How to Use the Chat Box Feature

To send a Chat message:

Open the Chat Panel



- > Scroll all the way down
- > Select "Everyone"
 - > Do not select "All Attendees"
- ➤ Type message in Chat Text Box, press Enter on your keyboard



Enter in Chat:

- Name
- Role
- Organization
- State



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IPRO HQIC Sepsis: Lessons Learned **Part One**

A Two-Part Series:

September 19, 2023

October 17, 2023

2-3 p.m. EST

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Kentucky Hospital Association Q3 Health Innovation Partners

IPRO HQIC

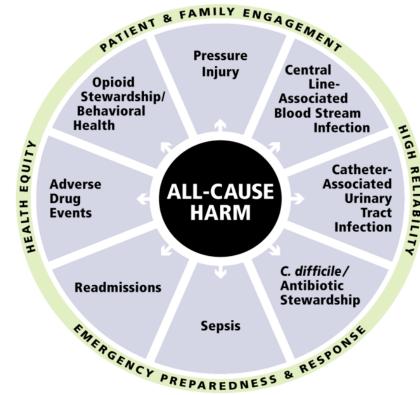
What are HQICs?

Data-driven. It's the data that help hospitals measure progress toward quality improvement (QI) gains. Hundreds of thousands of patients and families benefit from CMS-supported QI projects that make today's hospital stays safer and improve the quality of hospital care.

Dynamic and collaborative. HQICs partner with small, rural and critical access hospitals and facilities that care for vulnerable and underserved patients. Their quality improvement consulting and expertise – offered at no cost to the hospitals – help hospital leaders and clinical teams develop local QI projects designed to:

- Reduce opioid misuse and adverse drug events.
- Increase patient safety with a focus on preventing hospital-acquired infections.
- Refine care coordination processes to reduce unplanned admissions.

HQICs also share their QI resources to assist hospitals with pandemic responses and emergency preparedness.



The federally funded Medicare Hospital Quality Improvement Contractor (HQIC) in 12 states

IPRO (joined by) **Healthcentric Advisors** Kentucky Hospital Association Qlarant **Q3** Health Innovation Partners Superior Health Quality Alliance American Institutes for Research (AIR) **O**Source

States

PA DE MD MΙ MN NJ WI



Sepsis Treatment Should Begin IMMEDIATELY



Sepsis and septic shock are medical emergencies and we recommend that treatment and resuscitation begin immediately.

Best Practice Statement



[sep-sis] • n. The body's overwhelming and potentially life-threatening response to an infection. It can lead to tissue damage, organ failure, and even death.







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Sepsis – Costs of NOT Coordinating Hospital-wide Care

Increasing incidence Significant cost burden

Risk of mortality Risk of readmission

8 8 8 8

Over 1 million annual admissions for severe sepsis¹



Annual acute care costs for sepsis exceeds \$24 billion²



40 – 60% mortality rate for severe sepsis and septic shock³

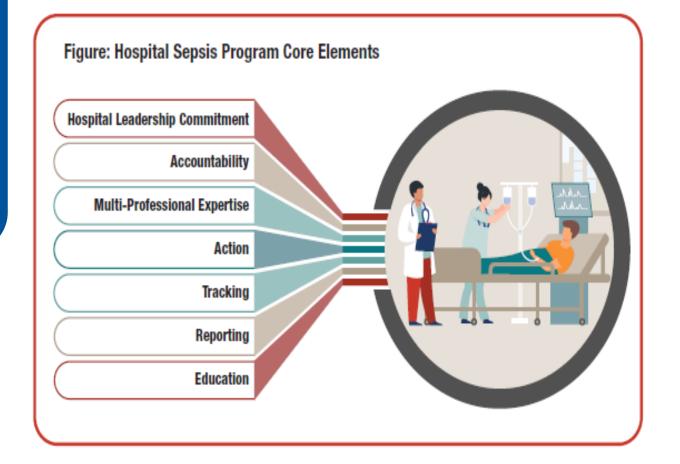


Nearly one half are readmitted within six months²

Premier 2019

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2023 CDC Hospital Sepsis Program Core Elements



Who is the Hospital Sepsis Program Core Elements guidance for?

Clinicians, hospitals, and health systems leading efforts to improve the hospital management and outcomes of sepsis.

Effective leadership is required to engage the multidisciplinary expertise required to support the care of patients with sepsis, as detailed later in this document.



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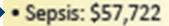


Hospital Quality Improvement Contractors

Sepsis Care Improvements = Savings

CMS Standardized Cost per Event

How much can your hospital realize in savings?



 Central line-associated bloodstream infections: \$55,132

C. difficile infections: \$19,780

Pressure ulcers: \$16,624

All cause readmissions: \$16,402

 Catheter-associated urinary tract infections: \$15,807

 Methicillin-resistant staphylococcus aureus: \$7,683

Adverse drug events: \$6,585

Source: CMS 2022 HQIC Cost Savings File



Kentucky Hospital Association

IPRO HQIC Gap Assessment Opportunities for Improvement



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Standards for Hospital Sepsis Care		% Not Fully Implemented IPRO HQIC Gap Assessment
Consistently use a "time zero" method for tracking the timing of interventions	٧	63%
Rapid Response Team (RRT) or sepsis alert process is in place for new sepsis identification	٧	72%
Process in place to document interval from time of positive sepsis screening to time of antibiotic administration	٧	72%
Utilization of real-time method for tracking sepsis patients	٧	78%
Process in place to monitor and identify concerns and barriers to bundle implementation	٧	62%
Designated Sepsis Lead/Coordinator regularly rounds in clinical areas	٧	84%
Data are stratified to identify disparities to facilitate improvements in health equity		91%
Explicit sepsis communication handoffs are utilized between health care staff for diagnosis and		82%
treatment plan	٧	
Sepsis data are shared with patients/families		81%
Mandatory annual training on sepsis early recognition for providers		75%
Initial and ongoing sepsis education for providers		65%
Patient and family education process defined and tools developed to assist with implementation		78%



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Today's Speakers

Baptist Health Louisville

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Today's Speakers

Karan Shah, MD

Baptist Health Louisville, Vice President of Physician Integration

- Karan Samir Shah, MD, MMHC, is system physician advisor for Baptist Health and Vice President for Physician Integration. A member of the hospital's executive leadership team, he provides leadership to case management, directs strategic projects, collaborates with the Chief Medical Officer and quality department to improve overall care. As a system leader, he works closely with leaders of case management, denials management, revenue cycle, and managed care organizations to develop a successful internal utilization management program, which helps decrease denials for all 9 hospitals.
- Dr. Shah graduated with a Bachelor of Science in biology and a Bachelor of Arts in religious studies from Bucknell. He earned a medical degree from Wake Forest University School of Medicine and completed an emergency medicine residency at Vanderbilt University Medical Center. He obtained a Master of Management in healthcare from Vanderbilt University Owen School of Management. At Vanderbilt University, he completed a hospital and clinics administrative fellowship at the medical center. Dr. Shah is currently a candidate for a Master of Science in health informatics from University of South Florida Morsani College of Medicine and will receive his degree in December 2024.



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Today's Speakers (continued)

Stacey Monarch BSN, RN, CPHQ
Sepsis Coordinator, Baptist Health Louisville
Facilitated organizational TJC sepsis certification
Critical care nurse
Firsthand experience with the devastating effects of sepsis







Sepsis Opportunities in the Emergency Department (ED)

Stacey Monarch, RN, BSN, CPHQ
Sepsis Coordinator, Baptist Health Louisville

Karan Shah MD, MMHC, FACEP VP, Physician Integration



Baptist Health Louisville

- Louisville, KY
- 519 licensed beds
- 44 ED beds
- 150-200 severe sepsis/septic shock patients per month





How to Improve Sepsis Care in the ED?

- Gap Analysis
- Set Goals
 - Decrease door-to-antibiotics time
 - Improve sepsis mortality
- Break down bundle into manageable pieces
 - Physician buy-in
 - Nursing buy-in
 - IT fixes
 - Process improvement



Clinical Time Zero

- Arrival time vs. triage time vs. sepsis recognition
 - Differences
 - How to choose?
- Why did we choose arrival time?
 - Consistent with other measures
 - Decrease confusion
 - Right thing for the patient

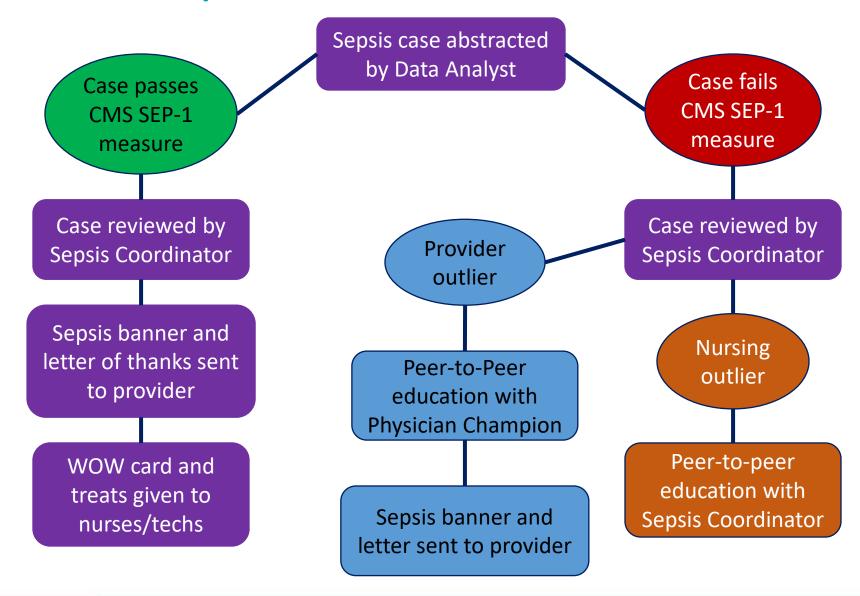


Communication with Frontline Staff

- Focus on processes, not people
- Negative feedback = opportunities for improvement
- Reward successes (5:1 feedback)
- Focused, real-time, peer-to-peer feedback
- Peer-to-peer reviews

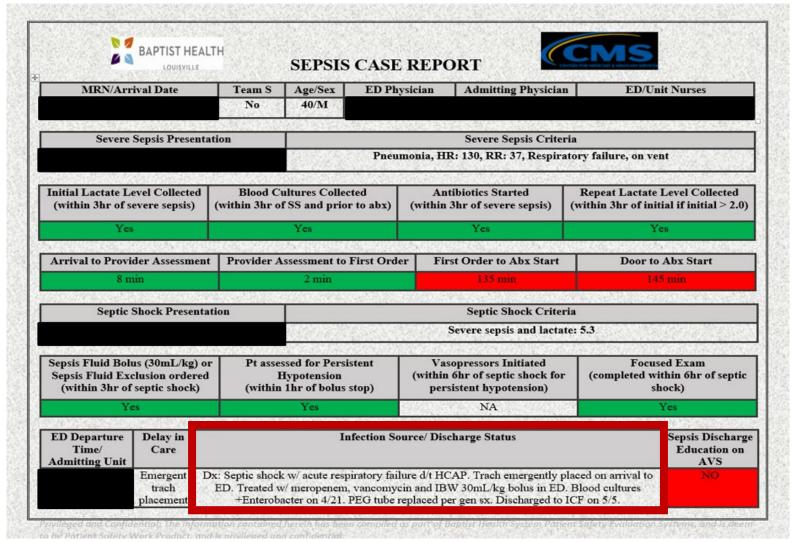


Standardized Sepsis Case Review





Sepsis Banners



Reporting patient outcomes to admitting providers



Partnering with CIT

- Clinical IT representative on Sepsis Team
- EMR doesn't treat sepsis
- Feedback from Frontline
 - Fine-tune existing workflow

- CIT opportunities:
 - One-click ordering
 - Order sets
 - BPAs
 - Electronic Checklists
 - Reports
 - Analytics



Early Goals of Care Discussions

- Partner with Palliative Care Team
- Early goals of care discussions for patients presenting with poor prognosis
 - Out of hospital cardiac arrest
 - Likely to expire in the hospital or over the next 12 months
 - Readmissions: 3 or more admissions/ED visits in last 6 months
 - Functional decline and/or advanced dementia
 - Multiple comorbidities being admitted to critical care unit



Any Questions?



Focusing on Bundle Elements



Sepsis Screening

- To be completed:
 - Triage
 - Q shift (12 hours)
 - Sepsis Predictive Analytic Model prompts
 - With any acute decline in patient's condition
 - Discharge

Sepsis Screen	ing		at triage, Qshift, BPA prompts
 Does patient have 2 SIRS criteria? 	• Temp < 96.8 or > • WBC < 4,000 or >		• HR > 90 • RR > 20
2. Does patient have known/suspected infection?	Cough/Sputum, Abdominal pain/Diarrhea, Line/Device Infection, Wound/Cellulitis, Dysuria, Headache w/ Stiff Neck		
3. Does patient have any signs of end organ dysfunction?	 SBP < 90 or MAP Creatinine > 2.0 UOP < 0.5mL/kg/ Total Bilirubin > 2 Resp failure requ 	/hr • 2.0	PLactic Acid > 2.0 PLT < 100,000 INR > 1.5 nical ventilation

If YES to ALL, screen is POSITIVE -> Notify MD and start sepsis bundle



Code Sepsis Criteria

- Adjust screening to meet the needs of population
- Empower nursing to advocate for septic patients
- Opening dialogue amongst treatment team
- Okay to be wrong!

Team S

MD ordered blood cultures? Call Team S.

Patient has Documented or Suspected Infection?

- Abdominal pain, distention, diarrhea
- Altered mental status
- Cough, sputum
- Wound infection or cellulitis

- Headache with stiff neck
- Line or Device infection
- Dysuria
- Order for blood cultures

AND Any TWO of the following:

- Temp < 96.8 or > 100.4
- HR > 110

- O2 Sat < 90%
- SBP < 100

Call Team S and Notify MD immediately!



Blood Culture Bottleneck

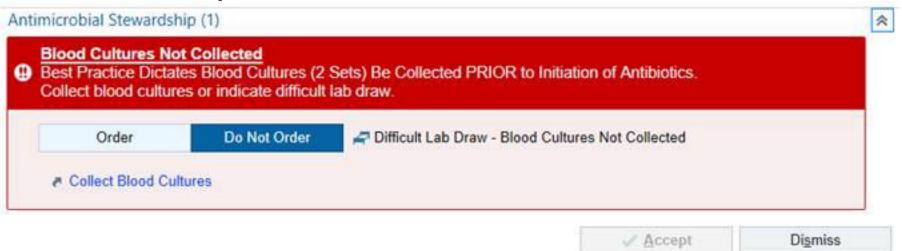
- Nursing Education: team communication for missing orders/hard stick
- Provider Education: answering the why behind Team S
- Time consuming task
- Equipment immediately available
- Process to prioritize septic patient





Blood Culture Collection vs. Documentation

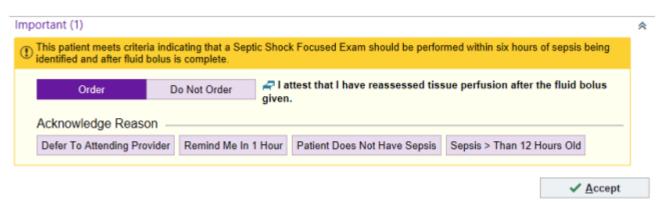
- Collecting Blood Cultures → 2 separate tasks:
 - Collection of sample
 - Documentation of collection in EMR
- Nursing Education: team communication, proper documentation
- BPA creates a safety net





Focused Exam

- Education with ED providers
- SmartPhrase attestation
- Education with Intensivists Focused Exam in H&P
- BPA reminder to enter SmartPhrase
- Attestation order embedded in BPA





Safe Patient Handoff

Sepsis Checklist	
∰ Blood Cultures Not Ordered	Go To Sepsis Navigator
⊕ Lactate Not Ordered	Go To Sepsis Navigator
⊕ Lactate Not Resulted	
Repeat Lactate Not Ordered	Go To Sepsis Navigator
⊕ Fluid Resuscitation Not Ordered	Go To Sepsis Navigator
Fluid Resuscitation Not Administered	
⊕ Antibiotics Not Ordered	Go To Sepsis Navigator
Fluid Resuscitation Volume Not Documented	
Sepsis Diagnosis Entered by Provider	Go To Sepsis Navigator
⊕ Focused Exam Note Not Complete by Provider	Go To Sepsis Navigator

Sepsis Checklist

Emergency Department Downtime Form

Patient Sticker

Positive Sepsis Screen	Date:	Time:	Simple	Severe		
Team S called @	S called @ (if applicable) Circle one		e one			
Sepsis Bundle						
 Initial Lactic Acid 	Collection Time:_		Result:			
Blood Cultures (collect prior to starting antibiotics)						
Collection Time - Set 1: Collection Time - Set 2:						
Antibiotics administered STAT						
Antibiotic start time -	– first antibiotic:					
Antibiotic start time -	- second antibiotic:		(if applica	ble)		
 Reflex Lactic Acid (required if initial lactic acid > 2.0) 						

-Reflex lactic acid due 3 hours after initial lactic acid collection time

• Fluid Bolus (required for SBP < 90, MAP < 65, or lactic acid ≥ 4.0)

• Vasopressors (indicated for persistent hypotension despite fluid bolus)

Vasopressor Start: _____ Vasopressor Stop: _____

Reflex Lactic Acid Due: _____ Collection Time: _____

Checklist should be sent with patient to next unit if not complete and used for handoff communication. When checklist is complete, place in EMS breakroom. THIS IS NOT PART OF THE PERMANENT MEDICAL RECORD. All documentation must be entered into Epic once downtime has ended.

Updated Nov 2022



Any Questions?

Thank You for Attending Today's Event Join Us For Lessons Learned: Part 2 October 17, 2023 2-3 p.m. EST

We value your input!

Please complete the brief survey after exiting event.

IPRO HQIC & Speaker Contact Information

CarlaLisa Rovere-Kistner, LCSW, CCM, CPHQ
Quality Improvement Specialist
IPRO
crkistner@ipro.org

Rebecca Boll MSPH CPHQ
Senior Director Quality Improvement
IPRO HQIC Project Manager
rvanvorst@ipro.org

Stacey Monarch, BSN, RN, CPHQ Sepsis Coordinator Baptist Health Louisville stacey.monarch@bhsi.com

Rochelle Beard MSN, RN, CPN, CIC, T-CHEST Infection Preventionist,
Kentucky Hospital Association
rbeard@kyha.com

Deborah R. Campbell, RN-BC, MSN,CPHQ, IP, T-CHEST, CCRN alumna
Vice President, Quality and Health Professions
Kentucky Hospital Association
dcampbell@kyha.com

