Cardiovascular Disorders

- **Transvenous Pacemaker Lab**
  10/27/2019 8:00 AM - 10:00 AM
  SU-4
  *Faculty: Jared D. Novack, MD, FACEP (Moderator); Tsuyoshi Mitarai, MD, FACEP*
  Patients with unstable bradycardias frequently require insertion of a transvenous pacemaker as part of their initial ED resuscitation. Although this is a relatively common procedure in the hospital setting, it isn’t done all that often in the emergency department. The procedure for insertion of a transvenous pacemaker is straightforward, but creates quite a bit of anxiety for providers who haven’t inserted one in a while. This lab will teach you the steps of pacemaker insertion & what to do once it has been placed. Participants completing this workshop will gain confidence in taking care of this group of critically ill patients. (This Lab is limited to 25 participants.)

- **Myocardial Ischemia & Mimics: ECG Cases**
  10/27/2019 11:30 AM - 1:30 PM
  SU-17
  *Faculty: Amal Mattu, MD, FACEP*
  One of the first priorities in ECG analysis is to look for patterns of injury. Myocardial ischemia can be subtle on an ECG & can be mimicked by several pathological processes. The speaker will focus on a diagnostic approach to the recognition of myocardial ischemia. Differentiation from other diseases & normal variants also will be reviewed. By the time you are finished, you won’t be fooled by mimickers of ischemia, & recognition of acute coronary syndromes on ECG will be second nature.

- **Pain in the Neck: Diagnosis & Treatment of Vertebral & Carotid Dissections**
  10/27/2019 12:00 PM - 12:25 PM
  SU-20
  *Faculty: Kathleen E. Walsh, DO*
  Arterial neck vessel dissections can have profound neurological implications leading to classic stroke pictures clinically. The treatment of dissections of the neck vessels & classic embolic strokes are very different. Join the speaker in defining the disease of arterial neck dissections in the realm of pathophysiology & etiology as well as when to suspect & just as importantly, when & how to treat.
Courses by Track

• Transvenous Pacemaker Lab
  10/27/2019 12:30 PM - 2:30 PM
  SU-34
  Faculty: Jared D. Novack, MD, FACEP (Moderator); Tsuyoshi Mitarai, MD, FACEP

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• STEMI Reperfusion Therapy in a Non-Invasive Facility: What Should I Do?
  10/27/2019 1:30 PM - 1:55 PM
  SU-44
  Faculty: Cameron K. Berg, MD, FACEP

Time to reperfusion is paramount in STEMI. When patients present to non-PCI facilities, the selection of the most appropriate reperfusion strategy is not always easy. The speaker will discuss the current guidelines & review recent literature identifying an evidence-based decision making strategy for patient management.

• Hypertensive Emergencies: Drugs, Drips & Drops
  10/27/2019 2:00 PM - 2:25 PM
  SU-53
  Faculty: Philip H. Shayne, MD, FACEP

Hypertension is an extremely common condition that is treated by emergency physicians on a daily basis. Several hypertensive emergencies necessitate the use of antihypertensive drip medications. The speaker will highlight common hypertensive emergencies & what antihypertensive drip medications to use. Useful pearls & pitfalls when dealing with the hypertensive patient will also be discussed.

• Code Talkers: A Point-Counterpoint Dialogue of Cardiac Arrest Management & What They Don’t Teach in ACLS
  10/27/2019 3:30 PM - 4:20 PM
  SU-64
  Faculty: Haney Mallemet, MD; Corey Slovis, MD

Confusion about cardiac arrest management & recent recommendations? Are there different interpretations of the guidelines & approaches to cardiac arrest care? This course is a friendly (and possibly not so friendly), high-level, dialogue of the major management strategies in the patient with cardiac arrest in the ED. The various issues discussed will include the importance of chest compressions & what CPR technique to employ, early defibrillation, airway management (when & if it is needed), the use of cardioactive (the “code drugs”) medications, early post-resuscitative care, & factors influencing the decision to terminate resuscitative efforts.
• Transvenous Pacemaker Lab
10/27/2019 3:30 PM - 5:30 PM
SU-71

Faculty: Jared D. Novack, MD, FACEP (Moderator); Tsuyoshi Mitarai, MD, FACEP

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• Big Red in Big Trouble: Aortic Disasters
10/27/2019 3:30 PM - 4:20 PM
SU-63

Faculty: George C. Willis, MD, FACEP

While aortic emergencies are relatively rare their associated morbidity & mortality is high, making recognition & management a mandatory competency for the emergency clinician. Ruptured abdominal aortic aneurysm, aortic dissection, & traumatic aortic injury are highly lethal so early recognition & intervention are fundamental to improving outcomes.

• Acute Limb Ischemia: Red, White, or Blue - What to Do?
10/27/2019 4:00 PM - 4:25 PM
SU-72

Faculty: Deborah B. Diercks, MD, MSc, FACEP

Time is critical when caring for the cold, hypoperfused extremity. Venous & arterial occlusion are managed differently & it is imperative that providers identify the cause early & differentiate them correctly. Join the speaker as they discuss how to quickly determine whether limb ischemia is caused by venous or arterial occlusion & which interventions are needed to “salvage that leg”.

• Acute Decompensated Heart Failure: Time Critical Interventions
10/27/2019 4:30 PM - 5:30 PM
SU-80

Faculty: Amal Mattu, MD, FACEP

The treatment of congestive heart failure (CHF) has remained relatively static for years. Not anymore! Utilization of cardiac biomarkers assists in both the diagnosis & treatment of CHF. The presenter will focus on cutting-edge therapies for decompensated CHF such as high-dose nitroglycerin, ACE inhibitors, & noninvasive ventilation. Using aggressive management protocols not only reduces morbidity & mortality in the short-term but long-term in the form of reduced re-admission rates.
• **ECG in Syncope**  
  10/27/2019 4:30 PM - 5:30 PM  
  SU-82  
  *Faculty: Kathleen E. Walsh, DO*  
  The ECG is an essential tool not only for arrhythmia detection & analysis but can also risk stratify for disorders like syncope. Having the tools to diagnose a dysrhythmia is essential for the emergency physician with implications of not only treatment but disposition as well. Using a case-based approach, the speaker will review advanced dysrhythmia analysis.

• **Non-Traditional AMI Presentations: Don't Miss the Diagnosis**  
  10/28/2019 8:00 AM - 8:50 AM  
  MO-99  
  *Faculty: Amal Mattu, MD, FACEP*  
  Atypical presentations of ACS are medical & legal challenges. Groups at higher risk of these unusual presentations include extremes of age, female gender, & those with comorbid disease such as diabetes. These patient presentations are reviewed highlighting key caveats & pitfalls.

• **Atrial Fibrillation Update 2019: Don't Miss a Beat**  
  10/28/2019 9:00 AM - 9:25 AM  
  MO-111  
  *Faculty: Corey M. Slovis, MD, FACEP*  
  Atrial fibrillation is the most common arrhythmia seen in emergency department patients. Several important clinical issues arise when discussing this important arrhythmia. First, is rate control superior to rhythm control? When & should patients with atrial fibrillation be cardioverted? What is the best rate control agent in clinical practice? When should patients be anticoagulated? Can patients receive cardioversion & then be discharged home? These questions & more will be discussed by the speaker who will review the pertinent findings of the 2014 Atrial Fibrillation Guidelines from the American College of Cardiology (ACC).

• **Catch 22: Treating the Hypotensive Heart Failure Patient**  
  10/28/2019 10:00 AM - 10:25 AM  
  MO-128  
  *Faculty: Peter M. DeBlieux, MD, FACEP*  
  Fluids for the failing heart or withhold? Pressors? Which one - Inotropes, Chronotropes? The speaker will discuss approaches to managing patients in cardiogenic shock. Review recent literature & current guidelines on inotropic, vasoactive, diuretic, & other agents that optimize the odds for saving these complex, high-risk patients.
• Rapid AMI Diagnosis: Has the One Hour Rule Out Finally Arrived?
  10/28/2019 10:00 AM - 10:25 AM
  MO-129
  Faculty: Semhar Z. Tewelde, MD
  The time to ruling out AMI keeps shortening with recent studies evaluating the sensitivity of a 1-hour rule out. The
  speaker will review the recent literature for rapid AMI rule outs & arm participants with the best evidence for bringing this
  practice to their EDs.

• VADs, Vests, & Zaps: Managing Malfunctioning Cardiac Devices
  10/28/2019 10:30 AM - 10:55 AM
  MO-140
  Faculty: Cameron K. Berg, MD, FACEP
  Many patients have cardiac devices such as LVADs, defibrillator vests, & internal cardiac defibrillators. Are you prepared to
  manage these patients when their devices go bad? Join the speaker in understanding the components of these devices &
  the potential problems with dysfunction. Explore how to troubleshoot the these devices with specific guidelines &
  recommendations.

• From Paper to Patient: Recent Advances in Emergency Electrocardiography That Will
  Save a Life
  10/28/2019 12:30 PM - 1:20 PM
  MO-148
  Faculty: Amal Mattu, MD, FACEP
  Tremendous advances have been made in the field of electrocardiography in the past several years. We are now able to
  detect subtleties that may literally mean either detection of disease and/or changing management that can save lives. Join
  this expert in finding & utilizing electrocardiographic pearls buried in years of bench studies. Once you have finished this
  review, you will have skills in new & improved methods of ECG analysis & the literature to back you up.

• Cruising the Literature: Cardiology 2019
  10/28/2019 1:30 PM - 2:20 PM
  MO-167
  Faculty: Corey M. Slovis, MD, FACEP
  Medical journals abound with cardiology articles, & numerous multi-center trials have recently been published. New drugs
  are being introduced, existing medications have changing indications, & diagnostic & management strategies are being
  evaluated. Which of these articles should you integrate into your practice? The speaker will review the most important
  cardiology articles from the past year’s literature that will directly impact your patients.
• Medication Use in Cardiac Arrest: Do Any of These Meds Really Do Any Good?
10/28/2019 2:00 PM - 2:25 PM
MO-173
Faculty: Kevin C. Reed, MD, FACEP
The benefits & drawbacks of medication administration during cardiac arrest has been long debated. The speaker will review the latest literature on the "Code Meds," medications such as epinephrine, amiodarone, lidocaine, etc., for cardiac arrest management & compare these findings to the guidelines. Practical strategies for optimizing medication utilization during resuscitation will be presented.

• Crazy Cardiac Cases - Causing Chaos & Creating Controversy: ACEP Connect
10/28/2019 3:30 PM - 4:20 PM
MO-183
Faculty: Cameron K. Berg, MD, FACEP; Deborah B. Diercks, MD, MSc, FACEP; Jeffrey Tabas, MD, FACEP
You think you have what it takes to solve some of emergency medicine’s toughest cardiac cases? Join the speakers in a case by case format of complicated cardiology cases that are sure to baffle & create controversy. Complicated ECGs, atypical presentations, & management issues will be discussed in a series that will be sure to challenge your knowledge & skills.

• A Subtle & Deadly Presentation: Myocarditis
10/28/2019 4:00 PM - 4:25 PM
MO-192
Faculty: Trevor Lewis, MD
Myocarditis occasionally presents in straightforward fashion with chest pain & pulmonary congestion, with or without dysrhythmia. However, myocarditis can also present subtly & can mimic either gastrointestinal or respiratory viral illness. The speaker will review the presentations & diagnostic strategies you need to identify this deadly diagnosis.

• Crashing Patient: Pearls for the Pre- & Post-arrest Period
10/28/2019 4:30 PM - 5:30 PM
MO-206
Faculty: Peter M. DeBlieux, MD, FACEP
Most patients in cardiac arrest have a dismal prognosis regardless of their management. On the other hand, it is the patient in the peri-arrest period – the “crashing patient” – in whom a significant improvement in outcome can be achieved. The speaker will discuss some critical considerations & interventions for patients who are in the pre- & post-cardiac arrest period that can result in the difference between life & death.
• **Severe, Asymptomatic Hypertension: Don’t Just Do Something! Stand There**  
  10/28/2019 5:00 PM - 5:30 PM  
  MO-211  
  *Faculty: Philip H. Shayne, MD, FACEP*  
  How many times a day do we see an elevated blood pressure recorded on a patient's chart? When should you treat it, & when should you refer the patient for follow-up? Should a patient be started on antihypertensive medications or a new one added to the regimen? Based on the latest literature, the speaker will discuss the spectrum of hypertensive disease, particularly asymptomatic hypertension, & its ED evaluation & treatment.

• **Syncope With a Lethal Twist**  
  10/29/2019 8:30 AM - 8:55 AM  
  TU-228  
  *Faculty: Trevor J. Lewis, MD, FACEP*  
  Life-threatening conditions can present as fainting or syncope in children & young adults. Patients often present to the ED with no complaints after a syncopal episode. If not identified appropriately, these conditions can result in morbidity & death. Using a case-based approach, the speaker will discuss how to identify these rare but important syndromes including, subarachnoid hemorrhage, subaortic stenosis, congenital heart disease, pulmonary embolus, & aortic dissection.

• **The Heart of the Matter - Risk Stratification Tools, Cardiac Imaging, & Latest Treatments: ACEP Connect**  
  10/29/2019 9:00 AM - 9:50 AM  
  TU-240  
  *Faculty: Deborah B. Diercks, MD, MSc, FACEP; Jeffrey Tabas, MD, FACEP; Semhar Z. Tewelde, MD*  
  Despite billions of dollars in research & resultant litigation, acute coronary syndromes remain a leading cause of death & medical malpractice. The practicing clinician now has the ability to utilize risk scores & imaging modalities to not only risk stratify patients for ACS, but to impact patient management decisions. Join the speakers in discussing the utility of specific risk stratification tools, how to optimize the use of imaging in the cardiac patient, & which therapies need to be administered emergently to your patients with ACS for maximum benefit.

• **Cardiac Tamponade: It Isn't a Thrill to Have No Fill**  
  10/29/2019 9:30 AM - 9:55 AM  
  TU-241  
  *Faculty: Jennifer M. Wilson, MD*  
  Cardiac tamponade is deadly & emergent intervention is required. The death spiral can be protracted however, & the emergency provider must learn a systematic approach & the appropriate interventions that account for their different stages of descent.
• **Wide & Whacked Tachycardias: A Rational Approach to Diagnosis & Management of Wide Complex Tachycardia**
  10/29/2019 10:30 AM - 10:55 AM
  TU-260
  *Faculty: Tarlan Hedayati, MD, FACEP*
  Wide complex tachycardia can make the most experienced emergency provider sweat. Combining current evidence & a rational approach to diagnosis & management, the speaker will discuss how best to care for these patients while maximizing the opportunity for rhythm diagnosis.

• **Therapy for STEMI: Update 2019**
  10/29/2019 12:30 PM - 12:55 PM
  TU-264
  *Faculty: Tarlan Hedayati, MD, FACEP*
  Outcomes in patients with ST elevation myocardial infarction (STEMI) have improved significantly over the past decade. Each year new therapies are developed & existing therapies modified to improve outcome in these patients. The speaker will review the support for the use of therapies specific to STEMI, such as reperfusion strategies, antiplatelet agents, anticoagulation medications, & antithrombin therapies.

• **Advanced Recognition & Treatment of Bradycardias & Blocks**
  10/29/2019 2:00 PM - 2:25 PM
  TU-292
  *Faculty: Tarlan Hedayati, MD, FACEP*
  During this course, the speaker will present a brief overview of the practical anatomy & physiology relevant to bradyarrhythmias. This will be followed by a review of identification, management, & disposition of patients with bradyarrhythmias, conduction blocks, & drug electrolyte-induced cases. An interactive session of clinical cases & ECGs also will be included. Particular emphasis will be placed on accepted management modalities, & comments will be made on therapeutic controversies.

• **Cardiology Pearls at a Regular, Rapid Rhythm: FAST FACTS**
  10/29/2019 4:30 PM - 5:30 PM
  TU-328
  *Faculty: Frosso J. Adamakos, MD; Michelle Lall, MD, FACEP; Semhar Z. Tewelde, MD*
  There is more to cardiovascular care than ECGs & troponins. The speakers will present rapid fire topics ranging from the management of the heart transplant patient in the ED & complex atrial fibrillation in critically ill patients to a rational diagnosis to AMI in the patient with LBBB.
• **The Forgotten Bundle: RBBB & STEMI Equivalents**  
  10/29/2019 5:00 PM - 5:30 PM  
  TU-344  
  *Faculty: Christopher Hahn, MD*

  A new RBBB typically does not set off the same alarms for AMI but recent evidence suggests that in certain circumstances it should - new RBBB with left anterior fascicular block. The presenter will review recently elucidated STEMI equivalents on ECG using both lecture & musical form.

• **When Tickers Start to Flicker: Critical Pacemaker Malfunctions**  
  10/29/2019 5:00 PM - 5:30 PM  
  TU-324  
  *Faculty: Kevin C. Reed, MD, FACEP*

  While rare, pacemaker complications can become life-threatening if not recognized & acted upon quickly. By reviewing cases & their accompanying ECG's, clinicians will gain valuable tools in evaluating & treating patients with symptoms concerning for critical pacemaker malfunctions.

• **Therapy For NSTEMI: Update 2019**  
  10/30/2019 9:00 AM - 9:25 AM  
  WE-329  
  *Faculty: Tarlan Hedayati, MD, FACEP*

  A number of established & new therapies exist in the management of patients with non-ST elevation myocardial infarction & unstable angina. Every year however, these therapies are updated or changed completely. The speaker will review the most recent literature on risk stratification & treatment of NSTEMI. Therapies, such as heparin, nitrates, antiplatelet agents, antithrombins, & percutaneous coronary interventions will be reviewed, using the latest literature & guidelines.

• **Cardiomyopathy: Confusing Cardiac Cases**  
  10/30/2019 11:30 AM - 11:55 AM  
  WE-378  
  *Faculty: Michelle Lall, MD, FACEP*

  Cardiomyopathies are diverse in cause & presentation. Emergency providers often have the first opportunity to identify the disease & help prevent lethal complications. The speaker will review these uncommon & perplexing patients including those suffering from stress, post partum, hypertrophic, & restrictive cardiomyopathies.