Epic (Nationwide) Sepsis Screening Tool

- Score generated based on various vitals, physical assessments, and labs within a 4 hour period.
- Suggested score of 6 to trigger BPA
- This tool has been running in the background at CHOA since 2019 system wide collecting data and trending potential future usage.

Score	True Positive	False Positive	Sensitivity	PPV
1	302	67747	86.04%	0.44%
2	293	59788	83.48%	0.49%
3	268	27572	76.35%	0.96%
4	234	18429	66.67%	1.25%
5	194	8790	55.27%	2.16%
6	154	3681	43.87%	4.02%
7	126	2100	35.90%	5.66%
8	71	502	20.23%	12.39%
9	42	305	11.97%	12.10%
10	6	20	1.71%	23.08%

PDSA Worksheet   Project Name: SR ED IPSO

Ramp #: 1	Test #: 1	Test Start Date: 1/13/22	Test Complete Date: 2/2/22

Children's Healthcare of Atlanta

Project SMART Aim: Among patients that the BPA triggers (score of 8 or greater), increase proportion of patients that a huddle was completed from 0% to 80% by end of 2022

What key driver does this test impact? Accurate and timely identification of patients who will develop IPSO Sepsis AND Shared mental model among clinical team

PLAN:

A. Briefly describe the test:

If patient meets predefined criteria and scores 8 or higher, BPA will trigger that a huddle is needed on patient. Staff will huddle on patient and give classification (red, yellow, green). Appropriate next steps will be given via guideline

B: How will you measure the success of this test?

BPA will fire on all patients scoring 8 and higher. Huddle will be completed on 80 % of patients that BPA fires on. Appropriate staff huddle on patient. Correct classification given.

C. What do you predict will happen?

Huddle will be called. May be a delay in getting appropriate staff to show up for the huddle.

D. Plan for collection of data:

Tal's team to build Epic Report. Hannah to analyze and send data to team daily if possible

E. Tasks:

List the tasks necessary to complete this test (what)	Person responsible (who)	When
Staff Education – RN and MD	Michelle, Stephanie, Dr. Bui, Dr. Cheng	Begin 1/11/22
Epic Build - BPA	Evan, Tal	

DO:

Was the Cycle Carried out as planned? ■ Yes or ☐ No

Record Data and Observations.

- Many BPAs trigger on patients in a Medical Emergency in trauma room. Should a huddle be done? Exclude from denominator?
- There has been a case or two where the "s" was on the board but BPA never fired.
- Huddles being done but not documented.
- Data: Excluding Trauma room, 14 out of 17 had huddle (82.4%)

STUDY:

Did the results match your predictions? ☐ Yes or ☐ No
What did you learn? Compare the result of your test to your previous performance:

- Little to no issue with appropriate staff showing up for huddle in timely fashion.
- Need more education on making sure to document huddle in navigator
- Need Epic to display Sepsis information for both RNs and MDs in additional/different areas of Epic
- Look into patients that were treated for Sepsis prior to BPA triggering

Act: Decide to Adapt, Adopt or Abandon (shade one box)

■ **Adapt.** Improve the change and continue testing the plan.

> BPA will not trigger on patients in a trauma room.

☐ **Adopt.** Select changes to implement on a larger scale and develop an implementation plan and plan for sustainability.

☐ **Abandon.** Discard this change idea and try a different one.

Epic Screenshots

ED Track Board (HSEMR)

	Refresh	History	Dispo
All Pts (4)		My Pts (0)	

Bed	Loc	S	Patient
ED 42			
ED 03			
		S	

Sepsis Advisory

Suspected Sepsis

Temperature: **(!) 39 °C**
Heart Rate (3-6 mo): **(!) 190**

NIBP (0-6 mo): 64/39
Respiratory Rate (3-6 mo): 65

What steps do I need to complete?

1. Call Charge RN (Charge RN pages huddle alert to team members)
2. Obtain a set of vital signs prior to the huddle
3. Complete Sepsis Huddle
4. Document huddle outcome in sepsis narrator

The following actions have been applied:

✔ Sent: ✉ This advisory has been sent via In Basket to the Data Collectors

Acknowledge Reason

| Resuscitation required, defer huddle | Charge nurse notified |

Epic Screenshots