's Hospital in Vancouver, Canada, and has been on faculty at the University of British Columbia where he is currently a Professor of Medicine. His research foci are 1) pathophysiology of cardiovascular and other organ dysfunction in critical illness and 2) genetic

determinants of patient outcome in sepsis. To investigate the mechanism of decreased left ventricular contractility during sepsis, left ventricular contractility has been measured using sophisticated left ventricular pressure volume relationships in acute animal model experiments. Isolated cardiac myocytes are studied in tissue culture. For his genetic research, Dr. Walley maintains a strong collaboration with Dr. James A. Russell who is active in many of the recent clinical trials in ARDS and sepsis. Drs. Walley and Russell founded Sirius Genomics Inc. in 2001 as a pathway to develop genetic clinical diagnostic tests for use in the Critical Care setting. With Dr. Russell, Dr. Walley has led the multicentre VASST trial of vasopressin used in patients who have septic shock. Dr. Walley leads the multicentre CIHR IMPACT Postdoctoral Fellowship training program at the iCAPTURE Centre at UBC and at the University of Manitoba.



Yan Xu, PhD is Professor of Anesthesiology, Pharmacology & Chemical Biology, and Structural Biology at the University of Pittsburgh School of Medicine and Vice Chair for Basic Sciences, Department of Anesthesiology. Dr. Xu's research focuses on rational design of new therapeutic strategies for treatment of brain injury during and after cardiac arrest, the molecular mechanisms underlying the actions of low-affinity drugs on ligand-gated neuronal receptors in their membrane environment, and functional mapping of neural activities in the

drug-induced unconscious state.

New therapeutic strategies are being developed to target non-neuronal pathways of brain tissue damage after cardiac arrest and resuscitation. Recently, Dr. Xu's group used umbilical cord matrix stem cells to demonstrate extracellular signaling as a novel mechanism of tissue protection and repair by stem cells in the central nervous system.



Andreas Janata, MD received his Doctor of Medicine degree from the Medical University of Vienna. He began as a research fellow in 2002, when Fritz Sterz, a former fellow of Peter Safar and Wilhelm Behringer, who had just returned to Vienna from three years working in the Safar Center, started studying hypothermia and the use of emergency cardiopulmonary bypass in a pig cardiac arrest model. The main focus of his research was on EPR, Emergency Preservation and Resuscitation, a concept that uses hypothermia for preserving the organism during

cardiac arrest. He has been working as an emergency physician at the Department of Emergency Medicine, General Hospital of Vienna, since 2004.

Dr. Janata is a fellow in the Safar Center under the mentorship of Dr. Kochanek since Feb. 2009, funded by the Laerdal Foundation. His research in the Safar Center has focused on establishing a rat model for ventricular fibrillation cardiac arrest and resuscitation with cardiopulmonary bypass. In this rat model, he studies regional differences in neuroinflammation after cardiac arrest, and the use of polynitroxylated pegylated hemoglobin for resuscitation from cardiac arrest.

The 30th Peter and Eva Safar Annual Lectureship in Medical Sciences and Humanities

Guest Speaker:

FRANK SHANN, MB, BS, MD
Professor, Critical Care Medicine
University of Melbourne
Staff Specialist, Intensive Care
Royal Children's Hospital
Melbourne, Australia

Topic:

Critically Ill Children in Developing Countries



Frank Shann, MB, BS, MD is a Staff Specialist in Intensive Care at the Royal Children's Hospital in Melbourne, Australia, and Professor of Critical Care Medicine at the University of Melbourne. He is a member of the International Advisory Board of *The Lancet*. Dr. Shann did his medical training at the University of Melbourne, trained as an adult physician at the Royal Melbourne Hospital, and trained in paediatrics at the Royal Children's Hospital. He worked for seven years in Papua New Guinea, in Kenya, and with the International Red Cross in

East Timor. He helped develop a vaccine composed of *Clostridium welchii* type C beta toxoid, which eradicated pigbel from Papua New Guinea. His research into the aetiology, management and prevention of pneumonia in children in Papua New Guinea formed the basis of the WHO Acute Respiratory Infections programme, now part of the Integrated Management of Childhood Illness initiative. Dr. Shann was Director of Intensive Care at the Royal Children's Hospital in Melbourne for 20 years, and developed the Paediatric Index of Mortality prediction model that is used to monitor all paediatric critical care admissions in the UK, Australia and New Zealand. He has published over 200 articles, six books and 17 book chapters.

Afternoon Session Speakers

Simulation in Healthcare

Location: WISER, 230 McKee Place, Suite 300



Paul E. Phrampus, MD is the Director of the Peter M. Winter Institute for Simulation, Education and Research (WISER) and Associate Professor in the Departments of Emergency Medicine and Anesthesiology of the University of Pittsburgh School of Medicine.

Dr. Phrampus has been active in patient safety efforts throughout UPMC. He is a member of the Quality Patient Care Committee of the UPMC Board of Directors. He has overseen the expansion of WISER capabilities in developing a distributive model of management for the main campus of WISER and the satellite centers that have been deployed throughout the UPMC Health System.

He led a team to create a simulation based difficult airway management program for emergency medicine that has now been completed by over 200 physicians. He has an extensive background in Emergency Medical Services and has deployed simulation technology for testing as well as competency assessment measures in ground EMS and helicopter services in Southwestern Pennsylvania.

Dr. Phrampus serves in a leadership role in national simulation efforts through program committee leadership for the Society for Simulation in Healthcare and serves on the editorial board of the journal *Simulation in Healthcare*.

Dr. Phrampus recently was appointed to the University of Pittsburgh Academy of Master Educators. He has years of experience with computer system and electronics gained from his years of service in the United States Navy.

Dr. Phrampus has traveled extensively lecturing and conducting simulation workshops, demonstrations and assisting in proliferation of successful simulation start-up programs. In addition to the United States, his education efforts have included Australia, China, Tibet, India, South Korea, Thailand, The Philippines, Singapore and Germany.



Michael A. Seropian, MD, FRCPC, Associate Professor, is a practicing pediatric anesthesiologist and faculty member for the OHSU Schools of Medicine and Nursing. He has more than 16 years of experience in simulation education development and training. His initial contact with simulation was during his years at Harvard University. He has since developed and designed multiple simulation facilities and has been instrumental in developing multiple simulation collaboratives and ventures. As founder and the past Co-Director of the OHSU Simulation and

Clinical Learning Center, he had oversight over the implementation and delivery of simulation education to both nursing and medical specialties. He is currently the Medical Director of Simulation for OHSU and the Department of Anesthesiology. Dr. Seropian is a founding member and a past Chair of the Oregon Simulation Alliance. The Oregon Simulation Alliance was responsible for facilitating the development of over 25 simulation education programs. Along with Bonnie Driggers, RN, MS, MPA, he co-authored “The Oregon Simulation Readiness Report,” which presented a comprehensive look at the needs and readiness of sites in Oregon for simulation education. They have also authored a comprehensive simulation readiness assessment for the San Francisco Bay Area, Rhode Island, and Mississippi. These reports represent the only statewide and urban assessments in print, and represent a process and approach for the implementation of simulation that looks to be forward-thinking and progressive. Dr. Seropian has received national and international training and consultation requests in the area of simulation education, facility design, program development, assessment and implementation. He is the President-Elect of the Society for Simulation in Healthcare. He also sits on the American Society of Anesthesiology committee on simulation education. He is eager to see simulation education programs develop successfully, irrespective of discipline or specialty.



John Vozenilek, MD, FACEP is the Director of Simulation Technology and Immersive Learning for the Feinberg School of Medicine. In this role, Dr. Vozenilek works to provide central coordination and oversight to help Northwestern's graduate medical education programs achieve the goals of the Accreditation Council for Graduate Medical Education Outcomes Project, and create additional organizational capabilities within the Feinberg School, building resources for educators who wish to use additional innovative learning technologies for teaching

and assessment. The scope of this collaborative work will include undergraduate, graduate, and continuing medical education.

He is faculty with the Institute for Healthcare Research and its Center for Patient Safety, and teaches within its master's degree program in healthcare quality and safety. Dr. Vozenilek is a graduate of the University of Miami School of Medicine and trained in emergency medicine at Northwestern McGaw. He serves as medical advisor to the Chicago Clinical Skills Evaluation Center of the National Board of Medical Examiners, and has led the interest group on simulation within the Society for Academic Emergency Medicine. He recently Co-Chaired the first Agency for Healthcare Research and Quality (AHRQ) -sponsored national consensus conference on using simulation research to define and develop clinical expertise. His research has been funded by the Department of Health and Human Services, private foundations, and the AHRQ. In his prior role at Evanston Northwestern Healthcare, he created the Center for Simulation Technology and Academic Research in 2003, composed of two state-of-the-art simulation facilities, one at Evanston Hospital and the other at Highland Park Hospital.

A number of our faculty are nationally recognized for their expertise in various aspects of simulation technology and assessment, and several facilities for clinical simulation already provide essential experiences for our students and residents. These include the Feinberg School's Clinical Education Center and Weinberg Medical Informatics Training Center, the Northwestern Center for Advanced Surgical Education managed by the Department of Surgery, the Department of Anesthesia's Clinical Simulation Center, and Children's Memorial Medical Center's KidSTAR program. An additional high fidelity simulation facility in the McGaw Pavilion will be opening in February.



James B. McGee, MD is currently an Associate Professor of Medicine and Assistant Dean for Medical Education Technology at the University of Pittsburgh School of Medicine. He received his medical degree from Louisiana State University and did his postgraduate training in medicine and gastroenterology at the University of Florida. He received advanced endoscopy training at Boston's Beth Israel Deaconess Medical Center and then joined the Harvard Medical School faculty and the Institute for Education and Research there. Five years later, he

joined the faculty at the University of Pittsburgh where he founded the Laboratory for Educational Technology. This lab focuses on the discovery, development and validation of technology in support of medical education through grants from the NIH, foundations and industry. The lab's work recently has been in the area of online collaborative learning, just-in-time learning and virtual patient simulation.



John M. O'Donnell DrPH, MSN, CRNA is currently Director of the University of Pittsburgh School of Nursing Nurse Anesthesia Program. He has been working in this role since 1994 and has been active in the human simulation and patient safety movements since that time. Dr. O'Donnell has earned graduate degrees in Nurse Anesthesia (MSN) and Epidemiology (DrPH). Currently, Dr. O'Donnell is the Associate Director for Nursing Simulation at the Winter Institute for Simulation, Education and Research or WISER. In this role he works with system subject

matter experts to develop simulation programs for nurses and other healthcare providers in the 19 hospitals of the UPMC health system.

In recognition of his WISER contributions, Dr. O'Donnell was awarded the Ake Grenvik Award for Excellence in Simulation Education and Assessment in 2008. Dr. O'Donnell is one of two CRNA members on the Board of Directors of the national Anesthesia Patient Safety Foundation (APSF). Areas of scholarly and research interest include use of structured and supported debriefing methods in simulation, hierarchical task analysis methods in simulation, multidisciplinary simulation interventions supported by web based curriculum, case-based educational programs for anesthesia providers and nurses, and epidemiology related to patient and provider safety.



Connie M. Lopez, RNC, MSN, CNS has 28 years experience as a registered nurse in the perinatal setting. She has worked in various perinatal roles including childbirth educator, nurse educator and manager, and clinical nurse specialist. Ms. Lopez is currently working with the National Risk Management Team at Kaiser Permanente's Program Offices in Oakland, California. She has been one of the National Leaders for Patient Safety and Risk Management since 2008 and leads the National Kaiser Permanente Simulation Collaborative. Ms. Lopez earned her

Master's Degree in Nursing and received a certificate as a Perinatal Clinical Nurse Specialist from the California State University in Sacramento.

Ms. Lopez has seven years experience researching and implementing simulation in the clinical setting. Currently, Ms. Lopez is implementing a national standardized simulation-based curriculum for shoulder dystocia/vacuum assisted delivery and post partum hemorrhage, as well as developing national standardized scenarios and a national on-line system to track simulation training and data within Kaiser Permanente. Ms. Lopez was recently appointed the Vice-Chair of the Educational Workshops and Co-Chair of the "Hospital-Based Simulation" Special Interest Group for the Society for Simulation in Healthcare.

Notes

Acknowledgements

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Department of Anesthesiology
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University of Pittsburgh School of Medicine / UPMC

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"...brains and hearts too good to die."



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