

## Implementation of a Sepsis Program



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## Charleston Area Medical Center

### WV's Largest Academic Medical Center

- ▶ There is a combined total of 845 staffed beds between all four facilities
- ▶ 11<sup>th</sup> highest volume cardiac center in the U.S.
- ▶ **Memorial Hospital**
- ▶ Only kidney transplant center in WV
- ▶ Level I trauma center
  - ▶ General Hospital
- ▶ Level I PICU and Level III NICU
  - ▶ **Women and Children's Hospital**
- ▶ Small Community Hospital
  - ▶ **Teays Valley Hospital**
- ▶ Referral Center for All of Southern West Virginia

### Academic Focus

- ▶ More than 148 Residents, Interns, and Fellows
- ▶ 500 students per day in 44 disciplines, representing 60 educational affiliations
- ▶ 240 nurse anesthetists trained in last 10 years



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## Content

- ▶ **Baseline Data**
- ▶ **Key Players**
- ▶ **Strategic Initiatives**
- ▶ **Tools**
- ▶ **Presenting the Business Case**
- ▶ **CAMC Data**
  - ▶ Mortality
  - ▶ Length of Stay
  - ▶ Recognition
- ▶ **Strategy for Rollout**
- ▶ **Sustaining the Gains**



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## Baseline Data

- ▶ Discharge Data for Previous Year
  - ▶ ICD 9 Codes
    - ▶ 995.92
    - ▶ 785.52
  - ▶ Mortality Rate
  - ▶ # of Cases
- ▶ Top 10 APR-DRGs
  - ▶ Percentage of Total Deaths




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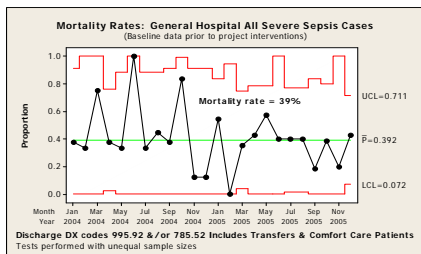
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## Baseline Data




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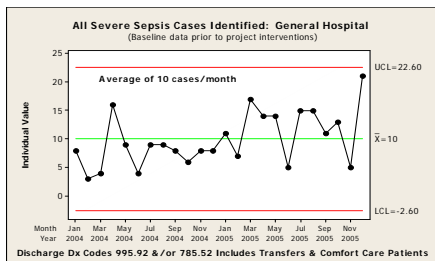
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## Baseline Recognition




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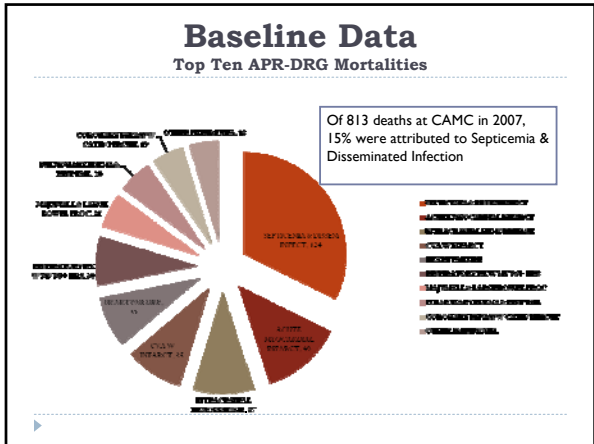
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- ### Key Players
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| <p><b>Operational Support and Sponsorship</b></p> <ul style="list-style-type: none"> <li>▶ Project leadership, involvement, and resources</li> <li>▶ Dedicated physician champions</li> <li>▶ Committed ICU Staff</li> <li>▶ Clinical Sepsis Coordinator</li> <li>▶ Dedicated project team members             <ul style="list-style-type: none"> <li>▶ Black Belts</li> <li>▶ Green Belts</li> </ul> </li> </ul> | <p><b>Dedicated Critical Care Team</b></p> <ul style="list-style-type: none"> <li>▶ Senior Medical Residents</li> <li>▶ Clinical Pharmacy Specialists rotating with team</li> <li>▶ Clinical Pharmacy Specialists on call 24/7</li> <li>▶ Critical Care Intensivists</li> <li>▶ ICU Nurses</li> <li>▶ Respiratory Therapists</li> </ul> |
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- ### Key Players
- ▶ Sepsis Steering Committee
    - ▶ Multidisciplinary team charged with the responsibility of improving outcomes associated with sepsis
      - ▶ Mortality
      - ▶ Costs
      - ▶ Length of Stay
      - ▶ Recognition
    - ▶ Charged with defining and developing strategic initiatives

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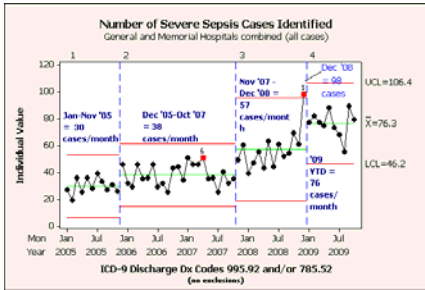
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## Recognition




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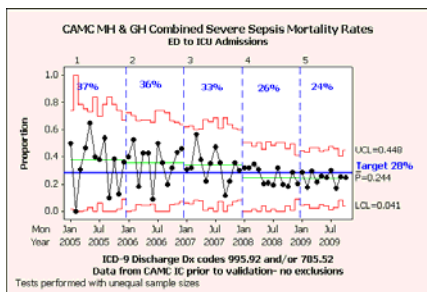
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## Mortality Data




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## Strategy for Rollout

- ▶ Scope of Project
  - ▶ ED to ICU
  - ▶ Floor to ICU
  - ▶ Transfers
  
- ▶ Determine Measurement Systems
  - ▶ Data Collection
    - ▶ Manual vs. Automated Abstraction
      - Review of Cases
        - Who
        - How Often

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## Strategy for Rollout

- ▶ Quality Improvement
  - ▶ Broad Focus
    - ▶ Education
      - Department Meetings
      - Grand Rounds
      - Guest Speakers
      - Staff Meetings
      - <http://camcinstitute.org/professional/sepsis/>
    - ▶ Narrow Focus
      - ▶ Peer Review
        - Case by Case Basis
        - Peer Protected Letter



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## Sustaining the Gains

- ▶ Real-Time Data Collection
  - ▶ Standardized Data Collection Tools
  - ▶ Admission Reports for Patient Identification
- ▶ Sepsis Steering Committee Meetings
- ▶ Continuous Process Reassessment
- ▶ Data Reporting
  - ▶ Mortality Meetings
  - ▶ Six Sigma Report Outs
  - ▶ Department Meetings
  - ▶ Grand Rounds
- ▶ Continuous Education
  - ▶ Simulation
  - ▶ Sepsis Week
  - ▶ Staff Meetings



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