

Maternal Sepsis Evaluation Flow Chart

Based on the CMQCC Algorithm

Suspected Infection

WBC Screening / MEWT Triggers MAP/SBP/Shock Index

Note: If its just vital signs, consider alternative pathway



Step 1) Initial Sepsis Screening - Positive if any 2 of 4 criteria met

- Oral Temp < 36'C (96.8'F) or > 38' C (100.4'F)
- Heart rate > 100 beats per minute
- Respiratory rate > 24 breaths per minute
- WBCs > 15,000/mm³ or < 4,000/mm³ or 10% bands



Action: If suspected infection, start source-driven antibiotics and 1-2 L of fluids; increase monitoring and surveillance. Move to confirmation evaluation.



A MAP < 65 mm Hg
(persistent after
30ml/kg fluid load) in
settings of infection
directly defines
SEPTIC SHOCK



Step 2) Confirmation of Sepsis Evaluation - Confirmed if 1 or more criteria is met

- Respiratory: New need for mechanical ventilation or PaO2/FiO2 < 300
- Coagulation: Platelets < 100 x 10⁹/L or INR > 1.5 or PTT > 60 secs
- Liver: Bilirubin > 2 mg/dL
- Cardiovascular: SBP < 85 mm Hg or MAP < 65 mm Hg or > 40 mm Hg decrease in SBP (after fluids)
- Renal: Creatinine > 1.2 mg/dL or doubling of creatinine or urine output < 0.5 ml/kg/hr x 2 hrs
- Mental Status: Agitated, confused, or unresponsive
- Lactic Acid: > 2 mmol/L in absence of labor

NOTE:

- Fluid resuscitation is indicated for sepsis and improved tissue perfusion with labor.
- Repeat vitals every 1-2
 hrs until stable with
 pulse < 120 bpm, temp <
 39, RR <24. Once stable
 q4hrs until normal then
 q6hrs until discharge.
- Repeat lactate in 2 hrs if no improvement in clinical criteria after fluid resuscitation
- Repeat other labs in 12-24 hours if worsening based on source of infection. CBC will often be repeated in 24 hrs. Others may not need to be repeated at all.

All Criteria NEGATIVE

Action: This group remains at high risk for sepsis and requires close supervision and re-evaluation.

Elevated lactate
ONLY in Labor

≥ 1 Criterion POSITIVE defines SEPSIS

NOTE: Take aggressive multidisciplinary approach involving intensivist and MFM

MAP < 65 mm Hg (with confirmation defines) SEPTIC SHOCK

Action: At a minimum, maintain close surveillance; consider additional fluids to reduce lactic acid level; repeat lactate. (See discussion of the role of lactic acid in the peripartum period in the CMQCC toolkit for more detail).

Action: Start source-directed antibiotics, broad spectrum antibiotics if source is unclear; increase fluids to 30 ml/kg within 3 hours; collect blood cultures in not already obtained, maintain close surveillance, e.g. RRT, and repeat lactate. Escalate care as needed

Action: As above for Sepsis, admit to ICU. If hypotension persists after 30 ml/kg fluid load, assess hemodynamic status and consider vasopressor use.

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