

Early Recognition of Sepsis: Beyond the ICU/ED - Taking it to the Acute Care Units

Presenters: Petra Grami RN, BSN, NE-BC, CVRN II; Tisha Norman RN, BSN, C; St. Luke's Episcopal Hospital / Texas Heart[®] Institute, Houston, Texas

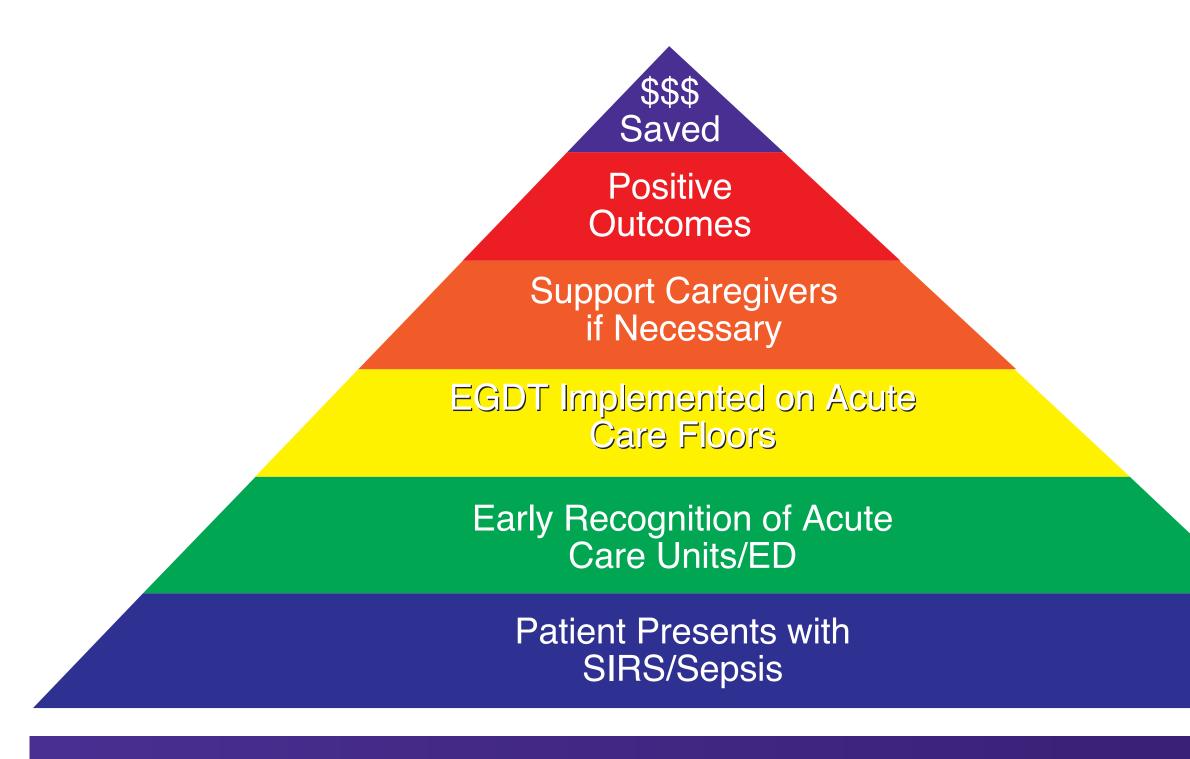
Introduction

Introduction

- Sepsis is deadly and often elusive for hospitalized patients, especially the geriatric patient population, which accounts for 60% of all sepsis case
- Research suggests that early recognition and implementation of key strain within the first six hours are critical to positive outcomes.
- The 2008 Surviving Sepsis Campaign (SSC) guidelines promote early reand implementation of early goal directed therapies (EGDT).
- Sepsis often begins in the acute care setting, not only in the ICUs and El Therefore, an acute care nurse must be well-trained to recognize early se have the means to begin early interventions.

Purpose

- Healthcare facilities are challenged with comprehensive implementation 2008 SSC guidelines.
- The greatest improvement in outcomes can be made through staff education process changes in the *non*-ICU setting.



	Strategy and Implem			
	Phases of the Intervention			
	Phase 1:			
Ses.	 Sepsis protocol developed to support 2004 SSC guidelines Focus was on the critical care units and ED only 			
ategies	 Data collected and analyzed Positive outcomes post-implementation realized 			
ecognition	 Original sepsis protocol developed and implemented in IC 			
	 Post-implementation data yielded statistically significant read of and cost. 			
Ds.	Phase 2: 2008-2009			
sepsis and	 Developed an interdisciplinary Sepsis Task Force team. 			
	Revised and modified existing sepsis protocol to meet 200 earlier implementation of treatment, outside of the ICU set			
of the	Developed and provided a house-wide comprehensive edure recognition and treatment of sepsis.			
ation and	 Developed electronic alerts to notify staff when their patier 			
	Involved unit managers, nursing supervisors, medical staf			
	Initiated a Rapid Turnaround Unit to accommodate higher thus averting ICU admissions when possible.			
	 Positive outcomes for 2009 yielded in all areas (see chart) 			

Phase 3: 2009-2010

- Continue to refine systems and processes.
- Continue with data collection.
- Continue with data analysis.
- Develop early identification tool for post surgical patients.
- Address identified barriers.
- Develop sepsis resource nurses.
- Consider the expansion of Rapid Response Team (sepsis team).
- Refine the sustainability plan with a focus on the progressive evolution of the sepsis protocol.

entation

U/ED setting.

eductions in mortality, length of stay

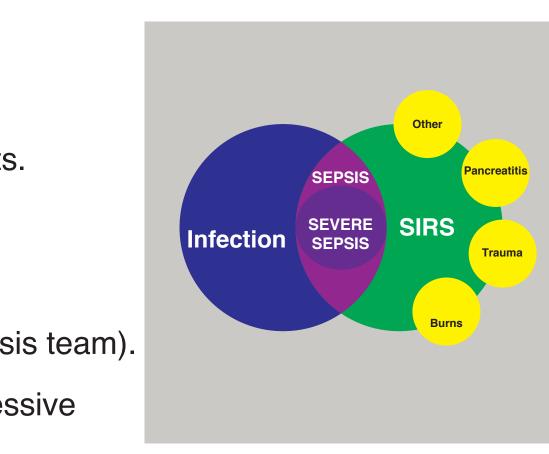
08 SSC guidelines and to facilitate ting.

lucation plan, focusing on early

nts met inclusion criteria

and rapid response team.

acuity patients (higher nursing ratios),



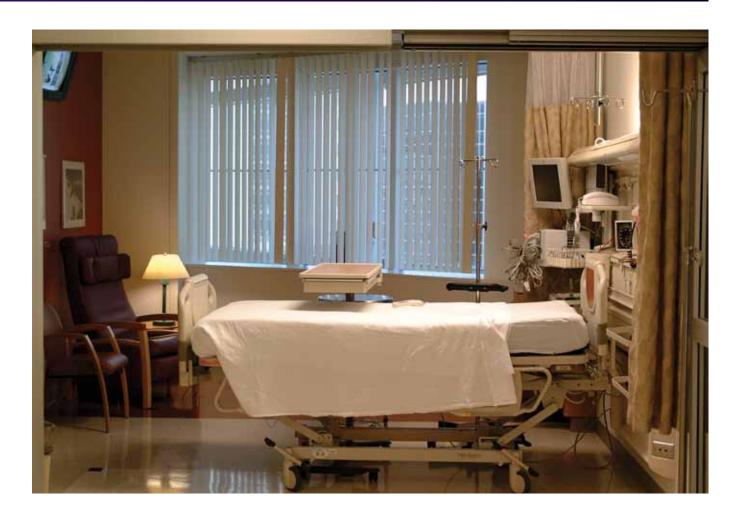
Statistically Significant Decrease with Multiple Indicators

Severe Sepsis/ Septic Shock (995.92 & 785.52)	Post Initiative 4/06-6/07	CY 2007	CY 2008	Q1CY 2009
Cases	322	284	360	106
Mean LOS (Obs)	19.29	17.22	21.01	20.50
St Dev LOS (Obs)	22.29	15.72	23.59	22.46
Mean LOS (Exp)	15.23	15.07	16.48	16.63
LOS Index	1.27	1.14	1.27	1.23
LOS Variance (days)	1,306	610	1631	410
% ICU Cases	99.07	100.00	97.50	98.11
Mean ICU Days	14.71	12.82	16.78	14.16
% Deaths (obs)	38.20	41.55	41.94	34.91
% Deaths (exp)	32.27	32.79	31.26	33.15
Mortality Index	1.18	1.27	1.34	1.05
% Early Deaths	8.70	9.86	5.28	4.72

Implications of Practice

Implementation of a sepsis protocol in the ICU setting improved patient outcomes and organizational outcomes. However, in order to reduce time-to-treatment, it is necessary for acute care RNs to recognize and initiate the six-hour bundle of the sepsis protocol in their setting. Organizational support, such as a Rapid Turnaround Unit, provides acute care RNs the assistance to balance their patient load while caring for the newly recognized septic patient. Further defined roles of the Rapid Response Team and Rapid Turnaround Unit are indicated.

Evaluation



© 2010 St. Luke's Episcopal Hospital, Houston, Texas