SIXTH ANNUAL INTERNATIONAL SYMPOSIUM

Rapid Response Systems and Medical Emergency Teams

Monday and Tuesday
May 10-11 2010
Pittsburgh Marriott City Center
Pittsburgh, Pennsylvania, USA

JOINTLY SPONSORED BY

International Meeting for Rapid Response Systems
AND
Allegheny General Hospital
West Penn Allegheny Health Systems
Pittsburgh, Pennsylvania, USA
**Conference Director**

**Michael DeVita, MD**
Executive Vice President, Medical Affairs
West Penn Allegheny Health System
Pittsburgh, Pennsylvania, USA

**Conference Co-Directors**

**Rinaldo Bellomo, MD**
Professor of Medicine, University of Melbourne
Director of Intensive Care Research
Staff Specialist in Intensive Care
Department of Intensive Care
Austin Hospital
Heidelberg, Victoria, Australia

**Professor Gary B. Smith, FRCA, FRCP**
Consultant in Critical Care Medicine and Medical Lead for Patient Safety
Portsmouth Hospitals NHS Trust and University of Bournemouth
Portsmouth, United Kingdom

**Conference Faculty**

**Robert Arnold, MD**
Leo H. Cripe Chair in Patient Care
Professor and Chair, Section of Palliative Care and Medical Ethics
Director, Institute on Doctor-Patient Communication
University of Pittsburgh
Pittsburgh, Pennsylvania, USA

**Marie R. Baldisseri, MD, FCCM**
Associate Professor of Critical Care Medicine
University of Pittsburgh Medical Center
Pittsburgh, Pennsylvania, USA

**Jeffrey Braithwaite, PhD**
Foundation Professor and Director
Australian Institute of Health Innovation
Professor and Director, Centre for Clinical Governance Research
Faculty of Medicine
University of New South Wales
Sydney, Australia

**Richard J. Brilli, MD, FAAP, FCCM**
Chief Medical Officer
Nationwide Children’s Hospital
Columbus, Ohio, USA

**Michael Buist, MBchB, FRACP, FJFICM**
Director of Medicine for the NWAHS
Associate Professor, Rural Clinical School
University of Tasmania
Tasmania, Australia

**Erga Cerchiari, MD**
Director of Anesthesia and Critical Care
Ospedale Maggiore
Bologna, Italy

**Sean P. Clarke, RN, PhD**
RBC Chair in Cardiovascular Nursing Research
Lawrence S. Bloomberg Faculty of Nursing
University of Toronto and Peter Munk Cardiac Centre
Toronto General Hospital
Toronto, Ontario, Canada

**Amy Clontz, RN, MSN**
Advanced Practice Nurse
UPMC Presbyterian
Pittsburgh, Pennsylvania, USA

**Kathy D. Duncan, RN**
Faculty
Institute for Healthcare Improvement
Cambridge, Massachusetts, USA

**Helen Haskell, MA**
Founder and President
Mothers Against Medical Error
Columbia, South Carolina, USA

**Ken Hillman, MD, FRCA, FJFICM**
Professor of Intensive Care
University of New South Wales
Director, Simpson Centre for Health Services Research
Affiliated with the Australian Institute of Health
University of New South Wales
Sydney, Australia

**Michael D. Howell, MD, MPH**
Director, Critical Care Quality
Beth Israel Deaconess Medical Center
Harvard Medical School
Boston, Massachusetts, USA

**Marilyn Hravnak, PhD, RN, ACNP-BC, FCCM, FAAN**
Professor, School of Nursing
University of Pittsburgh
Pittsburgh, Pennsylvania, USA

**Elizabeth Hunt, MD, MPH**
Assistant Professor, Department of Anesthesiology and Critical Care Medicine
Johns Hopkins School of Medicine
Director, Johns Hopkins Simulation Center
Baltimore, Maryland, USA

**Anna Johansson, PhD**
Instructor in Medicine, Harvard Medical School
Director of Social Science Research, Division of Translational Research
Assistant Director of Educational Research, Shapiro Institute for Education and Research
Vice Chair, Committee on Clinical Investigations
Beth Israel Deaconess Medical Center
Boston, Massachusetts, USA

**Dr. Daryl Jones, BSc(Hons), MB BS, FRACP, FJFICM, MD**
Consultant Intensive Care Specialist, Austin Health Research Fellow MET Austin Hospital
Adjunct Senior Research Fellow DEPM, Monash University
Hospital-based Medical Director of Organ Donation
Intensive Care Unit
Austin Hospital
Victoria, Australia

**John Kellet, MD**
Consulting Physician
Nenagh Hospital
Nenagh County
Tipperary, Ireland

**John A. Kellum MD**
Professor of Critical Care Medicine, Medicine, Bioengineering, Clinical and Translational Science
Vice Chair for Research
University of Pittsburgh School of Medicine
Pittsburgh, Pennsylvania, USA

**Afrothite Kotsakis, MD, FRCPC**
Assistant Professor, Department of Pediatrics
University of Toronto
Department of Critical Care Medicine and Cardiology
The Hospital for Sick Children
Toronto, Canada
CONFERENCE FACULTY (continued)

**Geoffrey K. Lighthall, MD, PhD**  
Associate Professor, Anesthesia and Critical Care  
Department of Anesthesia  
Stanford University School of Medicine  
Stanford, California, USA

**Ann Lippert**  
Consultant, Assistant Professor  
Danish Institute for Medical Simulation  
University Hospital Herlev  
Copenhagen, Denmark

**Andrea Schmid-Mazzoccoli, RN, PhD**  
Chief Nurse Executive  
Bon Secours System  
Mariottville, Maryland, USA

**Christopher Parshurham, MD, MB, ChB, PhD, FRACP**  
Associate Professor, Critical Care Medicine and Paediatrics, Critical Care Medicine, Health Policy Management and Evaluation  
University of Toronto  
Staff Physician, Critical Care Medicine  
The Hospital for Sick Children  
Toronto, Canada

**Joanne Phillips, MSN, RN, CCRN, CCNS**  
Nursing Clinical Coordinator  
The Hospital of the University of Pennsylvania  
Philadelphia, Pennsylvania, USA

**Stuart F. Reynolds, MD, FCCP**  
Associate Professor of Critical Care Medicine  
University of Alberta Hospitals  
Physician Lead, Critical Care Response Team Project  
Ministry of Health and Long Term Care  
Province of Ontario, Canada

**Francesca Rubulotta, MD**  
Imperial College  
Consultant, Critical Care Medicine  
Charing Cross Hospital  
London, England

**Andrea Schmid-Mazzoccoli, RN, PhD**  
Chief Nurse Executive  
Bon Secours System  
Mariottville, Maryland, USA

**Carol Curio Scholle, RN, MSN**  
Clinical Director, Transplant, Surgical Services and Dialysis  
UPMC Presbyterian  
Pittsburgh, Pennsylvania, USA

**Susan D. Scott, RN, MSN**  
Patient Safety Officer  
Primary Investigator, Second Victim Research Team  
University of Missouri Health Care  
Columbia, Missouri, USA

**Dan Shearn, RN, MSN**  
Clinical Director of Critical Care  
UPMC Presbyterian  
Pittsburgh, Pennsylvania, USA

**Christian P. Subbe, DM, MRCP**  
Senior Clinical Lecturer  
School of Medical Sciences  
Bangor University  
Bangor and Consultant Physician in Acute and Intensive Care Medicine  
Wrexham Macor Hospital  
Wrexham, United Kingdom

CONFERENCE FACULTY (continued)

**James Tibballs, Associate Professor**  
BMedSc, MBBS, MED, MBA, MD, MHLTH&MEDLaw, GDipArts(Fr), PGDipArts(Fr), FANZCA, FFICM, FACLM  
Intensive Care Physician and Resuscitation Officer  
Royal Children’s Hospital  
Melbourne, Australia

**Randy S. Wax, MD, MED, FCCM**  
Medical Director, Program for Resuscitation Education and Patient Safety (PREPS)  
Attending Intensivist, Medical/Surgical ICU and ACCESS Critical Care Response Team  
Mount Sinai Hospital  
Assistant Professor, Critical Care, Department of Medicine  
University of Toronto  
Toronto, Ontario, Canada

**Tina Schade Willis, MD**  
Assistant Professor, Pediatric Critical Care Medicine  
University of North Carolina at Chapel Hill  
Medical Director, ECMO and Pediatric ICU  
Co-Director, N. C. Children’s Center for Clinical Excellence  
Chapel Hill, North Carolina

**John R. Welch, RH, BSc (Hons) Psych, MSc Nurs**  
Consultant Nurse, Critical Care  
University College London hospitals NHS Foundation Trust  
London, England

**Bradford D. Winters, PhD, MD**  
Assistant Professor of Anesthesiology and Critical Care Medicine, Neurology and Surgery  
Department of Neurology  
The John Hopkins Hospital  
Baltimore, Maryland, USA

PLANNING COMMITTEE

**Sheila Adam, RN**  
London, United Kingdom

**Andreas Hvarfner, MD, PhD**  
Lund, Sweden

**John Ovretveit, PhD, CPsychol, MIHM, C.Sci**  
Director of Research  
Professor of Health Innovation Implementation and Evaluation  
Medical Management Centre  
The Karolinska Institute  
Stockholm, Sweden

**Nicolette Mininni, RN, M Ed, CCRN**  
Advanced Practical Nurse, Critical Care  
UPMC Shadyside  
Pittsburgh, Pennsylvania, USA

ABSTRACT COMMITTEE

**Babak Sarani, MD**  
Assistant Professor of Surgery  
Co-Director of the Rapid Response Team  
Division of Traumatology and Surgical Critical Care  
University of Pennsylvania  
Philadelphia, Pennsylvania, USA

**William Schweickert, MD**  
Assistant Professor of Medicine  
Director, Procedure and Resuscitation Service  
Associate Director, Medical Intensive Care Unit  
The Hospital of the University of Pennsylvania  
Philadelphia, Pennsylvania, USA
CONFERENCE OVERVIEW AND INTENDED AUDIENCE

This annual symposium is the largest conference in this field, and is attended by more than 300 delegates from all over the world. The program consists of a mixture of plenary and panel discussions, keynote lectures, poster presentations and round table discussions. The content of the presentations will be divided into several tracks, each covering specific themes such as patient safety and quality, novice, education, nursing, research, technology and monitoring, pediatric and social science perspective.

This educational activity is intended for critical care physicians, emergency physicians, patient safety officers, hospitalists, hospital-based physicians, critical care and general ward nursing staff, hospital administrators, nursing directors, respiratory care directors, resuscitation and clinical outcomes researchers and other health care professionals involved or interested in rapid response systems and medical emergency teams.

CONFERENCE OBJECTIVES

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

- describe the purpose of the Rapid Response System (RRS)
- describe the components of the RRS
- create or improve a RRS at their hospital
- discuss the recently published literature on RRS
- carry on an evidence-based discussion about RRS benefits and shortfalls
- describe the impact of an RRS on the nursing workload
- describe the impact of an RRS on patient families

ACCREDITATION

Allegheny General Hospital is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Allegheny General Hospital designates this educational activity for a maximum of 16 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

ACCOMMODATIONS

A block of rooms has been reserved for registrants and guests at the Marriott Pittsburgh City Center.

Reservations can be made by calling toll free at (888) 456-6600 or the hotel directly at 1(412)471-4000 or online at http://www.marriott.com/hotels/travelpitdt?groupCode=upmupma&app=revlink&fromDate=5/8/10&toDate=5/14/10.

Please be sure to identify yourself as a Allegheny General Hospital Rapid Response Systems Conference registrant to be eligible for the group rate.

SINGLE/DouBLE OCCUPANCY ROOM RATE: $159 + tax

DEADLINE FOR RESERVATIONS: May 1, 2010
(Reservations made after the deadline will be accepted on a space available basis only.) * Reserve your room early!

ACTIVITIES

PITTSBURGH PIRATES BASEBALL GAME
• Monday, May 10, 2010 • 7:05 p.m.
Pittsburgh Pirates vs. Cincinnati Reds

A limited block of tickets have been reserved for Monday’s game. The cost of the tickets are $40.00 and includes transportation to the game, dinner and Pirate T-shirt. Refer to the registration form if you are interested in reserving tickets and contact Todd Cochran, the ticket coordinator by telephone at (412) 359-4952 or by e-mail at tcochran@wpahs.org.

CALL FOR ABSTRACTS

For information on abstract submission, please go to wwwrapidresponsesystems.org. Abstracts may be submitted December 1, 2009 through March 1, 2010.

ADDITIONAL INFORMATION

For additional information concerning the conference, please contact the seminar coordinator by telephone at (412) 359-4952, by fax at (412) 359-8218, by e-mail at sjohnsto@wpahs.org or visit our Web site at www.aghcme.org or the International Meeting for Rapid Response Systems Web site at www.rapidresponsesystems.org.

DISCLOSURE OF SIGNIFICANT RELATIONSHIPS WITH RELEVANT COMMERCIAL COMPANIES

In accordance with the Accreditation Council for Continuing Medical Education (ACCME) and the policy of Allegheny General Hospital, presenters must disclose all relevant financial relationships, which in the context of their presentation(s), could be perceived as a real or apparent conflict of interest, (e.g., ownership of stock, honoraria or consulting fees). Any identifiable conflicts will be resolved prior to the activity. Any such relationships will be disclosed to the learner prior to the presentation(s).
### CONFERENCE SCHEDULE

**Monday, May 10, 2010**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker/Location</th>
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<tbody>
<tr>
<td>6:45 a.m.</td>
<td>Registration and Continental Breakfast <em>(Visit Exhibits)</em></td>
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<tr>
<td>7:45 a.m.</td>
<td>Welcome and Opening Comments</td>
<td>Michael DeVita, MD</td>
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<tr>
<td>8:00 a.m.</td>
<td><strong>General Session</strong> Leadership and Culture Change — Essential Elements</td>
<td>Jeffrey Braithwaite, PhD</td>
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<td>9:00 a.m.</td>
<td><strong>Concurrent Workshops</strong> <em>(Choose one)</em></td>
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<tr>
<td></td>
<td>TRACK I: The Patient Experience</td>
<td>Anna Johansson, PhD-Moderator</td>
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<td>TRACK II: An International Update of Pediatric Response Systems</td>
<td>Richard Brilli, MD-Moderator</td>
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<td>TRACK III: Implementing RRTs and METs — The Journeys of Two Hospitals: Liverpool Hospital, England and University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania, USA</td>
<td>John Owreitei, PhD-Moderator</td>
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<td>10:00 a.m.</td>
<td><strong>Break</strong> <em>(Visit Exhibits)</em></td>
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<td>10:15 a.m.</td>
<td><strong>Concurrent Workshops</strong> <em>(Choose one)</em></td>
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<td>TRACK I: The Efferent Arm: Function and Various Types of Teams</td>
<td>Michael DeVita, MD-Moderator</td>
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<td>TRACK II: Advances in a System to Identify the Deteriorating Child on the General Wards</td>
<td>Richard Brilli, MD-Moderator</td>
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<td>TRACK III: Starting from Scratch: Creating a Successful RRS</td>
<td>Geoffrey Lighthall, MD</td>
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<td>11:15 a.m.</td>
<td><strong>Concurrent Workshops</strong> <em>(Choose one)</em></td>
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<td>TRACK I: The Afferent Limb: How to Ensure a Crisis Patient is Recognized and a Response Triggered</td>
<td>Michael DeVita, MD-Moderator</td>
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<td>TRACK II: Family Activation of Rapid Response Teams: How to “Just Do It”</td>
<td>Elizabeth Hunt, MD-Moderator</td>
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<td>TRACK III: Do RRS’s Improve or Impair Learning?</td>
<td>Babak Sarani, MD-Moderator</td>
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<td>12:15 p.m.</td>
<td><strong>Lunch</strong></td>
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<td>1:30 p.m.</td>
<td><strong>Concurrent Workshops</strong> <em>(Choose one)</em></td>
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<td>TRACK I: RRS and DNR Issues</td>
<td>Robert Arnold, MD-Moderator</td>
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<td>TRACK II: Nursing: Clinical Barriers to Failure to Rescue</td>
<td>M. Hravnak, RN, PhD-Moderator</td>
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<td>TRACK III: Poster Presentations</td>
<td>Michael DeVita, MD</td>
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<td>Babak Sarani, MD</td>
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<td>Prof. Gary Smith</td>
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<td>Christian Subbe, DM</td>
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*(continued)*
## Monday, May 10, 2010

### Concurrent Workshops (Choose one)

**TRACK  I**  Human Interventions at the Response
- Michael Buist, MD
- Geoffrey Lighthall, MD
- Prof. Gary Smith
- Christian Subbe, DM

**TRACK II**  Nursing: The Administrative Limb — Nursing Governance and the RRS
- Andrea Mazzoccoli, RN, PhD
- Joanne Phillips, R.N, PhD
- Carole Scholle, MSN
- Dan Shearn, MSN

**TRACK III**  Responding to Cardiovascular Crisis: What to Do and What Protocols to Use
- Michael Buist, MBChB
- William Schweickert, MD
- Randy Wax, MD

### 2:30 p.m.

**BREAK (Visit Exhibits)**

### 3:25 p.m.

**Concurrent Workshops (Choose one)**

**TRACK  I**  Pro/Con Debate: Ramp Up/Ramp Down
- Geoff Lighthall, MD-Moderator
- Kathy Duncan, RN
- John Kellum, MD

**TRACK II**  Nursing: Comprehensive Approach to the Evaluative Arm of the RRS
- Marilyn Hravnak, RN-Moderator
- Amy Clontz, RN
- Joanne Phillips, RN, PhD
- John Welch, RN

**TRACK III**  Responding to Neurological Crises Protocols
- John Kellett, MD

### 4:30 p.m.

**Concurrent Workshops (Choose one)**

**TRACK  I**  Pro/Con Debate: Continuous Monitoring is Required for Best Patient Care
- Christopher Parshurham-Moderator
- Michael DeVita, MD
- Ann Lippert, MD

**TRACK II**  AHA Report: Do Response Teams Reduce CardioRespiratory Arrests in the Hospital?
- Prof. Gary Smith
- Elizabeth Hunt, MD
- Daryl Jones, MB BS

**TRACK III**  Research Needs for the Future
- Babak Sarani, MD
- William Schweickert, MD

### 5:30 p.m.

**ADJOURNMENT**

### 7:05 p.m.

Pittsburgh Pirates vs. Cincinnati Reds
(Tickets must be purchased separately and in advance.)

## Tuesday, May 11, 2010

### 6:00 a.m.

Registration and Continental Breakfast (Visit Exhibits)

### 7:00 a.m.

**Sunrise Session (Additional fee required for attendance)**
- IHI’s Improvement Map
- Bedside Sonogram
  - Kathy Duncan, RN
  - John Kellett, MD

### 8:00 a.m.

**General Session**
- Patient Safety — The Big Picture
  - Jeffrey Braithwaite, PhD

### 9:00 a.m.

**Concurrent Workshops (Choose one)**

**TRACK  I**  Social Science in RRS
- Jeffery Braithwaite, PhD
- Anna Johanson, MD
- John Overtveit, PhD
- Susan Scott, MD

**TRACK II**  RRS — Work to Reduce Ward Work
- Sean Clarke, RN, PhD
- Carol Curio Scholle, RN
- John Welch, MS, Nurs

(continued)
Tuesday, May 11, 2010

10:00 a.m. **BREAK (Visit Exhibits)**

10:15 a.m. **Concurrent Workshops (Choose one)**

**TRACK I** The Efferent Arm: How Many Different Teams Does a Hospital Need?  
Michael DeVita, MD  
Dan Shearn, MSN  
Susan Scott, MD

**TRACK II** Research — Scientific Theory and History  
Bradford Winters, MD

**TRACK III** Case-Based Discussions: What Actually Happens When the RRS is Triggered? — Sepsis, Mental Status Change, Hypoxemia  
Geoffrey Lighthall, MD  
Stuart Reynolds, MD

11:15 a.m. **Concurrent Workshops (Choose one)**

**TRACK I** AHA/IMRRS Consensus Conference Reports: The Afferent Limb triggering Criteria — What Does the Data Show?  
Erga Cerchiari, MD  
Prof. Gary Smith

**TRACK II** Precongress International Rapid Response Survey Results  
Francesca Rubulotta, MD  
Christian Subbe, DM

**TRACK III** Multidisciplinary Clinical Research  
Bradford Winters, MD  
John Kellum, MD  
Geoffrey Lighthall, MD  
Sean Clark, RN, PhD

12:15 p.m. **LUNCH**

1:30 p.m. **Concurrent Workshops (Choose one)**

**TRACK I** RRS: Outstanding Research Submissions  
(Presenters to be announced)  
Babak Sarani, MD-Moderator

**TRACK II** Crisis Team Training: Tips for Training Responders and Callers (2 Hours)  
Geoffrey Lighthall, MD  
Elizabeth Hunt, MD  
Randy Wax, MD

**TRACK III** METs and Hospital Culture  
John Ovretveit, PhD-Moderator  
Ken Hillman, MD  
Jeffrey Braithwaite, PhD

2:30 p.m. **TRACK I** RRS: The Year in Review — A Journal Club  
Francesca Rubulotta, MD

**TRACK III** Biostatistics and Data Collection  
Anna Johanson, MD  
Daryl Jones, PhD

3:45 p.m. **BREAK (Visit Exhibits)**

4:00 p.m. **Concurrent Workshops (Choose one)**

**TRACK I** RRS’s for Outpatients and Visitors  
RRS’s Role in Disaster Response  
(Presenters to be announced)  
Babak Sarani, MD  
Randy S. Wax, MD

**TRACK II** Pro/Con Debates — Patients and Families Should be Allowed to Trigger RRS  
William Schweickert, MD  
Michael D. Howell, MD  
Helen Haskell, MA

**TRACK III** Critical Care Outreach — Designing, Staffing and Implementing a CCO Program  
Kathy Duncan, RN  
John Welch, RN

5:00 p.m. **ADJOURNMENT**
Rapid Response Systems and Medical Emergency Teams
Registration Information and Form

Monday and Tuesday
May 10-11, 2010

The registration fees include course materials, continental breakfast, refreshment breaks, lunch and Continuing Education Credits. Registrations will be accepted in the order received. (Registrations will be taken after the deadline date on a space-available basis.)

To Register: Complete the registration form and return it with the registration fee or fax to:
Continuing Medical Education, Allegheny General Hospital
320 East North Avenue, Pittsburgh, Pennsylvania 15212-4772
Fax (412) 359-8218

Register online by going to aghcme.org, available soon.

The preferred method of payment is by VISA, MasterCard, American Express or Discover; however, checks will be accepted made payable to Allegheny General Hospital. All payments must be made in U.S. Dollars.

Name [print name and degree, if applicable, as you wish it to appear on badge]
Degree
Specialty
Hospital or Organization
(Include transportation, dinner and T-shirt.)

Please register me for the following:
Early Registration Deadline: March 1, 2010
q Physicians ................................................................. $450
q Nurses, Residents, Allied Health Professionals ................. $250

After March 1, 2010:
q Physicians ................................................................. $550
q Nurses, Residents, Allied Health Professionals ................. $350
q Sunrise Sessions .......................................................... $50

Please indicate:
q Monday Boxed Lunch .................................................. $25
q Tuesday Boxed Lunch .................................................. $25
I would prefer a vegetarian lunch.  q YES  q NO

Pirate Baseball Tickets:
I would like to reserve ______ tickets @ $40.00 for the Monday night baseball game. (Includes transportation, dinner and T-shirt.)

TOTAL: $______________

Refund Policy
A refund of the registration fee, less $50.00, will be made when a written request or a telephone request (followed by a written confirmation) is received prior to May 1, 2010. After this date, refunds cannot be made. Fees will not be refunded for failure to attend. Substitutes are welcome.

Allegheny General Hospital reserves the right to cancel or postpone any course because of unforeseen circumstances. In the event of such cancellation, full tuition will be refunded.

Method of Payment:

Total Amount $______________

Credit Card:
q Visa  q American Express  q MasterCard  q Discover

Card #: ____________________________ Exp. Date: ____________________________

Name as it appears on card ____________________________
Signature ____________________________

By signing this form, I authorize Allegheny General Hospital to charge my credit card for the above amount. My signature also indicates that I will not dispute this charge in the future through my credit card company.

If you require assistance with hearing, vision or mobility to make this conference accessible to you, please check this box and contact the CME office at (412) 359-4952 two weeks prior to the date of the conference.

Please indicate:
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