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| Indicator | Description | Denominator | Numerator |
| Sep90 | Early management bundle, severe sepsis/septic shock(composite of sep1a-sep1d) | Includes all cases except:* Cases that do not meet the denominator of sep1a
 | Cases included in the denominator will pass if:* The numerator of sep1a is met and
* The denominator of sep1b is not met OR The numerator and denominator of sep1b is met and
	+ The denominator of sep1c is not met

OR* + The numerator and denominator of sep1c is met and
	+ Initial hypotension was present within 6 hours of the diagnosis of severe sepsis and
		- There is documentation the patient has an implanted VAD or
		- The patient or authorized advocate refused IV fluids
	+ There is no documentation of septic shock or severe sepsis with shock or
	+ Septic shock was documented more than 6 hours after severe sepsis presentation or
	+ Septic shock was documented within 6 hours of severe sepsis presentation and
		- The denominator of sep1d is not met or
		- The numerator of sep1d is met
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| Indicator | Description | Denominator | Numerator |
| Sep1a | Initial lactate level, antibiotic administration and blood cultures (prior to antibiotics) completed within 3 hours of severe sepsis presentation | Includes all cases with a diagnosis of Severe Sepsis except:* Discharge date is <01/01/21
* LOS>120 days
* Transfer in from another acute care facility
* Enrolled in clinical trial for sepsis, severe sepsis, septic shock
* Coronavirus or COVID-19 was suspected, present or confirmed
* The patient or patient advocate refused either a blood draw, IV fluid administration or IV antibiotic administration within 6 hours of severe sepsis OR septic shock
* Comfort Care or Palliative Care within 6 hours of severe sepsis OR septic shock presentation
* Patients with severe sepsis OR septic shock discharged within 6 hours of presentation
* Patients receiving antibiotics >24 hours prior to presentation
 | Cases included in the denominator will pass if:* The patient received all of the following within 3 hours of presentation:
	+ Initial lactate level measurement
	+ Antibiotics consistent with the antibiotic selection guidelines or
		- There is Physician/APN/PA documentation referencing the results of a culture from within 5 days prior to the antibiotic start time or
		- Within 3 hours of severe sepsis presentation the patient received C. difficile treatment
	+ Blood cultures drawn prior to antibiotics

\*Blood cultures drawn >= 48 hrs prior to sepsis diagnosis and  prior to antibiotics will fail |

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| Indicator | Description | Denominator | Numerator |
| Sep1b | Repeat lactate level within 6 hours of severe sepsis presentation if initial lactate level is elevated | Includes all cases with a diagnosis of Severe Sepsis except:* Discharge date is <01/01/21
* LOS>120 days
* Transfer in from another acute care facility
* Enrolled in clinical trial for sepsis, severe sepsis, septic shock
* Coronavirus or COVID-19 was suspected, present or confirmed
* The patient or patient advocate refused either a blood draw, IV fluid administration or IV antibiotic administration within 6 hours of severe sepsis OR septic shock
* Comfort Care or Palliative Care within 6 hours of severe sepsis OR septic shock presentation
* Patients with severe sepsis OR septic shock discharged within 6 hours of presentation
* Patients receiving antibiotics >24 hours prior to presentation

No lactate level was drawn within 6 hours prior to or after the severe sepsis diagnosis* The initial lactate level was <=2 mmol/L or was not documented
 | Cases included in the denominator will pass if:* A repeat lactate level was done <=6 hours after severe sepsis presentation
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| Indicator | Description | Denominator | Numerator |
| Sep1c | Received fluid resuscitation with 30 mL/kg crystalloid fluids within 3 hours of initial hypotension or septic shock | Includes all cases with a diagnosis of Severe Sepsis except:* Discharge date is <01/01/21
* LOS>120 days
* Transfer in from another acute care facility
* Enrolled in clinical trial for sepsis, severe sepsis, septic shock
* Coronavirus or COVID-19 was suspected, present or confirmed
* The patient or patient advocate refused either a blood draw, IV fluid administration or IV antibiotic administration within 6 hours of severe sepsis
* Comfort Care or Palliative Care within 6 hours of severe sepsis
* Patients with severe sepsis OR septic shock discharged within 6 hours of presentation
* Patients receiving antibiotics >24 hours prior to presentation
 | Cases included in the denominator will pass if:* Initial hypotension was present within 6 hours of severe sepsis presentation and
	+ The patient has an implanted VAD or
	+ The patient or advocate refused IV fluids or
	+ Crystalloid fluids were initiated within the proper timeframe and
		- The target volume of crystalloid fluids was infused within 3 hours of initial hypotension and
		- The patient was assessed for persistent hypotension and septic shock was not present or
		- Septic shock was documented more than 3 hours after severe sepsis presentation

OR* Septic Shock was documented within 3 hours of severe sepsis presentation and he target volume of crystalloid fluids was infused within 3 hours of the presence of septic shock

**\*\*\*NUMERATOR EXCLUSIONS*** The patient or patient advocate refused either a blood draw, IV fluid administration or IV antibiotic administration within 6 hours of the presence of septic shock OR
* Documentation of comfort measures only or palliative care within 6 hours of the presence of septic shock
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| Indicator | Description | Denominator | Numerator |
| Sep1d | Within 6 hours of septic shock presentation, received vasopressors with persistent hypotension present after fluid administration AND repeat volume status and tissue perfusion assessment with persistent hypotension after fluid administration OR lactate level greater than or equal to 4 mmol/L | Includes all cases with a diagnosis of Severe Sepsis except:* Discharge date is <01/01/21
* LOS>120 days
* Transfer in from another acute care facility
* Enrolled in clinical trial for sepsis, severe sepsis, septic shock
* Coronavirus or COVID-19 was suspected, present or confirmed
* The patient or patient advocate refused either a blood draw, IV fluid administration or IV antibiotic administration within 6 hours of severe sepsis OR septic shock
* Comfort Care or Palliative Care within 6 hours of severe sepsis OR septic shock presentation
* Patients with severe sepsis OR septic shock discharged within 6 hours of presentation
* Patients receiving antibiotics >24 hours prior to presentation
* There is no documentation of severe sepsis or severe sepsis with shock.
* The presence of septic shock was documented more than 3 hours after the documentation of severe sepsis
* Discharge date is less than 3 hours after diagnosis of septic shock
* Crystalloid fluids were not given after diagnosis of septic shock
* The target volume of crystalloid fluids was not completely infused
* Crystalloid fluids were initialed more than 3 hours after diagnosis of septic shock
 | Cases included in the denominator will pass if:* Within one hour of conclusion of administration of the target ordered volume of crystalloid fluids, there is documentation that persistant hypotension or new hypotension is present an IV or IO vasopressor was administered within 6 hours

AND* During the timeframe between crystalloid fluid initiation and within 6 hours of septic shock diagnosis, a repeat volume status and tissue perfusion assessment was documented

**\*\*\*NUMERATOR EXCLUSIONS*** The patient or patient advocate refused either a blood draw, IV fluid administration or IV antibiotic administration within 6 hours of the presence of septic shock OR
* Documentation of comfort measures only or palliative care within 6 hours of the presence of septic shock
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| **Indicator** | **Description** | **Cohort** | **Denominator** | **Numerator** |
| fe81 | Hospitalized patients age >=65 identified at risk for delirium |  70 | * The denominator **includes** cases with INPT\_FE flag received on the pull list
* Only patients age >= age 65 years at the time of discharge are included
 | Cases included in the denominator will pass if: * One of the following is documented in the H&P, ED note or admission note by a physician/APN/PA
	+ a current problem of delirium
	+ a current change in mental status
	+ a current problem of confusion
	+ a current problem of disorientation
	+ the patient was assessed or screened for delirium
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