4TH ANNUAL MITCHELL P. FINK SCHOLAR DAY

March 3rd, 2015
University Club, Ballroom B
University of Pittsburgh

Plenary Speaker:
Christopher Farmer, MD
CRITICAL CARE MEDICINE

PROGRAM

8:00am-8:30am.................................................................Continental Breakfast
8:30am-8:35am.................................................................Introduction
   Moderator: Michael Pinsky, MD, Vice Chair for Academic Affairs
   Lori Shutter, MD, Vice Chair of Education

8:35am-9:00am..............................................................State of the Department Address
   Derek Angus, MD, Mitchell P. Fink Endowed Chair, Critical Care Medicine

9:00am – 10:15am........Critical Care and Collaborative Education
   Lori Shutter, MD ........ Neurocritical Care
   Jason Moore, MD ......... Internal Medicine
   Lil Emlet, MD .............. Emergency Medicine
   Murat Kaynar, MD ......... Anesthesia
   Matt Rosengart, MD ...... Surgery
   Mindy Hamilton, MD ...... Pediatrics
   Jeremy Kahn, MD .......... Research

10:15am-10:30am.............................................................Coffee Break

10:30am-11:30am.........................................................Critical Care and Technology
   David Wallace, MD ........ Critical Care Access Mapping
   Jared Chiarchiaro, MD, T32 Scholar .... App for End of Life Care Discussions
   Hernando Gomez, MD .... Assessing Microcirculation
   Deepika Mohan, MD ...... High Fidelity Simulation (VR)

11:30am-1:00pm..............................................................Lunch & Plenary Lecture
   Plenary Speaker: J. Christopher Farmer, MD, FCCM
   Chair, Department of Critical Care Medicine, Mayo Clinic
   "How much of our Critical Care Medicine future is in the ICU?"

1:00pm-2:30pm...............................................................Poster Walk Rounds
2:30pm-3:45pm.............................................................Awards & Oral Presentations
3:45pm-4:00pm............................................................Closing Remarks
4:00pm-6:00pm.............................................................Hors d’oeuvres and Happy Hour

Located in College Room, First Floor
ORAL PRESENTATIONS

Hravnak M, Chen L, Dubrawski A, Wang D, Bose E, Clermont G, Pinsky MR
Random Forest machine learning models separate vital sign events as real or artifact in continuous monitoring data

Browning M, Yan HQ, Ployac S, Dixon CE, Empey P, Jackson TC, Brockman E, Ma M, Janesko-Feldman K, Henchir J, Vagni V, Kochanek PM
Benefits of Levetiracetam After Controlled Cortical Impact in Rats: Studies from the OBTT Consortium

Barbash IJ, Q Le T, Pike F, Barnato AE, Angus DC, Kahn JM
The effect of ICU admission patterns on critical care performance measures

Scheunemann LP, Ernceoff NC, Baddadhumaruk P, Arnold RM, White DB
Values Talk in ICUs: A Quantitative Analysis of Clinician-Family Communication about Patients’ Values and Preferences

FINK SCHOLAR DAY COMMITTEE

Hülya Bayır, MD
Jeremy Kahn, MD
Ericka Fink, MD
Michael Pinsky, MD
Melinda Hamilton, MD
Lori Shutter, MD
Matthew Siedsma, MD
Joseph Carcillo, MD
Meghan Browning, MD
Jason Moore, MD
J. CHRISTOPHER FARMER, MD

Dr. Farmer is Professor and Chair, Department of Critical Care Medicine at the Mayo Clinic, Phoenix, Arizona. He previously served at the Mayo Clinic in Rochester, Minnesota as Critical Care Medicine Fellowship Program Director; Associate Dean, Mayo School of Graduate Medical Education; and, Associate Chair for Education, Department of Medicine.

Dr. Farmer is past President of the Society of Critical Care Medicine (SCCM) and has served as SCCM Council Member and Treasurer; Program Chair, SCCM Congress; Founding Editor-in-Chief, Multidisciplinary Critical Care Knowledge Assessment Program (MCCKAP); Supplements Editor, Critical Care Medicine; and, textbook editor, Fundamental Critical Care Support (FCCS) and Fundamental Disaster Management (FDM) programs. He is the editor and author of numerous books related to critical care, education, and disaster medical response. He serves on the American Board of Internal Medicine (ABIM), Critical Care Medicine Board.

Dr. Farmer is a retired Air Force Colonel and Professor of Medicine and Surgery, Uniformed Services University of the Health Sciences, F. Edward Hébert School of Medicine. He also served as a senior physician executive in the hospital, health plans-insurance, supply chain management, and homeland security sectors. He is one of the founders of the Department of Defense Critical Care Aeromedical Transport Team (CCATT) program, the largest critical care transport system in the world. While in the Air Force, Doctor Farmer served as Chief of Inpatient Services at Wilford Hall Medical Center, and as Chief Medical Officer for TRICARE Southwest, a multi-state Federal HMO. Doctor Farmer also served as the Special Assistant to the Air Force Surgeon General for Homeland Defense and Medical Preparedness.

HISTORY OF FINK SCHOLAR DAY

The Mitchell P. Fink Scholar Day was inaugurated in 2012 to celebrate the 10th anniversary of the founding of the Department of Critical Care Medicine, and to recognize the scholarly accomplishments of the trainees in our Department. This annual conference was named after Dr. Fink, the founding chair of the Department and a national leader in critical care. The goal of Fink Scholar Day is to showcase scholarly work being done by our residents, fellows, visiting scholars, and staff researchers, which includes research, educational development, and quality improvement projects.
Clinical Science
Moderators: Ericka Fink and Jeremy Kahn

Padmanabhan R—
Prehospital factors associated with early antibiotics in shock

Hackett P—
Practice Patterns and Impact of Tidal Volume During One-Lung Ventilation on Outcome in Patients Undergoing Esophagectomy

Balakumar V—
Even Modest Fluid Overload is Associated with Mortality in Critically Ill Patients

Chen L—
Forecasting cardiorespiratory instability in monitored patients: A machine learning approach

Adams PW—
The MACRO Research Assistant Program: A Winning Solution for Acute Care Research and Undergraduate Students

Nattanmai P—
Acute reversible toxic leukoencephalopathy due to FOLFOX chemotherapy in a patient without the IVS14+1G> A mutation in the dihydropyrimidine dehydrogenase (DPD) gene

Nattanmai P—
Recurrent right middle cerebral artery territory infarctions in a patient with JAK2 (V617F) point mutation positive polycythemia rubra vera

Newmyer R—
Outcome is associated with type of neurologic disease during specialized transport of children

Translational Science
Moderators: Joe Carcillo and Michael Pinsky

Jin K—
Role of AMPK activation in the renal response to sepsis

Emlet D—
An In Vitro System for Investigation of AKI: Identification of IGFBP7 Expression in Isolated Human Proximal Tubule Epithelial Cells

Jha R—
Human cerebrospinal fluid SUR1 levels are a novel biomarker in traumatic brain injury

Mendelson J—
Increased Serum Cytochrome c Is Associated with Outcome and Cardiac Dysfunction After Pediatric Cardiac Arrest

Neal MD—
HMGB1 Released by Platelets Leads to Microvascular Thrombosis Following Trauma and Hemorrhage

Bakalov V—
A Model of Recovery from Sepsis in Drosophila Melanogaster

Chen X—
Original Research: A unique model of renal non-recovery in a mouse model of sepsis associated acute kidney injury

Pang, D—
Using Plasma Neuron Specific Enolase Levels to Diagnose Brain Injury in Pediatric Sepsis: A Pilot Study
Quality and Safety
Moderators: Jason Moore and J. Christopher Farmer
Horvat C—
Early Experience Developing and Implementing a Pediatric Critical Care Ultrasound Curriculum

Horvat C—
A survey assessing PICU clinicians’ knowledge of the cost of care

DellaVolpe J—
The Role of Vital Signs in the Development of Critical Care Capabilities of a Rural Hospital in the Developing World

Horvat C—
Using EMR data to Detect Emergent Conditions at a Pediatric Hospital

Kutcher M—
Construction of an electronic medical record-based acute care surgery registry

Lodeserto F—
Making Pediatric Intensive Care Education Stick

Mayr F—
Quality of post arrest care does not differ by time of day at a specialized resuscitation center

Reznik M—
Severe Vasospasm in Traumatic Subarachnoid Hemorrhage

Ethics and Communication
Moderators: Lori Shutter and Melinda Hamilton
Kuza C—
Clinician Attitudes Toward Adoption of Pediatric Emergency Telemedicine in Rural Settings

Nattanmai P—
A survey and intervention to improve effective communication between Critical care team and Neurology team in a busy Neurointensive care unit - A portal to improve patient care

Erncoff N—
Stakeholders’ perspectives: acceptability and design of a tablet-based tool to improve surrogate decision making in ICUs

Scheunemann L—
Developing and Pilot Testing a Simulation to Study How Physicians Elicit and Integrate Patients’ Values During Surrogate Decision-Making About Life Support

Rak K—
“I’m gonna go with you as you take care of me”: The role of trust in provider/patient/family interactions in the ICU

Chiarchiaro J—
Prior Advance Care Planning is Associated with Less Decisional Conflict in Surrogate Decision Makers for the Critically Ill

Seaman J—
Patterns of Palliative Care Service Consultation in a Sample of Critically-Ill and Non-Surviving ICU Patient