

# Barnabas Health

- Barnabas Health System is committed to accomplish a 20% reduction in the severe sepsis/septic shock mortality from 2014 to 2015 through a multifaceted approach.
- The team is committed to provide consistent high quality care aimed at the reduction of mortality through the implementation of a system wide team approach; standardizing evidence based processes, implementation of 3 hour bundle protocols, education, early identification alert systems, and targeted performance measures to evaluate the reduction of mortality related to sepsis.
- Our goals are (please specify what you will measure and monitor through the initiative):
  - Reduce Severe Sepsis/Septic Shock mortality by 20%
  - Implement hospital wide evidenced based severe sepsis protocol
  - Evaluate and implement St. John's Alert available in our CIS (automated early identification of severe sepsis/septic shock)
  - Improve outcomes of care to 90% or better for the 3 hour bundle elements of care

# System Approach

- *Our baseline data shows ranges of 8-40% compliance to the 3 hour bundle*
- *System Steering Committee with hospital reps*
- *Each hospital has a Sepsis Committee to operationalize and monitor*
- *Created tools and structure for BH Hospitals to use*
- *Hospital's individualized the policy and alert response based on the resources and systems available*

# Changes we tested

## Respond, Treat, Follow Up

- St. John's Sepsis Alert
  - CIS tool that uses electronic data to alert for Severe Sepsis/Septic Shock
  - Validated Sensitivity and Specificity of tool
  - Evaluated the alerts at each hospital
  - Compared alerts to coded data

## Educate Over and Over

- Severe Sepsis/Septic Shock
- Process Flow
  - Overview
  - Sepsis Team Response
- Policy
  - Individualized teams
- Documentation
  - Physician Severe Sepsis Progress Note Template
  - RRT Note

# Changes we tested to reach our aim

## Get ready

- Order Sets
  - 3 Hr. Severe Sepsis Standing Order
  - 3 Hr. Severe Sepsis Antibiotic & IV Fluid Orders
  - Severe Sepsis Site Specific Antibiotic Orders
  - 6 Hr. Severe Sepsis Orders
- Pathway

## Seek, Confirm, Start

- Data Collection and Feedback
  - Debriefing with team after each alert within 24 hrs.
  - 3 and 6 hr. bundle compliance
  - Reporting to multiple groups- P&T, Infection Control, ED, ICU, Nursing, Medicine, MEC
  - Mortality, Cost, Hospital Acquired Sepsis Reports
  - Focused review of all Sepsis Deaths

# We were surprised to learn . . .

- The ease of acceptance of the Sepsis Order sets and Policy by the Medical Staff
- The concern on IV Fluid Resuscitation – amount and timeframe
- Teams wanting to start with SIRS and not wanting a more narrow focus to start with

# We are wondering if next we should . . .

- Adding OB Patients
- Move onto SIRS alerts and Early Warning System for the ED in the next phase