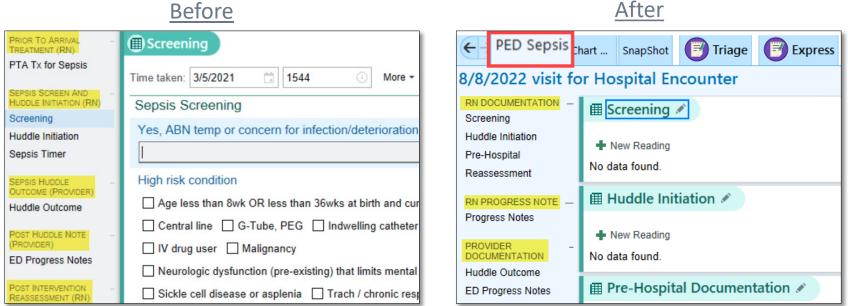


Sepsis Navigator: Before and After



Before

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Challenges Faced	Solution
Not clear who was responsible for which pieces of documentation	Reorganized topics to better define responsibility
Nursing was "turning on" timer with documentation of huddle; No clear process for when to turn the timer off	Removed the Sepsis Timer (at least for the ED at this time)
Staff had to go back to navigator to turn off timer	
When documenting in navigator, staff had to jump out to enter a note	Created a progress note topic for efficiency. Taught nurses how to create note quick buttons for sepsis template



Assessment options that determine (+) Sepsis Screen

Assessment options that Determine (+) Sepsis Screen or Altered Mental Status

(High HR or Low SBP) AND (+ screen AND Fever) OR +BC OR Hypothermia OR (High risk condition + fever (here or home))

High Risk Condition OR Perfusion	OR Cap Refill OR Pulses					
If any one category positive = F	Positive Sepsis Screen					
Perfusion	1					
Skin Color	Cyanotic/Cyanosis					
	Circumoral cyanosis					
	Dusky					
	Mottled					
	Jaundiced					
Skin (circulation)/ Skin Condition	Cool					
	Clammy					
	Diaphoretic					
Skin Abnormality	Petechiae					
Skii Abiolilaity	Purpura					
Pulses						
Pulses Absent						
Thready						
Weak						
Bounding						
Capillary Re	fill					
Capillary Refill Abnormal						
High Risk Cond	lition					
Age < 8wk IR < 36wks at birth and cu	irrently 3m or less					
Bone marrow or solid organ transpl	ant					
Central line						
	lust be with another HRC					
Indwelling catheter (shunt, urinary device)						
Immunodeficiency/immunocompromised						
IV Drug User						
Malignancy						
Pre-existing Neuro dysfunction that limits mental status eval						
Sickle cell disease or asplenia						
Trach/chronic respiratory support						

Altered Mental Status						
LOC	Does not arouse					
	Confused					
Lethargic						
Obtunded						
Stuporous						
	Comatose					
	Unresponsive					
	Somnolent					
Orientation Level	Periods of confusion					
	Caregiver/parent reports change in baseline for patient					
Baseline Neuro	w/neurologic dysfunction that limits mental status eval					

Future enhancement: Irritable-inconsolable



BPA Logic

(Elevated Heart Rate OR Low Systolic BP) AND (+ Sepsis Screen AND Fever) OR

Return for + Blood Culture

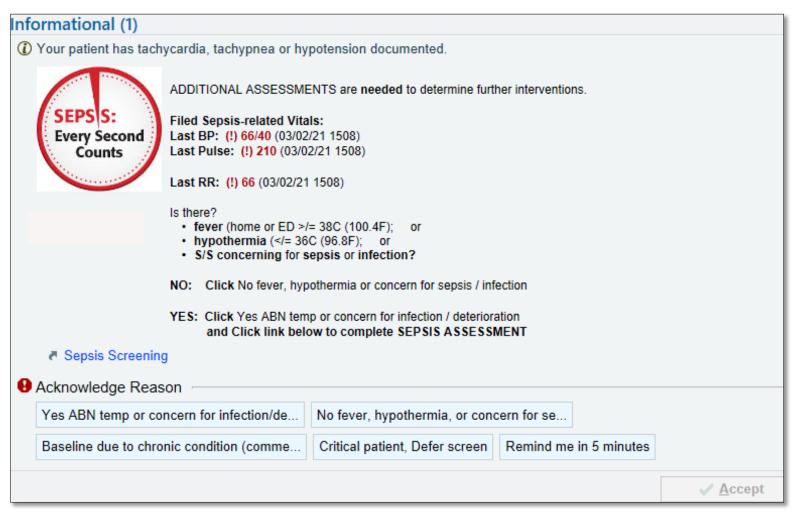
OR

Hypothermia

OR (High Risk Condition AND Fever (here or home))



Nurse Facing BPA: Initial Phase





Informational (1)			
① Sepsis Risk			
SEPSS: Every Second Counts PO Last (!) 32 PTA >/= 3	Patient meets risk criteria for Sepsis!! ssible indications that could have triggered this BPA TEMP: 9.1 °C (102.4 °F) (04/03/23 2105) Temp: Has patient had a temp 88C (100.4F) at home within 24 s of arrival?: Yes		
Posi	tive Sepsis Screen	_	
Click here to doc	ent meets criteria for Sepsis HUDDLE, Notify Attending & Charge RN ument Huddle in Sepsis Navigator		
Acknowledge Rea			
Attending & Charge	to be notified Toxicology related AMS		
		✓ <u>A</u> ccept	Di <u>s</u> miss
© 2023 Epic Systems Co	prporation		



Sustainability



- Ongoing monthly team meetings
 - Review of specific patients
 - IPSO bundle compliance
 - Meet compliance? If not, why (i.e. workflow issues)
- Communication
 - UMMC is an academic center; all residents rotate through Peds ED
 - Nurse huddles with the Peds ED Attending
 - Resident often manages patient & enter orders
 - Exploring efficient way to notify resident once huddle takes place



Sustainability



- Enhance the Sepsis Navigator
 - Add Sepsis Comprehensive Report and Sidebar Report
 - Consolidates pertinent information for rapid decision making
 - More meaningful tool for end users
- IPSO Coordinator runs reports for quality & process review
 - BPA report once per week
 - Provide feedback to the ED IPSO team
 - IPSO champions provide direct feedback to staff
 - Order Set Usage report monthly
 - Provides report to IPSO team targeting providers



Sustainability



- Success of ED work
 - Moving forward with Acute Care and PICU build
 - Speaking same sepsis language
 - Similar tools, modified to unit specific workflows
 - Future sustainability
- COVID/Peds Viral Surge Staffing
 - Relaunch of an improved clinical decision support model (BPA)
 - Created a standardized and streamlined process
 - Promoted compliance despite the large number of travel and new graduate nurses



Appendix

- 1. Sepsis Navigator- Sepsis Screen Topic
- 2. Pediatric ED Sepsis Screen- Paper Version
- 3. PICU Sepsis Screen- Paper Version
- 4. Pediatric Acute Care Sepsis Screen- Paper Version
- 5. Screen shot of Huddle Outcome BPA with link to order set
- 6. Example of future enhancement- Epic Sidebar Report (screenshot from Epic Foundation Build)



Sepsis Screening

Sepsis Screen in Sepsis Navigator

High risk condition
Age less than 8wk OR less than 36wks at birth and current age 3mon or younger 🗌 Bone marrow or solid organ transplant 🗌 Central line 🔲 G-Tube, PEG
🗌 Indwelling catheter (shunt, urinary device, etc.) 🔲 Immunodeficiency / immunocompromised 🔲 IV drug user 🔲 Malignancy
Neurologic dysfunction (pre-existing) that limits mental status eval Sickle cell disease or asplenia Trach / chronic respiratory support
Has patient had a temp >/= 38C (100.4F) at home within 24 hours of arrival?
Yes Other (comment)
LOC
Alert Arouses to touch Arouses to pain Arouses to voice Does not arouse Confused
Restless Lethargic Obtunded Stuporous Comatose Medicated/Se Other (Comm
Orientation Level
Oriented X4 Oriented to person Oriented to place Oriented to time Oriented to situation Disoriented X4
Disoriented to person Disoriented to place Disoriented to time Disoriented to situa Appropriate for dev Periods of confusion
Unable to assess Other (Comment)
Affect/Behavior
Appropriate Calm Cooperative Appears d Combative Crying Fearful Flat Hostile
□ Inappropriate □ Restless □ Uncoopera □ Agitated □ Anxious □ Other (Co
Neuro - Other
Caregiver/Parent reports change in baseline in pt w/ neurologic dysfunction (pre-existing) that limits mental status eval
Color
WDL Pale Cyanotic Flushed Mottled
Integumentary (Skin)
WDL Cool Hot Clammy Diaph
Within Defined Limits: Skin warm, dry and intact
Non-Wound Skin Abnormality
Acne Blister Drying, e Eczema Ecchymosis Excoriation Flaking Hair loss/ Hematoma Hives
Insect bites Lesion Mass Nail disor Petechiae Pruritic Purpura Rash Diaper R Reddened
Red ring Scab Scar Sloughing Weeping Other (Co
Document only skin abnormalities that are NOT wounds in this row.
Add all wounds as Wound LDAs and document assessments in the WDA flowsheet or Avatar.
Capillary Refill
Less Than 3 Seconds Greater Than 3 Seconds
L Brachial Pulse
0=Absent +1=Thready +2=Weak +3=Normal +4=Bounding Doppler Palpable Aline Unable to



PED Sepsis Screening Tool

Place pt label here

Don't forget to get a BP on any

high risk or potentially septic

child regardless of age!

HYPOTHERMIA or MENTAL

STATUS CHANGE is an

automatic **POSTIVE** sepsis

screen

If patient gets called back for

POSITIVE blood cultures, huddle with attending regardless

if screen is + or -

Does the patient have any of the following?

□ Mental status, behavior or orientation □ Skin color, temperature or rashes

**If you answered Yes to any of these,

discuss in Huddle with the Attending.

Abnormal:

□ Pulses

Part 1: Time: Date:

> 1. Tachycardic (age-based): OR Hypotensive:

AND 2. Has fever (home or in ED) OR hypothermia:

**If patient meets both criteria, please move on to Part 2 of Sepsis Screen

Part 2: (circle answer)

Upper Extremity CRT:

<2 secs (flash) 2-3 secs (normal) >3 secs (delayed)

Existing High-Risk Condition

<8 weeks or if patient was premature (<36 weeks) and <3 months old now)

Sickle Cell Disease or Asplenia

Bone Marrow or Solid Organ Transplant

Central Line

Indwelling Catheter (Shunt, Urinary Device)

Malignancy

Trach/Ventilator dependent

Immunodeficiency/immunocompromised

Neurologic dysfunction (pre-existing) that limits mental status eval

IV drug user

**Patient considered to have a positive sepsis screen if they meet both criteria in Part 1 and have at least 1 positive risk factor (flash CRT, delayed CRT, high risk condition) from part 2

**If sepsis screen is positive please take the following actions

- Move patient to appropriate room based on ESI Level
- Perform sepsis huddle with ED attending & charge
- Complete screen and huddle under Sepsis Navigator in EPIC

Attending:	RN:		Time:	
Circle attending decision:	routine care	sepsis watcher	sepsis with organ dysfunction but w/o shock	sepsis shock



Date: _____

DAY RN: _____ Night RN: _____

1. Complete in the 1st 4 hours of shift and prn when sepsis or septic shock suspected

2. Place a mark in column (s) to indicate yes response

3. Total score >2 triggers a SEPSIS HUDDLE at bedside with Fellow or NP & charge RN when able.

4. ONLY new abnormal findings for the patient trigger a yes response

PARAMETERS * (for age)-norms below	Dayshift	PRN	Nightshift	PRN
Time of Score				
Fever or Hypothermia				
Tachycardia*				
Tachypnea*				
Hypotension*				
CRT> 3 secs OR mottled extremities				
Leukopenia or Leukocytosis				
III Appearance OR Altered Mental Status				
Total Score of YES questions				
	Н	uddle for Sc	ore of 2 or Mo	ore
Huddle Time				
Sepsis Suspected? If YES-see below				
Septic Shock Suspected? If YES-see below				
SEPSIS OR SEPTIC SHOCK Suspected	Time	Time	Time	Time
Notify Attending				
Document in EPIC re. + screen for Suspected Sepsis vs. Septic				
Shock & Treatment Initiated (See Algorithms for suspected				
sepsis versus septic shock in Bedside Charts)				

Table o	Table of ABNORMAL Ref Ranges FOR IPSO SCORING if value > or < parameters listed:							
Temp <	<36 or >38 is scored as	abnormal for al	ll ages					
Age Gr	oup Birth-30days	31days-<2yrs	2-<6 years	6-<13 yrs	13-<19 yrs	19-<22yrs		
HR	>190	>180	>160	>140	>130	>90		
RR	>68	>58	>44	>38	>35	>20		
SBP	<60	<70	see below	see below	<90	<90		
WBC	5-19.5	5-17.5	6-15.5	4.5-13.5	4.5-11	4.5-11		
		Нур	otension for	SBP for age (yrs)	:			
			2 <74	8 <86				
			3 <76	9 <88				
			4 <78	10 <90				
			5 <80	11 <92				
			6 <82	12 <94				
			7 <84					

This document was modified from original created by Jennifer Workman, MD Primary Children's Utah School of Medicine

UNIVERSITY of MARYLAND CHILDREN'S HOSPITAL



PPCU IPSO Sepsis Screening Tool

Alert 1 If YES to any of the following, please advance to Alert Two.

	Please record a	bnormal value
Hypothermic (<36 ⁰ C) * <u>IMMEDIATE SEPSIS HUDDLE</u> *		
Hyperthermia (>38º C)		
Tachycardia (20 beats/min > PEWs established parameters)		
Hypotension (by Systolic BP according to PALs parameters)		
Tachypnea (20 breaths/min > PEWs established parameters)		
PLEASE RECORD CURRENT PEWs and CHEWs Call rapid according to PEWs or CHEWs algorithm regardless of sepsis screen	PEWS	CHEWS

Alert 2 Does the patient have ANY of the following? Circle Yes or NO

	Please check if applicable
III Clinical Appearance	
* Altered mental status; call rapid immediately	
Cap refill > 3 seconds	
* Skin: Cool, cyanotic or mottled; call rapid immediately	
Skin: Petechiae or Purpura	
Central Venous Access	
Existing High Risk Condition	
< 55 days old (using corrected age for premature infants)	
Bone marrow OR solid organ transplant	
Immunodeficiency or Immunocompromised	
Consider medications including home regimen	
Malignancy	
Neutropenic	
Sickle Cell Disease and/or Asplenia	
Device: (Trach Dependent, GT, urinary catheter)	

If NO to all, please continue observations at current frequency.

If **YES** to at least one above, activate **sepsis huddle at bedside within 5 min** and record info below. Contact senior MD and Charge or Resource RN. State "*This is patient xxx; they have a positive sepsis screen related to (symptoms). We need to consider if this patient is septic.*" If provider can't respond, escalate up the chain of command to Attending. Remember the Hospitalist Attending is available 24/7.

	CIRCLE ALL THAT APPLY
Time of huddle: Senior MD: RN:	Identification: Low Suspicion or Severe Sepsis or Septic Shock Interventions: labs, bld cultures, bolus, antibiotics, other:
Charge:	<u>Outcome</u> : Rapid Response or Stay on PPCU or Transfer to PICU <u>Order set used</u> : Sepsis Watcher, Sepsis Track 1, Sepsis Track 2

This document was modified from original created by Children's Wisconsin

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Huddle Outcome BPA- Direct Path to Ordering

Huddle Out	come					† ↓
Time taken: 3/4/20	021 1739	More -		Show Last Filed Value	Show Details Show	All Choices
Provider Hudo	dle Outcome					*
Huddle Outcom	ne					
Septic Shock	Severe Sepsis	Sepsis Se	psis Watcher	Routine Care		
IPSO Guidelines: Septic Shock- sep Severe Sepsis- se	Informational	(1)	BestPractice	Advisory - Nefftest, Pos	stupdate	
Sepsis- SIRS + pre Sepsis Watcher- p Routine care- no	The second second second	Outcome of Septic Sh	ock, Severe S	epsis, or Sepsis		
Create Note	SEPS S: Every Secon Counts	Luddla	Outcome indi Outcome: Se	cates additional orders may vere Sepsis	/ be needed.	
Emergency	Click here to provi		propriate order	s for this patient using the	Sepsis Track 1	
+ Create Note	feedback on this a	<u>ilert.</u>				
No notes of this typ	Open Ord	er Set Do Not	Open U	MMC PED ED Sepsis Tra	ck 1 Preview	
Post Interv	Acknowledg	e Reason				
New Reading	Appropriate of	orders already initiated	Other (See	Comments)		
						✓ <u>A</u> ccept



Example of a Sepsis Sidebar Report

 Blood Cultures Not Ordered Antibiotics Not Ordered First Antibiotics Not Administered 																				
										🕀 Fluid	Huid Resuscitation Not Ordered									
										Fluid Resuscitation Not Administered										
H Fluid	d Resuscit	ation Volume N	ot Document	ed																
ED Events																				
Date/Time	Event	User	Comments																	
02/13/18 1117	ED Arrival	ADT. PATIENT ACCESS	Comments																	
		(HOSPITAL REG STAFF)																		
03/02/18 1457	Sepsis risk	RUSSELL, KATE	NURSING SEPSIS PRO [172367475]	TOCOL INITIATED																
03/02/10 1504	Severe sepsis	LMHS, PHYSICIAN EMG (CPOM)	SEVERE SEPSIS PRESENT OR SUSPECTED, INITIATE SEVERE SEPSIS ALERT - (172367519) - Displays sepsis checklist and header indicator, indicates con measure inclusion, notifies CCO nurse (if El patient).																	
			checklist and header ind measure inclusion, notifi	icator, indicates cor																
			checklist and header ind measure inclusion, notifi	icator, indicates cor es CCO nurse (if El																
(72h ago through 7			checklist and header ind measure inclusion, notifi	icator, indicates cor es CCO nurse (If El Expand Hi																
(72h ago through 7 Ordered	'2h from now')		checklist and header ind measure inclusion, notifi	icator, indicates cor es CCO nurse (If El Expand Hi Sta																
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(72h ago through 7 Ordered	 CULTURE, URI CULTURE, BLC 	NE STAT DOD PERIPHERAL (1 of 2) (CUI (2 PANEL) ONCE	checkist and header ind measure inclusion, notifi- patient).	Expand Hi 03/02/18 145																
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Example of a Sepsis Overview Report

Arterial Blood Gas Results PO2 PC02 SA02 PH 11/13/18 150 1 90 1 90 1 7.60 1				Repo		
I Arterial Blood	Gae Resulte			A Lactate Results e		122
Medication sodium chloride 0.9 % infusion			Dose/Rate, Route, Frequency 125 mL/hr, 125 mL/hr, IV, Continuous			Last Action Ordered
Fluid Resuscitation	Meds					
actate, Art 11/12 0700 - 11/13 0832		Most Recent 5 11/13 0814				
82	80 75		V		11/13 0431	
Resp	41 38		/	77.0	11/13 0832	
Heart Rate	152 145		/		11/13 0832	
Temp (°C)	40.1 39.1	e contra base	~	40.1 (104.1)	11/13 0700	
Vitals & Lactate (La		0 - 11/13 0832		24h Max		
	tion Summary A					Report

Print groups in this report are customizable; at UMMC, the IPSO team will decide what is displayed