

CMS Sep-1/Sepsis Updates - 2019

Reminder: CMS SEP-1 Requirements

Required Action	Severe Sepsis		Septic Shock	
	3-Hr Bundle	6-Hr Bundle	3-Hr Bundle	6-Hr Bundle
Initial Lactate Collection	Yes	Must be completed within 3-hrs of Severe Sepsis Presentation		
Blood Culture Collection	Yes			
Initial Antibiotic Started	Yes			
Repeat Lactate Collection (if Initial Lactate is > 2)	N/A	Yes	Completed within 6-hrs of Severe Sepsis presentation	
30 mL/kg Crystalloid Fluids Started	N/A	N/A	Yes	Completed within 3-hrs of initial hypotension and/or septic shock
Vasopressor Given (if hypotension persists)	N/A	N/A	Completed within 6-hrs of septic shock	Yes
Repeat Volume Status Assessment	N/A	N/A		Yes

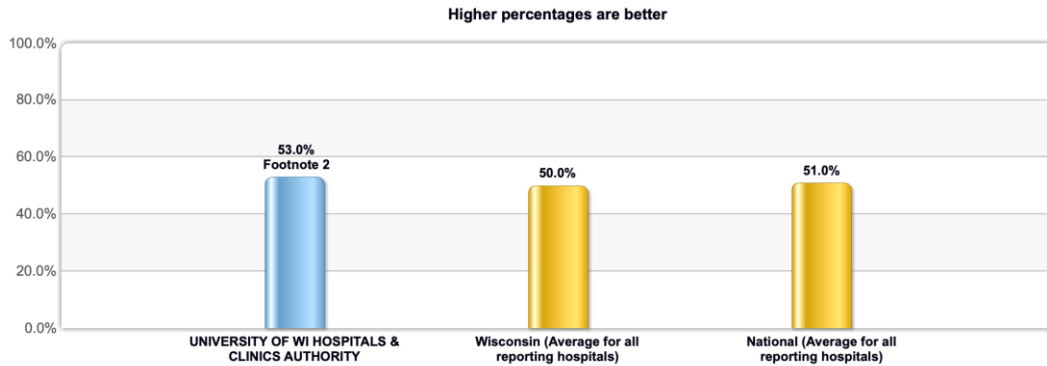
Sepsis Definitions (Ever Changing.....)

	ESTABLISHED DEFINITIONS <i>(used by CMS)</i>	SEPSIS-3 DEFINITIONS	SSC GUIDELINES
SEPSIS	Presumed/known infection + ≥ 2 systemic inflammatory response syndrome criteria	≥ 2 SOFA criteria (present or increased) Includes: hypotension + normal lactate (shock)	Sepsis = severe sepsis
SEVERE SEPSIS	Sepsis + end organ dysfunction, lactate >4 mmol/L	Not a category	"Sepsis" = established severe sepsis definition
SEPTIC SHOCK	Sepsis + refractory hypotension (\pm lactate)	Vasopressors and lactate >2 mmol/L	Sepsis + refractory hypotension (\pm lactate)
MORTALITY RATIO = OBSERVED MORTALITY EXPECTED MORTALITY	Sepsis = low acuity <u>Observed mortality low</u> Expected mortality low	Sepsis = higher acuity <u>Observed mortality higher</u> Expected mortality low	NA

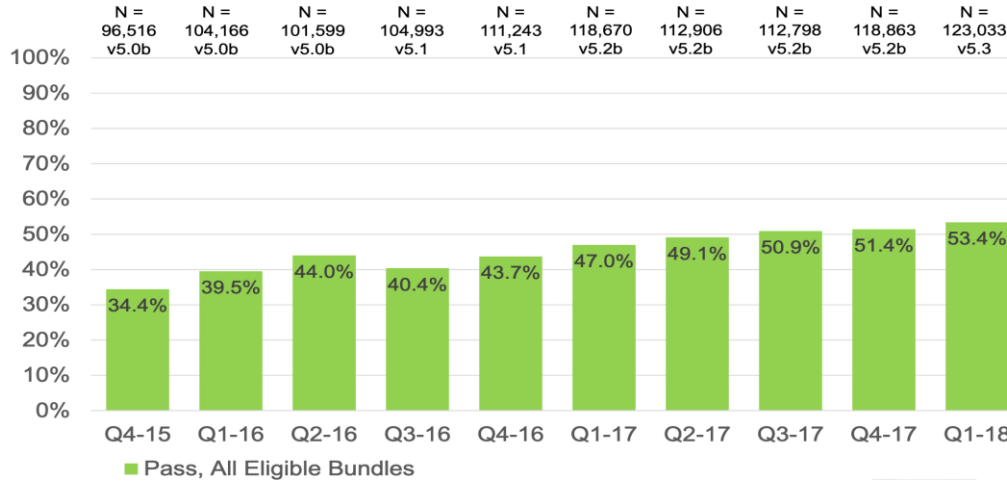
- SEP-1 and 'Sepsis-3'
 - 'Sepsis 3' definition: CMS will NOT be using or transitioning to the new Sep-3 definitions at this point due to "significant" lack of evidence

CMS SEP-1 Reporting

- Public Reporting
 - SEP-1 overall hospital performance began being publicly reported with the July 2018 *Hospital Compare* release
 - Beginning in July, there will be the overall measure + breakdown by 3 and 6 hour bundle compliance

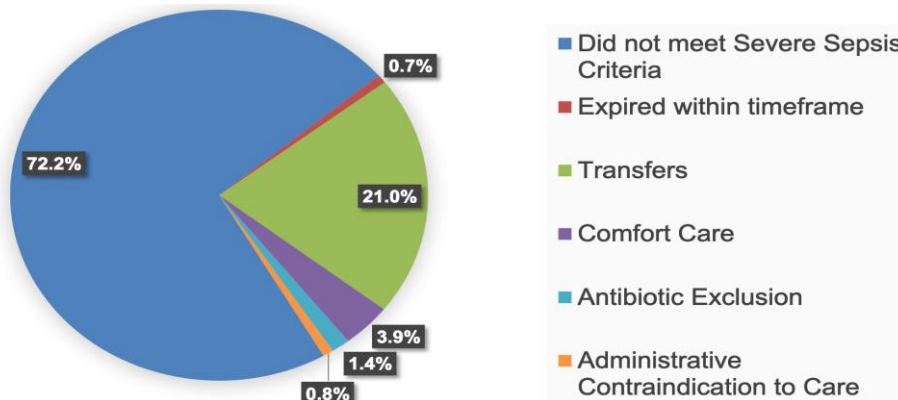


For this measure, the rate for the top 10% of hospitals was 76%.



Miscellaneous:

- **Lactate/Key Reminders**
 - Prior to January 2019, for “**Initial Lactate**” data element, the lactate drawn closest to severe sepsis presentation time (SSPT). Beginning in January, use **highest level drawn before severe sepsis presentation time** (6-hours prior to 3-hours s/p severe sepsis)
 - Other Acute Cause: If medical record=source of the condition is **NOT** an **infection** and **NOT** caused by an infection, the SIRS criteria or sign of organ dysfunction should not be used—i.e. physician documented “**AKI** (acute cause) due to **dehydration** (source)” or Lactate of 4.3 d/t **Seizure** (acute cause) post **brain injury** (source)
 - IBW:
- **Exceptions**



Note: Data from January 2017–December 2017 (444,489 total exclusions for cases)