# Lehigh Valley Health Network LVHN Scholarly Works

Patient Care Services / Nursing

# Sepsis: The Task Force Awakens.

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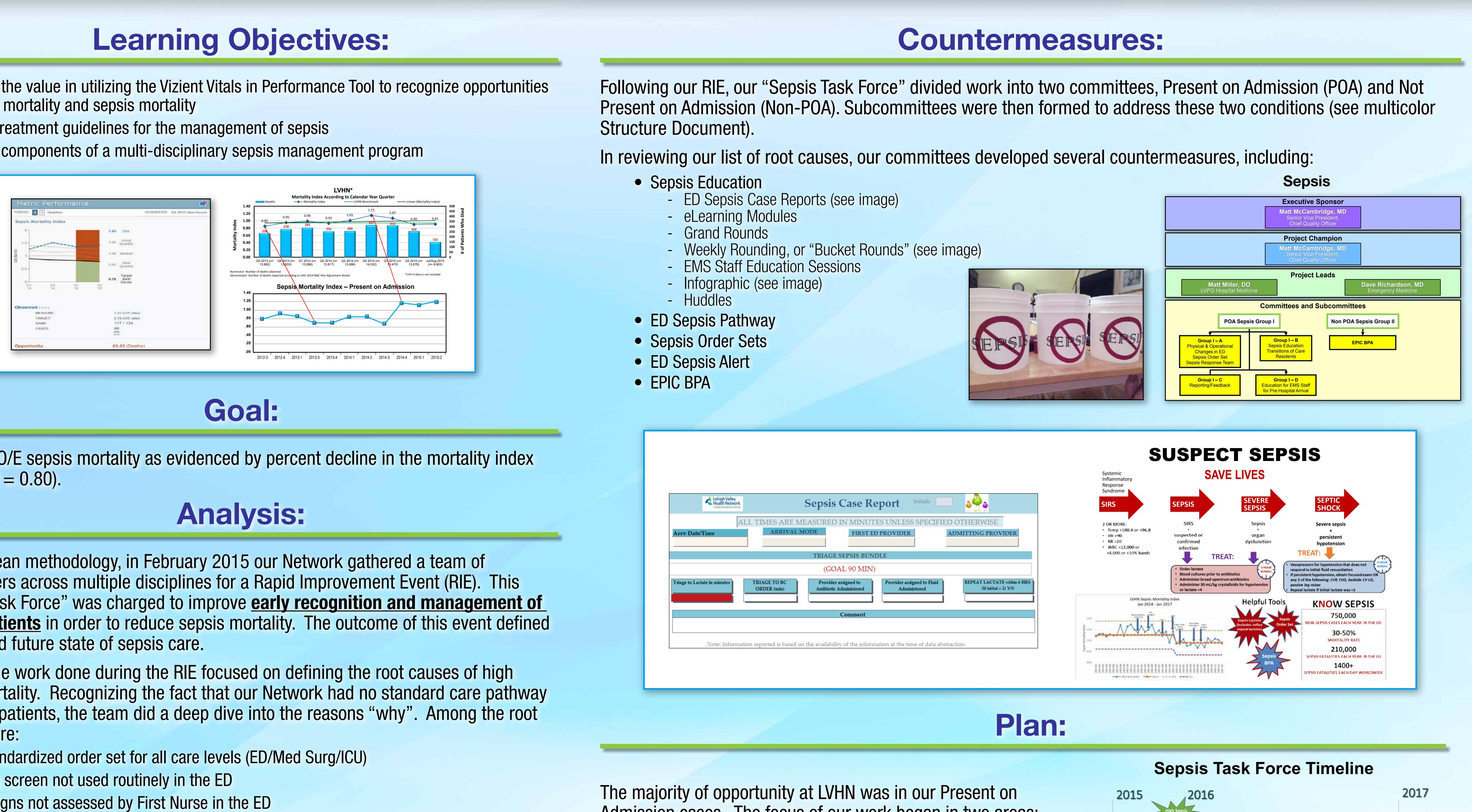
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- Describe the value in utilizing the Vizient Vitals in Performance Tool to recognize opportunities in overall mortality and sepsis mortality
- Discuss treatment guidelines for the management of sepsis
- Describe components of a multi-disciplinary sepsis management program



Decrease O/E sepsis mortality as evidenced by percent decline in the mortality index (MAX Goal = 0.80).

Utilizing Lean methodology, in February 2015 our Network gathered a team of stakeholders across multiple disciplines for a Rapid Improvement Event (RIE). This "Sepsis Task Force" was charged to improve *early recognition and management of* sepsis patients in order to reduce sepsis mortality. The outcome of this event defined current and future state of sepsis care.

Much of the work done during the RIE focused on defining the root causes of high sepsis mortality. Recognizing the fact that our Network had no standard care pathway for sepsis patients, the team did a deep dive into the reasons "why". Among the root causes were:

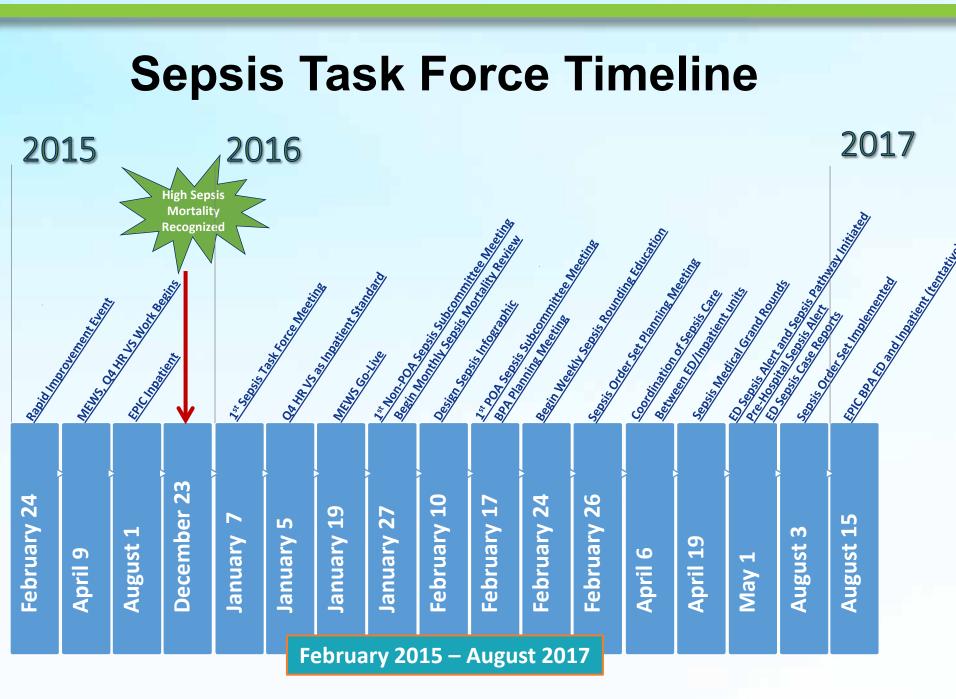
- No standardized order set for all care levels (ED/Med Surg/ICU)
- Sepsis screen not used routinely in the ED
- Vital signs not assessed by First Nurse in the ED
- No standard nursing assessment criteria for sepsis

In a review of the literature, we decided to adopt the Surviving Sepsis Campaign's 2012 "International Guidelines for Management of Severe Sepsis and Septic Shock" 3-hour and 6-hour bundles, with the caveat that "ED Time to First Antibiotic" and "ED Time to Fluid Resuscitation" goals would change to 90 minutes (instead of 180 minutes). We also referenced the June 1992 Chest article "Definitions for Sepsis and Organ Failure and Guidelines for the Use of Innovative Therapies in Sepsis", as well as CMS's SEP-1 core measure in developing our guidelines for sepsis evaluation and treatment.

# Sepsis: The Task Force Awakens

Admission cases. The focus of our work began in two areas: the ED and Nursing. Implementation of a Modified Early Warning System (MEWS) and standardization of every 4 hour vital signs laid the ground work for Network-wide sepsis improvement.

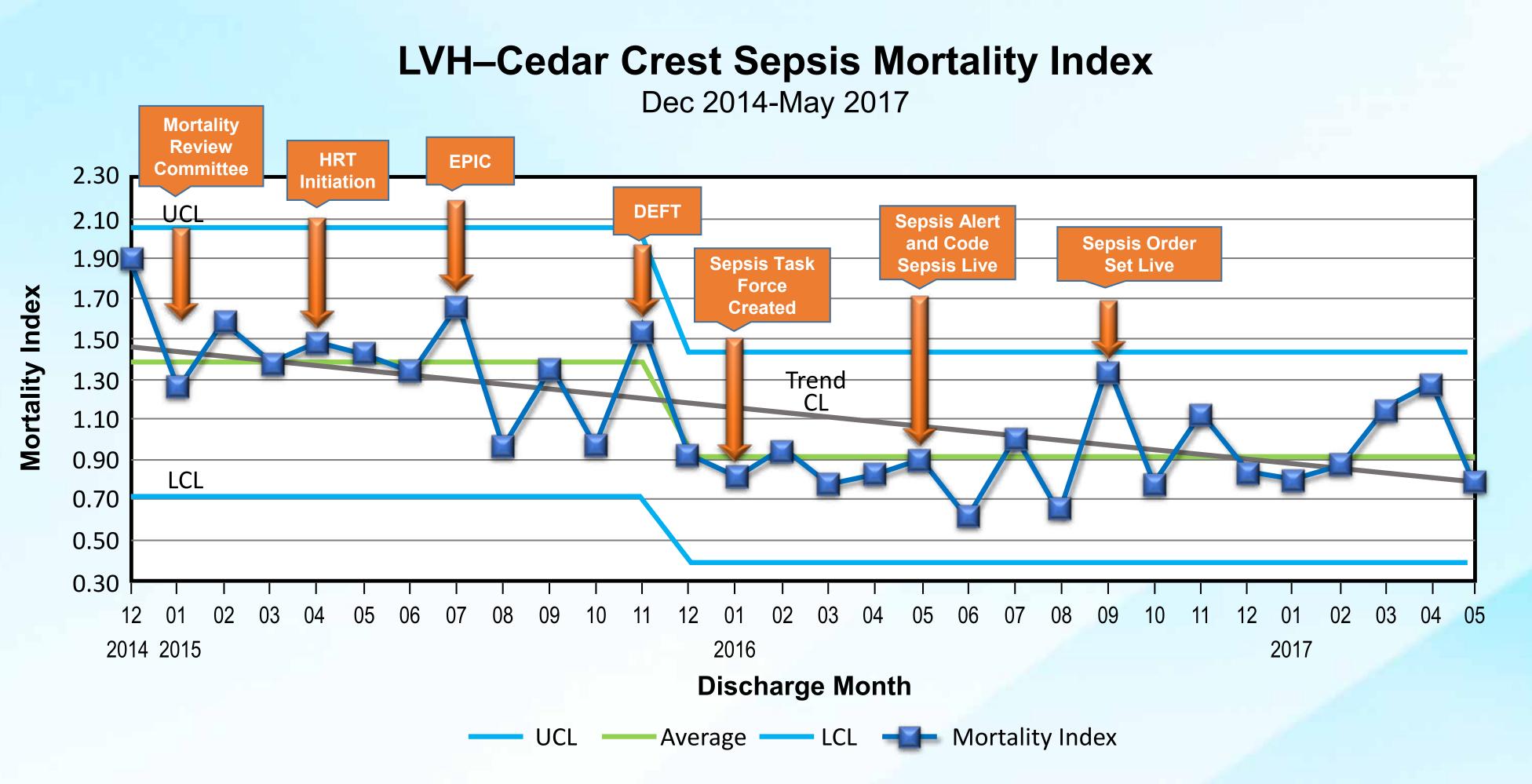
Lehigh Valley Health Network, Allentown, PA



- Quality
- Pharmacy
- Information Services
- Nursing

LVHN's Quarter 3 2016 VIP report noted a significant improvement in our observed mortality rate of 0.9 with ZERO opportunity and Vizient Consortium ranking of 9/135! But our efforts did not stop there. We anticipate implementation of a sepsis Best Practice Advisory (BPA) Epic alert in August 2017. We are also nearing completion of an electronic sepsis dashboard that will be available through EPIC.

The work that we have accomplished over the last two and a half years has been invaluable to the care of our patients. We have saved hundreds of patients' lives through implementing evidence-based, standardized care across our Network.



Multi-disciplinary committees and subcommittees were essential to the success of this project. These teams included membership from the following departments/groups:

- Physicians (ED/Critical Care/Hospitalists) and APCs
- Patient Safety/Risk Management
- Laboratory EMS
- Respiratory Care
- Education

# Follow-Up:



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