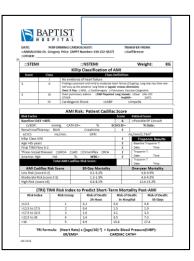
Leadership Saves Lives Early Identification and In-House Treatment of Patients with AMI

The Problem: As the Leadership Saves Lives guiding coalitions began to systematically evaluate the root causes of mortality for their patients with AMI, they made a realization. Although most hospitals had well-refined care processes for patients arriving in the emergency department with STEMI, they had highly poorly designed care processes for patients with NSTEMI, and for patients developing an AMI after arrival.

The Response: Coalitions began to work together to create clearly defined care processes, seeking to apply the same rigor and process improvement approaches that they had used to improve their door-to-balloon processes. We present three case examples.

Case Study 1: AMI Risk Stratification

As part of their root cause analysis, some LSL hospitals identified the need for reliable classification of the most at risk AMI patients for (1) tracking of performance improvement over time and (2) proactive and multidisciplinary follow-up. One hospital decided to compare use of the TIMI and Cadillac scores. In addition to allowing the coalition to stratify their root cause analysis by patient acuity to check for anomalies, this tool traveled with the patient, allowing care providers to understand the history and severity of their presentation and tailor their care plan accordingly.



NSTEMI Process of Care Proposal

- All NSTEMI transfers have ECGs screened by cardiology attending at time of transfer request
- Define "At Risk" NSTEMI Patients
- Refractory angina or resting/low threshold angina despite medical management
 Correspondence 2140
- Grace Score >140
 New or presumed new
- New or presumed new ST depressions on ECG
 Significantly increasing temporal troponin pattern (>20%)
- Signs or symptoms of heart failure
- Hemodynamic instability
- VT or VF
- All "At Risk" NSTEMI transfers verbally presented to attending by hospitalist or cardiology fellow as part of initial evaluation
- All "At Risk" NSTEMIs have echo evaluation for LV function and WMAs as part of the initial evaluation or at least within first 2-3 hours post admission

Case Study 2: NSTEMI Process of Care

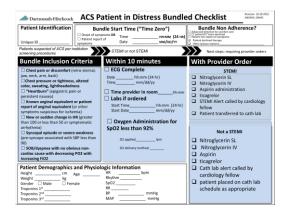
Some LSL hospitals identified delays and a high level of variability in time to treatment for patients with NSTEMI. Working from their own data and staffing constraints, and integrating national guidelines, they developed and tested an operational definition to trigger timely review of patients with NSTEMI. The resulting process, was brought to life by a physician champion armed with data and the support of the coalition.



The Medicines Company

Case Study 3: ACS Patient in Distress

LSL hospitals identified need for more reliable and timely identification and care for patients whose AMI evolved in-house. The resulting AMI Patient in Distress bundle helped to standardize care processes and also empowered front-line nurses as part of the broader care team.



In this toolkit

The toolkit includes an editable PowerPoint deck on each of the three case studies, including rationale for the approach, the resulting tool, reflections on implementation experience, and a note about the importance of tailoring this approach to your local hospital context.

