

2016

# SEP-1: Early Management Bundle, Severe Sepsis/ Septic Shock

Roberta Basol

*CentraCare Health - St Cloud Hospital*

Jennifer Burris

*CentraCare Health, burrisj@centracare.com*

Follow this and additional works at: [https://digitalcommons.centracare.com/nursing\\_posters](https://digitalcommons.centracare.com/nursing_posters)



Part of the [Other Nursing Commons](#)

---

## Recommended Citation

Basol, Roberta and Burris, Jennifer, "SEP-1: Early Management Bundle, Severe Sepsis/Septic Shock" (2016). *Nursing Posters*. 74.  
[https://digitalcommons.centracare.com/nursing\\_posters/74](https://digitalcommons.centracare.com/nursing_posters/74)

This Book is brought to you for free and open access by the Posters and Scholarly Works at DigitalCommons@CentraCare Health. It has been accepted for inclusion in Nursing Posters by an authorized administrator of DigitalCommons@CentraCare Health. For more information, please contact [schlepers@centracare.com](mailto:schlepers@centracare.com).



# SEP-1: Early Management Bundle, Severe Sepsis/Septic Shock



Roberta Basol, MA, RN, NE-BC; Jennifer Burriss MA, APRN, CNS

## Plan

Educate, monitor, and improve the sepsis core measure SEP-1 results required by CMS.

**What is SEP-1?** The Centers for Medicare & Medicaid Services (CMS) has introduced a new measure to assess the quality of sepsis care in hospitals.

**Why SEP-1?** The purpose is to facilitate the "efficient, effective, and timely delivery of high quality sepsis care in support of the Institute of Medicine's aims for quality improvement."

## Definitions

**Sepsis** – Infection plus the presence of at least two SIRS criteria

**Severe Sepsis** – Organ dysfunction caused by sepsis

**Septic Shock** – Severe sepsis plus low BP or high lactate not reversed with fluid resuscitation

## Do

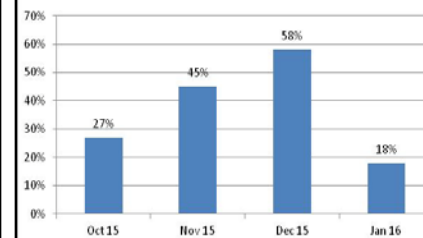
*Time Zero – The "clock" starts for reporting – "severe sepsis diagnosed at (time)"*

**Thinking Sepsis? Use the entire sepsis order set!**

- 1
  - **Time Zero** starts when:
    - The provider documents "sepsis"
    - 1st documentation based on time stamp in Epic - best to document "sepsis diagnosed at (time)" - any documentation with the word "sepsis" will start the clock, including "possible sepsis"
    - OR
    - Confirmed or suspected infection AND two or more SIRS criteria present: Temp >100.9°F, or <96.8°F, HR >90, RR >20, WBC >12,000 or <4,000 or >10% bands
- 2
  - Serum lactate **within 3 hours** of time zero
  - Serum lactate **re-measured within 6 hours** of time zero if lactate >= 2 mmol/L
- 3
  - **Blood cultures** obtained prior to antibiotic administration
  - **Antibiotics within 3 hours** of time zero
- 4
  - **Crystalloid fluids** given for the presence of **severe sepsis** with hypotension, OR for the presence of severe sepsis with a lactate >= 4 mmol/L within 3 hours of time zero
  - Crystalloid fluids administered prior to, at the time of, or after the presentation of septic shock, AND the **volume ordered was 30 mL/kg**
- 5
  - Repeat volume **perfusion assessment** completed **within 6 hrs**
  - Provider note after fluids started including: VS (temp, BP, HR, RR), heart and lung evaluation, capillary refill, peripheral pulse evaluation, skin exam (including color)
  - OR any 2 of the following
    - 1) CVP, 2) ScvO2, 3) cardiovascular ultrasound, 4) passive leg raise or fluid challenge
- 6
  - **Vasopressors** administered for mean arterial pressure < 65 within 6 hours from Time Zero - **septic shock**
  - **Central venous pressure** measured within 6 hours from Time Zero
  - **Central venous oxygen saturation** measured within 6 hours from Time Zero

## Study

SEP-1 Core Measure Composite Score



## Act

- ACT FAST!** Early detection of SEPSIS requires fast action — like a STEMI or Stroke
- Use the order sets**
  - ETC Adult Suspected Sepsis Bundle
  - Non-Critical Care Sepsis
  - Critical Care Sepsis Bundle



*"Every hour a patient in septic shock doesn't receive antibiotics, the risk of death increases 7.6%"  
Activate Acute Response Team!*