



**SEPSIS**  
**KENTUCKY**

**Kentucky Sepsis Consortium**

**SEPSIS**  
**Toolkit**





**SEPSIS**  
**KENTUCKY**

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**Use the QR Code  
to find the Toolkit Online!**



# The Kentucky Sepsis Consortium Journey



## 2012: THE EARLY DAYS

Kentucky Hospital Association (KHA) begins actively assisting hospitals with sepsis work through education, data collection and reporting, quality improvement groups, and individual coaching.



## 2019: SEPSIS ADVOCACY

Work began to create a statewide consortium of hospitals as a result of a sepsis survivor, Darrell Raikes, reaching out to his senator, Jimmy Higdon, to seek legislation to require certain activities with inspections and penalties attached.



## 2020: CONSORTIUM ESTABLISHED

KHA offered to create an improvement collaborative in lieu of proposed regulations. The Kentucky Sepsis Consortium was officially created on June 15.



## HOSPITALS JOIN

There are 94 participating hospitals in the Consortium - 100% of Kentucky hospitals with an emergency department plus one additional facility.



## WHERE WE STAND TODAY

KHA provides assistance and support with: screening tools, treatment protocols, interprofessional education, process & outcome metric collection, best practice processes, coaching, and data reports for assessing progress and benchmarking.

# Sepsis Facts

## ABOUT SEPSIS

- Sepsis is a collection of symptoms when the body has an extreme response to an infection and is a life-threatening emergency. It is not a single disease, so there is no test, by itself, that can identify Sepsis.
- Anyone can get an infection and almost any infection, can lead to sepsis.
- Yearly, at least 1.7 million adults in America develop sepsis.
- At least 350,000 adults who develop sepsis die during their hospitalization or are discharged to hospice.
- Sepsis is the single greatest source of inpatient health care costs in the U.S., creating over \$38 billion in hospital expenses.



# Sepsis Risk Factors

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## AGE

Adults over age 65 and children under age 1 are at the greatest risk to develop sepsis.



## INFECTION

Any type of infection, from minor to severe, can trigger sepsis.



## CHRONIC ILLNESS

Anyone with a chronic illness (e.g., diabetes, cancer, etc.) is at a higher risk for sepsis.

# Symptoms of Sepsis

**S**

Shivering,  
Fever

**E**

Extreme  
Pain

**P**

Pale  
Skin

**S**

Sleepiness or  
Confusion

**I**

"I Feel Like  
I Might Die."

**S**

Shortness  
of Breath

# Kentucky Sepsis Consortium Resources

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- Sepsis in Kentucky Report
- Could it Be Sepsis Poster - For a full-size poster, contact Deb Campbell at [dcampbell@kyha.com](mailto:dcampbell@kyha.com).
- Process Discovery Tool
- Sepsis Screening Tool Badge Card
- Family Script
- Sepsis Supplies List
- Consortium Webinars

**ASK: Could it be**

# SEPSIS?

**Time Matters!**

Sepsis is a medical emergency. Dial 911 or go to the nearest emergency room and ask, **"COULD IT BE SEPSIS?"**

**S E P S I S**

- SHIVERING, FEVER, VERY COLD
- EXTREME PAIN OR DISCOMFORT
- PALE OR DISCOLORED SKIN
- SLEEPY, DIFFICULT TO ROUSE, CONFUSED
- I FEEL LIKE I MIGHT DIE
- SHORT OF BREATH

**SEPSIS KENTUCKY**

The Kentucky Hospital Association Sepsis Consortium is working with hospitals statewide to reduce the morbidity and mortality caused by sepsis.

Anthem BIOFIRE WellCare United Healthcare   
Wolters Kluwer Humana Kentucky Hospital Association

## Sepsis Screening Tool

### 1. Suspicion of infection (Y or N)

### 2. SIRS criteria (need 2)

- a. Temp >100.9 F (38.3 C) or <96.8 F (36 C)
- b. HR >90 bpm
- c. RR >20 bpm
- d. WBC >12,000 or <4,000 or 10% bands



If YES to 1 & 2 = POSITIVE sepsis screen. Order a STAT lactic acid, blood cx x2, CBC, & CMP per protocol. Notify provider.

### 3. Organ dysfunction (need one)

- a. SBP <90 mmHg or MAP <65 mmHg
- b. SBP decreases >40 mmHg from baseline
- c. Creatinine >2 mg/dl or urine output <0.5 ml/kg for 2 hrs
- d. Bili >2 mg/dl
- e. Lactate >2 mmol/L
- f. Platelet <100,000
- g. INR >1.5 or aPTT >60 sec
- h. Acute resp failure with new invasive/non-invasive mechanical ventilation

**YES to 1, 2, + 3 = POSITIVE screen suggestive of SEVERE sepsis**

# Sepsis Screening Tool

## 3-Hour Bundle

Stat lactic acid

Blood cx x2 (before ABX)

Broad spectrum ABX started

Isotonic fluid bolus 30 ml/kg for:

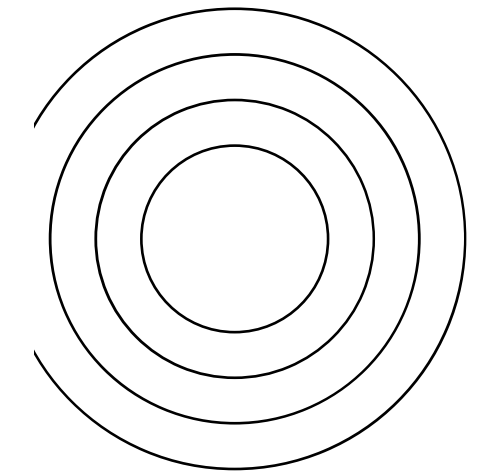
- MAP <65 mmHg
- SBP <90 mmHg
- Initial lactic acid  $\geq$  4

## 6-Hour Bundle

Repeat lactic acid within 6 hrs of time zero if >2

Vasopressors to keep MAP >65 and/or SBP >90

Focused exam with fluid reassessment



Download the  
Screening Tool Badge Card





# Articles and Fact Sheets

Use the QR code on the left to access the toolkit online or click any of the following titles to access resources.

- **How to Reduce Hospital-Onset Sepsis** - January 30, 2023 - Children's Hospital Association
- **Life After Sepsis Fact Sheet** - January 30, 2023 - CDC, Sepsis Alliance, & Rory Staunton Foundation for Sepsis Prevention
- **Nurse-Driven Screening Tool for Early Identification of Sepsis in an Intermediate Care Unit Setting** - February 2015 - HHS Public Access (Gyang, Shieh, Forsey, Maggio)



# Guidance and Sample Policies

Use the QR code on the left to access the toolkit online or click any of the following titles to access resources.

- **Alphabetical Data Dictionary** - CMS
- **Adult Sepsis Policy** - T.J. Regional Health
- **Best Practices for Improving Sepsis Care and Outcomes: Coordinating Sepsis Care Across Your Hospital** - Wolters Kluwer
- **Example Policy** - T.J. Regional Health
- **Hospital Sepsis Program Core Elements: 2023** - CDC
- **Requirement for Documentation: Fluid Volume Changes in Sepsis Resuscitation** - CMS
- **Sepsis Order Sets** - IHI
- **Sepsis Sample Size Requirements** - CMS



# Presentations

Use the QR code on the left to access the toolkit online or click any of the following titles to access resources.

- **Hospital-Based Sepsis Care: The Evolving Definition of Sepsis and the Role of the ED Medical Director and Quality Team in Sepsis Care** - October 13, 2021 - CMS
- **Saving Sepsis Patients Protocol and Practice** - Rebecca Sell, MD - UC San Diego Health Systems
- **SEP-1 and Value-Based Purchasing: What You Need to Know to Prepare** - Sepsis Alliance
- **Severe Sepsis and Septic Shock Management Bundle** - March 24, 2023 - CMS



# Staff Awareness Activities

Use the QR code on the left to access the toolkit online or click any of the following titles to access resources.

- **Do You Know a Sepsis Survivor?** - Baptist Health
  1. Sepsis Story Questionnaire
- **Escape Room** - Cincinnati Children's
- **Pizza Document** (The sepsis pizza document was provided on top of the pizzas delivered to nursing areas within the hospital.)
- **Sepsis Quiz Show** - Children's Hospital of Richmond at VCU
  1. Answer Key



# Tools

Use the QR code on the left to access the toolkit online or click any of the following titles to access resources.

- **Handoff Tool** - T.J. Regional Health
- **Huddle Worksheet** - Baptist Health
- **IP Adult Downtime** - Meadowview Regional Medical Center

