

SEP1: Early Management Bundle, Severe Sepsis/Septic Shock Discharges 1/1/18+

2018 Changes Highlighted

Severe Sepsis

Criteria <small>(All indications must be met within 6 hours of each other)</small>	3-Hour Bundle (Prior to or within 3 hours of Severe Sepsis criteria met)	
<p>① <input type="checkbox"/> Infection suspected or confirmed -AND-</p> <p>② SIRS criteria (2 or more):</p> <ul style="list-style-type: none"> <input type="checkbox"/> WBC > 12,000 or < 4,000 or > 10% bands <input type="checkbox"/> Temp > 100.9 or < 96.8 Fahrenheit <input type="checkbox"/> HR > 90 bpm <input type="checkbox"/> Resp > 20 <p>-AND-</p> <p>③ New organ dysfunction (1 or more):</p> <ul style="list-style-type: none"> <input type="checkbox"/> Lactate >2 <input type="checkbox"/> Cr >2 (if chronic renal disease, increase of 0.5 over baseline) <input type="checkbox"/> TBili >2 <input type="checkbox"/> Plts <100K <input type="checkbox"/> INR >1.5 <input type="checkbox"/> aPTT >60 <input type="checkbox"/> Urine output < .5 ml/kg/hr for 2 hrs <input type="checkbox"/> Acute respiratory failure (intubation or CPAP/BiPAP: new or increased from intermittent to continuous) <input type="checkbox"/> Hypotension (SBP <90, MAP <65, SBP decrease of more than 40 mmHg from normal) <p style="text-align: center;">1 + 2 + 3 = SEVERE SEPSIS -or- Physician/APN/PA documentation "Severe Sepsis" or "Septic Shock"</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Draw initial lactate <input type="checkbox"/> Blood culture prior to antibiotic <input type="checkbox"/> Broad spectrum IV antibiotic administration <small>(IO/IM if no IV access)</small> 	
	<p>Severe Sepsis with Hypotension (Initiated prior to or within 3 hours of initial hypotension)</p>	<p>Initial Hypotension = Any 2 low SBP readings from 6 hrs prior to 6 hrs after Severe Sepsis time or completion of CF 30ml/kg</p> <ul style="list-style-type: none"> <input type="checkbox"/> IV fluid resuscitation with 30 mL/kg of crystalloid fluid <small>(IO if no IV access)</small>
		<p>6-Hour Bundle (Prior to or within 6 hours of Severe Sepsis criteria met)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Repeat lactate (IF initial >2)

Septic Shock

Criteria	3-Hour Bundle (Initiated prior to or within 3 hours of Shock criteria met)
<p>① <input type="checkbox"/> Severe Sepsis -AND-</p> <p>② <input type="checkbox"/> Initial Lactate \geq 4 -OR-</p> <p>③ <input type="checkbox"/> Persistent hypotension following fluid resuscitation (SBP <90, MAP <65, SBP decrease of more than 40 mmHg from normal)</p> <p style="text-align: center;">1 + (2 OR 3) = SEPTIC SHOCK -or- Physician/APN/PA documentation "Septic Shock"</p>	<ul style="list-style-type: none"> <input type="checkbox"/> IV/IO fluid resuscitation with 30 mL/kg of crystalloid, if not already given for initial hypotension <small>(IO if no IV access)</small>
	<p>6-Hour Bundle (Prior to or within 6 hours of Septic Shock criteria met)</p>

¹Nursing and/or other supporting documentation acceptable

²Must be documented within 24 hours after Sepsis Time Zero

³No timeframe limitation on required documentation

Documentation Tips & Exceptions

Useful tools:

Allscripts Phys Doc slick text “zSepsis” for sepsis note.

EPIC BPA guidance with positive sepsis screen; “Severe Sepsis/Septic Shock Hand Off” tool in the transfer navigator and in the Patient Summary.

Documentation – Exclusions for Bundle Processes

*Requires Physician/APN/PA documentation and **must be documented within 6 hrs of Sepsis Time Zero unless otherwise indicated via footnote***

Not applicable for Sepsis Bundle

- Severe Sepsis Not Present
- Patient/Family refusal of blood draw, IV/**IO** fluids, IV/**IO** antibiotic, or IV vasopressor¹
- Request for or recommendation of Palliative Care or Comfort Measures Only
- Infection: not present or ruled out
- Infection: only viral, fungal, parasitic
- Sign of organ dysfunction (specify)_____ or SIRS criterion (specify)_____ is due to:
 - A chronic condition (specify)_____
 - An acute condition that is non-infectious (specify)_____
 - A medication (specify)_____
 - Abnormal value is invalid, erroneous, or questionable¹
 - Abnormal value is within normal limits for this patient

Blood Culture Timing (BC drawn after antibiotics administered)

- Waiting to start antibiotic until after the BC was drawn could be detrimental to the patient³
- Surgical pre/**postop** prophylaxis in last 24 hours^{1,3}
- OB patient given prophylaxis for ruptured membranes, group B strep, or prior to cesarean^{1,3}**
- Within 24 hours prior to severe sepsis time zero: ^{1,3}
 - Already receiving IV antibiotics for infection before severe sepsis was suspected/present
 - Received IV antibiotics prior to hospital arrival & BC drawn after arrival

Broad Spectrum IV Antibiotic Exceptions:^{1,3}

- As indicated by culture **drawn within 24 hours prior to severe sepsis time zero**
 - Non-broad spectrum IV antibiotic
 - Vancomycin PO for C-diff

Crystalloid Fluids 30ml/kg for Initial or Persistent Hypotension – Exceptions:

- Fluid resuscitation not required:
 - Patient has Ventricular Assist Device^{1,3}
 - No hypotension present - Low blood pressure reading _____ is due to:
 - A chronic condition (specify)² _____
 - An acute condition that is non-infectious (specify)² _____
 - A medication (specify)² _____
 - Abnormal value is invalid, erroneous, or questionable¹
 - Abnormal value is within normal limits for this patient²
- Crystalloid fluid bolus **volume based on Ideal Body Weight due to patient obesity³**

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³No timeframe limitation on required documentation