

2015 & 2016 Sepsis Measure Specifications: Pediatric time zero protocol

1-Hour Bundle: The percentage of discharges in calendar year 2015 or 2016 for which all components of the 1-hour bundle were satisfied by the hospital.

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 1-hour exclusions: Discharges where patient was excluded from protocol within 1 hour of time zero <ul style="list-style-type: none"> If protocol time not provided, earliest of admission/earliest/triage is used to determine time. 1-hour expired exclusions: Discharges where patient died within 1 hour 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 1 hr (null < Excluded Time – Protocol Time ≤ 1 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 1 hr (null < Excluded Time – min(Earliest Time, Triage Time, Admission Time) ≤ 1 hr) Protocol Time Not Null -AND- Discharge Status = 20 -AND- time interval between discharge Time and Protocol Time not null and not greater than 1 hr (null < Discharge Time - Protocol Time ≤ 1 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 1 hr (null < Discharge Time – min(Earliest Time, Triage Time, Admission Time) ≤ 1 hr)

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	hr)
Denominator/Exclusion/Numerator	
<p>Denominator:</p> <ul style="list-style-type: none"> • Antibiotic Administration • Blood Culture Collection • Crystalloid Fluid Administration <p>Numerator:</p> <ul style="list-style-type: none"> • Antibiotics Given within 1 hour 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 1 hour of time zero • If protocol time not provided, earliest of admission/earliest/triage is used to determine time. • This allows if antibiotic never done but blood culture was done within 1 hour. 	<ul style="list-style-type: none"> • All cases except cases dropped by 1-Hour Exclusions <ul style="list-style-type: none"> • Protocol Time Not Null -AND- time interval between Antibiotics Start Time and Protocol Time not null and not greater than 1 hr (null < Antibiotics Start Time – Protocol Time ≤ 1 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 1 hr (null < Antibiotics Start Time – min(Earliest Time, Triage Time, Admission Time) ≤ 1 hr) <ul style="list-style-type: none"> • (• 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 – Blood Cultures Obtained Time ≥ 0) –AND- time interval between Blood Cultures Obtained Time and Protocol Time not greater than 1 hr (Blood Cultures Obtained Time – Protocol Time ≤ 1 hr)) • -OR- • (Blood Cultures Obtained Time Not Null and Antibiotics Start Time Null and time interval between Blood Cultures Obtained Time and Protocol Time not greater than 1 hr (Blood Cultures Obtained Time – Protocol Time ≤ 1 hr)) •) •) -OR- (• Protocol Time Null -AND- Blood Cultures

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<p>Numerator:</p> <ul style="list-style-type: none"> • Crystalloid Fluid Administration within 1 hour of time zero • If protocol time not provided, earliest of admission/earliest/triage is used to determine time. 	<p>Obtained = 1</p> <ul style="list-style-type: none"> • -And- (<ul style="list-style-type: none"> • (time interval between Antibiotics Start Time and Blood Cultures Obtained Time not less than 0 (Antibiotics Start Time – Blood Cultures Obtained Time \geq 0) -AND- time interval between Blood Cultures Obtained Time and the minimum of Earliest Time, Triage Time and Admission Time not greater than 1 hr (Blood Cultures Obtained Time – min(Earliest Time, Triage Time, Admission Time) \leq 1 hr)) • -OR- <ul style="list-style-type: none"> • (Blood Cultures Obtained Time Not Null and Antibiotics Start Time Null and time interval between Blood Cultures Obtained Time and the minimum of Earliest Time, Triage Time and Admission Time not greater than 1 hr (Blood Cultures Obtained Time – min(Earliest Time, Triage Time, Admission Time) \leq 1 hr)) •) <ul style="list-style-type: none"> • Protocol Time Not Null -AND- (Pediatric Fluids in (0,1,2)) -AND- time interval between Fluids Completed Time and Protocol Time not null and not greater than 1 hr (null < Fluids Completed Time – Protocol Time \leq 1 hr) -OR- • Protocol Time Null -AND- (Pediatric 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 1 hr (null < Fluids Completed Time – min(Earliest Time, Triage Time, Admission Time) \leq 1 hr)
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