

2016 – Preliminary Agenda  
Revised 03/25/16

## PRE-COURSE WORKSHOPS

**THURSDAY, NOVEMBER 3, 2016**

**12:30PM – 3:30PM**

### **PRE-COURSE ECG WORKSHOP #1**

#### **INSTRUCTOR:**

Amal Mattu, MD, FAAEM, FACEP  
Professor and Vice Chair  
Co-Director, Emergency Cardiology Fellowship  
Department of Emergency Medicine  
University of Maryland School of Medicine  
Baltimore, Maryland

#### **Cardiac Ischemia — Classic, Confusing, and Confounding Patterns**

##### Learning Goals:

At the conclusion of this presentation, each participant should be able to:

1. Identify subtle electrocardiogram (ECG) findings in the acute coronary syndrome (ACS) patient that predict an increased risk of morbidity and mortality
2. Distinguish between some common mimics of ACS vs. findings of true ACS on the ECG
3. Identify the findings of bundle branch blocks that help in diagnosis of ACS

#### **The Heart Course - PRE-COURSE #1: Thursday, November 3, 2016**

| Start | End | LENGTH<br>(Minutes) | TOTAL HOURS<br>TOWARDS CME | TOPIC |
|-------|-----|---------------------|----------------------------|-------|
|-------|-----|---------------------|----------------------------|-------|

#### **Cardiac Ischemia - The Classic, Confusing, and Confounding Patterns**

|         |        |                  |       |                                                |
|---------|--------|------------------|-------|------------------------------------------------|
| 12:30PM | 1:45PM | 75               | 1.25  | Acute Coronary Syndromes:<br>Basics and Mimics |
| 1:45PM  | 2:00PM | 15               |       | Break                                          |
| 2:00PM  | 3:30PM | 90               | 1.50  | Acute Coronary Syndromes:<br>Tough Cases       |
|         |        | Total CME Hours  | 2.75  |                                                |
|         |        | Course Aggregate | 28.75 |                                                |

**THURSDAY, NOVEMBER 3, 2016**

**4:30PM – 7:30PM**

### **PRE-COURSE ECG WORKSHOP #2**

#### **INSTRUCTOR:**

Amal Mattu, MD, FAAEM, FACEP  
Professor and Vice Chair  
Co-Director, Emergency Cardiology Fellowship  
Department of Emergency Medicine  
University of Maryland School of Medicine  
Baltimore, Maryland

## Diagnosis and Management of Tough Dysrhythmias

### Learning Goals:

At the conclusion of this presentation, each participant should be able to:

1. Describe a simple series of steps for the diagnosis of tachydysrhythmia
2. Distinguish between the various types of bradyarrhythmias and AV blocks
3. Describe treatment protocols for stable and unstable dysrhythmias

The Heart Course - PRE-COURSE #2: Thursday, November 3, 2016

### Diagnosis and Management of Tough Dysrhythmias

|                  |        |    |       |                       |
|------------------|--------|----|-------|-----------------------|
| 4:30PM           | 5:45PM | 75 | 1.25  | The Bradydysrhythmias |
| 5:45PM           | 6:00PM | 15 |       | Break                 |
| 6:00PM           | 7:30PM | 90 | 1.50  | The Tachydysrhythmias |
| Total CME Hours  |        |    | 2.75  |                       |
| Course Aggregate |        |    | 28.75 |                       |

## DAY 1 – GENERAL COURSE

**FRIDAY, NOVEMBER 4, 2016**

**8:00AM – 5:10PM**

### THE HEART COURSE GENERAL SESSION DAY 1:

### Learning Goals:

After attending The Heart Course, learners will be better able to:

1. Identify the evidence based strategies for the management of patients with acute coronary syndrome (STEMI, and UA/ NSTEMI), atrial fibrillation, heart failure, transient ischemic attack (TIA), stroke, and cerebral hemorrhage
2. Describe the mechanisms of action and optimal evidence based use of new and emerging cardiovascular medications, including new oral anticoagulants (NOAC) therapy and reversal agents
3. Demonstrate state-of-the-art resuscitation strategies for patients presenting with cardiovascular emergencies
4. Evaluate and initiate appropriate treatment strategies for high-risk, high-threat electrocardiography (ECG) findings and unusual dysrhythmias
5. Discuss the emerging data on current and novel biomarkers in the diagnosis, prognosis and treatment of cardiovascular disease
6. Identify optimal antiplatelet and anticoagulant management strategies for patients with acute coronary syndrome (ACS), atrial fibrillation (AF), venous thromboembolism (VTE), and stroke.
7. Determine evidence based best practices in the management of device related emergencies in patients with cardiac disease, including ventricular assist devices (VADs), pacemakers, and implantable cardioverter defibrillators (ICDs)



**The Heart Course - DAY 1 General Session: Friday, November 4, 2016**

| START   | END     | LENGTH<br>(Minutes) | CME   | TOPIC                                                                 |
|---------|---------|---------------------|-------|-----------------------------------------------------------------------|
| 8:00AM  | 8:10AM  | 10                  |       | Opening Remarks                                                       |
| 8:10AM  | 8:45AM  | 35                  | 0.58  | C before A: Cardiac arrest                                            |
| 8:45AM  | 9:15AM  | 30                  | 0.50  | Wide and Fast: Initial Management                                     |
| 9:15AM  | 9:45AM  | 30                  | 0.50  | Narrow and Fast: Initial Management                                   |
| 9:45AM  | 10:30AM | 45                  | 0.75  | Pump DOWN the volume: Acute heart failure                             |
| 10:30AM | 10:45AM | 15                  |       | BREAK                                                                 |
| 10:45AM | 11:30AM | 45                  | 0.75  | ECG Workshop                                                          |
| 11:30AM | 12:15PM | 45                  | 0.75  | Broken, burned, and buzzed: Cardiovascular Potpourri                  |
| 12:15PM | 1:15PM  | 60                  |       | LUNCH                                                                 |
| 1:15PM  | 2:00PM  | 45                  | 0.75  | Risky business: Chest pain risk stratification                        |
| 2:00PM  | 2:30PM  | 30                  | 0.50  | The only chest pain worse than MI: Aortic dissection                  |
| 2:30PM  | 3:05PM  | 35                  | 0.58  | A shocking failure: Acute cardiogenic shock                           |
| 3:05PM  | 3:20PM  | 15                  |       | BREAK                                                                 |
| 3:20PM  | 3:50PM  | 30                  | 0.50  | Don't just do something, stand there: Managing hypertension in the ED |
| 3:50PM  | 4:20PM  | 30                  | 0.50  | Fainting dead away: Cardiogenic syncope                               |
| 4:20PM  | 4:40PM  | 20                  | 0.33  | VAD Emergencies: Awake and Alert but No Pulse                         |
| 4:40PM  | 5:10PM  | 30                  | 0.50  | Day 1 - Review and Faculty Q&A                                        |
|         |         |                     |       | Course Concludes - Day 1                                              |
|         |         | Total CME Hours     | 7.50  |                                                                       |
|         |         | Course Aggregate    | 28.75 |                                                                       |

**DAY 2 – GENERAL COURSE**

**SATURDAY, NOVEMBER 5, 2016**

**8:00AM – 5:00PM**

**THE HEART COURSE GENERAL SESSION DAY 2:**

**The Heart Course - DAY 2 General Session: Saturday, November 5, 2016**

| START   | END     | LENGTH<br>(Minutes) | CME  | TOPIC                                                              |
|---------|---------|---------------------|------|--------------------------------------------------------------------|
| 8:00AM  | 8:45AM  | 45                  | 0.75 | Irregularly Irregular: 2015 Best Practices for Atrial Fibrillation |
| 8:45AM  | 9:15AM  | 30                  | 0.50 | When gadgets go haywire: Device Emergencies                        |
| 9:15AM  | 9:50AM  | 35                  | 0.58 | RUSH to find a CAUSE: Cardiac ultrasound basics                    |
| 9:50AM  | 10:05AM | 15                  |      | BREAK                                                              |
| 10:05AM | 10:50AM | 45                  | 0.75 | Novel Oral Anticoagulants and Reversal Agents                      |



## THE heart course

Emergency Cardiovascular Care  
For the Frontline Provider



|                   |         |    |       |                                                                      |
|-------------------|---------|----|-------|----------------------------------------------------------------------|
| 10:50AM           | 11:10AM | 20 | 0.33  | What's new in ACS? STEMI                                             |
| 11:10AM           | 11:30AM | 30 | 0.50  | What's new in ACS? NSTEMI                                            |
| 11:30AM           | 12:30PM | 60 |       | LUNCH                                                                |
|                   |         |    |       | Break me off a piece of that D-V-T: Pulmonary embolism               |
| 12:30PM           | 1:10PM  | 40 | 0.67  |                                                                      |
| 1:10PM            | 1:50PM  | 30 | 0.50  | TIAs and tingleopathies                                              |
|                   |         |    |       | TPA and friends: Acute ischemic stroke management                    |
| 1:50PM            | 2:20PM  | 30 | 0.50  |                                                                      |
| 2:20PM            | 2:35PM  | 15 |       | BREAK                                                                |
|                   |         |    |       | Deceptive and deadly: Posterior circulation stroke                   |
| 2:35PM            | 3:05PM  | 30 | 0.50  |                                                                      |
| 3:05PM            | 3:35PM  | 30 | 0.50  | To LP or not to LP, that is the question                             |
| 3:35PM            | 3:50PM  | 15 |       | BREAK                                                                |
|                   |         |    |       | Setting the pace: Transcutaneous and transvenous pacing              |
| 3:50PM            | 4:25PM  | 35 | 0.58  | Don't be insensitive: Next-generation troponins and novel biomarkers |
| 4:25PM            | 5:05PM  | 40 | 0.67  |                                                                      |
| 5:05PM            | 5:30PM  | 25 | 0.42  | Faculty Review and Q & A                                             |
|                   |         |    |       | Course Concludes - Day 2                                             |
| Total CME Minutes |         |    | 7.75  |                                                                      |
| Course Aggregate  |         |    | 28.75 |                                                                      |

### POST-COURSE WORKSHOPS

#### POST-COURSE ECHO WORKSHOP #1:

##### The Cardiopulmonary Workshop:

**November 6, 2016**

**8:00am – 12:15pm**

##### ***INSTRUCTORS:***

Haney A. Mallemat, MD  
Assistant Professor of Emergency Medicine  
University of Maryland School of Medicine  
Baltimore, MD

Frances M Russell, MD, RDMS  
Assistant Professor of Emergency Medicine  
Indiana University School of Medicine  
Indianapolis, IN

The goal of the cardiopulmonary workshop is to rapidly assess patients with chest pain or dyspnea using ultrasound. The primary focus of this workshop will be learning to adequately image the heart, lungs, thoracic space, and inferior vena cava (IVC). By the end of the workshop the participants should be able to:

- Learn the four basic views of the heart, lungs, and IVC
- Review clips with pathology
- Identify an algorithm to evaluating the patient with chest pain or dyspnea



**REGISTRATION FEE:**

The registration fee for the post-course workshop is \$350. A minimum of 16 will need to register in order for the post-course workshop to be held and registrations will be cut off at 20. A full refund will be provided if the workshop does not occur. Confirmations will be sent early September.

**Post-Course Echo Workshop: *The Cardiopulmonary Workshop:***

The Heart Course: POST-COURSE #1: Sunday, November 6, 2016

***The Cardiopulmonary Workshop***

| START            | END     | LENGTH<br>(Minutes) | CME   | TOPIC                                                                                                                                                                                            |
|------------------|---------|---------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8:00AM           | 8:30AM  | 30                  | 0.50  | Cardiopulmonary Workshop Overview and Review of Objectives                                                                                                                                       |
| 8:30AM           | 8:45AM  | 15                  | 0.25  | The Basics of Bedside Echocardiography                                                                                                                                                           |
| 8:45AM           | 9:45AM  | 60                  | 1.00  | Hands-on Skill Stations <ul style="list-style-type: none"> <li>- Parasternal Long-axis</li> <li>- Parasternal Short-axis</li> <li>- Apical four-chamber</li> <li>- Subxiphoid and IVC</li> </ul> |
| 9:45AM           | 10:15AM | 30                  | 0.50  | Focused Lung Ultrasound and Vascular Access                                                                                                                                                      |
| 10:15AM          | 11:15AM | 60                  | 1.00  | Hands-on Skill Stations <ul style="list-style-type: none"> <li>- Lung Ultrasound</li> <li>- Vascular Access</li> </ul>                                                                           |
| 11:15AM          | 11:25AM | 10                  |       | Break                                                                                                                                                                                            |
| 11:25AM          | 12:15PM | 50                  | 0.83  | Integration and Pathology: Hands-on stations and pathology clips                                                                                                                                 |
| 12:15PM          |         |                     |       | Post-Course Workshop Concludes                                                                                                                                                                   |
| Total Credits    |         |                     | 4.00  |                                                                                                                                                                                                  |
| Course Aggregate |         |                     | 28.75 |                                                                                                                                                                                                  |

**POST-COURSE ECHO WORKSHOP #2:**

***Ultrasound for Hypotension and Vascular Access Workshop:***

**November 6, 2016**

**1:00pm – 5:15pm**

**INSTRUCTORS:**

Haney A. Mallemat, MD  
Assistant Professor of Emergency Medicine  
University of Maryland School of Medicine  
Baltimore, MD

Frances M Russell, MD, RDMS  
Assistant Professor of Emergency Medicine  
Indiana University School of Medicine  
Indianapolis, IN



The goal of this workshop is for clinicians to rapidly assess patients with hypotension, as well as learn the skills to safely and effectively perform ultrasound-guided vascular access. The primary focus of this workshop will be learning to adequately image the abdomen for free fluid, the lower extremities for evidence of DVT, the aorta for aneurysm, and learning to perform ultrasound-guided central and peripheral venous cannulation.

By the end of the workshop the participants should be able to:

- Identify the areas to look for free fluid in the abdomen
- Perform a lower extremity DVT ultrasound examination
- Evaluate the abdominal aorta for evidence of aneurysm
- Identify an algorithm to evaluating patients with hypotension
- Utilize ultrasound for safer and more efficient central and peripheral vascular access

#### **REGISTRATION FEE:**

The registration fee for the post-course workshop is \$350. A minimum of 16 will need to register in order for the post-course workshop to be held and registrations will be cut off at 20. A full refund will be provided if the workshop does not occur. Confirmations will be sent early September.

#### **Post-Course Echo Workshop: *Ultrasound for Hypotension and Vascular Access Workshop:***

The Heart Course: POST-COURSE #2: Sunday, November 6, 2016

#### ***Ultrasound for Hypotension and Vascular Access Workshop***

| START  | END    | LENGTH<br>(Minutes) | CME   | TOPIC                                         |
|--------|--------|---------------------|-------|-----------------------------------------------|
| 1:00PM | 1:30PM | 30                  | 0.50  | Introduction to Ultrasound in Hypotension     |
| 1:30PM | 1:50PM | 20                  | 0.33  | FAST (Abdominal) Ultrasound                   |
| 1:50PM | 2:15PM | 25                  | 0.42  | Hands-on Skill Stations<br>- FAST             |
| 2:15PM | 2:35PM | 20                  | 0.33  | Aorta Ultrasound                              |
| 2:35PM | 3:00PM | 25                  | 0.42  | Hands-on Skill Stations<br>- Aorta            |
| 3:00PM | 3:10PM | 10                  |       | Break                                         |
| 3:10PM | 3:30PM | 20                  | 0.33  | DVT Ultrasound                                |
| 3:30PM | 3:50PM | 20                  | 0.33  | Vascular Access                               |
| 3:50PM | 5:15PM | 85                  | 1.42  | Hands-on Skill Stations<br>- Station Rotation |
| 5:15PM |        |                     |       | Post-Course Workshop Concludes                |
|        |        | Total Credits       | 4.00  |                                               |
|        |        | Course Aggregate    | 28.75 |                                               |

#### **POST-COURSE BREAKOUT #1:**

#### **Advanced Practice Provider – Small Group Chest Pain Cases Breakout:**

**November 6, 2016**  
**9:00am – 10:00am**

**INSTRUCTOR:**

**Amer Z. Aldeen, MD, FACEP**

Medical Director, Emergency Department  
Presence St. Joseph Medical Center, Joliet IL  
Emergency Medicine Physicians, Ltd.  
Director, Chicago Cardiac Arrest Resuscitation Education Service

The goal of the APP Chest Pain Cases workshop is to develop a differential diagnosis of chest pain and pursue management strategies based on most likely diagnosis as well as worst-case scenario. Quality of care, patient safety, and efficient resource utilization will be stressed. The small group format will foster active discussion of cases and Q&A, rather than a straight, lecture-based format.

By the end of the workshop, participants will be able to:

- List a differential diagnosis of chest pain appropriately tailored for age and risk factors
- Articulate their thinking process when evaluating a patient with chest pain.
- State the utility and limitations of common diagnostic studies used for chest pain
- List evidence-based strategies for management of chest pain even without diagnostic certainty
- Indicate specific pitfalls in the diagnosis and management of chest pain

**REGISTRATION FEE:**

The registration fee for the breakout session is \$79. A minimum of 5 will need to register in order for the post-course workshop to be held and registrations will be cut off at 10. A full refund will be provided if the workshop does not occur. Confirmations will be sent early September.

The Heart Course: Breakout Session #1: Sunday, November 6, 2016

**Advanced Practice Provider - Small Group Chest Pain Cases Breakout**

| START  | END     | LENGTH<br>(Minutes) | CME   | TOPIC                |
|--------|---------|---------------------|-------|----------------------|
| 9:00AM | 10:00AM | 60                  | 1.00  | APP Chest Pain Cases |
|        |         | Total Credits       | 1.00  |                      |
|        |         | Course Aggregate    | 28.75 |                      |

**POST-COURSE BREAKOUT #2:**

**Emergency Medicine Board Exam Review Breakout:**

**November 6, 2016**

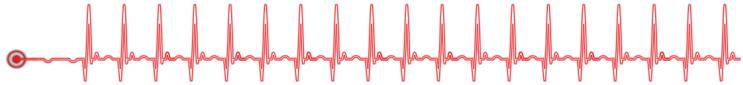
**10:30am – 11:30am**

**INSTRUCTOR:**

**Amer Z. Aldeen, MD, FACEP**

Medical Director, Emergency Department  
Presence St. Joseph Medical Center, Joliet IL  
Emergency Medicine Physicians, Ltd.  
Director, Chicago Cardiac Arrest Resuscitation Education Service

The goal of the Emergency Medicine Board Review is to provide cardiovascular emergency cases and accompanying open-ended questions as a study aid for ABEM's certifying examination. Many



cases involve interpretation of an image, such as ECGs, chest X-rays, and physical examination findings. The session will involve multiple cases in a discussion-style format with active audience participation and Q&A

By the end of the workshop, participants will be able to:

- Interpret critical ECGs and know appropriate management
- Interpret history and physical exam findings characteristic of specific, uncommon cardiovascular emergencies
- Learn new strategies for multiple-choice test-taking, including avoiding pitfalls

**REGISTRATION FEE:**

The registration fee for the breakout session is \$99. A minimum of 10 will need to register in order for the post-course workshop to be held and registrations will be cut off at 30. A full refund will be provided if the workshop does not occur. Confirmations will be sent early September.

The Heart Course: Breakout Session #2: Sunday, November 6, 2016

**Emergency Medicine Board Exam Review Breakout**

| START   | END     | LENGTH<br>(Minutes) | CME   | TOPIC                           |
|---------|---------|---------------------|-------|---------------------------------|
| 10:30AM | 11:30AM | 60                  | 1.00  | Emergency Medicine Board Review |
|         |         | Total Credits       | 1.00  |                                 |
|         |         | Course Aggregate    | 28.75 |                                 |