

2015 & 2016 Sepsis Measure Specifications: Pediatric Time zero triage

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 |
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| Denominator | |
| <i>Inclusions</i> | |
| <ul style="list-style-type: none"> All cases which a protocol was initiated in the ED except cases removed by the exceptions | <ul style="list-style-type: none"> Protocol Initiated Place = 1 <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 triage time not provided, earliest of admission/earliest 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 triage time not provided, earliest of admission/earliest is used to determine time. | <ul style="list-style-type: none"> Admission Datetime – Date of Birth ≥ 18 yrs Triage Time Not NULL -AND- Excluded from Protocol = 1 -AND- time interval between Excluded Time and Triage Time not null and not greater than 1 hr (null < Excluded Time – Triage Time ≤ 1 hr) -OR- Triage Time NULL -AND- Excluded from Protocol = 1 -AND- time interval between Excluded Time and the minimum of Earliest Time and Admission Time not null and not greater than 1 hr (null < Excluded Time – min(Earliest Time , Admission Time) ≤ 1 hr) Triage Time Not Null -AND- Discharge Status = 20 -AND- time interval between Discharge Time and Triage Time not null and not greater than 1 hr (null < Discharge Time – Triage Time ≤ 1 hr) - OR- Triage Time Null -AND- Discharge Status = 20 -AND- time interval between Discharge Time and the minimum of |

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| <ul style="list-style-type: none"> Discharges where patient was transferred to another hospital or received from another hospital | <p>Earliest Time and Admission Time not null and not greater than 1 hr (null < Discharge Time – min(Earliest Time , Admission Time) ≤ 1 hr)</p> <ul style="list-style-type: none"> Transfer Status = 3, 4, or 5 -OR- Discharge Status = 02, 05, 66, 82, 85, 94 -OR- Source of Admission = 4 |
| 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 triage time not provided, earliest of admission/earliest 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 triage time not provided, earliest of admission/earliest 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 Triage Time Not Null -AND- time interval between Antibiotics Start Time and Triage Time not null and not greater than 1 hr (null < Antibiotics Start Time – Triage Time ≤ 1 hr) -OR- Triage Time Null -AND- time interval between Antibiotics Start Time and the minimum of Earliest Time and Admission Time not null and not greater than 1 hr (null < Antibiotics Start Time – min(Earliest Time , Admission Time) ≤ 1 hr) (Triage 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 Triage Time not greater than 1 hr (Blood Cultures Obtained Time – Triage Time ≤ 1 hr)) -OR- |

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