The 11th New York Symposium on Neurological Emergencies and Neurocritical Care
June 10 to 13, 2014
The New York Academy of Medicine
1216 Fifth Avenue (at 103rd Street)
New York, NY
212-822-7271

PROGRAM HIGHLIGHTS
TUESDAY JUNE 10
✓ Morning: Advanced Resuscitation Symposium
✓ Afternoon: Therapeutic Hypothermia: Dawn of a New Era
✓ Point-Counterpoint: Cardiac Arrest: Target 33 °C versus 36 °C
✓ Late Afternoon: SIM-COOL: Hands-On Simulator Workshop

WEDNESDAY JUNE 11
✓ Full-Day Review Course: Nuts + Bolts Of Neurocritical Care
✓ Abstract Plenary Session: Case Studies in Cheating Death

THURSDAY JUNE 12
✓ Full Day Symposium: The Need for Speed: Strategies for Rapid Reperfusion
✓ 2014 Keynote Address: Regionalizing Stroke Care: the Future
✓ Late Afternoon: SIM-Stroke: Hands-On Simulator Workshop

FRIDAY JUNE 13
✓ AM Parallel Session: Multimodality and EEG Monitoring Workshop
✓ AM Parallel Session: Neurocritical Care Boot Camp: Neuroradiology and EEG
✓ Small Group Workshop: Neurocritical Care Skills Workstations
PROGRAM DESCRIPTION AND OBJECTIVES

The acute management of critical brain injury has undergone substantial evolution in recent years. State-of-the-art care is being changed by the availability of new technologies and pharmacologic interventions that focus on minimizing neurologic injury in the emergency room and ICU.

This course is designed to help practicing emergency medicine physicians, neurologists, neurosurgeons, intensivists, hospitalists, nurses, pharmacists, and other health care professions gain familiarity with advanced diagnostic and treatment techniques that apply to patients with acute neurological injury. The program will focus on both basic and advanced topics related to the management of life-threatening stroke, cardiac arrest, status epilepticus, and severe traumatic brain injury. The faculty will discuss new therapies that are available, and interpret the impact of recent clinical trial data on clinical practice.

The four-day program includes:

(1) A half-day symposium on advanced resuscitation techniques
(2) A half-day session devoted to therapeutic hypothermia after cardiac arrest
(3) A hands-on simulation workshop devoted to bedside cooling
(4) A full-day review of the fundamentals of neurocritical care
(5) An case-based abstract plenary session
(6) A full-day symposium on new strategies for minimizing door-to-reperfusion time
(7) A keynote address on the future of regionalized stroke system design
(8) A hands-on simulation workshop devoted to novel team stroke algorithms
(9) A half-day workshop focused on the basics of CT and EEG interpretation
(10) A half-day workshop devoted to brain multimodality monitoring
(11) Case-based small group workstations demonstrating

The program will feature succinct evidence-based presentations followed by ample time for discussion of questions from the audience. Attendees will be given the opportunity to discuss specific clinical situations and areas of controversy with the faculty. A comprehensive course syllabus will also be provided in the form of a USB drive.

On conclusion of the course, attendees should be able to achieve the following goals:

• Gain familiarity with new pharmacologic interventions and monitoring technologies for patients with acute neurologic disease.

• Become acquainted with state-of-the-art management protocols for use in the emergency room and ICU.

• Incorporate evidence-based best-medical practices into daily practice in the emergency room and ICU
ACCREDITATION/DESIGNATION OF CREDIT

The Icahn School of Medicine at Mount Sinai is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to sponsor continuing medical education for physicians.

The school designates this continuing medical education activity for a maximum of 28.0 AMA PRA Category 1 Credit(s)™. Physicians should claim only those hours of credit commensurate with the extent of their participation in the activity.

The American College of Nurse Practitioners (ACNP) and the American College of Physicians Assistants (ACPA) accept AMA/PRA category 1 credit from organizations accredited by the ACCME.

The American Nurses Credentialing Center (ANCC) accepts AMA/PRA category 1 credit toward recertification requirements.

DISCLOSURE

Before the program, all faculty will disclose the existence of any financial interest and/or other relationship(s) e.g., employee, consultant, speaker’s bureau, grant recipient, research support, stock ownership, or any other special relationship they might have with (a) the manufacturers of any commercial products to be discussed during their presentations and/or (b) any commercial contributor to this activity. When unlabeled uses are discussed, these will also be indicated.
FACULTY

Program Director

Stephan A. Mayer, MD
Director, Institute for Critical Care Medicine
Icahn School of Medicine at Mount Sinai
Departments of Neurology and Neurosurgery
Mount Sinai Health System

Course Co-Director

Scott Weingart, MD
Associate Professor of Emergency Medicine
Icahn School of Medicine at Mount Sinai
Director of Emergency Critical Care
Elmhurst Medical Center, NY, NY

Professor of Neurology & Neurological Surgery
Columbia University
College of Physicians & Surgeons
Director, Neuro-ICU
New York Presbyterian Hospital

Visiting Faculty

Sachin Agarwal, MD
Assistant Professor of Neurology and Neurosurgery
Columbia University

Robert Arntfield, MD, FRCP, FCCP, FACEP, RDMS, ASCEXAM
Assistant Professor of Medicine, Western University

Ethan Brandler, MD
Clinical Assistant Professor of Emergency Medicine
SUNY Downstate Medical Center

Jan Claassen, MD
Assistant Professor of Neurology and Neurosurgery,
Director, Neuro-ICU
Columbia University Medical Center

David Crippen, MD
Professor
Department of Critical Care Medicine
University of Pittsburgh Medical Center

Michael DeGeorgia, MD
Maxine Stone Flower Professor of Neurology
Director, Neurocritical Care  
Case Western Reserve University, Cleveland, OH

Oren Friedman, MD  
Assistant Professor of Medicine  
Weill-Cornell College of Medicine

Emily Gilmore, MD  
Assistant Professor of Neurology  
Yale University School of Medicine

Mayank Goyal, MD, FRCPC  
Professor of Neuroradiology, University of Calgary  
Director of Research, department of Diagnostic Imaging

James C. Grotta, MD  
Professor of Neurology  
UT Houston  
Chair, Department of Neurology  
Herrman Memorial Hospital

Brad Kaufman, MD  
Medical Director  
FDNY

Richard Levitan, MD  
Visiting Professor, University of Maryland Medical Center  
Adjunct Professor of Medicine (Emergency Medicine)  
Dartmouth (Geisel) School of Medicine, Hanover, NH

Atte Meretoja, MD, PhD, MSc  
Associate Professor of Neurology  
Helsinki University Central Hospital, Helsinki, Finland

Niklas Nielsen, MD  
Department of Clinical Sciences  
Helsingborg Hospital  
Lund University, Sweden

Sam Parnia, MD  
Assistant Professor  
Director of Resuscitation Research  
SUNY Stony Brook School of Medicine

Sven Poli, MD  
Deputy Medical Director  
Department of Neurology and Stroke  
Hertie Institute for Clinical Brain Research  
University of Tübingen
Professor of Neurology
Chairman, Department of Neurology
University of Texas at Houston Medical Center

Pina Sanelli, MD
Associate Professor of Radiology and Public Health
Associate Chairman for Practice Quality Improvement
Director, Neuroradiology Fellowship
Weill Cornell Medical College

Richard Savel, MD
Director of Surgical Critical Care
Co-Director, Critical Care Services
Maimonides Medical Center

J Michael Schmidt, PhD
Assistant Professor of Neurology
Technical Director, Neuro-ICU, Columbia

David Seder, MD
Assistant Professor of Medicine
Director of Neurocritical Care
Maine Medical Center

Ariel Shiloh, MD
Assistant Professor of Medicine (Critical Care)
Albert Einstein College of Medicine

Ichon School of Medicine at Mount Sinai Faculty

Carolyn Brockington, MD
Director, Stroke Center, Mount Sinai St Lukes and Mount Sinai Roosevelt Hospitals
New York, NY

Adel Baselly-Marcus
Associate Professor of Surgery (Critical Care)
Icahn School of Medicine at Mount Sinai

Aman Patel, MD
Associate of Neurosurgery
Icahn School of Medicine at Mount Sinai

Stanley Tuhrim, MD
Associate of Neurology
Icahn School of Medicine at Mount Sinai
Monday June 10th, 2014
Morning Session
ADVANCED RESUSCITATION SYMPOSIUM

MODERATOR: SCOTT WEINGART, MD

The therapeutic hypothermia revolution has created a groundswell of renewed interest in aggressively treating victims of sudden cardiac arrest. In this symposium, leading experts will explain how to perform CPR in a way that optimizes perfusion of the heart and brain, demonstrate how more aggressive percutaneous coronary intervention can improve survival, and show how advanced brain monitoring can detect secondary brain injury and improve outcome.

7:00 AM Registration
8:00 PM Welcome and Introduction
Scott Weingart, MD
8:05 PM Top 10 Resuscitation Strategies You Need to Be Doing Now
Scott Weingart, MD
8:30 AM The New Surgical Airway: From the Battlefield to the ICU
Richard Levitan, MD
8:55 AM Intra-Arrest TEE: Otherwise You're Flying Blind
Rob Arntfield, MD
9:20 AM Managing In-Hospital Catastrophes: The ICU Without Walls
Ariel Shiloh, MD
9:45 AM Panel Discussion
10:00 AM Refreshment Break
10:30 AM Massive PE: A-Team Approach for Reversing Death
Oren Friedman, MD
10:55 AM There Is No Such Thing As Laryngoscopy
Richard Levitan, MD
11:20 AM CXR Sucks, Grab the Probe to Look at the Lungs!
Rob Arntfield, MD
11:45 AM Panel Discussion
12:00 PM Luncheon with Faculty

Afternoon Session
THERAPEUTIC HYPOTHERMIA: A NEW ERA

MODERATOR: STEPHAN A. MAYER, MD
Therapeutic hypothermia presents special clinical challenges to caregivers, including the use of novel equipment, the requirement for standardized protocols, and potential complications that can be prevented with expert care. Attendees of this workshop will work with physician and nursing experts at simulator stations in small groups as they experience the process of inducing and maintaining hypothermia, managing complications, and rewarming. Attendees will also receive a toolkit including updated publications, cooling protocols, and order sets currently in use at New York Presbyterian Hospital and other leading centers. Special Thanks to Laerdal for Donating the Simulator Equipment.

**This Session Features Audience Response System for interactive Learning**

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<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>1:00 PM</td>
<td>Welcome and Introduction</td>
<td>Stephan A. Mayer, MD</td>
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</table>
| 1:05 PM | **POINT-COUNTERPOINT**  
Cardiac Arrest: The Optimal Target is 36°C | Niklas Nielsen, MD                |
| 1:30 PM | Cardiac Arrest: Why You Should Continue to Cool to 33°C           | David Seder, MD                    |
| 1:55 PM | Panel Discussion and Consensus Recommendations                    |                                   |
| 2:15 PM | Pre-Hospital Cooling: The Future                                  | Sven Poli, MD                      |
| 2:40 PM | NYC Cardiac Arrest Protocols in a New Era                         | Brad Kaufman, MD                   |
| 3:15 AM | Monitoring the Brain in Cardiac Arrest                            | Sam Parnia, MD                     |
| 3:40 PM | Panel Discussion and Consensus Recommendations                    |                                   |
| 4:00 PM | Refreshment Break                                                 |                                   |

**SIM COOL: Small-Group Hands-On Simulator Workshops**

**MODERATOR:** SACHIN AGARWAL, MD

Equipment and unrestricted educational grants to support this special workshop have been provided by Zoll Circulation and Medivance. Equipment has been Donated by Laerdal.

**Note:** Space is limited. Attendance requires pre-registration and a supplementary registration fee.
4:30 PM Workstation 1: Cardiac Arrest
Workstation 2: ICP Crisis

5:30 PM De-Briefing and Review

6:00 PM Adjourn

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**Tuesday June 11th, 2014**

**NUTS + BOLTS OF CRITICAL CARE**

A full day devoted to the fundamentals of neurocritical care. Management protocols that you can use in the ED and ICU will be provided in the syllabus.

7:00 AM Registration

**ABC + ICP**
Moderator: Stephan A. Mayer, MD

8:00 AM Airway Management in Coma
Scott Weingart, MD

8:25 AM Ventilating the Brain-Injured Patient
David Seder, MD

8:50 AM Optimizing Blood Pressure after Brain Injury
Gary L. Bernardini, MD

9:15 AM ICP Crisis: A Stepwise Approach
Stephan A. Mayer MD

9:40 AM Panel Discussion

10:00 AM Coffee Break + Exhibits

**Homeostasis**
Moderator: Rich Savel, MD

10:30 AM Sedation and Delirium: SCCM Guideline Update
Michael DeGeorgia, MD

10:55 AM Feed the Brain: Nutrition and Glycemic Control
Rich Savel, MD

11:20 AM Sodium and Water: New Insights
Stephan A. Mayer, MD

11:45 AM Chill Out: Therapeutic Temperature Management
Sven Poll, MD

12:10 AM Panel Discussion
12:30 PM  Luncheon with Faculty Members + Exhibits

Special Topics
Moderator:  David Crippen, MD

1:30 PM  ICU Infections: Prevention and Treatment
Adel Baselly-Marcus, MD

1:55 PM  Stop the Bleeding: Emergency Reversal of Anticoagulation
Stephan A. Mayer, MD

2:20 PM  Super-Refractory Status Epilepticus
Jan Claassen, MD

2:45 PM  Brain Death: Managing the Expectant Organ Donor
David Crippen, MD

3:10 PM  Panel Discussion

3:30 PM  Exhibit Hall Wine and Cheese Social Reception

PLENARY ORAL PRESENTATION SESSION:
4:00 – 5:00 PM

Case Studies in Cheating Death: How Teamwork Makes a Difference
Faculty: Stephan A. Mayer, MD

Here’s YOUR chance to present an amazing case of recovery. The kind of patient that inspires your practice. The kind you will never forget.

Attendees are invited to submit a brief 250 word abstract that illustrates how ingenuity, innovation, teamwork, and persistence helped a patient recover against all odds. **Team presentations are encouraged.**

Submit your presentation by April 15, 2013 at: www.nyneurosymposium.org/cheatingdeath

Four abstracts will be selected. Each presentation is 8 minutes with 7 minutes of discussion by the panel and audience. Attendees selected to present will be notified no later than May 1, 2010. Abstracts will be graded according to (1) novelty and originality, (2) teaching value, and (3) description of interventions and outcome assessment. A panel of faculty judges will present a plaque and $250 award for the best abstract.
It has become increasingly evident that optimal stroke intervention to attain rapid vessel recanalization requires a highly coordinated team effort between multiple disciplines across the continuum of care, from the ambulance to the ICU. In this consensus conference, national and world leaders will share cutting-edge protocols, implementation strategies, and best clinical practices for minimizing onset-to-reperfusion time.

**Features Audience Response System for interactive Learning**

7:00 AM  
**Registration**

8:00 AM  
**Fast and Furious: Breaking the Speed Barrier for Stroke**  
Stephan A. Mayer, MD

**As Far Forward as Possible: Pre-Hospital Stroke Management**

8:10 AM  
**To The Best Place Possible: Regionalizing Stroke Care**  
Atte Meretoja, MD

8:35 AM  
**Optimizing Pre-Hospital Recognition of Stroke**  
Ethan Brandler, MD

9:00 AM  
**Discussion and Consensus Recommendations**

**Emergency Stroke Resuscitation and Imaging**

9:20 AM  
**Acute Stroke Checklist: What’s Needed, What Isn’t**  
Scott Weinberg, MD

9:45 AM  
**Emergency Stroke Brain Imaging**  
Mayank Goyal, MD

10:10 AM  
**Discussion and Consensus Recommendations**

10:30 AM  
**Coffee Break and Exhibits**

**TPA: More, Better, Faster**

11:00 AM  
**Thrombolysis in 20 Minutes: The Helsinki Protocol**  
Atte Meretoja, MD

10:25 AM  
**TPA: When to Break the Rules**  
James C. Grotta MD

11:40 AM  
**Discussion and Consensus Recommendations**

12:00 PM  
**Luncheon and Exhibits**

**Streamlining Intra-Arterial Therapy**

1:00 PM  
**The New Era of Stentriever Technology**  
Iman Patel, MD
1:25 PM  **Ultra-Fast Reperfusion: The Future of Stroke Therapy**  
Mayank Goyal, MD

1:50 PM  **Discussion and Consensus Recommendations**

**Critical Care of the Reperfused Brain**

2:10 PM  **Minimizing Brain Reperfusion Injury**  
Stephan A. Mayer MD

2:35 PM  **Optimizing Stroke Unit Care and Transition to Recovery**  
Stan Tuhrim, MD

3:00 PM  **Discussion and Consensus Recommendations**

**11th NY Symposium Keynote Address**

3:20 PM  **Regionalizing Stroke Care: A Glimpse Into the Future**  
James C. Grotta, MD

4:00 PM  **Reception and Exhibits**

**SIM-STROKE: Small-Group Hands-On Simulator Workshops**

**MODERATOR: SACHIN AGARWAL, MD**

Equipment and unrestricted educational grants to support this special workshop have been provided by Zoll Circulation and Medivance. Equipment has been Donated by Laerdal.

**Note:** Space is limited. Attendance requires pre-registration and a supplementary registration fee.

4:30 PM  **Workstation 1: Headaches and Acute Left Hemiplegia**  
**Workstation 2: Ataxia and Diplopia**

5:30 PM  **De-Briefing and Review**

6:00 PM  **Adjourn**

*Friday, June 13th, 2013*
PARALLEL HANDS-ON WORKSHOP SESSIONS

**Morning Parallel Session**

**Neurocritical Care Boot Camp**

A Fundamental Neuroimaging and EEG Skills Workshop for the Practicing Provider

*Downstairs Auditorium*

**Features Audience Response System for interactive Learning**

*Moderator: Jan Claassen, MD*

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<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
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<tr>
<td>8:00 PM</td>
<td><strong>Rapid Bedside Neurological Assessment</strong></td>
<td>Stephan A. Mayer, MD</td>
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<td>8:25 PM</td>
<td><strong>Neuroimaging 101: CT and MRI Fundamentals</strong></td>
<td>Pina Sanelli, MD</td>
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<td>8:50 PM</td>
<td><strong>EEG 101: Bedside EEG in the ICU</strong></td>
<td>Emily Gilmore, MD</td>
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<td>9:15 AM</td>
<td><strong>Neuroimaging 102: CT Angiography and Perfusion</strong></td>
<td>Pina Sanelli, MD</td>
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<td>9:40 PM</td>
<td><strong>EEG 102: Recognizing Seizures</strong></td>
<td>Emily Gilmore, MD</td>
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<td>10:05 PM</td>
<td><strong>Panel Discussion</strong></td>
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<td>10:30 PM</td>
<td><strong>Refreshments + Exhibits</strong></td>
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<td>11:00 AM</td>
<td><strong>Case Studies: Small-Group Imaging and EEG Workstations</strong></td>
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<td>EEG case studies</td>
<td>Jan Claassen</td>
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<td>CTA and CTP case studies</td>
<td>Pina Sanelli, MD</td>
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<td>12:00 PM</td>
<td><strong>Adjourn</strong></td>
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**Morning Parallel Session**

**Multimodality Monitoring Workshop**

Update on Advanced Multimodality Brain Monitoring Techniques

*Upstairs Meeting Room*

*Moderator: Michael DeGeorgia, MD*

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<tr>
<td>8:00 AM</td>
<td><strong>Data Acquisition and Analysis Systems</strong></td>
<td>J. Michael Schmidt, PhD</td>
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<td>8:25 AM</td>
<td><strong>Brain Tissue Oxygen and CBF</strong></td>
<td>Michael DeGeorgia, MD</td>
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<td>8:50 AM</td>
<td><strong>EEG Depth Electrode</strong></td>
<td>Jan Claassen, MD</td>
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</table>
9:15 AM  Microdialysis  
Sachin Agarwal, MD

EEG MONITORING WORKSHOP
Moderator:  Lawrence J. Hirsch, MD

9:00 AM  Bedside EEG  
Derek Chong, MD

8:25 AM  EEG Rhythms in Coma  
Douglas Labar, MD

8:50 AM  Recognizing Seizures  
Jan Claassen, MD

9:45 AM - 10:00 AM  Panel Discussion

10:30 AM  to 12:00 Noon

Brain Monitoring Workstations  
Small Group Interactive Workstations Upstairs

10:30 AM  to 12:00 Noon  
Traumatic Brain Injury Multimodality Case Studies  
Paul Vespa, Stephan A. Mayer, MD

CNS Monitor Case Studies  
Dick Moberg, PhD

Microdialysis Case Studies  
Chris Zammit, MD

12:00 PM  Adjourn
Meeting Location

The New York Academy of Medicine
1216 Fifth Avenue (at 103rd Street)
New York, NY
212-822-7200

Parking:
Parking is available at garages near the New York Academy of Medicine. Parking fees will be charged according to standard rates.

Hotel Accommodations:
SAME AS LAST YEAR

Additional Information

Center for Continuing Education
Columbia University College of Physicians & Surgeons
630 West 168th Street, Unit 39
New York, NY 10032
Telephone 212-781-5990
Fax 212-781-6047
E-mail cme@columbia.edu
Internet http://cpmcnet.columbia.edu/dept/cme

For more information, go to:
nyneurosymposium.org
Tuition

Registrants may attend any single day of the symposium, or attend the entire four-day symposium and receive a discount

**Single Day**

Physicians: $250 per day  
Other health professionals: $175 per day  
Fellows and Residents: $150 per day*  
Non-health care provider: $250 per day

**Entire Four Day Symposium**

Physicians: $750  
Other health professionals: $500  
Fellows and Residents: $425*  
Non health care provider: $700

* Letter from program director certifying status is required for the reduced rate.

Fees include admission to the academic presentations and exhibits, continental breakfast, lunch and refreshments, and a digital syllabus containing copies of all of the presentations. Confirmation of registration will be sent upon receipt of the registration form.

Refund of registration fee, less a $25 administrative fee, will be made if written notice of cancellation is received by April 1, 2014. No refunds can be made thereafter.

Registration

Space is limited. Early registration is encouraged.

By mail:  
Complete the registration card and mail with full payment to:

Columbia University College of Physicians & Surgeons  
Center for Continuing Education  
630 West 168th Street, Unit 39  
New York, NY 10032

By fax:
Registrants may fax the registration form with credit card information to 212-781-6047.

On-Line:
http://columbiacme.org

Telephone registrations and or cancellations are not accepted.
# Registration Form

**MOUNT SINAI  Neurological Emergencies + Neurocritical Care**

*Please print or type*

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<tr>
<th>Last Name</th>
<th>Degree</th>
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Institution

Please describe yourself

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<th>Degree</th>
<th>Specialty / Area of Interest</th>
<th>How did you find out about the NY Symposium?</th>
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<td>Attended previously</td>
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<td>RN/LPN</td>
<td>Critical Care</td>
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<td>NP</td>
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<td>Social media (Facebook, Twitter)</td>
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<td>PA</td>
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<td>Journal advertisement</td>
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Please check all that apply and write total at bottom
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<th>Event Date</th>
<th>Event Description</th>
<th>Physician</th>
<th>Other Healthcare Professional (RN, NP, PA, RT)</th>
<th>Students, Fellows &amp; Residents (letter required)</th>
<th>Non-Health Care Provider</th>
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<tr>
<td>Tues, June 10</td>
<td>Resuscitation Symposium &amp; SIM-COOL</td>
<td>$250</td>
<td>$175</td>
<td>$150</td>
<td>$250</td>
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<td>Wed, June 11</td>
<td>Nuts + Bolts</td>
<td>$250</td>
<td>$175</td>
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<td>Thur, June 12</td>
<td>Stroke: Need For Speed</td>
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<td>Fri, June 13</td>
<td>Boot Camp + Workshops (½ Day)</td>
<td>$200</td>
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<td>Entire Four Days</td>
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TOTAL DUE: ___________

[ ] Enclosed is a check or money order made payable to:

Columbia University
Checks must be in U.S. Dollars drawn from a U.S. bank.
Money orders must be in U.S. Dollars.

[ ] Please charge to: [ ] Mastercard       [ ] Visa

Card Number

Expiration Date

Cardholder's Name

Cardholder's Signature

Mail to:
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Center for Continuing Education
630 West 168th Street, Unit 39
New York, NY 10032
New York, NY 10032

7th New York Symposium on Neurological Emergencies & Neurocritical Care

June 1-4, 2010

New York Academy of Medicine
1216 Fifth Avenue (at 103rd Street)
New York, NY