

2015 & 2016 Sepsis Measure Specifications: Adult time zero protocol

3-Hour Bundle: The percentage of discharges in calendar year 2015 or 2016 for which all components of the 3-hour bundle were satisfied by the hospital.

6-Hour Bundle: The percentage of discharges in calendar year 2015 or 2016 for which all components of the 6-hour bundle were satisfied by the hospital. The 6-hour bundle includes the 3-hour bundle.

Criteria	Relevant Data Dictionary Elements
Denominator	
<i>Inclusions</i>	
<ul style="list-style-type: none"> All cases except cases removed by the exceptions 	<p>Exceptions:</p> <ul style="list-style-type: none"> Same PCN but different MRN or UPI Same MRN but different UPI or DOB Duplicated or Overlapped Visits Incorrect Date or Datetime (wrong datetime format or discharge time before or on admission time)
<i>Exclusions</i>	
<ul style="list-style-type: none"> Discharges for patients whose age < 18 3-hour exclusions: Discharges where patient was excluded from protocol within 3 hours of time zero <ul style="list-style-type: none"> If protocol time not provided, earliest of admission/earliest/triage is used to determine time. 3-hour expired exclusions: Discharges where patient died within 3 hours of time zero <ul style="list-style-type: none"> If protocol time not provided, earliest of admission/earliest/triage is used to determine time. 	<ul style="list-style-type: none"> Admission Datetime – Date of Birth < 18 yrs Protocol Time Not Null -AND- Excluded From Protocol = 1 -AND- time interval between Excluded Time and Protocol Time not null and not greater than 3 hr (null < Excluded Time – Protocol Time ≤ 3 hr) -OR- Protocol Time Null -AND- Excluded From Protocol = 1 -AND- time interval between Excluded Time and the minimum of Earliest Time, Triage Time and Admission Time not null and not greater than 3 hr (null < Excluded Time – min(Earliest Time, Triage Time, Admission Time) ≤ 3 hr) Protocol Time Not Null -AND- Discharge Status = 20 -AND- time interval between discharge Time and Protocol Time not null and not greater than 3 hr (null < Discharge Time - Protocol Time ≤ 3 hr) -OR- Protocol Time Null -AND- Discharge Status = 20 -AND- time interval between Excluded Time and the minimum of Earliest Time, Triage Time and Admission Time not null and not greater than 3 hr

2015 & 2016 Sepsis Measure Specifications: Adult time zero protocol

	<p>(null < Discharge Time – min(Earliest Time, Triage Time, Admission Time) ≤ 3 hr)</p>
Denominator/Exclusion/Numerator	
<p>Denominator:</p> <ul style="list-style-type: none"> • Initial Lactate Level Collection • Antibiotic Administration • Blood Culture Collection <p>Numerator:</p> <ul style="list-style-type: none"> • Lactate Reported within 3 hours of time zero • If protocol time not provided, earliest of admission/earliest/triage is used to determine time. <p>Numerator:</p> <ul style="list-style-type: none"> • Antibiotics Given within 3 hours of time zero • If protocol time not provided, earliest of admission/earliest/triage is used to determine time. <p>Numerator:</p> <ul style="list-style-type: none"> • Blood Cultures Obtained prior to antibiotics and within 3 hours of time zero • If protocol time not provided, earliest of admission/earliest/triage 	<ul style="list-style-type: none"> • All cases except cases dropped by 3-Hour Exclusions • Protocol Time Not Null -AND- time interval between Lactate Reported Time and Protocol Time not null and not greater than 3 hr (null < Lactate Reported Time – Protocol Time ≤ 3 hr) -OR- • Protocol Time Null -AND- time interval between Lactate Reported Time and the minimum of Earliest Time, Triage Time and Admission Time not null and not greater than 3 hr (null < Lactate Reported Time – min(Earliest Time, Triage Time, Admission Time) ≤ 3 hr) • Protocol Time Not Null -AND- time interval between Antibiotics Start Time and Protocol Time not null and not greater than 3 hr (null < Antibiotics Start Time – Protocol Time ≤ 3 hr) -OR- • Protocol Time Null -AND- time interval between Antibiotics Start Time and the minimum of Earliest Time, Triage Time and Admission Time not null and not greater than 3 hr (null < Antibiotics Start Time – min(Earliest Time, Triage Time, Admission Time) ≤ 3 hr) • (• Protocol Time Not Null -AND- Blood Cultures Obtained = 1 • -And- (• (time interval between Antibiotics Start Time and Blood Cultures Obtained Time not less than 0 (Antibiotics Start Time –

2015 & 2016 Sepsis Measure Specifications: Adult time zero protocol

<p>Denominator:</p> <ul style="list-style-type: none"> • Lactate Re-ordered within 6 hours of time zero • This captures requirement for patients with elevated lactate (≥ 4) or patients who never had initial lactate done (i.e., case fails both initial and repeat if lactate never done). <p>Numerator:</p> <ul style="list-style-type: none"> • Lactate Re-ordered within 6 hours of time zero • If protocol time not provided, earliest of admission/earliest/triage is used to determine time. 	<p>Protocol = 1 -AND- time interval between Excluded Time and the minimum of Earliest Time, Triage Time and Admission Time not null and not greater than 6 hr (null < Excluded Time – min(Earliest Time, Triage Time, Admission Time) \leq 6 hr)</p> <ul style="list-style-type: none"> •) -OR- • (• Protocol Time Not Null -AND- Discharge Status = 20 -AND- time interval between discharge Time and Protocol Time not null and not greater than 6 hr (null < Discharge Time - Protocol Time \leq 6 hr) -OR- • Protocol Time Null -AND- Discharge Status = 20 -AND- time interval between Excluded Time and the minimum of Earliest Time, Triage Time and Admission Time not null and not greater than 6 hr (null < Discharge Time – min(Earliest Time, Triage Time, Admission Time) \leq 6 hr) •) <p>• All cases except cases dropped by 6-Hour Exclusions -AND-</p> <ul style="list-style-type: none"> • Lactate Reported \neq 1 -OR- Lactate Level \geq 4 mmol/L <ul style="list-style-type: none"> • Lactate Reported \neq 1 -OR- Lactate Level \geq 4 mmol/L -AND- • (• Protocol Time Not Null -AND- time interval between Lactate Re-ordered Time and Protocol Time not null and not greater than 6 hr (null < Lactate Re-ordered Time
---	--

2015 & 2016 Sepsis Measure Specifications: Adult time zero protocol

<p>Denominator:</p> <ul style="list-style-type: none"> • Crystalloid Fluid Administration within 6 hours of time zero • After exclusions, select cases that are crystalloid fluid required as denominator. • This captures requirement for patients with elevated lactate (≥ 4) or patients who never had initial lactate done. This also captures patient with no response to hypotension or with hypotension (responsive or non-responsive). <p>Numerator:</p> <ul style="list-style-type: none"> • Crystalloid Fluid Administration within 6 hours of time zero • If protocol time not provided, earliest of admission/earliest/triage is used to determine time. <p>Denominator:</p> <ul style="list-style-type: none"> • Vasopressor Administration within 6 hours of time zero 	<ul style="list-style-type: none"> – Protocol Time ≤ 6 hr) -OR- • Protocol Time Null -AND- time interval between Lactate Re-ordered Time and the minimum of Earliest Time, Triage Time and Admission Time not null and not greater than 6 hr (null < Lactate Re-ordered Time – min(Earliest Time, Triage Time, Admission Time) ≤ 6 hr) •) • All cases except cases dropped by 6-Hour Exclusions -AND- • (Hypotension Null -OR- Hypotension in (0,1)) -OR- Lactate Level ≥ 4 mmol/L - OR- Lactate Level Null • (Hypotension Null -OR- Hypotension in (0,1)) -OR- Lactate Level ≥ 4 mmol/L - OR- Lactate Level Null -AND- • (• Protocol Time Not Null -AND- (Adult Fluids in (0,1,2)) -AND- time interval between Fluids Completed Time and Protocol Time not null and not greater than 6 hr (null < Fluids Completed Time – Protocol Time ≤ 6 hr) -OR- • Protocol Time Null -AND- (Adult Fluids in (0,1,2)) -AND- time interval between Fluids Completed Time and the minimum of Earliest Time, Triage Time and Admission Time not null and not greater than 6 hr (null < Fluids Completed Time – min(Earliest Time, Triage Time, Admission Time) ≤ 6 hr) •)
--	--

2015 & 2016 Sepsis Measure Specifications: Adult time zero protocol

<ul style="list-style-type: none"> • This captures requirement for patients with no response to hypotension or with hypotension not responsive to fluids. <p>Numerator:</p> <ul style="list-style-type: none"> • Vasopressor Administration within 6 hours of time zero • If protocol time not provided, earliest of admission/earliest/triage is used to determine time. 	<ul style="list-style-type: none"> • All cases except cases dropped by 6-Hour Exclusions -AND- • Hypotension Null -OR- Hypotension = 0 <ul style="list-style-type: none"> • Hypotension Null -OR- Hypotension = 0 • -AND- • (• Protocol Time Not Null -AND- time interval between Vasopressor Given Time and Protocol Time not null and not greater than 6 hr (null < Vasopressor Given Time – Protocol Time ≤ 6 hr) -OR- • Protocol Time Null -AND- time interval between Vasopressor Given Time and the minimum of Earliest Time, Triage Time and Admission Time not null and not greater than 6 hr (null < Vasopressor Given Time – min(Earliest Time, Triage Time, Admission Time) ≤ 6 hr) •)