



Beat the Clock

*Increase your team's competence and confidence[®]
in meeting door-to-balloon time goals.*



SIMSUITE[®]
MEDICAL SIMULATION CORPORATION

Door-to-Balloon Time

Hospital "door-to-balloon" times often exceed the guideline set by the American College of Cardiology (ACC) and the American Heart Association (AHA). The SimSuite Door-to-Balloon Time Program enhances the competence and confidence of healthcare provider teams in caring for ST-segment elevation myocardial infarction (STEMI) patients, and provides guidance on improving processes to decrease the time between patient arrival at the Emergency Department (ED) to balloon inflation in the affected artery. The Program is based on ACC Performance Measure Guidelines as well as The Joint Commission's Core Measure Set and authored by Julibeth Petter, PhD, ACNS-BC.

Web-based Course

The SimSuite Door-to-Balloon Time Web Course is designed to educate participants on the research-based guidelines for identification and management of STEMI patients. This course is suitable for physicians, nurses, and technologists working in the ED, cardiac cath lab, and critical care unit, and also EMS personnel. This course may be completed on its own, and prepares participants for the Door-to-Balloon Time Simulation Workshop. 2.0 CE

Simulation Workshop

The SimSuite Door-to-Balloon Time Simulation Workshop is led by an MSC Clinical Educator or a hospital-based educator. The workshop includes a didactic review of the ACC and AHA guidelines, and simulation training using a Laerdal SimMan®. During each scenario, participants formulate a diagnosis using patient history, assessment, and 12-lead ECG interpretation; and prep the patient for transfer to the cardiac cath lab. Participants with access to a Simantha® endovascular simulator may complete each scenario by performing a percutaneous coronary intervention (PCI) simulation. Team training communication skills are emphasized throughout each scenario. *Approximate time for completion: 3 hours (SimMan scenarios only), 5 hours (SimMan and Simantha scenarios).*

Participants and Training Objectives

The goal of this program is to increase and reinforce the competence and confidence of healthcare providers in the following roles:

- Emergency medical technicians and paramedics
- Emergency department physicians and nurses
- Cardiac cath lab staff
- Critical care physicians and nurses

Upon completion of the program, participants should be able to:

- Define the purpose of door-to-balloon time.
- Describe the pathophysiology associated with cardiovascular disease.
- Select the criteria used to aid in diagnosing STEMI.
- Identify the indicators of STEMI on a 12-lead ECG.

- Utilize a 12-lead ECG tracing to localize the area of the MI and potentially affected coronary artery.
- Identify performance measures pertaining to STEMI.

Benefits

- Documentation of staff competence and compliance
- Consistent training across all staff
- Integration into Quality Improvement Programs
- Program based on guidelines, tools, and research from the ACC and the AHA

Clinical Applicability

Prompt treatment for patients with STEMI, in the form of PCI, significantly reduces mortality and morbidity.

The Joint Commission and the Centers for Medicare & Medicaid Services (CMS) have identified myocardial infarction as an important area for improvement in hospitals and have recognized door-to-balloon time as a key hospital quality initiative. The SimSuite Door-to-Balloon Time Program emphasizes best practices such as early acquisition of ECG and diagnosis of STEMI, rapid activation of the cardiac cath team by the emergency physician, timely transfer of patients from the ED to the cath lab, and time to open the arteries with PCI.

Chest Pain Accreditation

The SimSuite Door-to-Balloon Time Program may be used by hospitals preparing for Chest Pain Accreditation. The program addresses the following areas of accreditation:

- Emergency Department integration with the Emergency Medical System
- Process improvement
- Personnel competencies and standardized training

This continuing nursing education activity was approved by the Association of periOperative Registered Nurses, Inc., an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation. AORN recognized this activity as continuing education for registered nurses. This recognition did not imply that AORN or the ANCC Commission on Accreditation approved or endorsed any product included in the presentation.

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