Quali Insigh

Qualit Insight



Sepsis Study FY2020

VHA EPRP V Sharon Miller VHA EPRP QIC

Study Purpose

- VHA Office of Reporting, Analytics, Performance, Improvement and Deployment (RAPID) will begin collecting and reporting the SEP-1 measure for CMS.
- This will be a Pilot Study.
- DACs and Exits will be required for facility information
- NO formal Exit conference required

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

- Composite measure that includes a bundle of interventions intended to effectively treat severe sepsis and septic shock
- Focuses on adults 18 years and older with a diagnosis of severe sepsis or septic shock
- Assesses:
 - o measurement of lactate
 - obtaining blood cultures
 - administering broad spectrum antibiotics
 fluid resuscitation
 - fluid resuscitation
 vasopressor administration
 - vasopressor administration
 reassessment of volume status and tissue perfusion
- repeat lactate measurement
- First three interventions should occur within 3 hours of presentation of <u>severe sepsis</u>; fourth within 3 hours of <u>septic shock</u>; next two within 6 hours of presentation of <u>septic shock</u>; last intervention within 6 hours of <u>severe sepsis</u>.

Quality Insights

SEP-1

Numerator: patients who received ALL of the following: Within three hours of presentation of severe sepsis:

- Initial lactate level
- Broad spectrum or other antibiotics administered
- Blood cultures drawn prior to antibiotics

AND received within six hours of presentation of severe sepsis, ONLY if the initial lactate is elevated

Repeat lactate level measurement

SEP-1 (cont.)

AND within three hours of initial hypotension **OR** septic shock

• Resuscitation with 30 mL/kg crystalloid fluids

AND within six hours of septic shock presentation, ONLY if hypotension persists after fluid administration:

• Vasopressors are administered

AND within six hours of septic shock presentation, if hypotension persists after fluid administration or initial lactate >= 4 mmol/L

• Repeat volume status and tissue perfusion assessment is performed

Quality Insights

SEP-1 (cont.)

Denominator: Inpatients age 18 and over with an ICD-10-CM Principal or Other Diagnosis Code of Sepsis, Severe Sepsis or Septic Shock as defined in Appendix A, Table 4.01

Excluded Populations:

- Comfort Care or Palliative Care within 6 hours of severe sepsis OR septic shock presentation
- Contraindication to care within 6 hours of severe sepsis OR septic shock presentation
- LOS > 120 days
- Transfer in from another acute care facility
- Enrolled in clinical trial for sepsis, severe sepsis, septic shock
 Patients with severe sepsis OR septic shock discharged within 6 hours
- of presentation
- $\circ~$ Patients receiving antibiotics for >24 hours prior to presentation



Quali Insigh

Qualit Insight

SEP-1 Sub-Measures

 RAPID – currently electing to report 5 submeasures

Sep1a

- Denominator All acute care inpatients with a diagnosis of Severe Sepsis
- Numerator Patients who received ALL the following within three hours of presentation of severe sepsis:
 - * Initial lactate level measurement
 - * Broad spectrum or other <u>antibiotics</u> administered
 - * Blood cultures drawn prior to antibiotics

Quality Insights

Quality Insights

Quality Insights

Sub-Measures

Sep1b

- **Denominator** All acute care inpatients with a diagnosis of Severe Sepsis AND initial lactate is elevated.
- **Numerator** Patients who received a <u>repeat lactate</u> <u>level</u> within six hours of presentation of severe sepsis

Sub-Measures

Sep1c

- Denominator All acute care inpatients with a diagnosis of <u>Severe Sepsis</u> AND have <u>hypotension</u> – OR have a <u>diagnosis of Septic Shock</u>
- Numerator Patients who received <u>resuscitation</u> with 30 mL/kg crystalloid fluids within three hours of initial hypotension OR septic shock

Sub-Measures

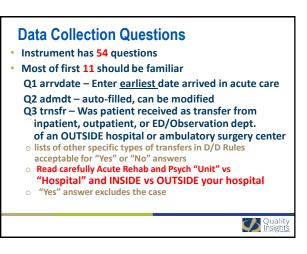
<u>Sep1d</u>

- Denominator All acute care inpatients with <u>septic</u> <u>shock AND</u> <u>hypotension that persists after fluid</u> <u>administration</u>.
- Numerator Patients who receive <u>vasopressors</u> within six hours of septic shock presentation

Sub-Measures

Sep1e

- Denominator All acute care inpatients with <u>septic</u> <u>shock</u> AND <u>hypotension that persists after fluid</u> <u>administration</u> – OR <u>initial lactate >= 4mmol/L</u>
- Numerator Patients who have a <u>repeat volume</u> <u>status</u> AND <u>tissue perfusion assessment performed</u> within six hours of septic shock presentation



Data Collection Questions (cont.) Order of Abstraction Q4 dcdt - autofilled; cannot be modified Admin Data Q5 dctm - autofilled; cannot be modified Q6 princode - autofilled with ability to change Diagnosis AntiBio / BloodCult Q7 othrcode1-24 - autofilled; cannot be modified Lactate on / Septic Shock Hypote Q8 prinpx/prinpxdt – principal procedure code/date Crystalloid / Persistent Hypot Q9 othrpx/othrpxdt1-5 – other procedure codes/dates Once the Admin Data is complete, you will need Q10 dcdispo to complete Diagnosis module FIRST Q11 clntrial - if "Yes" case is excluded All other modules depend on dates/times entered in Diagnosis module Quality Insight Qual Insigh

Severe Sepsis Presentation May be identified based upon physician/APN/PA documentation of <u>severe sepsis</u> or clinical criteria In this Pilot Study, will be looking for both Will first look for documentation of <u>severe sepsis</u> Must say "severe sepsis"

Q12 seppres Did a physician/APN/PA document presence of severe sepsis? • fro physician/APN/PA documentation of severe sepsis, but there is documentation of septic shock, select Value "1" (Yes). • Other Documentation Acceptable to Select Value "1" • Documentation of severe sepsis within an order set, etc. IF: recorded date and time is present and is earliest date and time recorded. • May use pre-hospital records (EMS, SNF) if found in CPRS/CAPRI/JLV • If more than one presentation of severe sepsis, use only first

Q12 seppres

Documentation to Select Value "2" (No).

- Title or heading of order set, protocol, checklist, etc.
 Severe sepsis documented as due to viral, fungal, or
- parasitic infection
- Severe sepsis documented in discharge note, DC summary, or note after time of discharge
- if within 6 hours after severe sepsis documentation, physician/APN/PA notes indicate patient:
 - $\circ\,$ is not septic
 - $\circ\,$ does not have sepsis or severe sepsis
 - does not have septic shock and severe sepsis was met by physician/APN/PA documentation septic shock was present

Quality Insights

Q12 seppres (cont.)

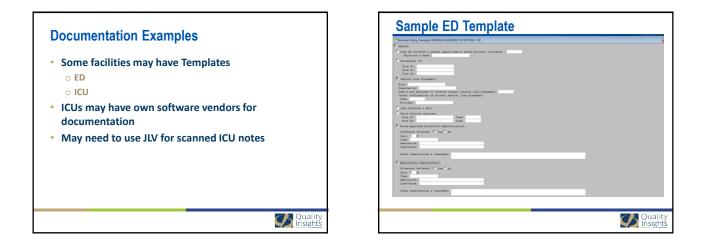
Severe sepsis documented using a qualifier Qualifiers Table in D/D rules

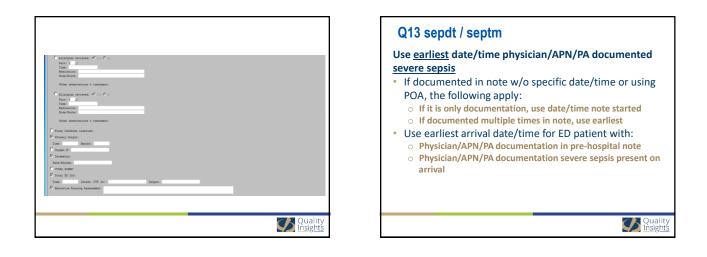
- Positive = Yes (e.g., Possible severe sepsis)
- Negative OR Negative and Positive = No (e.g., Doubt severe sepsis; Questionable, but likely severe sepsis)

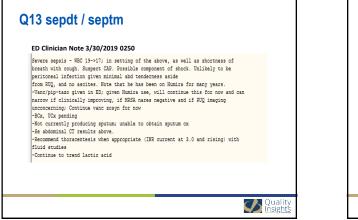
Exclude: Bacteremia, Septicemia

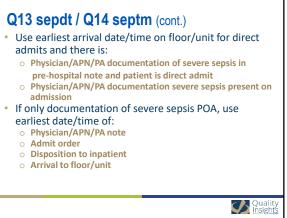
Data Sources: ONLY Physician/APN/PA documentation

Quality Insights









Q13 sepdt / Q14 septm (cont.)

• If no documentation of severe sepsis, but there is physician/APN/PA documentation of septic shock, enter earliest date/time septic shock documented

Severe Sepsis Clinical Criteria

- Intent of next set of questions is to determine if/when clinical criteria for severe sepsis were met.
- In order to establish the presence of severe sepsis by clinical criteria, all three clinical criteria
 - o documentation of infection,
 - $\circ\,$ two or more manifestations of systemic infection, and
 - o organ dysfunction

must be met within 6 hours of each other. The three clinical criteria do not need to be documented in any particular order.

Qualit Insight

Clinical Criteria – (1)Documentation of Infection Q15 sepinf - Is there documentation of infection in the medical record? Table of conditions commonly associated with severe sepsis - NOT all inclusive **Acceptable Documentation of Infection** Physician/APN/PA or nursing documentation referencing presence of infection Antibiotic is ordered for inflammatory condition or sign/symptom of infection - may be considered documentation of infection (e.g., ceftriaxone ordered for colitis, Zosyn 3.375 g IV q6hr for cough).

Quality Insight

Quality Insights

Q15 sepinf

Q15 sepinf (cont.)

Exclusions: Documentation NOT acceptable for an infection:

 If within 6 hours following initial documentation, there is additional physician/APN/PA documentation indicating infection is not present, disregard the initial documentation. Example: ED physician/APN/PA documents rule out UTI and

pneumonia at 0500. At 1000 hospitalist documents no infection present. Disregard ED physician/APN/PA documentation of rule out UTI and pneumonia

Qualit Insight

Qua Insig

Q15 sepinf (cont.)

Exclusions (cont.):

- Colonization, positive screens, or positive cultures (e.g., MRSA, VRE) without physician/APN/PA documentation referencing infection
- Fungal, parasitic or viral infections
- History of infection, recent infection or recurrent infection not documented as current or active infection
- Orders for tests, results of tests, signs/symptoms of infection without supportive documentation of infection

Documentation of Infection using Qualifiers Same table of Positive/Negative Qualifiers as in severe sepsis • Positive qualifier should be used to meet criteria • Negative qualifier or both negative/positive qualifiers should NOT be used

Qualit Insight

Q16 infdt and inftm

Use earliest date/time physician/APN/PA or nursing documentation of presence of infection

- ED Patients: Use earliest documented arrival date/time for patients who enter ED with documentation of infection in prehospital records or present on arrival (POA).
- Direct Admit Patients: Use <u>earliest</u> documented date/time patient arrives to the floor or unit with documentation of infection in pre-hospital records or POA.
- If the only documentation of infection being present is in a physician/APN/PA or nursing note that infection was present on admission (POA), use the <u>earliest</u> date/time the following note type was started or opened:
 - Physician/APN/PA or nursing note
 - o Admit order
 - o Disposition to inpatient o Arrival to floor or unit

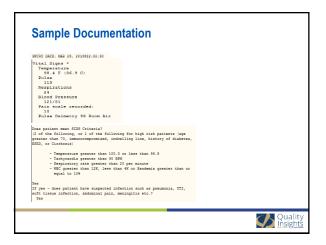
Quality Insights

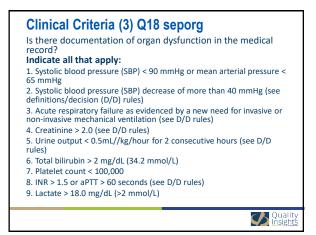
Clinical Criteria (2) Q17 sepsirs

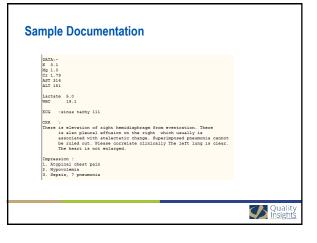
Is there documentation in the medical record of two (2) or more of the following manifestations(indications) of systemic infection:

Indicate all that apply:

- 1. Temperature >38.3 C or <36.0 C (>100.9 F or < 96.8 F)
- 2. Heart rate (pulse) >90
- 3. Respiration >20 per minute
- 4. White blood cell count >12,000 or <4,000 or >10%
- bands
- 99. None of the above documented







Qual Insigh

Qualit Insight

Q18 seporg

Organ dysfunction, evidenced by any one of question options

- Hypotension SBP < 90 mmHg or MAP < 65 mmHg
- SBP ↓ > 40 mmHg physician/APN/PA documentation the ↓ is related to infection, severe sepsis, septic shock NOT other causes
- Acute respiratory failure
- intubated/tracheostomy on ventilator
 BiPAP/CPAP
 - New need for invasive/non-invasive mechanical ventilation

Quality Insights

Q18 seporg

- Creatinine > 2.0 physician/APN/PA documentation of ESRD and dialysis prior to or within 24 hours following presentation of severe sepsis – disregard reported creatinine levels as signs of organ dysfunction
- Urine output <0.5 mL/hr (for 2 hours) clear documentation urine is being monitored hourly
- INR > 1.5 or aPTT > 60 sec if given anticoagulant in Appendix C Table 5.3, do NOT use elevated levels; Heparin flushes do not count.

Q18 seporgdt/seporgtm

- For each of those options found, enter the earliest date/time of documentation
- In software, question will look like sepsirs on a previous slide

Q19 sepsisdt and sepsistm

Question will be auto-filled based on responses to severe sepsis clinical criteria questions, dates and times.

 If all 3 clinical criteria are met within 6 hours of each other, will be autofilled with most recent date/time from infdt/tm, sepsirsdt/tm and seporgdt/tm

Quality Insights

Q19 sepsisdt and sepsistm (cont.)

- If there is documentation of severe sepsis and not all clinical criteria are met within 6 hours of each other, will be auto-filled with 99's and will go to cntrasevsep.
- If NO documentation of severe sepsis or severe sepsis not met by all three clinical criteria within 6 hours of each other, abstraction will stop here.

Quality Insights

Q20 sepresdt and Q21 seprestm • This date and time will be auto-filled with the earliest valid date/time entered for documentation of severe sepsis (sepdt/septm) or the most recent date/time from documentation of when the final clinical criterion for severe sepsis was met (sepsisdt/sepsistm).

Q22 cntrasevsep

 During the timeframe from 6 hours before severe sepsis presentation date and time to 6 hours after severe sepsis presentation date and time is there <u>physician/APN/PA or</u> <u>nursing</u> documentation that the patient or authorized patient advocate refused either a blood draw, IV fluid administration, or IV antibiotic administration?

ACCEPTABLE:

- Specific documentation patient/authorized advocate refused blood draws, IV/IO fluids, IV/IO antibiotics
- General documentation of refusal of care/ noncompliance
- Left AMA in timeframe (signed form not required)
 Do not consider any AMA documentation as "contradictory"

Quality Insights

Q22 contrasevsep

NOT ACCEPTABLE:

- Refusal of specific blood draws not impacting requirements of measure (e.g. HIV, ABG)
- Documentation patient left before DC instructions could be given does not count as leaving AMA

Inclusions: Declined; Does not want; Refused; Requests not to be given

A "yes" answer will exclude case.

Q23 cmopall

During the timeframe from 6 hours before severe sepsis presentation date and time to 6 hours after severe sepsis presentation date and time is there physician/APN/PA documentation of comfort measures only or palliative care?

- Only accept terms identified in the list of inclusions. No other terminology will be accepted
- Other guidelines essentially same as COMFORT in other instruments (See D/D rules)

A "yes" answer AND other conditions will exclude case.



Q24 antibio

- During the timeframe from (24 hours prior or 3 hours after severe sepsis presentation date/time) was a broad spectrum or other antibiotic administered intravenously (IV)?
- Only IV antibiotics administered in 24 hours prior to or 3 hours after severe sepsis presentation are acceptable.
- For informational purposes antibiotics administered up to 6 hours after Severe Sepsis Presentation Date/Time are being collected.
 EXCEPTION: If documentation indicates IV access could not

be established, antibiotics via intramuscular (IM) or intraosseous (IO) started in timeframe are acceptable



Q24 antibio

ONLY ACCEPT:

- Documentation demonstrating actual administration (antibiotic name, route, date, time)
- Pre-hospital records may be used

NOT ACCEPTABLE:

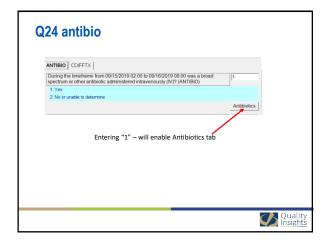
- Order without marked as "started" with date/time
- Test doses
- Documentation in sources that do not represent actual administration
- Documentation in narrative note unless no other documentation
- Documentation without all components (name, route, date, time)

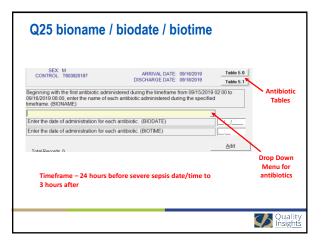
Quality Insights

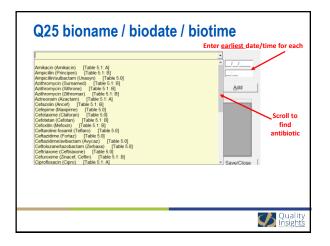
Q25 bioname / biodate / biotime

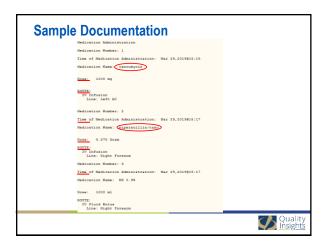
Beginning with <u>first</u> antibiotic administered, enter name, date and time of administration for each antibiotic given intravenously (IV).

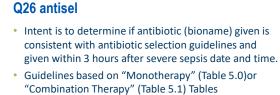
- For informational purposes dates/times up to 6 hours after severe sepsis date/time are being collected
- Only IV antibiotic(s) administered 24 hours prior to or 3 hours after severe sepsis presentation are acceptable.
 EXCEPTION: If documentation indicates IV access could not be established, antibiotics via intramuscular (IM) or intraosseous (IO) in timeframe are acceptable.
- Other guidelines same as antibio







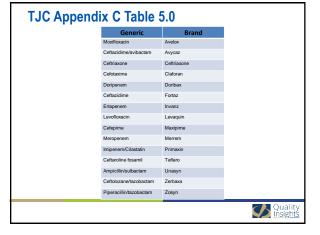




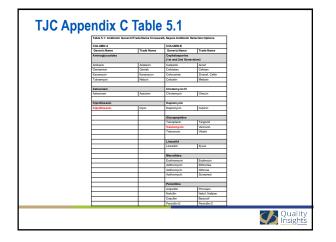
- Will be auto-filled as "1" if one antibiotic is on Table 5.0 and given in timeframe **OR**
- If no antibiotic on Table 5.0, but one from Table 5.1, Column A **AND** one from Column B given in timeframe

Quality Insights

• Otherwise it will be auto-filled as "2"



Qualit Insight



Q26 antisel

Example:

- Severe Sepsis Presentation Time 1200
- Ciprofloxacin initiated at 1230
- Vancomycin initiated at 1330
- Combination Antibiotic Therapy Table:
- Ciprofloxacin is in column A
- Vancomycin is in column B
- Both antibiotics were initiated within 3 hours of severe sepsis presentation time, therefore value "1" would be auto-filled.

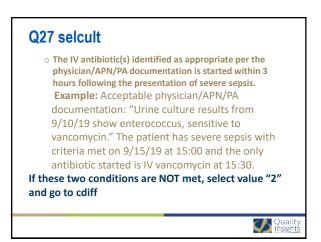
If appropriate antibiotics not given in timeframe OR no antibiotics in timeframe value "2" will be autofilled and go to selcult

Q27 selcult

Is there Physician/APN/PA documentation referencing the results of a culture within 5 days prior to earliest antibiotic date/time?

- If IV antibiotic(s) from Table 5.0 or appropriate combination of IV antibiotics from Table 5.1 are not started within 3 hours following presentation of severe sepsis, and the following conditions are met, choose value "1."
 - There is Physician/APN/PA documentation referencing the results of a culture from within 5 days prior to the antibiotic start time. The documentation must:
 - Identify the date of the culture results (must be within 5 days prior to the antibiotic start date/time).
 - Identify the suspected causative organism from the culture result and its antibiotic susceptibility.

Quality Insights



Q28 cdiff

During the timeframe within 24 hours prior to earliest date/time of antibiotic administration is there physician/APN/PA documentation identifying the presence of C. difficile?

 If the patient has C. difficile, and IV antibiotic(s) from Table 5.0 or an appropriate combination of IV antibiotics from Table 5.1 are not started within the 3 hours following presentation of severe sepsis, and the following conditions are met, choose value "1."
 There is physician/APN/PA documentation within 24 hours

- of the antibiotic start time identifying the presence of C. difficile. Documentation that C. difficile is suspected or likely is acceptable.
- If "yes", go to cdifftx

Quality Insights

Q29 cdifftx

During the timeframe 3 hours after severe sepsis presentation date/time is there documentation of any one of the following treatments.

- Oral vancomycin with or without oral or IV metronidazole (Flagyl)
- Rectal vancomycin with or without IV metronidazole (Flagyl)
- IV metronidazole (Flagyl) monotherapy

Qual Insigh

Qual Insigh

Qualit Insight

Q30 bloodcul

Two timeframes to consider for when blood culture drawn – intent is to determine if blood culture drawn before antibiotic given

- If patient receives IV or IO antibiotic within 24 hours before presentation of severe sepsis, timeframe is:
 - 24 hours prior to antibiotic date/time through 3 hours after severe sepsis presentation date/time
- If patient does not receive IV or IO antibiotic within 24 hours before presentation of severe sepsis, timeframe is:
 - 24 hours prior to severe sepsis presentation date/time through 3 hours after severe sepsis presentation date/time

Quality Insights

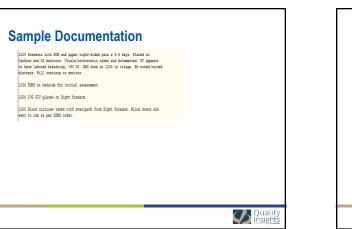
Q30 bloodcul

Include:

- Documentation blood cultures (BC), actually drawn/collected
- BC ordered and attempted to collect, but attempt fails or specimen contaminated
- Supportive documentation blood culture was collected in appropriate timeframe

Exclude:

- Blood sent to lab, lab here, labs drawn
- Only documentation of physician orders



Q31 bldculdt and bldcultm

During specified time frame enter date/time blood culture drawn/collected.

- Guidelines same as for Q30 bloodcul
- If multiple blood cultures drawn or attempted, use <u>earliest</u> date/time.
- **Include:** Blood culture drawn, blood culture to lab, blood culture received

Exclude: Blood sent to lab, lab here, labs drawn

Q32 bldculdel

Is there documentation supporting an acceptable delay in collecting a blood culture?

- Only situations that demonstrate acceptable delay where blood culture was drawn after the *Broad Spectrum or Other Antibiotic Administration Date* and *Time*.
- Surgical patients who receive pre or post-op prophylactic antibiotic within 24 hours before severe sepsis identified
 Antibiotics started in hospital for infection within 24 hours before severe sepsis identified.
- Antibiotics started prior to hospital arrival within 24 hours before severe sepsis was identified
- A physician/APN/PA documented reason for delay, which makes it clear that waiting to start the antibiotic would be detrimental to the patient.
- OB patients given prophylactic antibiotics for ruptured membranes, group B strep, or prior to caesarean section.

Quality Insights

Q33 lactate

During the timeframe from 6 hours prior to 6 hours after severe sepsis presentation, was an initial lactate level drawn (or collected)?

- Timeframe for scoring is 6 hours prior to 3 hours after collecting data up to 6 hours after for information
 - If multiple lactate levels drawn within time frame, use the HIGHEST lactate level drawn PRIOR to Severe Sepsis Presentation Time.
 - If multiple lactate levels drawn ONLY in the 3 hours after Severe Sepsis Presentation Time, use the Highest lactate level drawn
- If no documentation lactate was drawn or collected, but there is supportive documentation, use earliest supportive documentation (e.g., lactate sent to lab, lactate received, lactate result).

Quality Insights

Quali Insigh

Q33 lactate (cont.)

- If within 24 hours of Severe Sepsis Presentation Time there is physician/APN/PA or nursing documentation lactate value is invalid, erroneous or questionable, disregard that value.
- If lactate level drawn but no results in the record, choose Value "1."

Include: lactate level collected, lactate level drawn, lactic acid drawn

Exclude: labs drawn



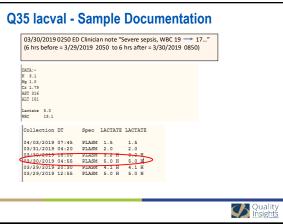
Q34 lactdt and lactm

Enter the date/time the initial lactate level was drawn.

- Guidelines same as Q33 lactate
- If more than one date/time of documentation for the *Initial Lactate Level Collection*, use the following order to determine which date/time to abstract.
 - 1. Laboratory documentation indicating date/time lactate was drawn.
 - Non-narrative location indicating lactate was drawn with an associated date/time (e.g., sepsis flowsheet, checklist, screening).
- 3. Narrative note indicating lactate is drawn with an associated date/time.

Q35 lacval What initial lactate level result was documented in the record? 1. <= 2 mmol/L (less than or equal to 2 mmol/L) 2. > 2 and < 4.0 mmol/L (greater than 2 mmol/L and less than 4 mmol/L) 3. >= 4 mmol/L (4 mmol/L or greater) Mg 1.0 Cr 1.79 AST 316 ALT 151 99. Initial lactate result was not documented or unable to determine result May be reported as mmol/L or mg/dL Lactate 5.0 WRC 19.1 Equivalents in D/D rules Collection DT • If POC and lab results from the same sample, use the results recorded first. If physician/APN/PA documents prior to or within 24 hours after initial lactate result indicating initial lactate value is due to a condition that is not an infection, or is due to a medication, select Value "1" (<= 2mmol/L).

Quality Insights



Q36 replact

During the timeframe from (computer display lacdt/lactm to sepresdt/seprestm +1 day) was a repeat lactate level drawn?

- Next level drawn after initial if elevated (>2.0 mmol/L)
- Must be in specified timeframe if not select Value "2"
- Other guidelines same as Q33 lactate

Include: lactate level collected, lactate level drawn, lactic acid drawn

Exclude: labs drawn

Quality Insights



During the specified timeframe, enter the earliest date/time the repeat lactate level was drawn (or collected).

Guidelines same as Q36 replact

Qua Insig

Q38 hypotns

During the time frame from 6 hours prior to 6 hours after severe sepsis presentation is there documentation initial hypotension was present?

Criteria for determining Initial Hypotension:

- Two hypotensive blood pressure readings at different times within the specified time frame.
 - $\,\circ\,$ systolic blood pressures <90, or
 - $\circ~$ mean arterial pressures (MAP) <65, or
 - $\,\circ\,$ a decrease in systolic blood pressure by >40 mm/Hg.
 - Physician/APN/PA documentation must be present indicating a >40 mmHg decrease in SBP has occurred and is related to infection or severe sepsis and not other causes.

Quality Quality

Q38 hypotns (cont.)

 Definition of MAP in D/D rules. There are methods to calculate, but ONLY accept actual documentation of MAP <65.

Acceptable Hypotensive BPs (Examples in D/D rules)

- Pre-hospital records considered part of medical record
 - Due to:
 - Acute condition
 - $\circ\,$ Acute on chronic condition
- Infection
- Term documented instead of abnormal value
- Conflicting documentation hypotension normal AND possibly due to severe sepsis

Quality Insights

Quali Insigh

Q39 hypotns

Not Acceptable Hypotensive BPs:

- Obtained in the OR, interventional radiology, during active delivery, or procedural/conscious sedation
- Documented from an orthostatic BP evaluation (tilt test).
- Documented as normal for patient
- Documented as due to non-infectious source/process

In the ED, found to be orthostatic hypotensive with good response to 3L NS IVF.

BJECTIVE: P 80-90 systolic --> 3L IVF --> 110 systolic



Q40 hypotnsdt and hypotnstm

Enter the date/time on which initial hypotension was present during the time frame from 6 hours prior to 6 hours after severe sepsis presentation.

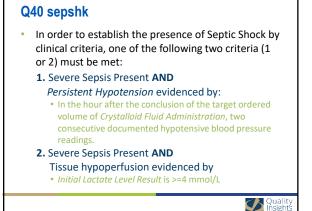
- Use <u>earliest</u> date/time of the <u>second</u> hypotensive BP documented in time period
- If <u>more than two</u> hypotensive BPs in time period use the date/time of the <u>second</u> hypotensive BP
- Use date/time documented for when hypotensive BP was <u>taken or obtained</u> if available. If not available, use <u>recorded or documented</u> date/time.

Q40 sepshk

Did a physician/APN/PA document presence of septic shock?

- Include: Septic Shock, Severe Sepsis with Shock
- Exclude: Bacteremia, Septicemia, Shock (not referenced as related to Severe Sepsis or Septic Shock)
- Presence of Septic Shock may be identified based upon physician/APN/PA documentation OR clinical criteria.
- Look first for physician/APN/PA documentation of Septic Shock and choose Value "1" if found.





Q40 sepshk

- If Septic Shock presentation is more than six hours after Severe Sepsis Presentation Time, select Value "2".
- Do **NOT** use title or heading of order set, protocol, checklist, etc.
- Documentation of septic shock within an order set, etc. may be used IF: recorded date and time is present and is earliest date and time recorded
- Use pre-hospital records (EMS, SNF) if considered part of medical record

Quality Quality

Q40 sepshk

- Choose Value "2" if within 6 hours after septic shock documentation, physician/APN/PA notes indicate patient:
 - o is not septic
 - o does not have Sepsis, Severe Sepsis, Septic Shock
 - Septic Shock is due to a viral, fungal or parasitic infection
- Qualifiers Table in D/D rules
 - Positive = Yes
 - o Negative/both = No

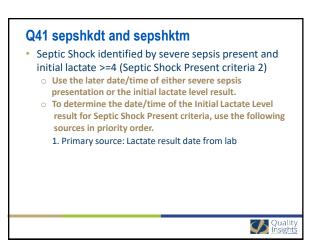
Q41 sepshkdt and sepshktm

Enter the earliest date/time a physician/APN/PA documented presence of septic shock OR the earliest date/time on which the final criterion for septic shock was met

- First determine if documentation of septic shock
- Septic Shock identified by severe sepsis present and persistent hypotension (Septic Shock Present criteria 1):
 - Use the later date/time of either severe sepsis presentation or persistent hypotension.
 - For persistent hypotension, use the date/time of the last consecutive blood pressure reading that identifies the presence of persistent hypotension.



Quality Insights



Q41 sepshkdt and sepshktm

- Supporting sources in priority order if primary source not available:
 - 1. Date/time within a narrative note that is directly associated with the lactate result
 - 2. Date/time the lactate result is documented in a nonnarrative location (e.g., sepsis flowsheet)
 - 3. Initial Lactate Level Collection Date/Time
 - 4. Physician/APN/PA or nursing narrative note open date/time

Q41 sepshkdt and sepshktm Use earliest arrival date/time for ED patient OR earliest arrival date/time on floor/unit for direct admits with: Septic shock clinical criteria met in pre-hospital records Physician/APN/PA documentation of septic shock in pre-hospital records Physician/APN/PA documentation septic shock present on arrival If only documentation of septic shock is POA, use earliest date/time of: Physician/APN/PA note Admit order Disposition to inpatient Arrival to floor/unit

Qual Insig

Qualit Insight

Q41 sepshkdt and sepshktm

- If septic shock is in a physician/APN/PA note without a specific date/time documented within the note or documented using the acronym POA, the following apply:
 - If it is the only documentation of Septic Shock in the note, use the date/time the note was started or opened.
 - If Septic Shock is documented multiple times within the same note, use the earliest specified date/time.

Q42 cntrasepshk

- During the timeframe from 6 hours before septic shock time to 6 hours after septic shock date/time, is there physician/APN/PA or nursing documentation that the patient or authorized patient advocate refused either a blood draw, IV fluid administration, or vasopressor administration?
- Guidelines same as Q22 cntrasevsep

Q43 cmopall2

- During the timeframe from 6 hours before to 6 hours after septic shock time, is there physician/APN/PA documentation of comfort measures only or palliative care?
- Guidelines same as Q23 cmopall

Q44 crystl

During the timeframe from [...] were crystalloid fluids initiated?

- Specified time frame is within 6 hours prior through 3 hours after either of the following trigger events. If both present the specified time frame is determined by the earliest trigger.
 - Initial Hypotension Date and Time
 - Septic Shock Presentation Date and Time

Include: Crystalloid fluids such as: 0.9% saline solution, 0.9% Sodium Chloride (0.9%NaCl) Solution, Isolyte, Lactated Ringers (LR or RL) solution, normal saline (NS), Normosol, PlasmaLyte Exclude: Crystalloid solutions that are given to flush

other medications or IV lines



Quality Insight

Q44 crystl

Documentation of fluid initiation:

- Medical record documentation must be clear that crystalloid fluids were
- actually initiated/started (i.e., date/time of administration is noted). Do not use physician/APN/PA orders as equivalent to actual initiation of fluids as they are not specific to initiation.
- Crystalloid fluid orders:
- Physician/APN/PA orders are required
- Must include type, volume, and rate or time over which fluids are to be
- Terms bolus, wide-open, or open are acceptable for a rate of infusion
- duration.
 If type, volume, rate or infusion duration is missing, do not use the order
- If type, volume, rate or infusion duration is missing, do not use the order toward the target ordered volume.
- The target ordered volume may be single order or series of multiple orders.
- If crystalloid fluids are initiated via multiple physician/APN/PA orders, only abstract crystalloid fluids initiated within the specified time frame.

Quality Insights

Q44 crystl

- Exception for Prior to Arrival: Documentation of fluids administered prior to arrival (e.g., ambulance, nursing home) are acceptable if documentation contains type, volume, start time, and either a rate, duration, or end time of the fluid infusion. A physician/APN/PA order for fluids administered prior to arrival is not required.
- Exception for Operating Room (OR): Crystalloid fluids administered in the OR by a physician/APN/PA are acceptable without an order if a fluid type, infusion start time, and infusion rate or infusion end time is documented.
- Documentation patient/authorized patient advocate has refused IV fluid administration prior to or within 6 hours following presentation of septic shock - select Value "98"

Q45 crystldt and crystltm

Enter the earliest date/time on which crystalloid fluids were initiated.

- Timeframe same as in Q44 crystl
- If single order written for target ordered volume, use date/time the solution was started as an IV infusion.
- If single order written for target ordered volume and infusion given over multiple infusions, use start date/time of the first fluid infusion.
- If multiple orders written that total the target ordered volume, use start date/time of the crystalloid fluid infusion that completes the target ordered volume.
- If a crystalloid infusion is running at a maintenance rate (125 mL/hour or less) and the rate is increased to administer the target ordered volume, use the date/time the infusion rate is increased.
- Do not abstract order date/time or date/time of IV access

Quality Insights

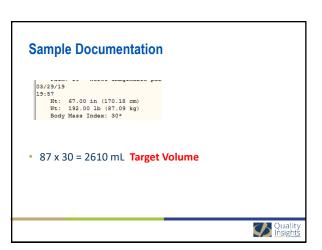
Q46 weight

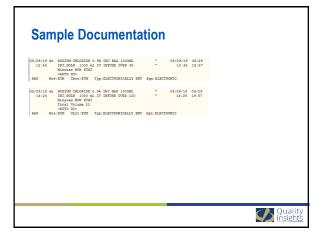
Enter the patient's weight in kilograms (kg).

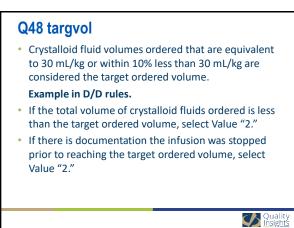
- If weight documented in pounds, divide the value by 2.2, round to the nearest whole number and enter the weight as kilograms
- To calculate the appropriate target ordered volume use the actual or estimated weight in the following priority order.
 - 1. Weight documented in the crystalloid fluid order
 - 2. Weight documented closest and prior to the order for crystalloid fluids
 - 3. Weight documented closest and after the order for crystalloid fluids

Quality Insights

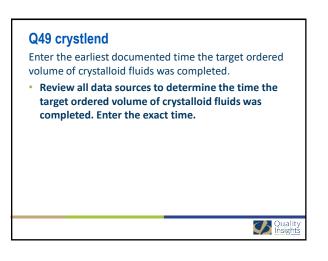
Q47 crystlvol Computer will calculate the target volume based on weight entered and enter in milliliters (mL) Q48 targvol During the timeframe from [...] was the target ordered volume of crystalloid fluids (computer display crystlvol) completely infused? Timeframe based on multiple factors The target ordered volume must be ordered and initiated within the specified time frame if Initial Hypotension or Septic Shock is present. To choose Value "1," the target ordered volume must be documented as completely infused. (Go to D/D Rules in Word document)

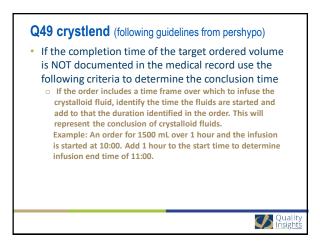


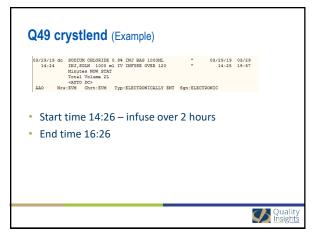


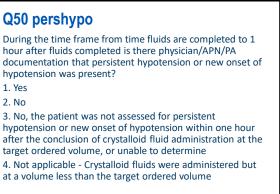


Medication Administration	
Medication Number: 1	
Time of Medication Administration: Mar 29,2019012:56	
Medication Name: NE 0.94	
Dose: 1000 ml	
ROUIS: IV Fluid Bolus Line: Right FIV	
Medication Number: 3	
Time of Nedication Administration: Mar 29,2019015:17	
Medication Name: NS 0.9%	
Dome: 1000 ml	
ROUTE: IV Fluid Bolus Line: Right forearm	









Qual Insig

Q50 pershypo

- The criteria for determining persistent hypotension or new onset of hypotension are (same as for Q38 hypotns except different timeframe):
 - In the one hour following conclusion of administration of the target ordered volume of crystalloid fluids, <u>two consecutive</u> documented blood pressure readings of either:
 - * systolic blood pressure <90, or
 - * mean arterial pressure (MAP) <65 or
 - * a decrease in systolic blood pressure by >40mm/Hg Physician/APN/PA documentation must be present in the medical record indicating a >40 mmHg decrease in SBP has occurred and is related to infection, severe sepsis or septic shock and not other causes.

Quality Insight

Q50 pershypo

Hypotensive BPs within the hour acceptable to use

(Examples in D/D rules)

- Due to:
 - Acute condition
 - Acute on chronic condition
- Term documented instead of abnormal value
- Conflicting documentation hypotension normal or chronic AND possibly due to severe sepsis/septic shock
- Persistent hypotension is unable to be determined but a vasopressor was administered

Q50 pershypo

Hypotensive BPs within the hour NOT acceptable to use

- Obtained within OR, interventional radiology, during active delivery, or procedural/conscious sedation
- Documented from an orthostatic BP evaluation (tilt test)
- Documented as normal for patient due to chronic condition
- Documented as due to non-infectious source/process
- Persistent more that six hours after septic shock time



Quality Insights

Q51 vasoprs

During the timeframe from septic shock time to 6 hours after, is there documentation an intravenous (IV) or intraosseous (IO) vasopressor was administered?

- Only Acceptable Vasopressors given via the IV or IO route: (Table in D/D Rules)
- Only abstract from documentation that demonstrates actual administration of the vasopressor.

(Go to Instrument)

Q52 vasoprsdt and vasoprstm

During the timeframe from septic shock time to 6 hours after, enter the date/time on which an IV or IO vasopressor was administered.

• Guidelines follow Q51 vasoprs guidelines

 If a vasopressor was infusing at the date/time of presentation of septic shock, and multiple doses were subsequently given, abstract the date/time the vasopressor that was infusing at the time of presentation of septic shock was initiated.
 (See Example in D/D rules)

Q54 rptvolst

During the timeframe from initial time of fluid administration to 6 hours after septic shock presentation time, is there documentation of a repeat volume status and tissue perfusion assessment?

 A repeat volume status and tissue perfusion assessment may consist of any one of the following three:

 Physician/APN/PA documentation indicating or attesting to performing or completing a physical examination, perfusion (re-perfusion) assessment, sepsis (severe sepsis or septic shock) focused exam, or systems review. (Examples in D/D rules)



Quali Insigh

Qualit Insight

Q54 rptvolst

 Physician/APN/PA documentation indicating or attesting to performing or completing a review of at least five of the following eight parameters

- 1) Arterial O₂ saturation
- 2) Capillary Refill
- 3) Cardiopulmonary assessment (See D/D rules)
- 4) Peripheral pulses
- 5) Shock Index (SI)
- 6) Skin Color or Condition
- 7) Urine Output
- 8) Vital Signs

time window.

Q54 rptvolst

3. Documentation demonstrating one of the following was measured or performed.

- 1) CVP
- 2) ScvO₂
- 3) Echocardiogram
- 4) Fluid Challenge or Passive Leg Raise
- If No documentation found of repeat volume status and tissue perfusion assessments, choose Value "2" for Q54 rptvolst

Q55 rptvolstdt and rptvolsttm During the timeframe from initial time of fluid administration to 6 hours after septic shock presentation time, enter the date/time on which a repeat volume status and tissue perfusion assessment was documented by a physician/APN/PA. Physician/APN/PA documentation must occur or reflect the assessment was performed between Crystalloid Fluid Administration Date/Time and six hours after Septic Shock Presentation Date/Time. If multiple repeat volume status and tissue perfusion assessments performed, abstract the date/time of the earliest assessment documented within the appropriate

Quality Insights

Quality Insights

