



CARDIOVASCULAR ACUTE CARE ESSENTIAL EDUCATION SERIES

12 CME CREDITS

QUESTIONS AND ASSISTANCE

For technical support, please contact: tech_support@medaxiom.com

For course questions or assistance, please contact: academy@medaxiom.com

COURSE DESCRIPTION

This 6-part course is designed to educate clinicians on cardiovascular acute care essentials. Whether a clinician is shifting from a cardiovascular practice to an acute care setting or is transitioning from primary care or another specialty to cardiology, this course will help them succeed. It was developed by Ginger Biesbrock, PA-C, MPH, MPAS, AACC, a physician assistant and university instructor, and Jerry Blackwell, MD, MBA, FACC, who has more than 30 years of clinical experience specializing in advanced imaging.

The course incorporates video, textbook and online learning to cover these essential cardiovascular acute care topics:

- Chest Pain Evaluation in Emergency Department
- Managing Atrial Fibrillation in the ED or Hospital Setting
- ST-Elevation Myocardial Infarction
- Non-ST-Elevation Myocardial Infarction
- Congestive Heart Failure
- Acute Lower Extremity Ischemia

Note: Access to quizzes and instructors has been extended to 12 months after the start of the course due to the COVID-19 pandemic.

COURSE GOALS

- **For Clinicians:**
 - Develop an understanding of the management of common cardiovascular conditions seen in the acute care setting
 - Review current guideline-driven therapies for common cardiovascular conditions seen in the acute care setting
- **For Employers of Clinicians:**
 - Provide clinical competency assurance on guideline-driven management of common cardiovascular conditions seen in the acute care setting. Ensure CV care team members have been provided up-to-date diagnosis and management plans based on clinical guidelines for CV acute care conditions.

REQUIRED TEXTS, MATERIALS, OR EQUIPMENT



- Internet access to include audio and visual
- Links for all required reading materials will be provided for each module
- UpToDate access is optional

THE METHODOLOGY

Each weekly lesson has a 20-30 minute didactic video detailing the week’s focus followed by assigned reading.

EXPLANATION OF CREDITS

Total CME Credit Value: 12 AMA PRA Category 1 Credits. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Schedule of Topics, Learning Objectives and Readings

TOPIC #	TOPIC/LEARNING OBJECTIVES/REQUIRED READINGS
1	<p>Topic: Chest Pain Evaluation in Emergency Department</p> <p><i>Learning Objectives:</i></p> <ol style="list-style-type: none"> 1. Develop an understanding of current chest pain management for patients that present to the emergency department 2. Review chest pain risk stratification protocols that can be applied to common practice 3. Develop an understanding of stress test options and which modality for which clinical scenario <p><i>Required Readings:</i></p> <ol style="list-style-type: none"> 1. The Fast and Furious: Low-Risk Chest Pain and the Rapids Rule-out Protocol 2. The Heart Score – A Guide to its Application in the Emergency Department <p><i>Optional Readings:</i></p> <ol style="list-style-type: none"> 1. Evaluation of the adult with chest pain in the emergency department (UpToDate) <p><i>CME: 2 Credits</i></p>
2	<p>Topic: Managing Atrial Fibrillation in the ED or Hospital Setting</p> <p><i>Learning Objectives:</i></p> <ol style="list-style-type: none"> 1. Develop an understanding of current atrial fibrillation management for patients that present to the emergency department or develop atrial fibrillation while hospitalized to include stroke prevention, rhythm control, and rate control strategies 2. Review current stroke risk stratification and management 3. Review rate control management 4. Develop an understanding of who should be hospitalized and who can be discharged for outpatient follow-up



	<p><i>Required Readings:</i></p> <ol style="list-style-type: none">1. 2019 AHA/ACC/HRS Focused Update of the 2014 AHA/ACC/HRS Guideline for the Management of Patients With Atrial Fibrillation2. 2014 AHA/ACC/HRS Guideline for the Management of Patients With Atrial Fibrillation: Executive Summary <p><i>Optional Readings:</i></p> <ol style="list-style-type: none">1. Overview of atrial fibrillation (UpToDate) <p><i>CME: 2 Credits</i></p>
3	<p>Topic: ST-Elevation Myocardial Infarction</p> <p><i>Learning Objectives:</i></p> <ol style="list-style-type: none">1. Develop an understanding of current STEMI management including initial medication and revascularization management2. Review of EKG changes associated with STEMI3. Review of medication management post-STEMI and follow-up requirements <p><i>Required Readings:</i></p> <ol style="list-style-type: none">1. 2013 ACCF/AHA Guideline for the Management of ST-Elevation Myocardial Infarction2. Acute Myocardial Infarction ST Elevation (STEMI) Stat Pearls <p><i>Optional Readings:</i></p> <ol style="list-style-type: none">1. Overview of the acute management of ST elevation myocardial infarction (UpToDate) <p><i>CME: 2 Credits</i></p>
4	<p>Topic: Non-ST-Elevation Myocardial Infarction</p> <p><i>Learning Objectives:</i></p> <ol style="list-style-type: none">1. Develop an understanding of current non-STEMI management including initial medication and decisions related to revascularization management2. Review of medication management for long term non-STEMI management and follow-up requirements3. Review of secondary prevention strategies and requirements <p><i>Required Readings:</i></p> <ol style="list-style-type: none">1. 2014 AHA/ACC Guideline for the Management of Patients With Non-ST-Elevation Acute Coronary Syndromes: Executive Summary <p><i>Optional Readings:</i></p> <ol style="list-style-type: none">1. Overview of the nonacute management of unstable angina and non-ST elevation myocardial infarction (UpToDate) <p><i>CME: 2 Credits</i></p>



<p>5</p>	<p>Topic: Congestive Heart Failure</p> <p><i>Learning Objectives:</i></p> <ol style="list-style-type: none">1. Develop an understanding of systolic versus diastolic dysfunction2. Review work-up of a patient presenting to ED with heart failure symptoms3. Develop an understanding of initial diuretic therapy and hospital management of these patients4. Develop an understanding of who should be hospitalized and who can be discharged for outpatient follow-up5. Review of routine hospital management required for stabilizing the heart failure patient to include daily surveillance and discharge preparation <p><i>Required Readings:</i></p> <ol style="list-style-type: none">1. 2017 ACC/AHA/HFSA Focused Update of the 2013 ACCF/AHA Guideline for the Management of Heart Failure2. 2019 ACC Expert Consensus Decision Pathway on Risk Assessment, Management, and Clinical Trajectory of Patients Hospitalized With Heart Failure <p><i>Optional Readings:</i></p> <ol style="list-style-type: none">1. Treatment of acute decompensated heart failure: Components of therapy (UpToDate) <p><i>CME: 2 Credits</i></p>
<p>6</p>	<p>Topic: Acute Lower Extremity Ischemia</p> <p><i>Learning Objectives:</i></p> <ol style="list-style-type: none">1. Develop an understanding of acute lower extremity ischemia management including initial medication and revascularization management2. Review the various etiologies of acute lower extremity ischemia3. Review of post-perfusion complication concerns <p><i>Required Readings:</i></p> <ol style="list-style-type: none">1. Overview of classification systems in peripheral artery disease2. Acute Limb Ischemia <p><i>Optional Readings:</i></p> <ol style="list-style-type: none">1. Clinical features and diagnosis of acute lower extremity ischemia (UpToDate) <p><i>CME: 2 Credits</i></p>