

## **Study Points**

### **MyEMSCert: Cardiovascular Emergencies**

#### **Chest Pain**

- Management of chest pain and related treatment interactions

#### **Myocardial Infarction**

- Prehospital evaluation and management of patients with STEMI
- Systems of care for STEMI
- Health care system components that are associated with improved outcomes in STEMI
- Importance of bypassing non-PCI hospitals in a STEMI system of care
- Understand the importance of reciprocal changes when interpreting an ECG for the presence of STEMI
- Precautions with regards to the administration of nitroglycerin in STEMI
- Therapeutic interventions for acute STEMI

#### **Dyspnea and Congestive Heart Failure**

- Differential diagnosis of shortness of breath
- Causes of heart failure
- Characteristics of respiratory distress specific to acute decompensated heart failure
- Treatment of acute decompensated heart failure
- Pre-hospital treatment and clinical presentation of sympathetic crashing acute pulmonary edema (SCAPE)
- Point-of-care ultrasound findings of acute pulmonary edema
- Physiologic effects and use of high dose nitroglycerin in EMS

#### **Devices**

- Assessment and management of patients with pacemakers
- Implantable cardioverter defibrillators
- Assessment and management of patients with left ventricular assist devices (LVAD)
- Understand potential problems that may be associated with LVADs
- Intra-aortic balloon pump function and management during transport
- Indications for ECMO

#### **Protocols and Regulations**

- Legal aspects of EMS
- The impact of destination policies within EMS protocols
- Understand the risks and benefits associated with the use of lights and sirens
- Requirements for hospital designation within a Trauma System of Care
- Understand the difference between the designation and verification of trauma centers
- Injury Severity Scores and Trauma Triage
- Purpose and role of statutes in EMS
- The difference between education, certification, licensure, and credentialing
- Injury Prevention and the 4E's (Education, Enforcement, Engineering and Equity)