SEPSIS: DECREASING MORTALITY AND IMPROVING TIME TO FIRST ANTIBIOTIC

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SEPSIS

- Why Sepsis?
- Project Planning and Implementation
- Results
- Recommendations
WHY SEPSIS?

- Mortality as high as 50%
- Most expensive condition treated in US Hospital - $20 Billion in 2011 (AHRQ)
ANTIBIOTIC ADMINISTRATION

- 80% Survival - First hour
- 42% Survival - 5th hour
- Mortality rate increased by 7.6%/hour
SEPSIS MORTALITY REDUCTION TEAM
**PLANNING AND IMPLEMENTATION**

- Created Multi-disciplinary team *
- Rapid Improvement Event – 4 days
- Build and Testing
- Implementation
- Study/Act of the PDSA cycle*
- Created a New ED Process
BASELINE

• Baseline Sepsis Mortality – Jan 2014 is 25%

• Antibiotic time within 60 minutes
  • 30%
NEW ED PROCESS

BPA
- Alert presented to RN

RN assessment
- Assessment for signs and sx of infection

Push the BPA to ED Provider
- Activates Nursing Protocol
BASELINE

• Baseline Sepsis Mortality – Jan 2014 is 25%
• Antibiotic time within 60 minutes
  • 30%
RESULTS

• Sepsis Mortality – Jan 2014 to May 2015
  • 25% to 8.3% (66% reduction)

• Antibiotic time
  • 30% to 70% (133% improvement)

• 1.8 million net revenue increase
RECOMMENDATIONS

1. Continue to evaluate the data to make necessary changes
2. Rapid implementation and creating Sepsis Team in each sites
6. Use Data to drive change