Sepsis Care Education

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An Infection, Unnoticed, Turns Unstoppable

Sepsis Awareness Saves Lives!

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SEPSIS AWARENESS SAVES LIVES!

- Early Recognition and appropriate treatment can reduce the morbidity and mortality of Sepsis.
- According to the CDC, the number of Sepsis cases in the United States increases every year.
- The National Institute of Health reports Sepsis causes more deaths in the US than prostate cancer, breast cancer and AIDS combined.
- Ohio Hospital Association statewide sepsis initiative to reduce sepsis mortality by 30% year end 2018



EARLY MANAGEMENT BUNDLE FOR SEVERE SEPSIS/SEPTIC SHOCK

- > This standardized treatment has been shown to improve efficiency and reduces morbidity and mortality
- > Consists of 3 and 6 hour bundles of early interventions
- > The Joint Commission requires hospitals to report the treatment received by a sample of Severe Sepsis and/or Septic Shock patients
 - This reporting is called "Sep-1 Early Management Bundle Severe Sepsis/Septic Shock" core measure.
 - Patients who do not receive the bundle treatment in the time recommended are considered fallouts for the hospital.
- > As a member of the Ohio Hospital Association (OHA):
 - This measure is reported to the OHA as part of the statewide sepsis initiative.
 - We are compared to other hospitals throughout the state.



SEPSIS EARLY MANAGEMENT BUNDLE

Within 3 hours of Severe Sepsis/Septic Shock Presentation:

- 1. Obtain an Initial Lactate Level
- 2. Obtain Blood Cultures (2 sets)
- 3. Administer Antibiotics If more than 1 ordered, administer Vancomycin last
- If Severe Sepsis with Initial Hypotension or Septic Shock Fluid Resuscitation with 30 ml/kg crystalloid fluid bolus (started within 3 hours of presentation and completed within 6 hours)

Within 6 hours:

- 1. Repeat Lactate if Initial Lactate > 2 (See Below)
- 2. If Persistent Hypotension administer vasopressors
- 3. If Persistent Hypotension or Initial Lactate ≥ 4, assess volume status and tissue perfusion

Sepsis Order Set (2037) – <u>please use this order set if you suspect Sepsis</u>

Lactate Lab (in this order set only) is built to repeat in 4 hours if Initial Lactate >2

(NO NEED to order separate Repeat Lactate)

IV fluids default to 30 ml/kg bolus dose

**Please see Sepsis Tip Sheet for more details regarding core measure definitions of - Presentation Time, Initial Hypotension, Persistent Hypotension, Assessment, etc.



NEW EPIC MODIFIED EARLY WARNING SYSTEM (MEWS)

MEWS has been added to the patient chart to provide **better visibility** of those patients who may be at risk of **sepsis**, **infection**, **stroke**, **cardiac event**, **or other acute situations**.

Scores automatically calculate for each parameter below:

Score	3	2	1	0	1	2	3
Heart Rate		≤ 39	40 - 50	51 - 100	101 - 110	111 – 129	≥ 130
Resp. Rate		≤8	9 - 11	12 - 20	21 - 25	26 - 30	≥31
Syst. BP	≤ 74	75 - 79	80 - 89	90 -190		≥ 191	
Temp.		≤ 96.7	96.8 – 97.9	98.0 – 100.7	100.8-101.3	≥101.4	
LOC	Un- responsive	Responds to pain	Difficult to arouse	Alert	New agitation or confusion		

Goal: Early Recognition and Treatment



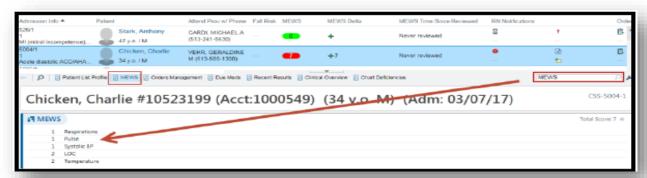
MEWS- Addition of BPA's





In the **Patient Lists** activity, the **MEWS** column displays the most current MEWS score for the patient. Add this to your current list to monitor our patient's closely.

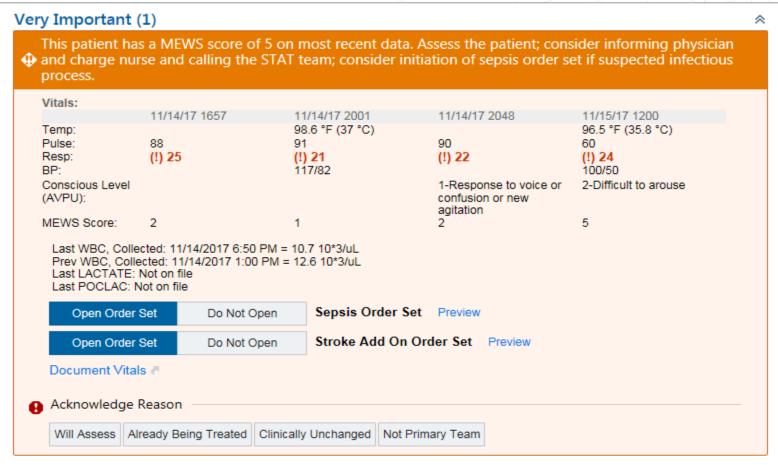




Patient Lists Report – Search for the MEWS report and wrench it in to follow real time MEWS scores for your patients.



MEWS BPA



- Choosing "Will Assess" & "Not Primary Team WILL NOT stop the BPA from appearing every time the patient's chart is opened
- Choosing "Already Being Treated" & "Clinically Unchanged WILL STOP the BPA from appearing for 12 hours unless the MEWS score continues to increase



MEWS BPA (TIP SHEET)

- New BPA's have been created and also include hard stops for all clinicians to review based on the patient's current MEWS score.
- Contributing factors to the alert will display.
- Nurses are instructed to assess the patient and consider informing the physician if MEWS >3 is obtained
- Nurses are instructed to assess the patient and consider informing the physician, charge nurse, and STAT team if MEWS >4 is obtained.
- Nurses and physicians are encouraged to communicate about the use of Sepsis and Stroke order sets. Both order sets are available as a link from the BPA for your convenience.
- The end user must document an Acknowledge Reason in order to accept the BPA.
 - > BPA's for the hospital side will appear every 12 hours
 - > BPA's for the Emergency Department will appear every 4 hours

