

# SEPSIS: DECREASING MORTALITY AND IMPROVING TIME TO FIRST ANTIBIOTIC

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# SEPSIS

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

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

- 80% Survival - First hour
  - 42% Survival - 5th hour
  - Mortality rate increased by 7.6%/hour
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# SEPSIS MORTALITY REDUCTION TEAM



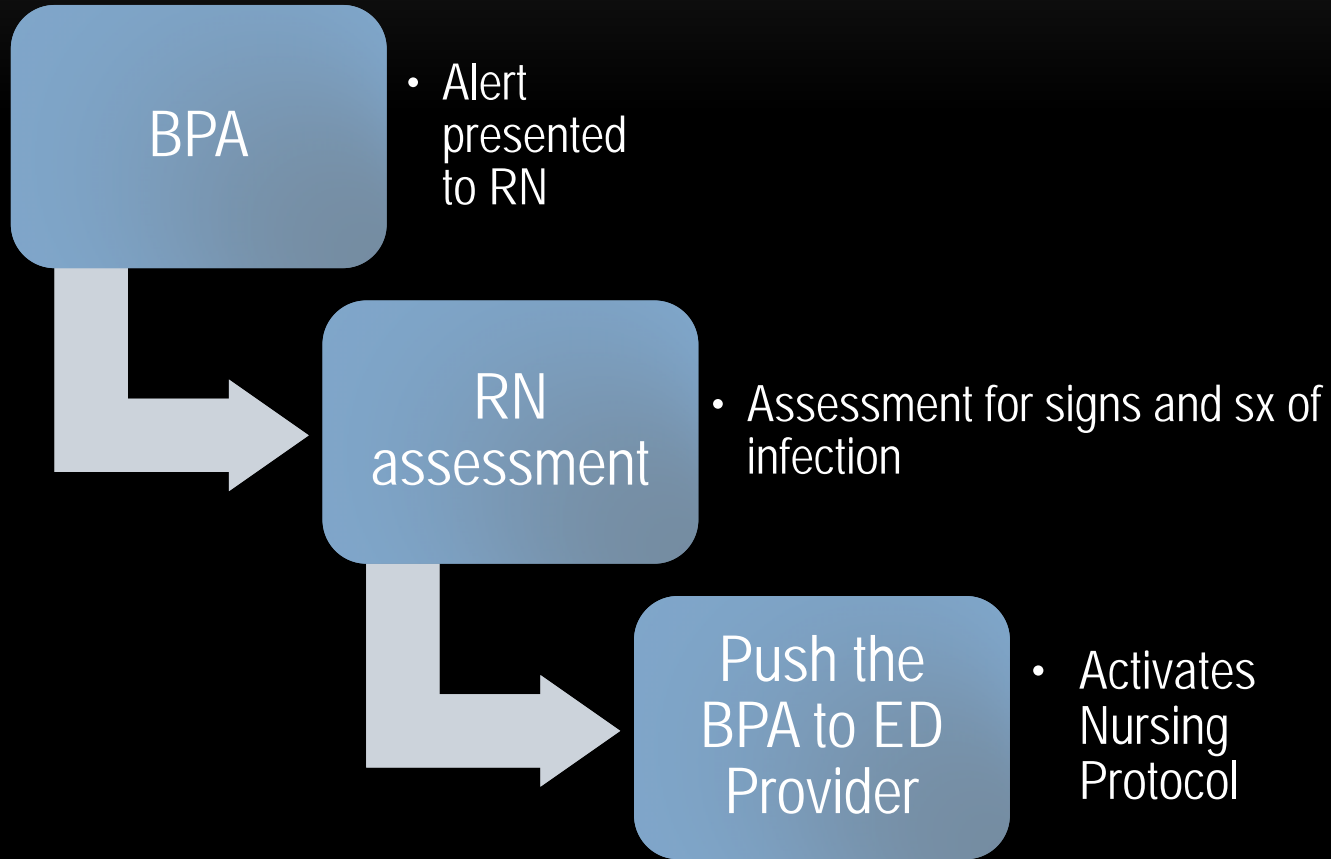
## PLANNING AND IMPLEMENTATION

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

- Baseline Sepsis Mortality – Jan 2014 is 25%
  - Antibiotic time within 60 minutes
    - 30%
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# NEW ED PROCESS





# BASELINE

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# 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
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# 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
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