

IMPROVING PEDIATRIC SEPSIS OUTCOMES

SEPSIS WEBSITE

ohiohospitals.org/sepsis















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Sepsis

Reducing Sepsis Mortality in Ohio Through Early Recognition, Appropriate Intervention

The OHA Board of Trustees identified reducing sepsis mortality in Ohio as one of the key focus areas for OHA and Ohio hospitals. Sepsis is the body's overwhelming and life-threatening response to infection that can lead to tissue damage, organ failure and death. In other words, it's your body's over active and toxic response to an infection. Sepsis impacted an estimated 41,000 Ohioans in 2017. Early recognition and treatment can reduce the morbidity and mortality of sepsis.

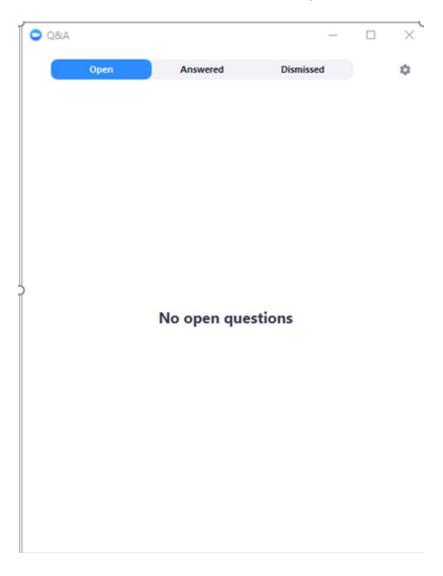
Ohio Hospital Association ohiohospitals.org August 16, 2023

CONTINUING EDUCATION

- The link for the evaluation of today's program is: https://www.surveymonkey.com/r/Sepsis-August2023
- Please be sure to access the link, complete the evaluation form, and request your certificate. The evaluation process will remain open <u>two</u> <u>weeks</u> following the webcast. Your certificate will be emailed to you when the evaluation process closes after the 2-week process.
- If you have any questions, please contact Dorothy Frabott (Dorothy.Frabott@ohiohospitals.org)

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SUBMITTING QUESTIONS



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PRESENTER(S)



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Improving Pediatric Sepsis Outcomes at Akron Children's Hospital



No financial disclosures

Objectives

- Discuss Akron Children's Hospital involvement in national IPSO collaborative to standardize and improve sepsis care for pediatric patients
- Highlight the implementation of IPSO recommendations
- Address the successes and barriers over the last four years
- At the completion of this program, the participant will describe strategies for improving sepsis care for pediatric patients using tools, resources, and best practices.

TRANSPORTS 161 AIR BEAR TRANSPORTS 3,002 GROUND TRANSPORTS





2022 Facts and Stats





2019

Teams Data



2021

We're Back



2022

March Go-live

Resources



February Fire



2022



March EPIC BPA Go-Live



2023

What is IPSO?

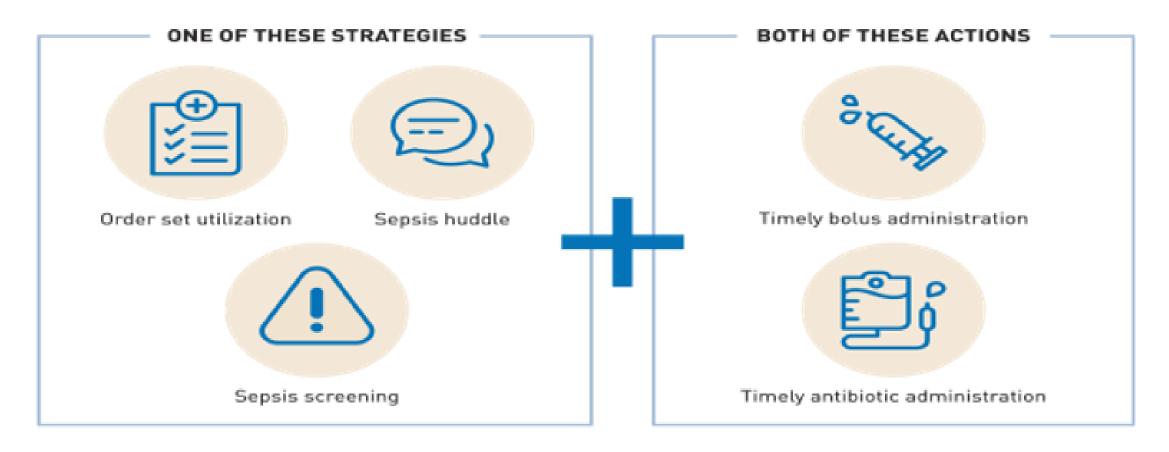
 Children's Hospital Association QI collaborative called Improving Pediatric Sepsis Outcomes

IPSO Suspected Sepsis vs IPSO Critical Sepsis

Decreased mortality with timely treatment



IPSO Recommended Key Metrics



Akron Children's Common Language

Sepsis Red

> Septic Shock

Sepsis Yellow

At Risk for Septic Shock Sepsis Green

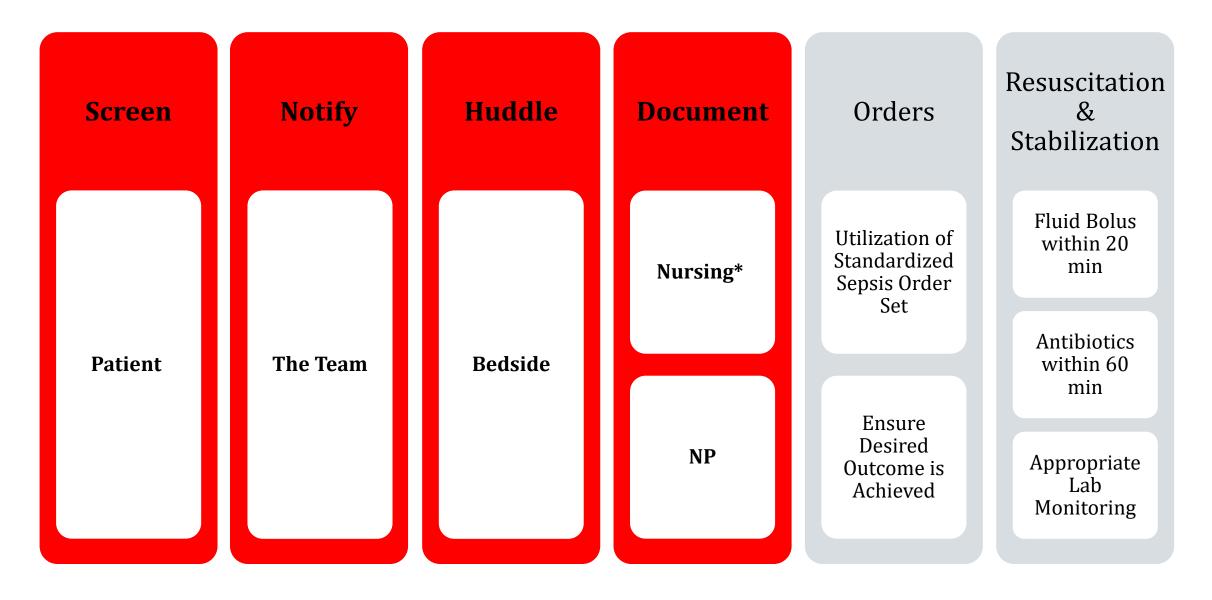
Potential Infection but not at Risk for Septic Shock

How did we get staff on board?

- Multimodal education
- Engagement and Awareness Activities



Sepsis Process Map



Sepsis Trigger Tool



Literature review: PICU specific trigger tools

CHOP PICU trigger tool

• <u>Sepsis Clinical Pathway – Emergency Department, Inpatient and PICU | Children's Hospital of Philadelphia (chop.edu)</u>

KDD and PDSAs

- Feedback from nursing and providers
- Interventions to improve sensitivity and specificity

Early Identification in the ED, Acute Care Floor and Hematology/Oncology Units



Deterioration Index on Acute Care Floors



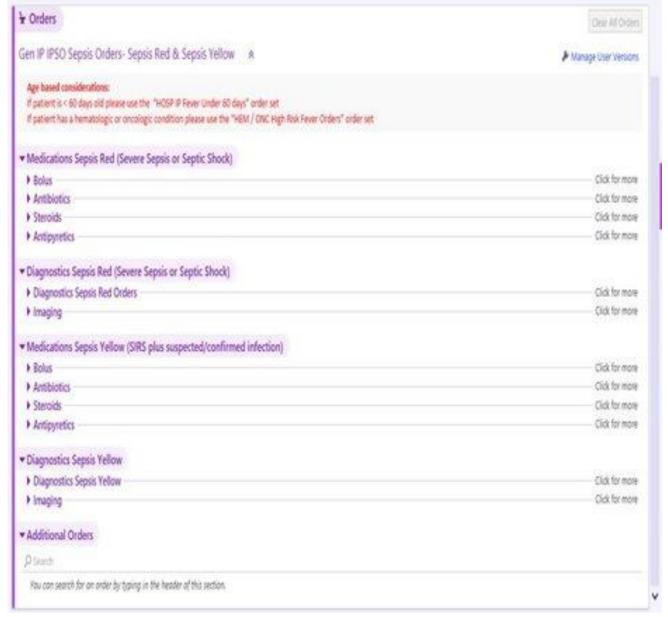
Febrile Neutropenia Pathway in Hematology and Oncology Unit



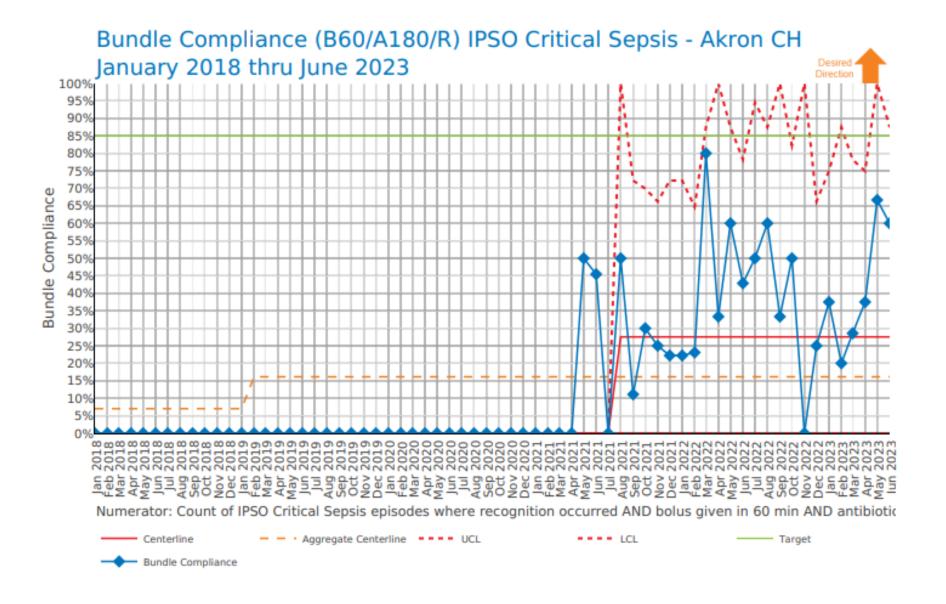
EPIC BPA in Emergency Department



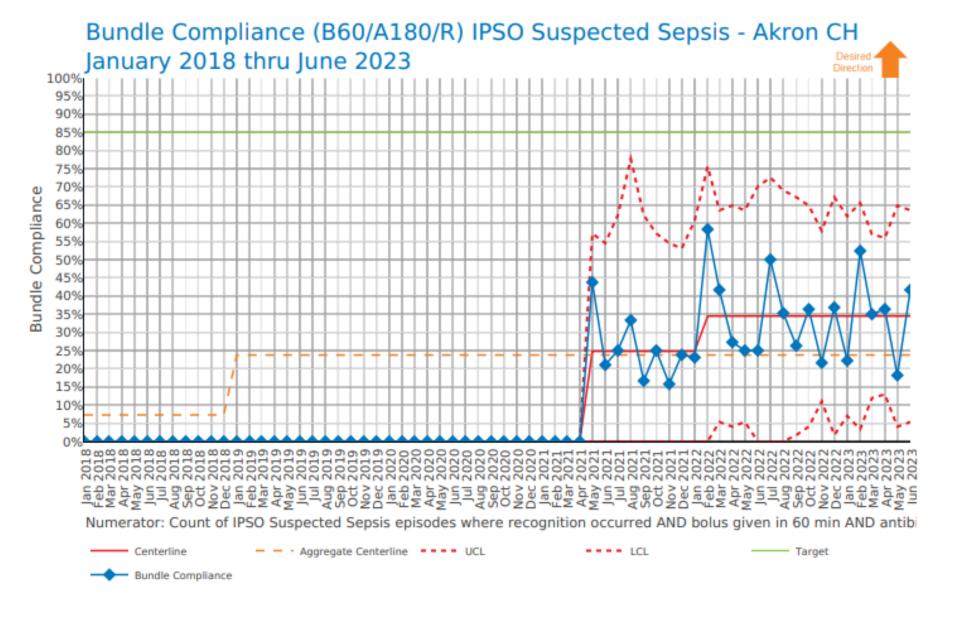
Standardized Order Set



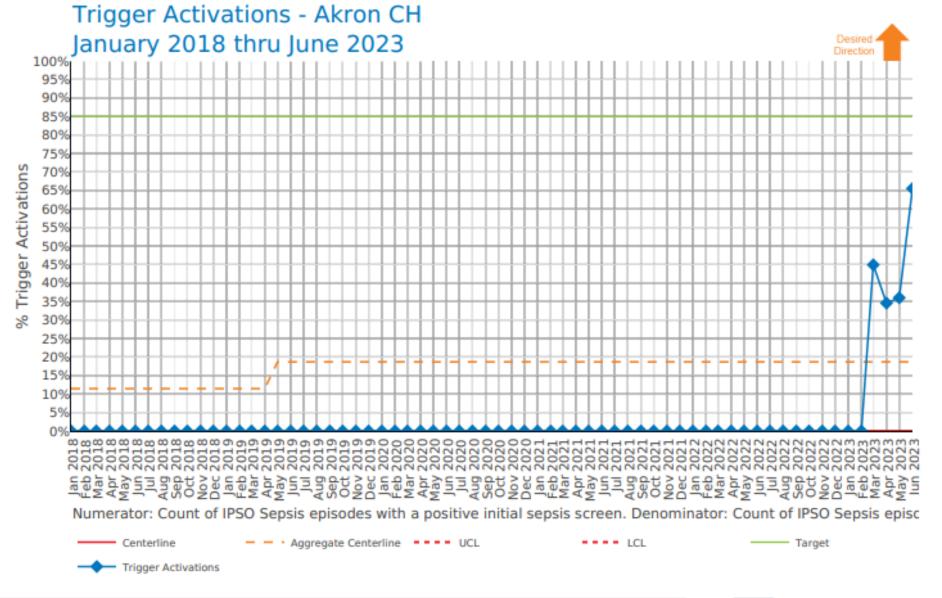




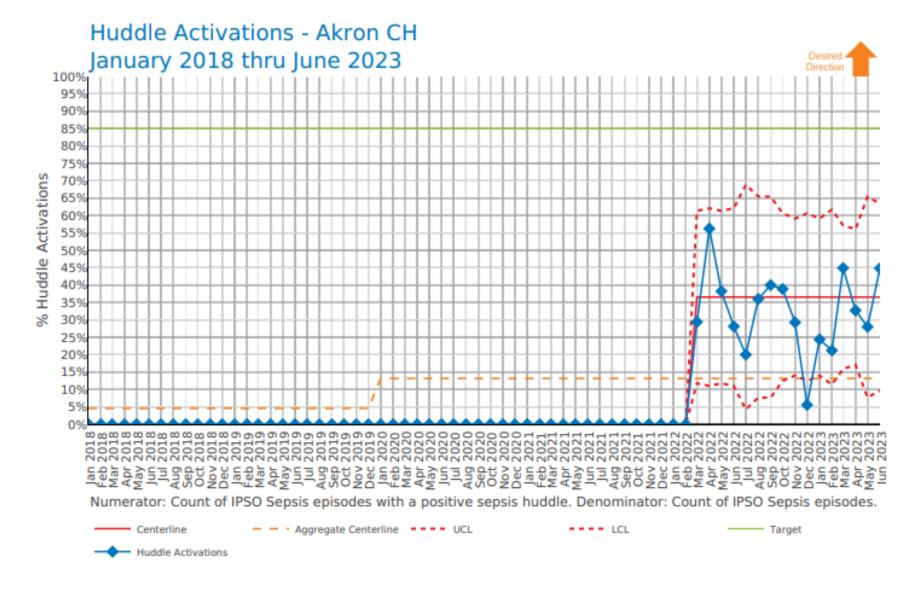




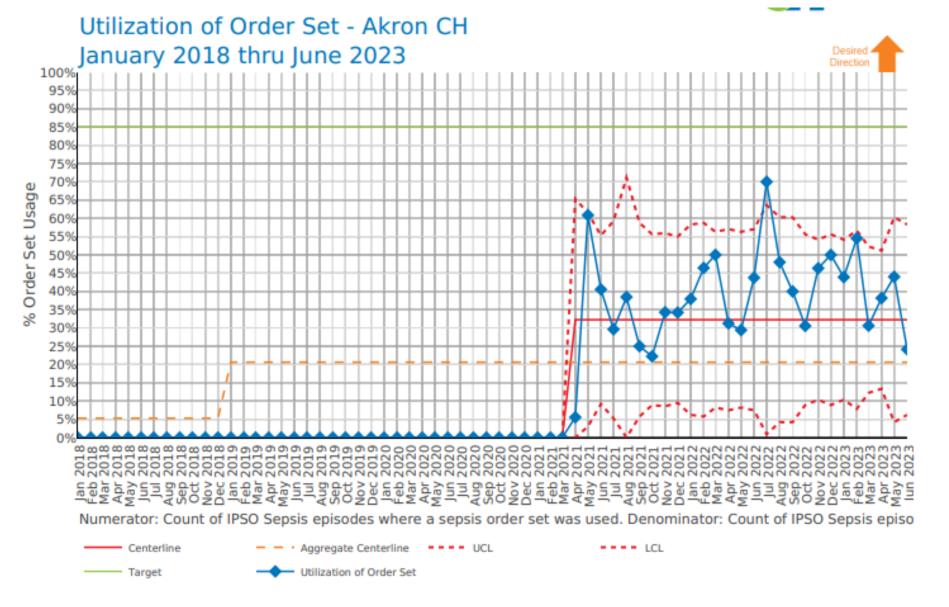




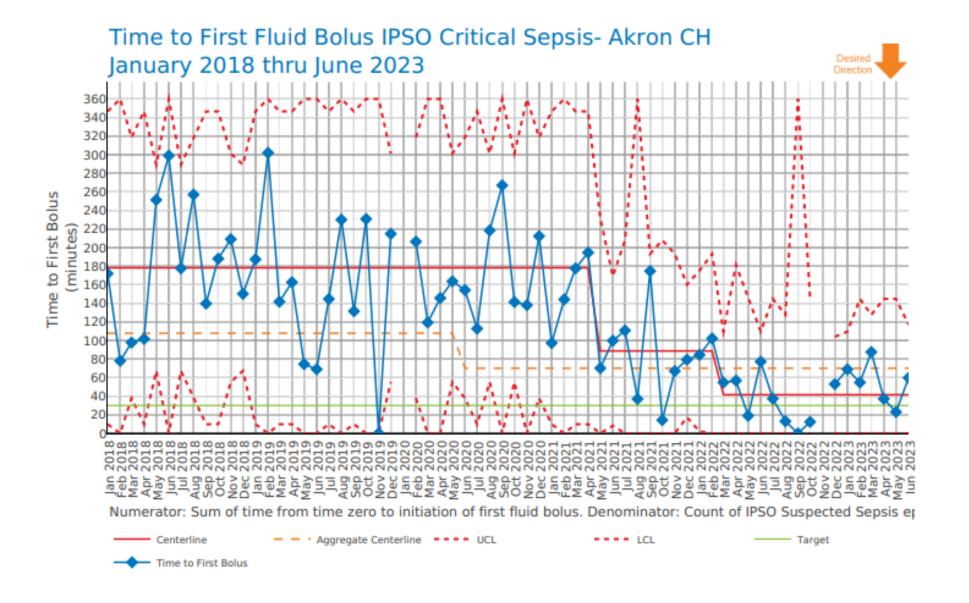




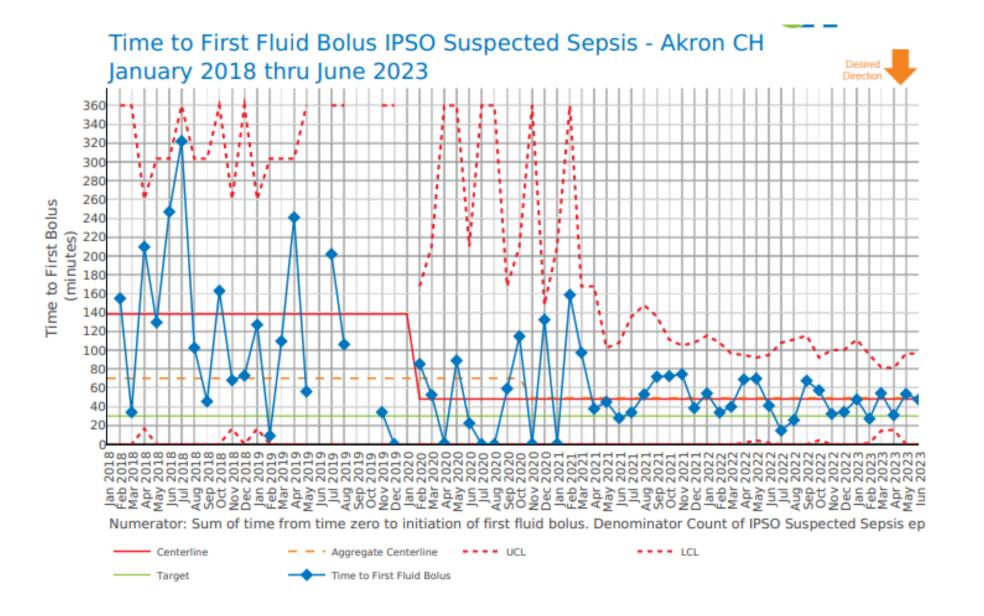




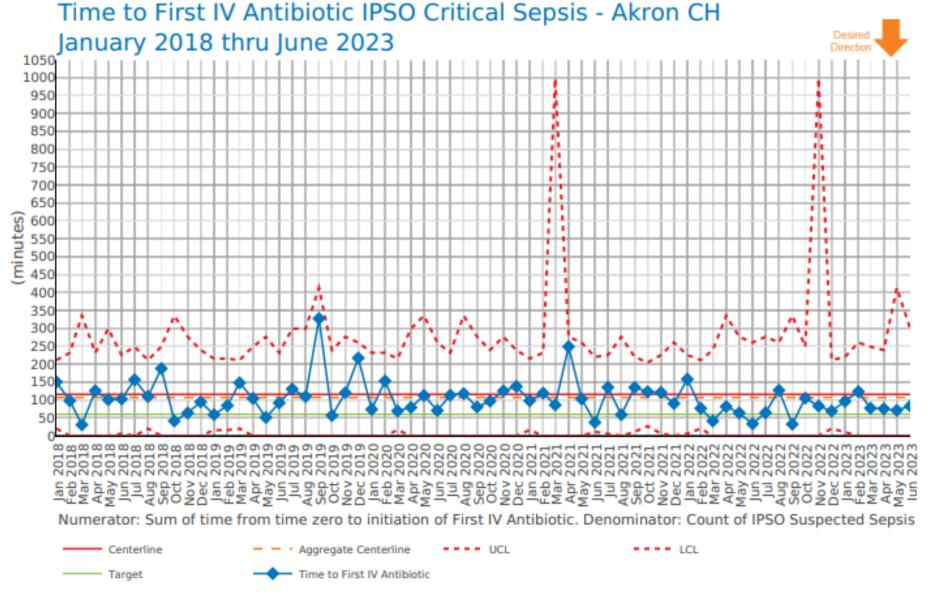




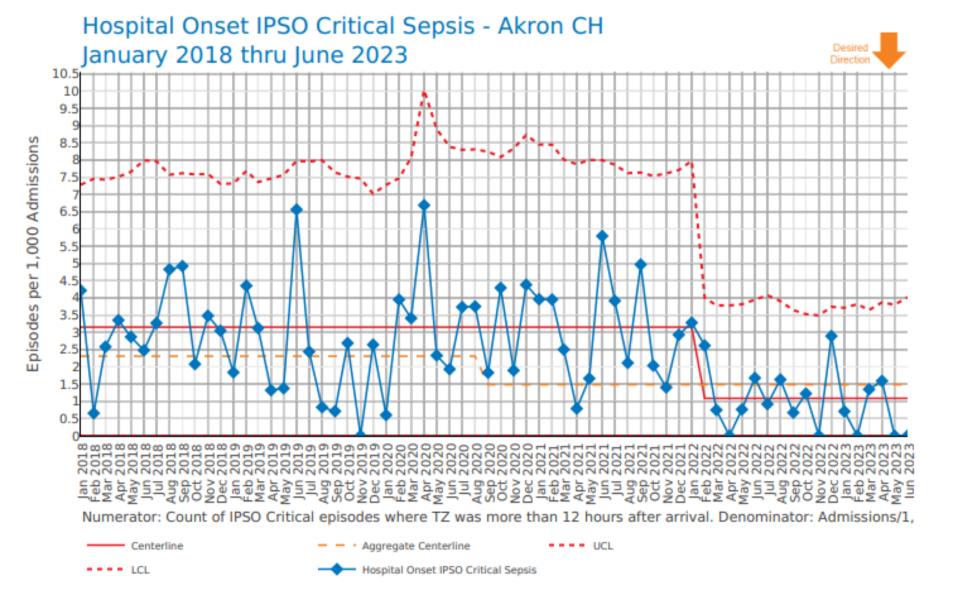




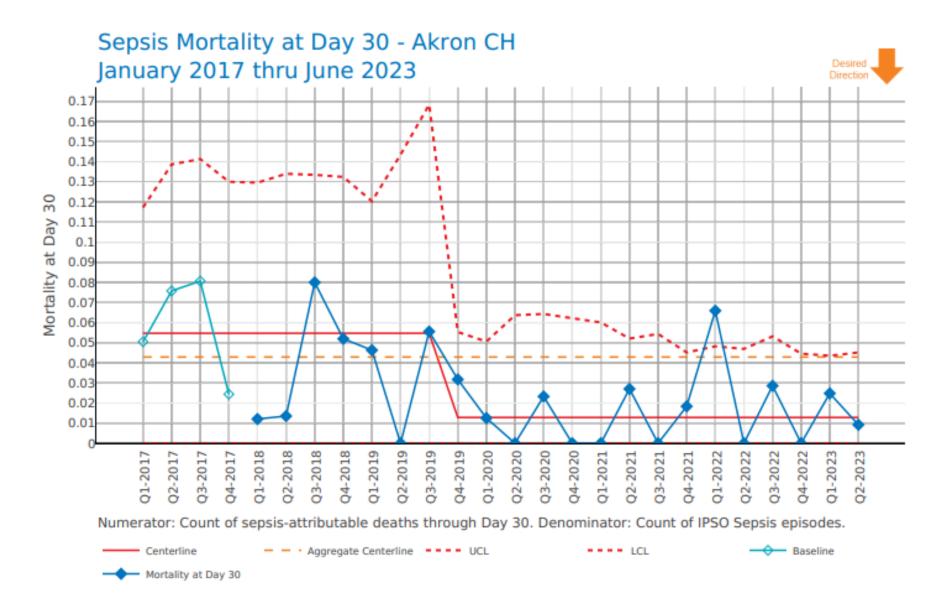


















How do we sustain the momentum?



Focus on the WHY



Adapt and adopt new education and awareness based on priority needs and areas of improvement



Continue to speak SEPSIS



References

- Eisenberg, M. A., & Balamuth, F. (2022). Pediatric Sepsis Screening in US Hospitals. *Pediatric Research*, 91, 351-358. https://doi.org/10.1038/s49310-021-01708-y.
- Paul R, Niedner M, Riggs R, et al. Bundled Care to Reduce Sepsis Mortality: The Improving Pediatric Sepsis Outcomes (IPSO) Collaborative. Pediatrics. 2023;152(2): e2022059938
- <u>Sepsis Clinical Pathway Emergency Department, Inpatient and PICU | Children's Hospital of Philadelphia (chop.edu)</u>

Appendix

PICU SEPSIS TRIGGER TOOL identifies patients at risk for sepsis. Patients with sepsis have an infection which triggers an exaggerated immune response that causes inadequate tissue perfusion leading to organ dysfunction and failure. Hypotension is a late finding. Early recognition and goal directed therapy improves patient outcomes. Documentation to be completed EITHER OF THESE: 08/20 09/21 10/22 11/23 12/00 13/01 14/02 15/03 17/05 18/06 19/07 16/04 with ordered vital Temperature >38.5C or <36 C Either of frequency Tachycardia*or >10% baseline Date: PLUS, ONE OF THESE: Mental Status Abnormality* Circle: one of these Perfusion Abnormality* AM or PM shift? conditions Hypotension*/Increasing inotropic support (>0.05 increase in 1 hour) Tachypnea* Yellow/Green? Urine output <0.5ml/kg/hr CALL A **SEPSIS** Additional Factors Present* HUDDLE SEPSIS HUDDLE COMPLETED: Respiratory Tachycardia Systolic BP Diastolic BP MAP Age rate Anxiety, restlessness, agitation, irritability, inappropriate Place Mental Status Abnormality crying, drowsiness, confusion, lethargy, obtundation <75 <30 <45 0-30 days >65 >160 1-12 months >40 >140 <74 <35 <50 patient sticker here Cool extremities, delayed capillary refill (>3 seconds), >30 >130 <76 <45 <55 1-3 years Perfusion Abnormality diminished pulses, mottling or flushed, warm extremities, bounding pulses, flash capillary refill (<1 second) >30 <82 <50 <60 3-6 years >110 6-12 years >25 >100 <94 <50 <65 >25 >90 <94 <50 <65 12+ years Additional Factors Present Existing laboratory findings Metabolic acidosis, elevated lactate, thrombocytopenia, coagulopathy, or elevated creatinine Other factors Other physical exam findings, including petechial and/or purpuric rash or erythroderma, requires change in temperature control management (actively cooling or warming) High-risk conditions <56 days of age, central line presence, invasive devices (ETT, Trach, EVD, PD Drain, Foley), immunocompromised (BMT, solid organ transplant, malignancy, asplenia/sickle cell disease), pre-existing neurologic dysfunction that limits mental status evaluation

OHA collaborates with member hospitals and health systems to ensure a healthy Ohio

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