

OhioHealth Workflows: Mansfield and Shelby Hospitals

1) Sepsis Alert

a. **“At Risk” Sepsis identifiers:**

- *If HR and RR are out of range, those two elements in combination with any of the other elements listed below, will trigger a Sepsis notification (↑ HR, ↑ RR plus ↑ WBC)*
- *Otherwise, any other combination of TWO of the elements listed below will trigger the notification (↑ temperature plus ↑ WBC)*

Heart rate:	≥ 90
Respiratory rate:	≥ 20
Temperature:	> 100.9 <i>or</i> < 96.8
WBC <i>blood</i> :	≥ 12,000 or ≤ 400
WBC <i>urine</i> :	> 5

- b. Sepsis Indicator on Tracking Board, if the nurse charts to “Initiate Sepsis Protocol” on the triage or comprehensive assessment, the charge nurse will be notified via IP Text Page of Sepsis Risk
- c. Charge nurse notifies ED physician/LIP assigned to patient, to see patient within 10 minutes.
- d. Email to QM, useful as a leading indicator for daily management.

2) Blood culture and Serum Lactate bundling

- a. The workflow listens for the order for the initial blood culture ordered for all inpatients on any floor (ED, Obs, acute care units) and checks that none have been ordered in the past 48 hours.
- b. And if not, autogenerates an order for serum lactate level to be done.

3) Repeat Serum Lactate

- a. Autogenerates an order for additional Serum lactate in 3 hours when the initial result is > 2.0.
- b. This workflow will be listening for any Lactic Acid result equal to 2 mmol/L or higher that has been ordered with a blood culture to meet the sepsis 3 hour bundle.
- c. When a Lactic Acid is 2 mmol/L or higher the workflow will automatically order a Lactic Acid test for to be in compliance with the six hour bundle. The second lactic acid test will be scheduled 4 hours after the collection of the one that is equal to 2 mmol/L or higher.

4) Sepsis reassessment alert:

- a. Triggered by the combination (within 2 hours of each other) of collection time (time zero for this alert) for Lactic Acid and Blood cultures:
 - i. It will look for a LA of > 4 or vasopressor medication orders:
 - i. Vasopressors to include: Levophed (norepinephrine), Neosynephrine (phenylephrine), Epinephrine (adrenaline), Dopamine
 - ii. Time frame for the vasopressor order is within 3 hours of the LA and BC collection time.
 - iii. Alert to indicate reassessment is needed 3 hours after the parameters are triggered.
 - iv. Work list: generates alerts for both the nurse and physician.
 - v. Alert to iPhones for both the ICU charge nurses (ext. 2168 and 2169) and physician/LIP (3774 and 2140), email to QM
 - vi. Phrasing for the alert:
 - a) Patient in room ____ possibly needs a 6 hour reassessment, please advise physician/NP.