

Advancing Health in America

Navigating Best Practices to Optimize Sepsis Care

January 23, 2019 Colorado Hospital Association HIIN Steven Tremain, MD, Cynosure Health







Care Priorities	U.S. Incidence	# of Deaths	Mortality Rate	
AMI	900,000	225,000	25%	
Stroke	700,000	163,500	23%	
Trauma (Motor Vehicle)	2.9 million	42,643	1.5%	
Severe Sepsis	751,000	215,000	29%	















Re-assess Volume Status and Tissue Perfusion and Document Findings By....

EITHER:

Repeat focused exam (after initial fluid resuscitation) a by licensed independent practitioner including vital signs, cardiopulmonary, capillary refill, pulse and skin findings

① Basal position

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OR TWO OF THE FOLLOWING:

- Measure CVP static
- Measure ScVO2 static
- Bedside cardiovascular ultrasound-dynamic IVC
- Dynamic assessment of fluid responsiveness with passive leg raise or fluid challenge dynamic





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qSOFA Good to Find "Sick"; Not So Good for Sepsis

JAMA | Original Investigation | CARING FOR THE CRITICALLY ILL PATIENT

Prognostic Accuracy of Sepsis-3 Criteria for In-Hospital Mortality Among Patients With Suspected Infection Presenting to the Emergency Department

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Conclusion: qSOFA had poor sensitivity and moderate specificity for short-term mortality. The SIRS criteria had sensitivity superior to that of qSOFA, supporting their use for screening of patients and as a prompt for treatment initiation.

































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Findings

- Shorter delays improve outcomes
- No evidence that 3 hours was safe
- Any delay adversely affected outcomes





The preponderance of the evidence remains that SSC guidelines reduce sepsis mortality



Surviving Sepsis Guidelines

the leading causes of death. Since the Declaration of

health care professionals, improving post-intensive care unit care, developing guidelines of care, and imple-

A Continuous Move Toward Better Care of Patients With Sepsis

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Sepsis is a life-threatening condition that affects cases: for example, those with a history of cardiac dys more than 1 million patients a year in the United States and even more patients around the globe and is one of circulatory failure is not always obvious).

Another important advance is that the new guidethe acading cause soft the event subset of the travascular pressures or volumes) to predict fluid sis Campaign (SSC) was launched in 2002 and has a 7-point agenda: building avarenees of sepsis, imrov-guidelines recommended that clinicians should target ing diagnosis and recognition, defining and increasing specific values of central venous pressure. Subsequent data have shown that central venous pressure has limdata have shown that central venous pressure subsequent ited value for the prediction of the response to fluids. Importantly, the guidelines recommend that when fluid



Finally, the SSC guidelines will be translated into bundles that are key elements in sepsis improvement efforts. In a 1-day observational study conducted in 62 countries worldwide, adherence to the bundles, even though not present in the majority of patients, was associated with a marked reduction in the odds of death.⁹ In response to the changes in the SSC guidelines, these bundles will be updated later this year and will be available online.¹⁰











































