Challenges in Critical Care
A Multidisciplinary Approach

Friday, August 21, 2015

20th Annual

A continuing education service of Penn State College of Medicine and Penn State Milton S. Hershey Medical Center in cooperation with:

The Hotel Hershey
100 Hotel Road
Hershey, PA

Susquehanna Valley Chapter of the American Association of Critical Care Nurses (SVAACN)
Call for Poster Abstracts and Case Studies

Deadline: July 31, 2015
Posters will be viewed throughout the conference. Chosen case studies will be presented in a conference session. Winners in each category will receive a $500 cash award sponsored by PASCCM. Guidelines and online submission information are available on our website at: pennstatehershey.org/web/ccc

Planning Committee

Barbara Birriel, MSN, ACNP-BC, FCCM*
PASCCM – Penn State College of Nursing

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PASCCM – Critical Care Medicine

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PASCCM – Pulmonary and Critical Care Medicine

Dan Wu, DO, FACOS, FACS
Chair, Education Committee – PASCCM
FCCS Course Director
Lancaster General Health

*Penn State Milton S. Hershey Medical Center; Penn State College of Medicine
Purpose
This annual conference is designed to promote the scientific evaluation of methods of care and to translate current literature into strategies to optimize the care of the critically ill patient.

Audience
This conference is designed for health-care professionals involved in critical care.

- Physicians
- Advanced Practice Clinicians
- Nurses
- Respiratory Therapists
- Pharmacists
- Dietitians
Credit

6.0 AMA PRA Category 1 Credit(s)™

6.0 hours of patient safety/risk management education (†)

6.0 Contact Hours Continuing Respiratory Care Education (AARC CRCE®)

Critical Care Nursing Credit

6.00 Contact Hours Synergy CERP Category A and 1.20 Contact Hours Synergy CERP Category B, File Number 00019335

6.0 ACPE contact hours (0.6 CEUs)

Penn State College of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Penn State College of Medicine designates this live activity for a maximum of 6.0 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

This program includes 6.0 hours of patient safety/risk management education as required by the Pennsylvania State Board of Medicine. Please see the program schedule for the topic marked with a †.

This program has been approved for a maximum of 6.00 contact hours Continuing Respiratory Care Education (CRCE) credit by the American Association for Respiratory Care.

The American Association of Critical-Care Nurses is approved by the California Board of Registered Nursing, Provider Number 01036. This program has been approved for 6.00 Contact Hours Synergy CERP Category A and 1.20 Contact Hours Synergy CERP Category B, File Number 00019335.

It is our policy to ensure balance, independence, objectivity, and scientific rigor in all of our sponsored educational programs. Faculty and course directors have disclosed relevant financial relationships with commercial companies, and Penn State has a process in place to resolve any conflict of interest. Complete faculty disclosure will be provided to program participants at the beginning of the activity.
Penn State Milton S. Hershey Medical Center is accredited by the Accreditation Council for Pharmacy Education as a provider of continuing pharmacy education.

This knowledge-based activity has been assigned the Universal Activity Number of 0322-0000-15-016-L04-P. It has been approved for 6.0 contact hours (0.6 CEU) of continuing pharmacy education credit in states that recognize ACPE providers. The attendee list will be uploaded into CPE Monitor approximately one week after completion of the program. Statements of credit indicated in contact hours and CEUs will be available through CPE Monitor.

Successful completion includes signing in at registration with personal NABP number and date of birth, attending the entire session for which credit is claimed, and completing the activity evaluation. Penn State Milton S. Hershey Medical Center complies with the Accreditation Standards for Continuing Education.

It is our policy to ensure balance, independence, objectivity, and scientific rigor in all our sponsored educational programs. Faculty members are expected to disclose to the program audience any real or apparent conflict of interest related to the content of their presentation.
Faculty

Heidi Dalton, MD, MCCM
Professor of Child Health, University of Arizona College of Medicine at Phoenix

Clifford Deutschman, MS, MD, FCCM
Vice-Chair, Research, Pediatrics
Professor of Pediatrics and Molecular Medicine
Hofstra-North Shore – LIJ School of Medicine
Steven and Alexandra Cohen Children’s Medical Center

Sprague W. Hazard III, MD*
Assistant Professor of Anesthesiology and Neurosurgery
Penn State Milton S. Hershey Medical Center
Penn State College of Medicine

Jerry Mitchell
Education and Outreach Specialist
Pennsylvania Office of Attorney General

Lyle Moldawer, PhD
Robert H. and Kathleen M. Axline Basic Science Professor of Surgery
University of Florida College of Medicine

J.R. Nida, BBA, RRT
Respiratory Care Clinical Educator
Cabell Huntington Hospital

Jan Powers, PhD, RN, CCRN, CCNS, CNRN, FCCM
Professional Nurse Researcher
Parkview Health System

Stephanie Thomas, PharmD, BCPS, CDE
Clinical Pharmacist
Associate Director
PGY1 Residency Program Faculty
Family Medicine Residency Program
Memorial Medical Center

Janine Then, PharmD, BCPS
Clinical Pharmacist
UPMC Presbyterian Hospital

Cynthia Whitener, MD*
Hospital Epidemiologist
Interim Chief
Division of Infectious Disease
Department of Medicine

Brooke Worster, MD
Assistant Professor of Medicine
Medical Director, Palliative Care Service
Department of Family and Community Medicine
Jefferson University Hospital
Educational Goals

- Explore new diagnostics and therapeutic approaches for treating sepsis as well as long-term consequences and rehabilitation
- Examine the pitfalls of the “fluid challenge” in hemodynamically compromised patients
- Differentiate physiologic effects of venovenous and venoarterial ECMO
- Discuss an alternative view of sepsis based upon the current understanding of its pathophysiology
- Identify symptoms of propofol infusion syndrome
- Review current definitions of sepsis and septic shock
- Identify new populations of ECMO and associated outcomes
- Review mechanisms of antimicrobial resistance and the newer agents used to overcome resistance
- Discuss how decision-making theory can apply to difficult conversations and end-of-life choices
- Examine the hazards associated with positive pressure ventilation and the sequelae of ventilator-induced lung injury
- Discuss prescription drug diversion and abuse as well as the increasing dangers of synthetic marijuana
- Identify the primary strategies that contribute to successful designation as an Ebola Treatment Center
Agenda / 7:00 a.m.– 4:30 p.m.

7:00  Check In/Posters/Exhibits  7:45  Welcome – PASCCM President

8:00  KEYNOTE  
Evolving Concepts in the Natural History of Sepsis †
Lyle Moldawer, PhD  
- Describe how sepsis is becoming a more chronic, critical illness
- Discuss the long-term consequences of sepsis and its rehabilitation
- Explore new diagnostics and therapeutic approaches for treating sepsis

9:00  Break/Exhibits/Posters

9:30  Breakout Session 1— choose to attend one topic

1A  Bedside Evaluation of Volume Responsiveness: Moving Beyond the Toss of a Coin †
Sprague W. Hazard, III, MD  
- Examine the pitfalls of the “fluid challenge,” an all too common diagnostic modality utilized in the treatment of hemodynamically compromised patients
- Provide an historical overview of static methods used to determine volume responsiveness and their limitations
- Discuss an overview of dynamic methods including bedside imaging to determine volume responsiveness

1B  Venovenous (VV) and Venoarterial (VA) ECMO:  
What’s the difference and why does it matter? †
Heidi Dalton, MD, MCCM  
- Differentiate physiologic effects of VV and VA ECMO
- Determine which patients are most appropriate
- Recognize cannulation differences

1C  The Pathobiology of Sepsis: You Don’t Know What You Think You Know †
Clifford Deutschman, MS, MD, FCCM  
- Review the “current” understanding of sepsis pathophysiology
- Discuss why these conceptualizations may be incorrect
- Describe an alternative view of sepsis that is more in line with the current understanding of sepsis pathophysiology

10:30  Break/Exhibits/Posters

10:45  Breakout Sessions 2— choose to attend one topic

2A  Propofol Infusion Syndrome †
Stephanie Thomas, PharmD, BCPS, CDE  
- Identify symptoms of propofol infusion syndrome
- Review critical care bundles related to sedation
- Discuss the use of medications for sedation

2B  Case Presentations

2C  Sepsis Re-Defined †
Clifford Deutschman, MS, MD, FCCM  
- Review current definitions of sepsis and septic shock
- Discuss why a revision of these definitions is urgently needed
- Describe newly derived definitions and clinical constructs

11:45  Lunch/Exhibits/Posters
12:45 RESEARCH AWARD PRESENTATION
Outcomes in Decompressive Hemicraniectomy for Spontaneous Intracerebral Hemorrhage
Syed Omar Shah, MD

1:15 Breakout Session 3—choose to attend one topic

3A Becoming an Ebola Treatment Center: Trials, Tribulations and Rewards †
Cynthia Whitener, MD
- Explain the challenges of establishing an Ebola treatment center
- Discuss the principles behind protocol

3B ECMO in Evolution †
Heidi Dalton, MD, MCCM
- Discuss the history of ECMO over the last 20 years
- Identify factors associated with the growth of ECMO

3C When R’s Are All You See: Dealing with Multi-Drug Resistant Organisms in the ICU †
Janine Then, PharmD, BCPS
- Review mechanisms of antimicrobial resistance and how newer agents are overcoming resistance
- Explore new agents to treat resistant gram-positive and gram-negative infections

2:15 Break/Exhibits/Posters

2:30 Breakout Session 4—choose to attend one topic

4A Difficult Conversations with Seriously Ill Patients: Interpreting Risk †
Brooke Worster, MD
- Examine cognitive frameworks that impact how patients and providers interpret risk
- Explore ways to decrease patient-provider decisional conflict by identification of the cognitive lenses

4B Clinical Application of Prone Positioning †
Jan Powers, PhD, RN, CCRN, CCNS, CNRN, FCCM
- Discuss pathophysiology of acute respiratory distress syndrome and identify treatment options for patients
- Understand therapeutic positioning and rationale for use of these techniques

4C Advanced Ventilator Measurement: Transpulmonary-Guided Ventilation †
J.R. Nida, BBA, RRT
- Identify the limitations of current respiratory mechanics
- Describe the measurement of transpulmonary pressure as a valuable ventilation management tool

3:30 Consequences: Current Trends in Illicit and Rx Drug Abuse †
Jerry Mitchell
- Describe dangers of synthetic marijuana
- Explain new ways in which users and dealers communicate using electronic codes

4:30 Evaluation and Adjournment

4:35 PASCCM Annual Business Meeting
Fees
Includes: Cost of Instruction, Break Refreshments, Lunch

- **$155** Per person

- **$135** SVAACN Member
  To receive this special rate, use coupon code B564516YSVAACN when registering. Membership will be verified.

- **$55** PASCCM Member
  To receive this special rate, use coupon code B564516YPASCCM when registering. Membership will be verified.

Registrations received after August 20, 2015, will incur a $25 late fee.

Accommodations
Accommodations are the responsibility of the program participant. A list of Hershey area lodging is available upon request or online at: [bit.ly/1DK2adG](bit.ly/1DK2adG)

Hershey is conveniently located in central Pennsylvania, just 90 minutes from Baltimore and Philadelphia, two hours from Washington, DC, and three hours from New York City. Come and visit the town that has been named, “the sweetest place on earth.” For more information, go to: [hersheypa.com](hersheypa.com)

Access
Penn State encourages persons with disabilities to participate in its programs. If you anticipate needing any type of special accommodation or have questions about the physical access provided, please contact Continuing Education in advance of your participation.

Cancellation Policy
Cancellations received later than:
- **August 14, 2015**
  will incur a $25 processing fee.

- **After August 18, 2015**
  No refunds:

The University reserves the right to cancel or postpone any course or activity because of insufficient enrollment or other unforeseen circumstances. If a program is canceled or postponed, the University will refund registration fees but cannot be held responsible for any related costs, charges, or expenses, including cancellation/change charges assessed by airlines or travel agencies. Preregistered participants will be notified if a program is filled or canceled.
Registration

Register online using COMPASS, Penn State Hershey’s registration and records system. New users are required to set up an account, which will provide access to your CE certificates and conference materials. A tutorial is available on our website.

Breakout Sessions

After your registration is confirmed in COMPASS, you will be able to select your breakout sessions by completing a “Training Request Form.” This form appears at the bottom of the registration confirmation screen.

Register Online Today

pennstatehershey.org/web/ccc

QUESTIONS?

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Continuing Education, G220
P. O. Box 851, Hershey, PA 17033
Course # B5645-16-Y

Additional Event You May Be Interested In

Fundamentals of Critical Care Support
Two-Day Provider Course
August 19 & 20, 2015

Offered by our conference partner, Lancaster General Health (LGH)
RSVP to Lancaster General Health by July 17, 2015
$350

Questions and Reservations Contact: LGH Trauma Services at 717-544-5945
Learn More: tinyurl.com/LGH-Trauma-Education

This publication is available in alternative media on request.

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