HQIC Community of Practice Call

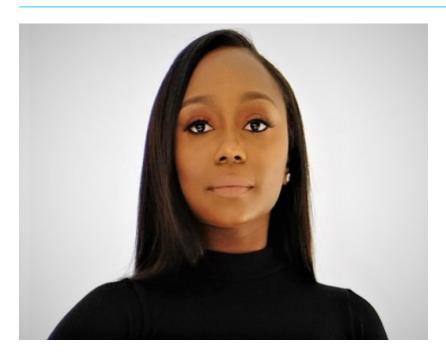
Building Reliable Sepsis Mortality Prevention Practices: How Does Your Organization Measure Up?

September 21, 2023





Introduction



Welcome!

Shaterra Smith Social Science Research Analyst Division of Quality Improvement Innovation Models Testing iQuality Improvement and Innovations Group Center for Clinical Standards and Quality Centers for Medicare & Medicaid Services





Agenda

- Introduction
- Today's topic: Building Reliable Sepsis Mortality Prevention Practices: How Does Your Organization Measure Up?
- Presenters:
 - Hartford HealthCare
 - Tania Kosmo, Quality Performance Improvement Specialist
 - Cynosure Health
 - Kim Werkmeister, Senior Vice President
- Open discussion
- Closing remarks



As You Listen, Ponder...

- What impactful actions can you take as a result of the information shared today?
- How are you able to increase engagement within your facilities to ensure a true change in patient safety?
- Based on what you heard today, what activities do you currently have underway that can leverage immediate action over the next 30, 60 or 90 days?





Meet Your Speakers



Tania Kosmo, MSN, RN, CNL

Quality Performance

Improvement Specialist

Hartford HealthCare, East

Region



Kim Werkmeister, MS, RN, CPHQ, CPPS Senior Vice President Cynosure Health





Hartford HealthCare Windham Hospital, Willimantic, CT

September 2023





Windham Hospital

112 Mansfield Avenue, Willimantic, Connecticut











East Region Sepsis Committee

- Interdisciplinary team
- Monthly meetings cover:
 - Celebrations and recognitions
 - Safety story (including 'Kudos Cases,' when available)
 - Data review
 - Open forum and discussion of new and in-process improvement project(s)



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Road to success

- Education
- *Epic* electronic optimizations
- Sepsis tools





Sepsis education

What is Sepsis?

Sepsis occurs when chemicals released into the bloodstream to fight an infection trigger inflammatory responses throughout the body. This inflammation can trigger a cascade of changes that can damage multiple organ systems, causing them to fail (Mayo Clinic, 2018).

Sepsis is the third leading cause of death in the U.S., behind only heart disease and cancer, and is the number one killer of children worldwide (AACN, 2017).

> Vital Signs 1/1/22 07:00: T 99.7, HR 112, RR 10, BP 92/68 • Labs 1/1/22 07:30: WBC 22.3 • Antibiotic Given 1/1/22 04:00: Rocephin

placed on BiPAP @ 08:30.

Question #1

a. Sepsis

This patient meets

b. Severe Sepsis

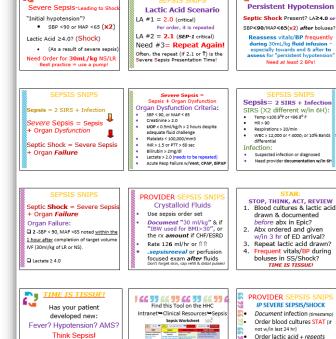
c. Septic Shock

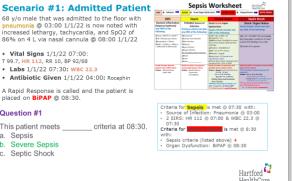
Sepsis is a time critical eme sepsis drops about 8% ever recognition leads to early in

Time is tissue!

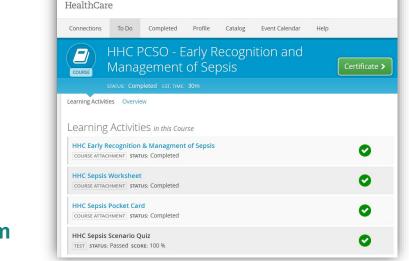
RN resident presentation **Sepsis Snips for**

Sepsis Awareness Month









Notify provider, document, prep

for Sepsis Bundle orders:

Bld cx's x 2, Lactic acid + repeat(s),

IV antibiotio(s), fluid boluses, frequent vita

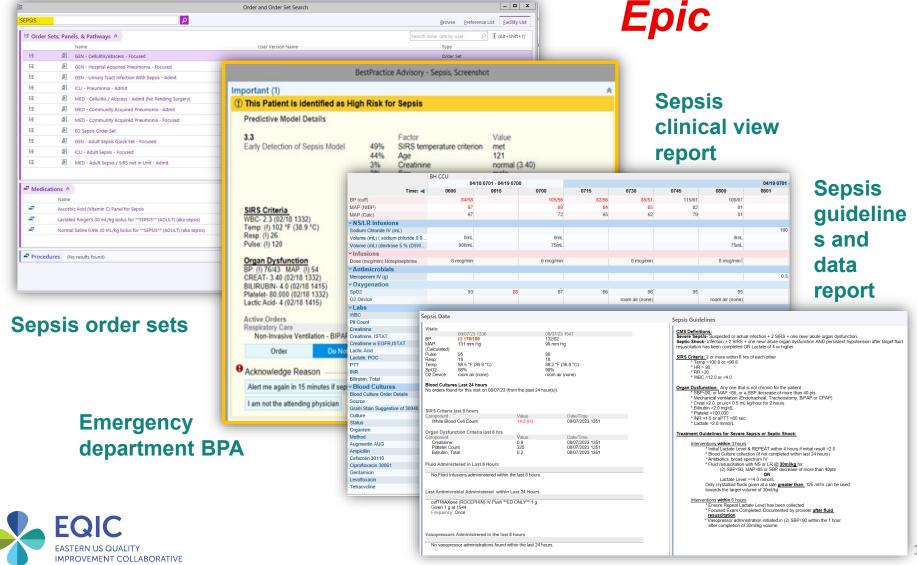
Hartford 🗬

STAT (for lab timeliness)

Order set for fluids (≥126 ml/hr)

Timely IV abx order

Sepsis electronic optimizations

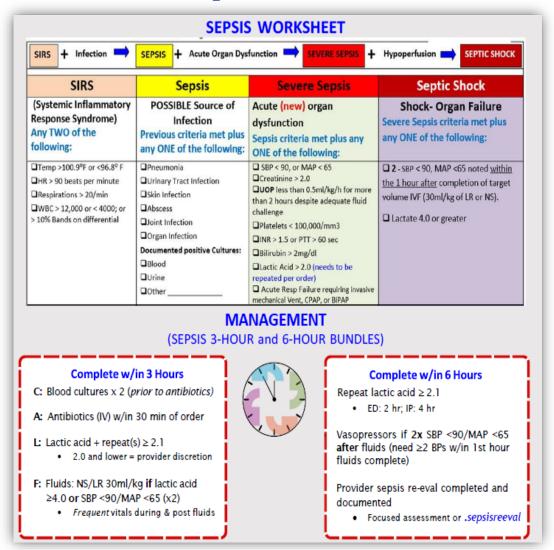


Sepsis worksheet

Sepsis Worksheet Hartford HealthCare SIRS + Infection SEPSIS + Acute Organ Dysfunction SEVERE SEPSIS + Hypoperfusion SEPTIC SHOCK								
SIRS + Infection -	SEPSIS + Acute Organ Dys	Severe Sepsis +	Septic Shock					
(Systemic Inflammatory Response Syndrome) Any TWO of the following:	POSSIBLE Source of Infection Previous criteria met plus any ONE of the following:	Acute (new) organ dysfunction Sepsis criteria met plus any ONE of the following:	Shock- Organ Failure Severe Sepsis criteria met plus any ONE of the following:					
□Temp >100.9°F or <96.8° F □HR > 90 beats per minute □Respirations > 20/min □WBC > 12,000 or < 4000; or > 10% Bands on differential	□Pneumonia □Urinary Tract Infection □Skin Infection □Abscess □Joint Infection □Organ Infection □Ocumented positive Cultures: □Blood □Urine □Other	□ SBP < 90, or MAP < 65 □Creatinine > 2.0 □UOP less than 0.5ml/kg/h for more than 2 hours despite adequate fluid challenge □Platelets < 100,000/mm3 □INR > 1.5 or PTT > 60 sec □Bilirubin > 2mg/dl □Lactic Acid > 2.0 (needs to be repeated per order) □ Acute Resp Faillure requiring invasive mechanical Vent, CPAP, or BiPAP	□ 2 - SBP < 90, MAP <65 noted within the 1 hour after completion of target volume IVF (30ml/kg of LR or NS). □ Lactate 4.0 or greater					
Notify Provider that the patient meets SIRS criteria Orders: -Blood Cultures -Lactic Acid	Notify Provider of symptoms and possible Sepsis criteria Orders: -Blood Cultures -Lactic Acid -IV Antibiotic	Notify Provider of symptoms and possible Severe Sepsis criteria Orders: -Repeat Lactic Acid w/in 6 hr: ED: Q2H IP: Q4H -NS or LR @ 30ml/kg: If (2) SBP < 90 or MAP<65 Infusion rates must be greater than 125ml/hr. *Monitor VS during and within 1 hr after completion- at least 2 BPs * *ED SBAR/Handoff: .eastSBARsepsis	Notify Provider of symptoms and possib Septic Shock criteria *Monitor patient closely & document VS frequently Orders: -NS or LR @ 30ml/kg					

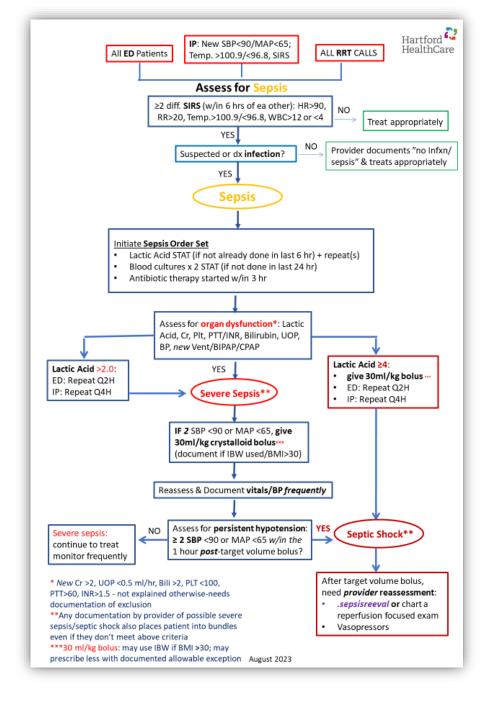


Sepsis mousepad





Sepsis workflow





Sepsis handoff tool Quality improvement project

						Patient L
Epic SBAR for Septic Patients .eastSBARsepsis	RN/Unit/Date_ RN/Unit/Date_					
SEPSIS CARE CHECKLIST		YES 🗸	NO	N/A	1	If 'yes' or dia
SEPSIS: 2 SIRS + Suspected Infection?						"Severe Se "Septic Shoo proceed with
3-H	IOUR BUNDLE				٧,	proceed with
2 Blood Cultures Drawn (before antibiotics)?	•					Fluids: Lactic A Initial Hypoten
Initial Lactic Acid Drawn?						YES = Patient n *30 ml/kg = Targ
IV Broad Spectrum Antibiotics Given?						 Provider can body weight
Target Volume* Fluids Given (Initial Hypotensi (Last bag of target volume needs to be started w/i		Bag#1 m Bag#2 m Bag#3 m Bag#4 m				>30 (need he documented document ar **Initial hypotei 2-58P <90 an
6-H	OUR BUNDLE					
Repeat Lactic Acid Drawn? (Initial 2.1 or great Repeat in 2 hr ED and 4 hr IP	er <i>or</i> per provider order)				Д	Lactic acid ≥2.1 Sepsis • Also see wor
≥2 BPs Post-Fluids (Target Volume)?					\vee	other organ o
Document frequent vitals during and post-fluids to assess f	or persistent hypotension.					Persistent Hyp
Provider Notified (and Documented) of Targe						- Septic Shock ***2-SBP <90 or
Provider must now perform and document a Tissue Reperf	usion/Sepsis Re-evaluation				- (AFTER Target Vol Persistent Hypot

Current (revised) version

NOT Part of the Permanent Medical Record	"NOT Part of the Permanent Medical Record"					
Hartford HealthCare Connect To Healthler East Region SEPSIS ALERT / HANDOFF TOOL						
ADEQUATE IV ACCESS (2 participation) these OR central line access gradients()						
[] BLOOD CULTURES - Collected within Shrs of presentation time.						
-Must be drawn and documented before initial antibiotic is administered. (Fine completed within last 24fer - repeat) Description of 3						
[] ANTIBIOTIC Name Given: Date/Time Initial Abs should be started with in Shrs of presentation time. Always give monotherapy abx (i.e. Rocephin, Levaquin, Zosyn, Unasyn, Cefepime) first BEFFORE longer infusing antibiotics (e.g., Vanco).						
[] LACTIC ACID drawn at: Date/Time and documented within Shre of presentation time.						
[] REPEAT LACTIC ACID if ANY table is ≥ 2.1 - ordered & drawn within: Q2hr (ED) or Q4hr (IP) per provider on 1st positive Lactic value Repeat drawn at Date/Time Repeat canceled	dier.					
[] PATIENT WEIGHT (circle one) Actual or Stated HEIGHT (for BMMSW calculation)						
[] CRY\$TALLOID FLUID\$: LACTATE <u>></u> 4.0 <u>OR</u> SBP <90 or MAP<65, or dx Septic Shock Required volume of crystalloid fluids (Wt. in Kg x 30ml) =mi						
[] IV FLUID'S influeed (NS or LR) at 30ml/kg **rate must be greater than 125ml/hr to quality a Bag 1 fme: start end						
[] ASSESS FOR PERSISTENT HYPOTENSION (≥ 2 - SBP < 90/MAP<65) within 1 hr after completion of 30ml/kg crystalioid fluids BP#1						
[] IF POSITIVE FOR PERSISTENT HYPOTENSION, START VASOPRESSORS Date/Time	-					
[] PROVIDER FOCUSED EXAM DOCUMENTED Date/Time (within 2 hr after last bag)						
Sepsis Guidelines & Data is an Epic tool located in the sidebar report (IP) that can assist with identifying the above information in addition to providing clarity on the Sepsis Core Measure requirements (ED: hover over Sepsis column or Icon on ED dashboard). **NOT PART OF PATIENT'S PERMANENT EHR						
SBAR documented prior to admission transfer: .eastSBARsepsis						



Where are we now?



Thank you.

Tania Kosmo, MSN, RN, CNL

Quality Performance Improvement Specialist, HHC East Region

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Phone: 860.456.6883 Fax: 860-456-6823 Email: tatiana.kosmo@hhchealth.org





Convergence HQIC Sepsis Honor Roll



HQ Together we can go further, faster.



The Problem





The Need



The Idea



The Implementation



The WIIFM

- Recognition at virtual event
- Media kit to be shared with Board, Hospital Leadership and Hospital Staff
- Inclusion in online community forum for ongoing collaboration
- Chance to share their stories at September 2023 Sepsis
- The ability to benchmark against other hospitals, and to easily identify new change ideas to test
- IMPROVED OUTCOMES FOR THE PATIENTS THEY SERVE

Hospital Self-Assessment: Four Domains

Cross-cutting Organizational Strategies

Identification of Sepsis

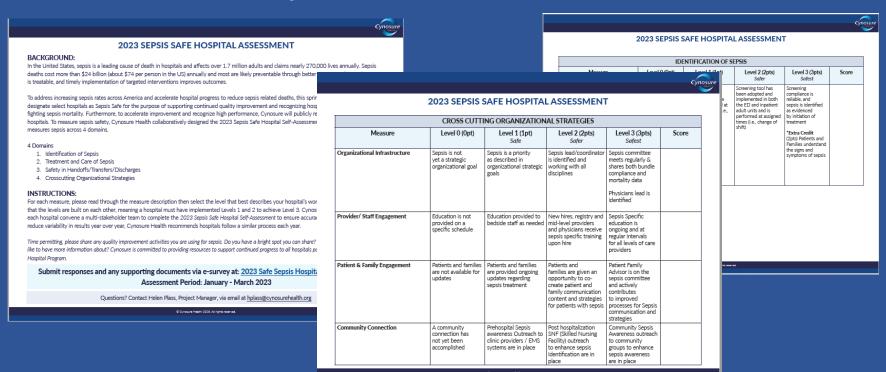
Safety in Handoffs / Transfers / Discharges

Treatment and Care of Sepsis

Hospital Self-Assessment: Maturity Model



Hospital Self Assessment



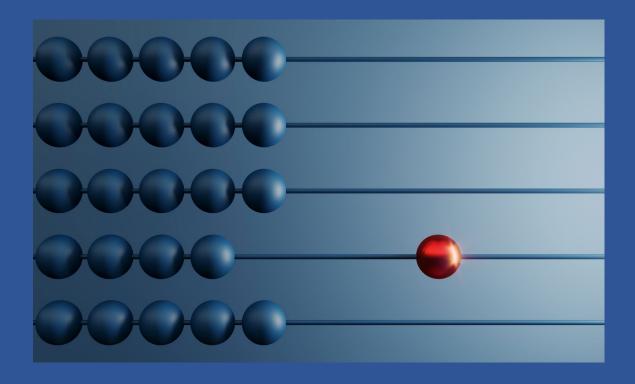
Hospital Self-Assessment: The Results

Four Tiers of Recognition:

- 1. Foundational (4%)
- 2. Commendable (65%)
- 3. Exceptional (26%)
- 4. Superior (4%)



What Did We Learn?



46% report ongoing compliance with sepsis bundle within 3 hours.

42% of our hospitals report having a standardized, reliable screening tool that is used in the ED and inpatient areas.

48% report ongoing compliance with Hour 1 bundle.

90% report the use of an automated alert in the medical record, however 42% have automated that further to include automatic notification to medical emergency or sepsis team.

What Did We Learn?



Participating hospitals with the lowest scores in the self-assessment also reported that sepsis is not yet an organizational strategic goal.

What Did We Learn?



Plan to have highest performing hospital teams share best practices and advice for others during Sepsis Awareness Week to educate and encourage other hospitals to continue their sepsis improvement journeys.

What's Next?



Thank You!

Kim Werkmeister **Convergence HQIC** kwerkmeister@cynosurehealth.org



HQ Together we can go further, faster.





Discussion

- What impactful actions can you take as a result of the information shared today?
- How are you able to increase engagement within your facilities to ensure a true change in patient safety?
- Based on what you heard today, what activities do you currently have underway that can leverage immediate action over the next 30, 60 or 90 days?



Final Thoughts





Join Us for the Next Community of Practice Call!

Join us for the next Community of Practice Call on October 12, 2023 from 1:00 – 2:00 p.m. ET

We invite you to register at the following link: https://zoom.us/webinar/register/WN ASI I3p TEyx VY YYFFeA

You will receive a confirmation email with login details.





Thank You!



Your opinion is valuable to us. Please take 4 minutes to complete the post assessment.

We will use the information you provide to improve future events.

