



5) **Reliability of compliance with sepsis resuscitation bundle element 4a:** *for hypotension and/or lactate > 4 mmol/L (36 mg/dl), deliver an initial minimum of 20 ml/kg of crystalloid (or colloid equivalent):*

- a) Tally the number of charts with an affirmative answer to question 7a on the individual chart measurement tool: \_\_\_\_\_
- b) Tally the number of charts with affirmative answers to question 7c on the individual chart measurement tool. \_\_\_\_\_
- c) Reliability of compliance with sepsis resuscitation bundle element 4a: divide line 5b on this worksheet by line 5a on this worksheet \_\_\_\_\_

6) **Reliability of compliance with sepsis resuscitation bundle element 4b:** *apply vasopressors for hypotension not responding to initial fluid resuscitation to maintain mean arterial pressure (MAP)  $\geq$  65 mmHg:*

- a) Tally the number of charts with negative answers to question 7d on the individual chart measurement tool: \_\_\_\_\_
- b) Tally the number of charts with affirmative answers to question 7e on the individual chart measurement tool: \_\_\_\_\_
- c) Reliability of compliance with sepsis resuscitation bundle element 4b: divide line 6b on this worksheet by line 6a on this worksheet: \_\_\_\_\_

7) **Quality Indicator #3,** *following septic shock or lactate > 4 mmol/L (36 mg/dl) identification, central venous pressure (CVP) of  $\geq$  8 mm Hg achieved within 6 hours of presentation time:*

- a) Number of patients in septic shock: tally the number of charts marked with a negative response to question 7f on the individual chart measurement tool. \_\_\_\_\_
- b) Number of patients not in septic shock but with serum lactate > 4 mmol/L (36 mg/dl): tally the number of charts marked at 7d (iii) AND 7f (iii) on the individual chart measurement tool: \_\_\_\_\_
- c) Total number of patients who are in septic shock and/or who have lactate > 4 mmol/L (36 mg/dl): add lines 7a and 7b from this worksheet. \_\_\_\_\_
- d) The number patients in septic shock or with lactate greater than 4 mmol/L (36 mg/dl) for whom CVP is  $\geq$  8 within 6 hours from time of presentation: tally the number of charts with an affirmative answer to question 8b on the individual chart measurement tool. \_\_\_\_\_
- e) **Reliability of compliance with sepsis resuscitation bundle element 5a,** *in the event of persistent hypotension despite fluid resuscitation (septic shock) and/or lactate > 4 mmol/L (36 mg/dl), achieve central venous pressure (CVP)  $\geq$  8 mm Hg:* Divide line 7d on this worksheet by line 7c on this worksheet: \_\_\_\_\_\*

**Numerator for Improvement Tracker (from line 7d on this worksheet):** \_\_\_\_\_

**Denominator for Improvement Tracker (from line 7c on this worksheet):** \_\_\_\_\_

\* The reliability of compliance with sepsis resuscitation bundle element 5a is the same as the final value for quality indicator #3 in this instance.

8) **Quality Indicator #4,** *following septic shock or lactate > 4 mmol/L (36 mg/dl) identification, ScvO<sub>2</sub>  $\geq$  70% (or SvO<sub>2</sub>  $\geq$  65%) achieved within 6 hours of presentation time:*

- a) Total from line 7c on this worksheet: \_\_\_\_\_
- b) Number of patients who are in septic shock or who have lactate greater than 4 mmol/L (36 mg/dl) for whom ScvO<sub>2</sub> is  $\geq$  70% (or SvO<sub>2</sub> is  $\geq$  65%) within 6 hours of presentation: tally the number of charts with an affirmative answer to question 9b on the individual chart measurement tool: \_\_\_\_\_
- c) **Reliability of compliance with sepsis resuscitation bundle element 5b,** *in the event of persistent hypotension despite fluid resuscitation (septic shock) and/or lactate > 4 mmol/L (36 mg/dl), achieve central venous oxygen saturation (ScvO<sub>2</sub>) of 70% (or mixed venous oxygen saturation (SvO<sub>2</sub>) of 65%):* divide line 8b on this worksheet by line 8a on this worksheet: \_\_\_\_\_\*

**Numerator for Improvement Tracker (from line 8b on this worksheet):** \_\_\_\_\_  
**Denominator for Improvement Tracker (from line 8a on this worksheet):** \_\_\_\_\_

\* The reliability of compliance with sepsis resuscitation bundle element 5b is the same as the final value for quality indicator #4 in this instance.

**9) Quality Indicator #5, low-dose steroids administered in accordance with a standardized ICU policy for septic shock over the first 24 hours following the time of presentation:**

- a) Total number of patients with septic shock: line 7a on this worksheet: \_\_\_\_\_
- b) Tally the number of affirmative answers to question 10c on the individual chart measurement tool: \_\_\_\_\_
- c) Tally the number of affirmative answers to question 10f on the individual chart measurement tool: \_\_\_\_\_
- d) Number of patients for whom steroids were administered in accordance with a standardized ICU policy within 24 hours of presentation: Add lines 9b on this worksheet and 9c on this worksheet: \_\_\_\_\_
- e) **Reliability of compliance with sepsis management bundle element 1, low-dose steroids administered in accordance with a standardized ICU policy:** Divide line 9d on this worksheet by line 9a on this worksheet: \_\_\_\_\_\*

**Numerator for Improvement Tracker (from line 9d on this worksheet):** \_\_\_\_\_  
**Denominator for Improvement Tracker (from line 9a on this worksheet):** \_\_\_\_\_

\* The reliability of compliance with sepsis management bundle element 1 is the same as the final value for quality indicator #5 in this instance.

**10) Quality Indicator #6, Drotrecogin alfa (activated) administered in accordance with a standardized ICU policy for septic shock over the first 24 hours following time of presentation:**

- a) Tally the number of affirmative answers to question 11b on the individual chart measurement tool: \_\_\_\_\_
- b) Tally the number of affirmative answers to question 11e on the individual chart measurement tool: \_\_\_\_\_
- c) Number of patients for whom Drotrecogin alfa (activated) was administered in accordance with a standardized ICU policy within 24 hours of presentation: Add lines 10a on this worksheet and 10b on this worksheet: \_\_\_\_\_
- d) **Reliability of compliance with sepsis management bundle element 2, Drotrecogin alfa (activated) administered in accordance with a standardized ICU policy:** divide line 10c on this worksheet by line 1 on this worksheet: \_\_\_\_\_\*

**Numerator for Improvement Tracker (from line 10c on this worksheet):** \_\_\_\_\_  
**Denominator for Improvement Tracker (from line 1 on this worksheet):** \_\_\_\_\_

\* The reliability of compliance with sepsis management bundle element 2 is the same as the final value for quality indicator #6 in this instance.

**11) Quality Indicator #7, glucose control maintained  $\geq$  the lower limit of normal and with median value  $< 150$  mg/dl (8.3 mmol/L) over the first 24 hours following presentation with severe sepsis, septic shock:**

- a) Tally the number of patients for whom median glucose was recorded to be  $< 150$  on line 12 of the individual chart measurement tool AND for whom no episodes of hypoglycemia were recorded on line 12b: \_\_\_\_\_
- b) **Reliability of compliance with sepsis management bundle element 3, glucose control maintained  $\geq$  lower limit of normal, but  $< 150$  mg/dl (8.3 mmol/L):** divide line 11a on this worksheet by line 1 on this worksheet: \_\_\_\_\_

**Numerator for Improvement Tracker (from line 11a on this worksheet):** \_\_\_\_\_  
**Denominator for Improvement Tracker (from line 1 on this worksheet):** \_\_\_\_\_

\* The reliability of compliance with sepsis management bundle element 3 is the same as the final value for quality indicator #7 in this instance.

**12) Quality Indicator #8, median inspiratory plateau pressure (IPP) less than 30 cm H<sub>2</sub>O over the first 24 hours in patients presenting with severe sepsis, septic shock who require mechanical ventilation:**

- a) Total from line 1 on this worksheet: \_\_\_\_\_
- b) Tally the number of cases marked on line 13 of the individual chart measurement tool as not applicable because the patient was not mechanically ventilated: \_\_\_\_\_
- c) Number of mechanically ventilated patients: subtract line 12b on this worksheet from line 12a on this worksheet: \_\_\_\_\_
- d) Tally the number of patients for whom median IPP was maintained less than 30 cm H<sub>2</sub>O on line 13 of the individual chart measurement tool: \_\_\_\_\_
- e) **Reliability of compliance with sepsis management bundle element 4, for mechanically ventilated patients, plateau pressures maintained < 30 cm H<sub>2</sub>O, divide line 12d by line 12c: \_\_\_\_\_\***

**Numerator for Improvement Tracker (from line 12d on this worksheet): \_\_\_\_\_**  
**Denominator for Improvement Tracker (from line 12c on this worksheet): \_\_\_\_\_**

\* The reliability of compliance with sepsis management bundle element 4 is the same as the final value for quality indicator #8 in this instance.

**13) Quality Indicator #9, reliability of compliance with ALL elements of the severe sepsis resuscitation bundle:**

- a) Tally the number of charts with ALL boxes (1 through 7) in question 16 on the individual chart measurement tool marked: \_\_\_\_\_
- b) **Aggregate reliability for the sepsis resuscitation bundle: divide line 13(a) by line 1. \_\_\_\_\_**

**Numerator for Improvement Tracker (from line 13a on this worksheet): \_\_\_\_\_**  
**Denominator for Improvement Tracker (from line 1 on this worksheet): \_\_\_\_\_**

**14) Quality Indicator #10, reliability of compliance with ALL elements of the severe sepsis management bundle:**

- a) Tally the number of charts with ALL boxes (A through D) in question 17 on the individual chart measurement tool marked: \_\_\_\_\_
- b) **Aggregate reliability of sepsis management bundle: divide line 14(a) by line 1. \_\_\_\_\_**

**Numerator for Improvement Tracker (from line 14a on this worksheet): \_\_\_\_\_**  
**Denominator for Improvement Tracker (from line 1 on this worksheet): \_\_\_\_\_**

**15) Quality Indicator #11, overall mortality due to severe sepsis, septic shock:**

- a) Tally the number of patients marked as deceased from line 15 of the individual chart measurement tool: \_\_\_\_\_
- b) **Overall mortality due to severe sepsis, septic shock: divide line 15(a) by line 1. \_\_\_\_\_**

**Numerator for Improvement Tracker (from line 15a on this worksheet): \_\_\_\_\_**  
**Denominator for Improvement Tracker (from line 1 on this worksheet): \_\_\_\_\_**