12th Annual New England Critical Care Pharmacotherapy Symposium

Tuesday, March 17, 2015
7:00 AM – 4:30 PM
Northeastern University School of Pharmacy
140 The Fenway, Third Floor Conference Room (Room 378)
Boston, MA 02115

Target Audience
This inter-professional continuing education activity is developed for: hospital pharmacists, critical care pharmacists and drug policy decision makers and other health care providers.

Program Chairs
John Devlin, PharmD, RPh, BCPS, FCCM, FCCP
Professor and Acting Chair, Northeastern University School of Pharmacy
Scientific Staff, Division of Pulmonary and Critical Care Medicine and Sleep Medicine and Critical Care Pharmacist, Tuft Medical Center Boston, MA

John Marshall, PharmD, RPh, BCPS
Clinical Manager, Critical Care Pharmacy Services
Beth Israel Deaconess Medical Center, Boston, MA

Paul Szumita, PharmD, RPh, BCPS
Clinical Manager, Critical Care Pharmacy Services, Department of Pharmacy Services, Brigham and Women's Hospital, Boston, MA

Program Agenda
7:00-7:45  Registration, continental breakfast, poster set up and exhibitors showcase

7:45-8:00  Welcoming Remarks

8:00-8:45  Sleep in the ICU: What We Know and What We Can Do About It
Gerald Weinhouse, MD
Division of Pulmonary and Critical Care Medicine, Brigham and Women’s Hospital and Assistant Professor of Medicine, Harvard University, Boston, MA

8:45-9:30  26.2 miles: The Medication Management Marathon
Barbara Zarowitz, PharmD, FCCP, BCPS, CGP, FASCP, RPh
Chief Clinical Officer and Vice President of Clinical Services, Omnicare, Inc. and Adjunct Professor of Pharmacy, Wayne State University, Detroit, MI

9:30-10:00  An ICU Survivor’s Perspective Of Pain, Agitation And Delirium In The ICU
ICU survivor DG interviewed by John Marshall, PharmD, RPh,
Clinical Manager, Beth Israel Deaconess Hospital, Boston, MA

10:00-10:30  Break – Exhibitors Showcase and Research Posters
10:30-11:00  Critical Care Resident Clinical Pearls - Part 1

Severe Sepsis Focus Session

11:00-11:30  New Strategies to Evaluate Hemodynamic Status
Donna Williams, RN, MS, CCRN
Critical Care Clinical Nurse Specialist, Beth Israel Deaconess Medical Center,
Boston, MA

11:30-12:15  Controversies Surrounding Fluid Resuscitation and Vasopressor Support
Seth Bauer, PharmD, FCCM, RPh
Medical ICU Clinical Pharmacist, Cleveland Clinic, Cleveland, OH

12:15-1:15  Lunch, Exhibitors Showcase and Research Posters

1:15-2:00  Big Data In Critical Care: A Super-Sized Opportunity For ICU Pharmacists
Omar Badawi, PharmD, MPH, BCPS, FCCM, RPh
Senior Clinical Scientist, Phillips Healthcare and Adjunct Assistant Professor,
University of Maryland School of Pharmacy, Baltimore, MD

2:00-2:45  Palliative Care in The ICU: Opportunities For Pharmacists
Nicholas Hill, MD, FCCM, FCCP
Chief, Division of Pulmonary, Critical Care and Sleep Medicine, Tufts Medical
Center and Professor of Medicine, Tufts University School of Medicine, Boston,
MA

2:45-3:15  Management of Idiopathic Pulmonary Fibrosis (IPF) in the Critical Care Setting
Tracy Doyle, MD
Division of Pulmonary and Critical Care Medicine, Brigham and Women’s Hospital
and Assistant Professor of Medicine, Harvard University, Boston, MA

3:15-3:45  Critical Care Resident Clinical Pearls – Part 2

3:45-4:30  Pharmacologic Prevention and Treatment Of Bleeding in the Critically Ill
Surgery/ Trauma Patient
Toby C. Trujillo, PharmD, FCCP, FAHA, BCPS-AQ Cardiology, RPh
Associate Professor of Pharmacy, University of Colorado School of Pharmacy,
Denver, CO

4:30-4:35  Wrap up

4:35-6:00  Reception

Statement of Disclosure
In accordance with the Accreditation Council for Pharmacy Education (ACPE) Standards for Continuing
Pharmacy Education 2009, Northeastern University School of Pharmacy requires that faculty members
disclose any relationship (e.g., shareholder, recipient of research grant, consultant or member of an advisory
committee) that the faculty may have with commercial companies whose products or services may be
mentioned in their presentations. Such disclosure will be made available on the day of the program.
Learning Objectives:
At the end of this program, participants should be able to:

Sleep in the ICU: What We Know and What We Can Do About It
Gerald Weinhouse, MD
Division of Pulmonary and Critical Care Medicine, Brigham and Women’s Hospital and Assistant Professor of Medicine, Harvard University, Boston, MA
- Identify risk factors and mechanisms that affect sleep quality in the ICU
- Interpret sleep quality in a critically ill adult
- Define the outcomes associated with altered sleep
- Describe an evidence-based plan to optimize sleep quality in a critically ill adult

ACPE UAN 0027-0000-15-007-L04-P – knowledge based – 0.75 contact hours

26.2 miles: The Medication Management Marathon
Barbara Zarowitz, PharmD, FCCP, BCPS, CGP, FASCP, RPh
Chief Clinical Officer and Vice President of Clinical Services, Omnicare, Inc and Adjunct Professor of Pharmacy, Wayne State University, Detroit, MI
- Explain patient risks associated with care transitions
- Recognize commonly used medications that may be medically unnecessary
- Give examples of medications that may be unintentionally discontinued during transitions of care
- Define clinical skills needed to optimize medication safety during transitions if care following medication reconciliation

ACPE UAN 0027-0000-15-008-L04-P – knowledge based – 0.75 contact hours

An ICU Survivor’s Perspective of Pain, Agitation And Delirium in the ICU
ICU survivor DG interviewed by John Marshall, PharmD, RPh, Clinical Manager, Beth Israel Deaconess Hospital, Boston, MA
- Summarize a patient’s perception of ICU delirium
- Sort therapeutic modalities utilized to measure a patient’s pain, agitation, and delirium with the patient’s perceived experience
- Describe from the patient perspective, issues relating to cognition encountered post-ICU discharge

ACPE UAN 0027-0000-15-009-L04-P – knowledge based – 0.5 contact hours

Severe Sepsis Focus Session

New Strategies to Evaluate Hemodynamic Status during Septic Shock
Donna Williams, RN, MS, CCRN
Critical Care Clinical Nurse Specialist, Beth Israel Deaconess Medical Center, Boston, MA
- Identify standard hemodynamic monitoring assessment techniques
- Summarize available data on the utilization of advanced minimally invasive monitoring technologies
- Describe the passive leg raising (PLR) technique and its use with newer monitoring technologies
- Explain the rational for the clinical use of stroke volume variation (SVV) and pulse pressure variation (PPV)

ACPE UAN 0027-0000-15-010-L04-P – knowledge based – 0.5 contact hours
Controversies Surrounding Fluid Resuscitation and Vasopressor Support
Seth Bauer, PharmD, FCCM, RPh
Medical ICU Clinical Pharmacist, Cleveland Clinic, Cleveland, OH
• Describe the rationale for the use of intravenous fluids, catecholamines and vasopressin for the hemodynamic reversal of septic shock
• Summarize key studies supporting the decision to administer or withhold these therapies for patients with septic shock
• Outline a drug therapy plan for the initial resuscitation and subsequent hemodynamic management of a patient with septic shock

ACPE UAN 0027-0000-15-011-L01-P – knowledge based – 0.75 contact hours

Big Data in Critical Care: A Super-Sized Opportunity for ICU Pharmacists
Omar Badawi, PharmD, MPH, BCPS, FCCM, RPh
Senior Clinical Scientist, Phillips Healthcare and Adjunct Assistant Professor, University of Maryland School of Pharmacy, Baltimore, MD
• Describe the emerging role of “big data” in critical care
• Identify opportunities for pharmacists to contribute to big data research initiatives
• Explain how big data can be used to improve medication-related outcomes in critical care

ACPE UAN 0027-0000-15-012-L04-P – knowledge based – 0.75 contact hours

Palliative Care in the ICU: Opportunities for Pharmacists
Nicholas Hill, MD, FCCM, FCCP
Chief, Division of Pulmonary, Critical Care and Sleep Medicine, Tufts Medical Center and Professor of Medicine, Tufts University School of Medicine, Boston, MA
• Identify goals for end of life care in the critically ill patient
• Illustrate best evidence/practice guideline recommendations when optimizing care in the palliative critically ill patient
• Define roles for the ICU pharmacists when helping to optimize care during the end of life in the ICU

ACPE UAN 0027-0000-15-013-L04-P – knowledge based – 0.75 contact hours

Management of Idiopathic Pulmonary Fibrosis (IPF) in the Critical Care Setting
Tracy Doyle, MD
Division of Pulmonary and Critical Care Medicine, Brigham and Women’s Hospital and Assistant Professor of Medicine, Harvard University, Boston, MA
• Recognize the characteristics of IPF flares
• Identify the difference between IPF flares and infections
• Explain how to treat an IPF flare
• Recall recently approved FDA treatments for IPF

ACPE UAN 0027-0000-15-014-L01-P – knowledge based – 0.5 contact hours

Pharmacologic Prevention and Treatment of Bleeding in the Critically Ill Surgery/ Trauma Patient
Toby C. Trujillo, PharmD, FCCP, FAHA, BCPS-AQ Cardiology, RPh
Associate Professor of Pharmacy, University of Colorado School of Pharmacy, Denver, CO
• Describe unique considerations for the prevention/treatment of bleeding in the critically ill surgery/trauma patient
• Outline management plans for perioperative management and bleeding in the critically ill surgery/trauma patient
• Illustrate approaches to managing major bleeding in a critically ill surgery/trauma patient on antithrombotic therapy

ACPE UAN 0027-0000-15-015-L01-P – knowledge based – 0.75 contact hours
**Needs Assessment**
If you have any specific questions regarding the topics for this program, please e-mail them by February 15, 2015 to a.young@neu.edu

**Fees/Refund Information**
$50.00 for Pharmacy Residents and Fellows
$150.00 for all other participants
Registration Deadline – Tuesday, March 10, 2015
No refunds after March 10, 2015
All refunds are subject to a $25.00 administration fee
No walk-ins, refunds or telephone reservations.

**To Register**
Go to: [http://www.rxce.neu.edu](http://www.rxce.neu.edu). Click on Live programs; Register/Log in or create an account; at Participant Menu choose: Register for Live Programs; 12th Annual Critical Care Symposium – March 17, 2015

**Driving/Parking Directions:** [http://www.campusmap.neu.edu/](http://www.campusmap.neu.edu/)

**Acknowledgement of Financial Support will be made on the day of the program.**

**Requirements for Credit**
- Program attendees can earn Continuing Pharmacy Education credits for this program by electronically logging onto the website: [http://www.rxce.neu.edu](http://www.rxce.neu.edu), inserting the activity specific code number and successfully completing the activity learning assessment/evaluation form.
- Participant names will be checked against program attendance sheets for verification of attendance.
- **Participants have 60 days to complete evaluations.**
- After 60 days from March 17, 2015, no credit will be available for this program.
- **Credits will be electronically transferred to the CPE Monitor System.**
- **No Statements of Credit will be issued.**
- Program participants can earn up to 6 contact hours of continuing education credits This program is not accredited for pharmacy technicians

**Accreditation Statement**
Northeastern University Bouvé College of Health Sciences School of Pharmacy is accredited by the Accreditation Council for Pharmacy Education as a provider of continuing pharmacy education.