The College of Physicians of Philadelphia
19 South 22nd Street
Philadelphia, PA 19103

3rd Annual Neurocritical Care Symposium: A Case-Based Approach
January 24, 2014

MODERN MAIL
Earn up to 8.0 CME Credits and 8.0 CNE contact hours

The format of this conference is centered on clinical cases regarding issues in neurological patient. The latest evidence-based guidelines sponsored jointly by the American Heart Association and the American Stroke Association will be reviewed. Practitioners will be provided with an array of contemporary treatment modalities and future therapies.

Participants will gain in-depth understanding to how experienced healthcare providers approach difficult critically-ill neurological cases, and how they interact in the neurocritical care setting. The case-based format will allow participants to observe and witness experts deliberate how they would manage critically-ill neurological patients according to the most recent evidence.

At the conclusion of this course, participants should be able to:

- Assess their individual practices in light of the information and discussions of the day.
- Demonstrate the applicability and utility of the information and discussions of the day.
- Analyze the physiopathologic concepts related to the use of hypothermia in the setting of brain injury.
- Identify the indications for hypothermia and its use in the hospital setting.
- Identify time-critical windows for intervention after stroke.
- Define brain death and how it applies in the neurocritical care setting.
- Evaluate and implement goal-directed therapies in the setting of brain injury.
- Define cerebral circulation and metabolism and review recent advances in treatment modalities and future therapies.
- Define key concepts for the use of electroencephalography (EEG) as a diagnostic tool in brain injured patients and analyze physiopathologic concepts related to its use after cardiac arrest and hypothermia.
- Identify the indications for hypothermia and analyze physiopathologic concepts related to the use of normothermia and strategies to implement as part of a continuing improvement process for quality care and its impact on multidisciplinary care, and neurosurgery. This conference offers participants a unique opportunity to witness experts deliberate how they would manage critically-ill neurological patients.

COURSE DESCRIPTION

The course will be presented by a multidisciplinary team of experts in the field of emergency medicine, internal medicine, hospital medicine, neurology, critical care, and neurosurgery. This innovative course will be of interest to all specialists working in the fields of Neurocritical Care, particularly those that generate practical controversy, and that require the colleagues in the field to re-evaluate their practice in light of new evidence. The case-based approach with which to approach critically ill neurological patients.

LEARNING OBJECTIVES

- Identify the physiopathology of spinal cord injury and review recent advances in treatment.
- Identify the indications for hypothermia and analyze physiopathologic concepts related to the use of normothermia and strategies to implement as part of a continuing improvement process for quality care and its impact on multidisciplinary care and neurosurgery.
- Determine targets for temperature modulation and enumerate the strategies to implement as part of a continuing improvement process for quality care and its impact on multidisciplinary care.
- Define brain death and how it applies in the neurocritical care setting.
- Evaluate and implement goal-directed therapies in the setting of brain injury.
- Define cerebral circulation and metabolism and review recent advances in treatment modalities and future therapies.
- Define key concepts for the use of electroencephalography (EEG) as a diagnostic tool in brain injured patients and analyze physiopathologic concepts related to its use after cardiac arrest and hypothermia.
- Identify the indications for hypothermia and analyze physiopathologic concepts related to the use of normothermia and strategies to implement as part of a continuing improvement process for quality care and its impact on multidisciplinary care.
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http://jeffline.jefferson.edu/jeffcme/Neurosurgery/

COURSE DESCRIPTION
This innovative course will be of interest to all specialists working in the fields of emergency medicine, internal medicine, hospital medicine, neurology, critical care, and neurosurgery. This conference offers participants a unique opportunity to witness experts deliberate how they would manage critically ill neurological patients according to the most recent evidence.
The format of this conference is centered on clinical cases regarding issues in Neurocritical Care, particularly those that generate practical controversy, and that are related to recent advances pertaining to the management of the critically ill neurological patient.
The course will be presented by a multidisciplinary team of experts in the field of nursing, neurology, cardio-thoracic surgery, neurosurgery, and critical care. Participants will gain in-depth understanding to how experienced healthcare providers approach difficult critically ill neurological cases, and how they interact in critical decision making. The case-based format will allow participants to observe and question faculty members as they deal with real patient problems, and demonstrate how to apply new information and evidence-based guidelines into their practices.
The latest evidence-based guidelines sponsored jointly by the American Heart Association/American Stroke Association, the American Academy of Neurology, the Congress of Neurological Surgeons and the American Association of Neurological Surgeons will be reviewed. Practitioners will be provided with an array of contemporary management elements with which to approach critically ill neurological patients.

LEARNING OBJECTIVES
At the conclusion of this course, participants should be able to:

- Identify the major neurologic and medical complications that contribute to morbidity and mortality and apply evidence-based strategies for decreasing the incidence and impact following subarachnoid hemorrhage.
- Define brain death and how it applies in the setting of brain injury.
- Identify the physiopathology of spinal cord injury and review recent advances in treatment modalities and future therapies.
- Identify the indications for multimodality monitoring and develop and implement goal-directed therapies in patients with critical neurologic disease.
- Differentiate status epilepticus (SE), refractory status epilepticus, non-convulsive and convulsive status epilepticus and apply evidence-based guidelines for the management of SE.
- Examine the physiopathology of traumatic brain injury, its effects on the cerebral circulation and metabolism and review recent advances in treatment modalities and future therapies.
- Recognize and interpret recent developments in the understanding of the physiopathology and diagnosis of brain injury using imaging technology.
- Assess and employ into practice current pharmacotherapy data on anticoagulation and antplatelet therapy in the neurocritical care setting.
- Identify time-critical windows for intervention after stroke.
- Define key concepts for the use of electroencephalography (EEG) as a diagnostic tool in brain-injured patients and assess implementation strategies of EEG monitoring for ICU patients in the prevention of secondary brain injury.
- Define targets for temperature modulation and enumerate the indications for hypothermia and normothermia in the setting of brain injury.
- Analyze the physiopathologic concepts related to the use of normothermia and hypothermia relevant to the practice of neurocritical care.
- Identify the indications for hypothermia and analyze physiopathologic concepts related to its use after cardiac arrest and the reperfusion injury.
- Demonstrate the applicability and utility of inflammatory markers in the diagnosis of fever in the ICU patient.
- Recognize the critical role of nursing care and its impact on multidisciplinary patients post stroke.
- Assess their individual practices in light of the information and discussions during the course, and identify specific strategies to implement as part of a continuing improvement process for their practices.

AGENDA
7:00 AM Registration, Continental Breakfast & Exhibits

9:00 AM ICU Management of Spinal Cord Injury
Jack J. Jin, MD, PhD, FACS

10:30 AM Status Epilepticus (SE)
Rodney Bell, MD

10:00 AM Break/Exhibits

11:00 AM Traumatic Brain Injury & Traumatic Brain Edema/Concussion
Claudia Robertson, MD

12:00 PM Lunch & Exhibits with Keynote Speaker
“Neuro-Imaging”
Andrew B. Newberg, MD

1:00 PM Acute Stroke: Care in ICU & Medical Management
Carissa Amsden, MD

1:30 PM ICU Electroencephalography (EEG)
Jan Claassen, MD, PhD

2:15 PM Fever in Neuro ICU - Role of Inflammatory Markers
Nicholas Cavarocchi, MD

2:45 PM Break/Exhibits

3:00 PM Cardiac Arrest, Cooling, Rapid Infusion and Follow-up
Nicholas Cavarocchi, MD

3:45 PM Fever in Neuro ICU - Role of Inflammatory Markers
M. Kamran Athar, MD

4:15 PM Patients in Nursing Management of Neurocritical Care Units
Catherine Harris, PhD, MBA, CRNP

5:00 PM Closing Remarks
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REGISTRATION INFORMATION

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CANCELLATIONS/REFUND POLICY

Requests for refunds must be submitted in writing and received in the Office of CME by January 17, 2014. There will be no refunds after this date. There will be a $25 processing fee for all refunds. Registrants who fail to attend the conference are responsible for the entire fee. All refunds will be processed after the conference. The University reserves the right to cancel or postpone this course due to unforeseen circumstances. In the event of cancellation or postponement, the University will refund registration fees, but is not responsible for related costs or expenses to participants, including cancellation fees assessed by hotels, airlines or travel agencies.

PAYMENT

Please make check payable to Jefferson Medical College, Office of CME, or provide Credit Card Information. Do not send cash. Registration will not be processed unless full payment is received.

REGISTRATION FEES

- $150 Practicing Physicians
- $100 Nurses & Allied Health Professionals

To register please use one of the following options:

REGISTER ONLINE: http://office.jefferson.edu/offices/Neurosurgery/

FAX: You may fax this form with credit card payment to (215) 923-3212

PHONE: For further information, please call the Office of CME at 1-888-JEFF-CME or 215-955-6992

MAIL TO:

Neurocritical Care Symposium 2014
Jefferson Medical College
Office of CME
1020 Locust Street, Suite M-5
Philadelphia, PA 19107

ACCREDITATION INFORMATION

Jefferson Medical College of Thomas Jefferson University is an approved provider of continuing medical education for physicians. Jefferson Medical College of Thomas Jefferson University designates this live activity for a maximum of 8.0 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Thomas Jefferson University Hospital is an approved provider of Continuing Nursing Education (CNE) by the PA State Nurses Association, an accredited approver by the American Nurses Credentialing Center’s Commission on Accreditation. 8.0 is a maximum number of contact hours to be awarded to participants.

FACTOR DISCLOSURE

All faculty at continuing education activities for nurses, physicians and allied health professionals are required to disclose to the audience (1) any significant financial relationships with the manufacturer(s) of any commercial products, goods or services and (2) any unlabeled/unapproved uses of drugs or devices discussed in their presentations. Such disclosures will be made in writing in the course presentation materials.

EXHIBITS

Exhibits will be open during registration, breaks, and lunch. We wish to thank our grantors and exhibitors for their participation and support of this conference.

PARKING INFORMATION

There is metered on-street parking on most of the streets surrounding the College building, and several paid parking lots, including one on 21st Street, directly behind the College building.*Please note that payment for parking is cash only.

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JEFFERSON CO-COURSE DIRECTORS

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Professor and Vice Chair for Academic Services
Director, Division of Neurotrauma and Critical Care

Rodney D. Bell, MD
Professor, Neurology
Director, Stroke Center

JEFFERSON FACULTY

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Barak Bar, MD
Assistant Professor, Neurology

Nicholas Cavarocchi, MD, FACS, FCCP
Associate Professor, Surgery
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Catherine Harris, PhD, MBA, CRNP
Assistant Professor, Graduate Program
Jefferson School of Nursing

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Professor, Emergency Medicine and Radiology

Carissa Pineda, MD
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Matthew Vibbert, MD
Assistant Professor
Neurology and Neurological Surgery

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