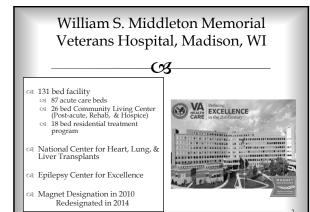
Screen and Intervene: Improved Outcomes From a Nurse-Initiated Sepsis Protocol C935

2015 ANCC National Magnet Conference® October 9, 2015 Kristin Drager MSN RN CNL CEN William S. Middleton Memorial Veterans Hospital Madison, WI

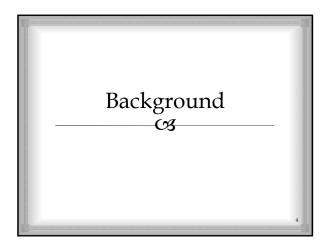


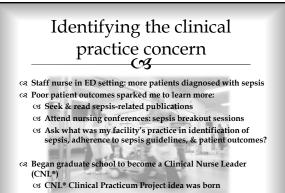
Objectives

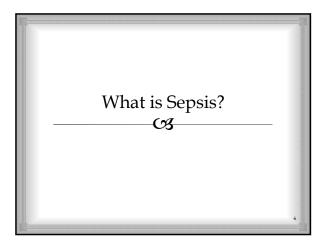
ন্দে Review the background of our sepsis programming

- cs Outline the purpose and goals of the program
- ☞ Discuss the methods, program, and practice changes implemented
- A Evaluate the pre & post programming outcome data

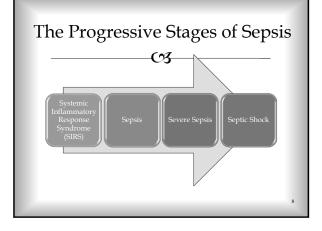
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Performing a literature search

CR >750,000 new cases of severe sepsis in N. America per year¹

- ca Overall mortality rate from severe sepsis or septic shock ranges from 30-60%, 10^{th} leading cause of death in US, with total costs est. 17Billion/year²
- ca 2004 Surviving Sepsis Campaign developed a sepsis CPG called "Early Goal Directed Therapy (EGDT)". Updated in 2008 & 2012.
- GR Evidence indicates a clear survival benefit if EGDT was initiated at or near the time of sepsis recognition³

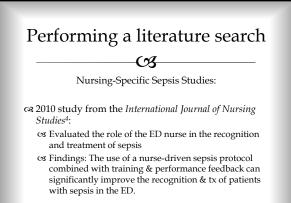
seenitt, B., & Zamora, M. (2000). Blood cultures for fidelile patients in the acute care setting: To quick on the draw? Journal of the Andered Y Anner Patritoury, 70, 25 (2007). The management of server sepsis and aspetic shock, http://folius.blood.coll.ust/SF0.01, seen. DJ. (2011). Severe sepsis and septic shock, http://www.ahcmacla.com/public/

Performing a literature search

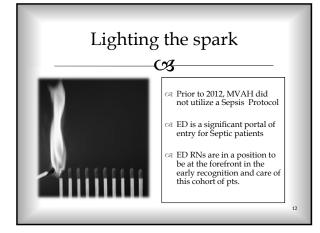
Nursing-Specific Sepsis Studies:

- CR 2010 before & after interventional study from Critical Care Medicine³:
 - C≤ Examined the impact of the Surviving Sepsis Campaign protocols on hospital LOS in Septic Shock patients
 - CS Significant limitation to this study was the decreased level of illness severity of the interventional group compared to the historical group → *likely due to improved education of ED staff* leading to earlier sepsis recognition & preventing delays in treatment

nicki, J. (2010). Impact of the surviving sepsis campaign protocols on hospital length of stay and mortality in septic shoc eccesar follow an ousclewreetmental study. Critical Care Medicine 38: 1039;1043



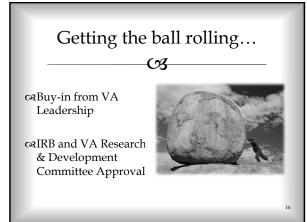
Tromp, M., Hulscher, M., Bleeker-Rovers, C., Peters, I., Van den Berg., D., et. al. (2010). The role of nurses in the recognition of patients with sepsis in the emergency department: A prospective before-and-after intervention study. International Journal of Nursing Studies 47(12) p. 1464-1473.

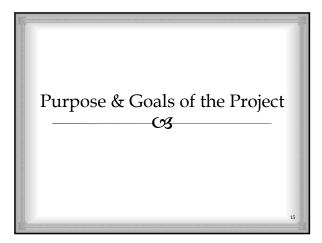




Asking the research question:

In Emergency Department patients that meet severe sepsis and septic shock criteria, will a nursing education program and implementation of an evidence-based sepsis protocol, compared to usual care, improve patient outcomes and reduce hospital costs and resource utilization?





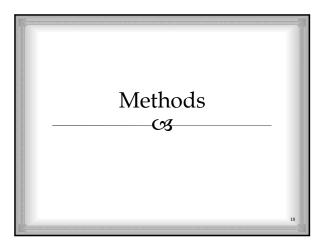
Purpose of the Project

- 1. Promote early recognition of patients meeting sepsis criteria
- 2. Once sepsis is recognized, deliver time-sensitive, EB sepsis interventions

Overarching Goals:

- 1. Improve patient outcomes Halting the progression of sepsis
- 2. Reduce Hospital Costs and Resource Utilization Reduction in Bed-Days-of-Care (BDOC)

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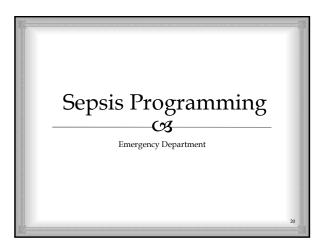
Analysis of Pre-Sepsis Programming Data IRB approval: Two-year retrospective medical-record review of

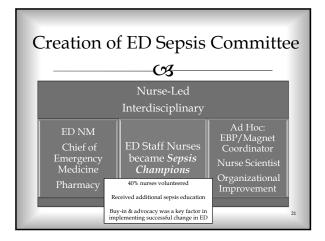
IRB approval: Two-year retrospective medical-record review of hospitalized patients with sepsis-related medical diagnoses (2009-2011)

- C3 120 charts reviewed (22 excluded). 98 met sepsis criteria. Of these, 43 pts met severe sepsis or septic shock criteria in the ED.
- Cast a wide-net": Pt demographics, location sepsis was first identified, ED data, inpatient data, BDOC, sepsis progression, mortality rates



C3 Findings led to sepsis program development



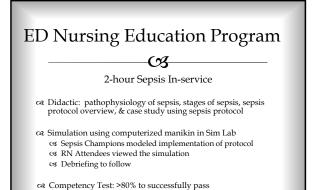




Clinical Project Design: ED

Program objectives included:

- CS Facilitate early recognition of sepsis Strategy →Development of a sepsis nursing education program
- Cost Once sepsis is recognized, initiate EB interventions aimed at halting the progression of sepsis
 - Strategy \rightarrow Formulation of an evidence-based sepsis protocol



Nurse-Initiated Sepsis Protocol

← CC3 c≈Sepsis Screening performed by RN in triage

Revidence-based care-bundle

ঝAligns with sepsis CPG: "Early-Goal-Directed-Therapy"

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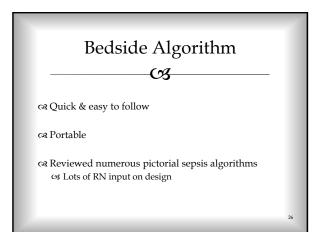
Nurse-Initiated Sepsis Protocol

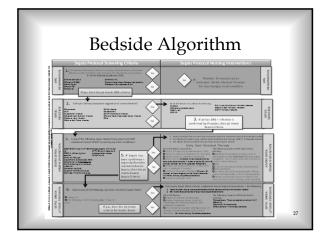
If a patient meets sepsis criteria:

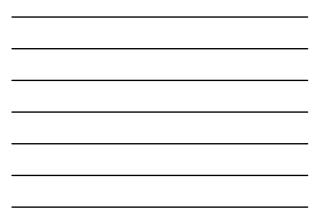
A Nursing can initiate diagnostic testing & implement specific EB sepsis interventions

ন্থ Collaboration with the Provider

ন্থে Some interventions require an MD order (medications, IVF, invasive monitoring)







Nurse-Initiated Sepsis Protocol CB-

௸ "Went-Live" in ED in June 2012

ন্দে Sepsis Champions provide real-time mentoring to staff (RNs & MDs) & ongoing education to new ED staff

ca Sepsis committee meetings: G Evaluate protocol/programming → modify prn based on evidence; review sepsis cases, identify/eliminate barriers ca Post-programming ED sepsis chart review:

ন্দ Aggregate data

oa Individual RN feedback regarding compliance of performance measures

Sepsis Programming B Expansion to ICU

Clinical Project Design: ICU CS-

Goal: standardize sepsis care to the other critical care areas of hospital

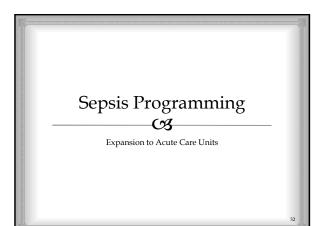
- 1. ICU staff respond to rapid response calls throughout the hospital
- 2. Receive direct admissions from outside hospitals

Clinical Project Design: ICU

cøGain buy-in & approval

প্রেModified ED Sepsis Protocol to include ICU staff

প্রেEducation to ICU nursing staff: ব্লেFace to Face/In-services ব্লেAnnual Education: Poster/competency test



Clinical Project Design: Acute Care

Inpatient Acute Care Nurses (Medical, Surgical, Cardiac Care, Transplant, Neurology, Orthopedic)

প্রেBuy-In & Approval প্রেRN representatives from each unit প্রেNursing Education/In-Services

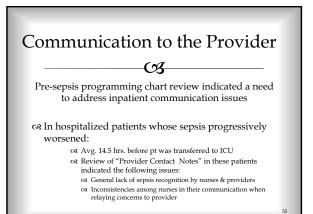
A Need for Something Different

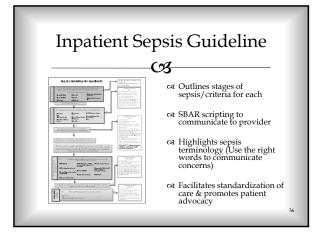
ঝ Did not want to encourage use of Sepsis Protocol in this setting রে Time/resource-intensive

Critically-ill patients, potential to deteriorate quickly

মে Nursing Education aimed at: ও Patho & Stages of sepsis ও Early recognition of sepsis

c Prompt transfer to ICU setting

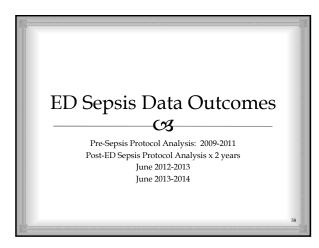


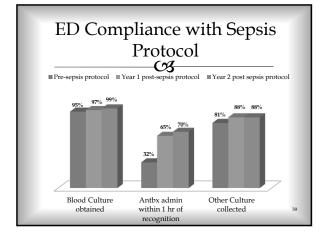


Ongoing Nursing Sepsis Education

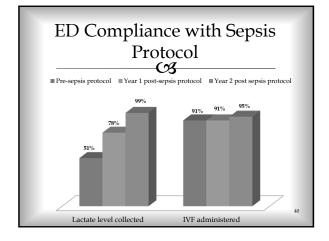
RAll new RN Hires participate in 1 hour Sepsis education during nursing orientation:

- ন্থে Includes an overview of epidemiology, pathophysiology, stages of sepsis, nursing interventions, & case study
- ন্থ Provided own copy of Inpatient Sepsis Guideline

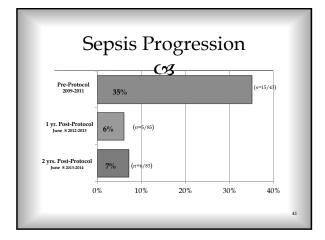




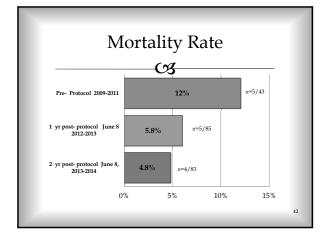




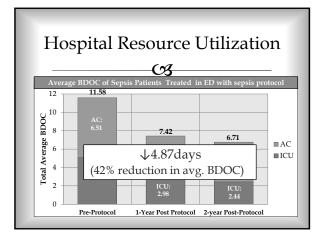




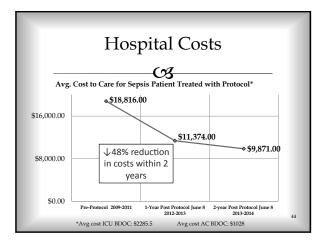
















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