



**Sepsis:**  
Suspected infection plus systemic inflammatory response.  
Can use SIRS or qSOFA.  
General signs:  
• Temp > 100.4° or < 96.8° F  
• HR > 100  
• RR > 22  
• Systolic BP < 100  
• WBC > 12,000 or < 4,000

**Severe Sepsis:**  
Sepsis plus evidence of end-organ damage. Can include:  
• Hypotension (SBP < 90, MAP < 65, baseline drop in SBP > 40)  
• Cool extremities, delayed cap refill  
• Altered mental status (GCS < 15)  
• Poor urine output  
• New need for respiratory support (high flow oxygen, NIPPV)  
• Lab indicators can include:  
  Lactate > 2  
  INR > 1.5, platelets < 100,000  
  Creat > 0.5 over baseline value  
  Bilirubin > 4

**Septic Shock:**  
Severe sepsis persisting/worsening despite initial resuscitative measures.

**In Bethel:**  
• Start pressors (see [medications](#)).  
• Move toward central line placement, but ok to start first pressor peripherally.  
• Consult ICU and move toward transfer.

**In Village/SRC:**  
• Activate medevac if not done already.  
• Consult ED physician for further management, including ongoing fluids, antibiotics, and pressors if available in SRC.

### CMS Sepsis Documentation Requirements

ED providers are assessed on meeting a bundle of quality measures. If they are either not clinically appropriate or not able to be completed (e.g. because care was initiated in the village), then the rationale must be documented explicitly.

- Fluid bolus should be 30ml/kg
- Document blood cultures drawn before antibiotics
- Initial lactate drawn with 6 hrs of identification of sepsis, with lactate repeated if initial value > 2
- Documentation of repeat assessment of volume status

### Intubation in Sepsis

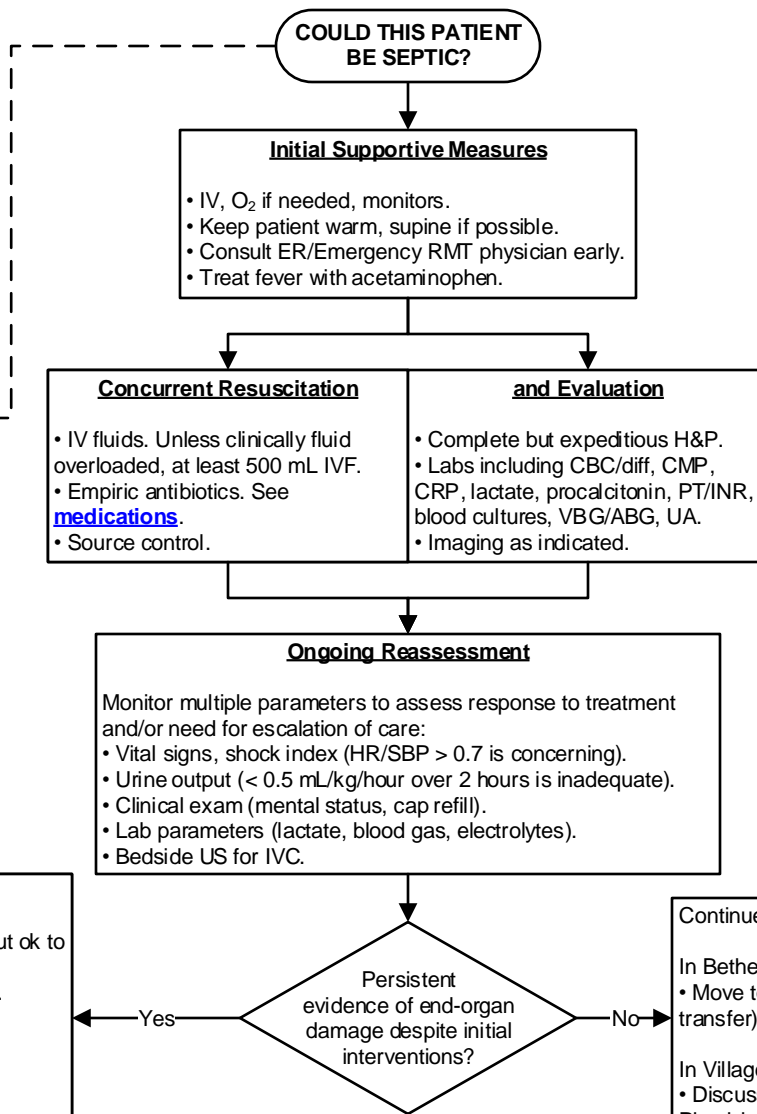
- Higher risk for periintubation arrest due to hypotension, acidosis, etc.
- Strive for fluid resuscitation and/or pressors before intubation.
- Consider lower dose of induction agent (consult pharmacy or ICU).
- Vent settings: TV 6 mL/kg IBW, plateau pressures < 30.

This guideline is designed for the general use of most patients but may need to be adapted to meet the special needs of a specific patient as determined by the medical practitioner.

Approved by Clinical Guideline Committee 3/13/23.

Click [here](#) to see the supplemental resources for this guideline.

If comments about this guideline, please contact [clinical\\_guidelines@ykhc.org](mailto:clinical_guidelines@ykhc.org).



### IV Fluids in Sepsis

Historical consensus was every septic patient needed 30 mL/kg IVF as quickly as possible. There is not good evidence that this improves mortality. Likewise, fluid resuscitation guided by lactate alone is not associated with improved mortality. There is evidence of harm in over-fluid resuscitating patients, and in delay to initiating pressors if appropriate.

### General Fluid Management Recommendations

- If hypovolemic, give fluids.
- If euvolemic, don't give excessive fluids.
- If progressive respiratory distress and pulmonary edema, stop fluids.
- Give smaller boluses 500-1000 mL and assess response.
- If CHF/renal failure/volume overload, fluids are not wrong but low threshold to consult ICU for assistance.

### Medications Outside Bethel

Village formulary:

- Ceftriaxone 1-2 grams IM (for most cases)
- Metronidazole 500 mg PO (abdominal source, necrotizing SSTI, other need for anaerobic coverage)
- Azithromycin 500 mg PO (CAP)
- Clindamycin 900 mg PO (for anaerobic coverage, toxins in necrotizing infections)

SRC formulary:

- Ceftriaxone 1-2g IV/IM (for most cases)
- Levofloxacin 750mg IV (for pseudomonas coverage)
- Clindamycin 900 mg IV (for anaerobic coverage, toxins in necrotizing infections)
- Vancomycin 25 mg/kg or 2.5 g max IV (for MRSA)
- Pressors: epinephrine – consult pharmacist if considering.