

NEMSIS Pseudocode: Asthma-01: Administration of Beta Agonist for Asthma

Measure Score Interpretation: For this measure, a higher score indicates better quality

Measure Description	
Percentage of EMS responses originating from a 911 request for patients with a diagnosis of asthma who had an aerosolized beta agonist administered.	
Measure Components	
Initial Population	<p>((Situation.11 Provider’s Primary Impression matches /^(J45) (J98.01\$)/ ("Asthma..." or "Acute Bronchospasm") or Situation.12 Provider’s Secondary Impressions matches /^(J45) (J98.01\$)/ ("Asthma..." or "Acute Bronchospasm")) and eResponse.05 Type of Service Requested is (2205001 ("Emergency Response (Primary Response Area)), 22205003 ("Emergency Response (Intercept)"), 2205009 ("Emergency Response (Mutual Aid)"))))</p>
Denominator	<p>Population 1: Equals Initial Population</p> <p>Population 2: (Initial Population and (and ePatient.15 Age is greater than or equal to 18 and ePatient.16 Age Units is 2516009 ("Years"))))</p> <p>Population 3: (Initial Population and (ePatient.15 Age is greater than or equal to 2</p>

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	<p>and ePatient.15 Age is less than 18 and ePatient.16 Age Units is 2516009 ("Years"))</p> <p>or</p> <p>(ePatient.15 Age is greater than or equal to 24 and ePatient.16 Age Units is 2516007 ("Months"))))</p>
Denominator Exclusions	None
Numerator	<p>Numerator logic for Populations 1-3 (Calculate three separate rates)</p> <p>eMedication.03 Medication Administered is in (435 ("Albuterol"), 7688 ("metaproterenol"), 214199 ("Albuterol/Ipratropium"), 237159 ("Levalbuterol"), 487066 ("levalbuterol tartrate"), 1154062 ("Albuterol Inhalant Product"), 1163444 ("Levalbuterol Inhalant Product"), 1649559 ("Albuterol Dry Powder Inhaler"), 1165719 ("metaproterenol Inhalant Product"), 2108209 ("Levalbuterol Inhalation Solution"), 2108252 ("metaproterenol Inhalation Solution"))</p>

NEMIS Pseudocode: Hypoglycemia-01: Treatment Administered for Hypoglycemia

Measure Score Interpretation: For this measure, a higher score indicates better quality

Measure Description	
Percentage of EMS responses originating from a 911 request for patients with symptomatic hypoglycemia who received treatment to correct their hypoglycemia.	
Measure Components	
Initial Population	<p>((eSituation.11 Provider's Primary Impression matches/^(E13.64) (E16.2)/("Other specified diabetes mellitus with hypoglycemia" or "Hypoglycemia, unspecified")</p> <p>or</p> <p>eSituation.12 Provider's Secondary Impressions matches/^(E13.64) (E16.2)/("Other specified diabetes mellitus with hypoglycemia" or "Hypoglycemia, unspecified")</p> <p>)</p>

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	<p>and (eVitals.23 Total Glasgow Coma Score is less than 15</p> <p>or eVitals.26 Level of responsiveness (AVPU) is in (3326003 (“Verbal”) 3326005 (“Painful”) 3326007 (“Unresponsive”))))</p> <p>or</p> <p>((eSituation.11 Provider's Primary Impression matches/^R41.82/ (“Altered Mental Status, unspecified”)</p> <p>or eSituation.12 Provider's Secondary Impressions matches/^R41.82/ (“Altered Mental Status, unspecified”)</p> <p>and</p> <p>(eVitals.18 Blood Glucose Level is less than 60 or eVitals.18 Blood Glucose Level is “low”))</p> <p>and eResponse.05 Type of Service Requested is (2205001 (“Emergency Response (Primary Response Area)”), 2205003 (“Emergency Response (Intercept)”), 2205009 (“Emergency Response (Mutual Aid)”))</p>
<p>Denominator</p>	<p>Population 1: Equals Initial Population</p> <p>Population 2: (Initial Population and (ePatient.15 Age is greater than or equal to 18 and ePatient.16 Age Units is 2516009 (“Years”))</p> <p>Population 3: (Initial Population</p>

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	<p>and</p> <p>((ePatient.15 Age is less than 18 and ePatient.16 Age Units is 2516009 ("Years")) or (ePatient.15 Age is not null and ePatient.16 Age Units is in (2516001 ("Days"), 2516003 ("Hours"), 2516005 ("Minutes"), 2516007 ("Months"))))</p>
<p>Denominator Exclusions</p>	<p>Apply Denominator Exclusion to Populations 1 and 3:</p> <p>((ePatient.15 Age is less than 1 and ePatient.16 Age in Units is 2516001 ("Days")) or (ePatient.15 Age is less than 24 and ePatient.16 Age in Units is 2516003 ("Hours")) or (ePatient.15 Age is less than or equal to 120 and ePatient.16 Age in Units is 2516005 ("Minutes"))</p>
<p>Numerator</p>	<p>Numerator logic for Populations 1-3 (Calculate three separate rates)</p> <p>eMedications.03 Medication Administered is in (4832 ("Glucagon"), 4850 ("Glucose"), 377980 (Glucose Oral Gel), 376937 (Glucose Injectable Solution), 372326 (Glucose Chewable Tablet), 237653 ("Glucose 500 MG/ML Injectable Solution"), 260258 ("Glucose 250 MG/ML Injectable Solution"), 309778 ("Glucose 50 MG/ML Injectable Solution"), 1795610 ("250 ML Glucose 50 MG/ML Injection"), 1795477 ("500 ML Glucose 100 MG ML Injection"), 1794567 ("Glucose Injection")</p>

	<p>1165823 (“Glucose Oral Product”) 1165822 (“Glucose Oral Liquid Product”) 1165819 (“Glucose Injectable Product”))</p> <p>or eProcedures.03 Procedure is in (710925007 ("Provision of food"), 225285007 ("Giving oral fluid"))</p>
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NEMESIS Pseudocode: Pediatrics-03b: Documentation of Estimated Weight in Kilograms

Measure Score Interpretation: For this measure, a higher score indicates better quality

Measure Description	
Percentage of EMS responses originating from a 911 request for patients less than 18 years of age who received a medication and had a documented weight in kilograms or length-based weight estimate documented during the EMS response.	
Measure Components	
Initial Population	<p>((ePatient.15 Age is less than 18 and ePatient.16 Age Units is 2516009 ("Years")) or (ePatient.15 Age is not null and ePatient.16 Age Units is in (2516001 (“Days”), 2516003 (“Hours”), 2516005 (“Minutes”), 2516007 (“Months”)))) and eMedications.03 Medication Administered is not null and eResponse.05 Type of Service Requested is (2205001 ("Emergency Response (Primary Response Area)"), 2205003 (“Emergency Response (Intercept)”), 2205009 (“Emergency Response (Mutual Aid)”))</p>

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Denominator	Equals Initial Population
Denominator Exclusions	N/A
Denominator Exception	eMedication.04 Medication Administered Route is in (9927009 (“Inhalation”), 9927049 (“Topical”))
Numerator	or eExam.01 Estimated Body Weight in Kilograms is not null eExam.02 Length Based Tape Measure not null

NEMSIS Pseudocode: Respiratory-01: Respiratory Assessment

Measure Score Interpretation: For this measure, a higher score indicates better quality

Measure Description	
Percentage of EMS responses originating from a 911 request for patients with primary or secondary impression of respiratory distress who had a respiratory assessment.	
Measure Components	
Initial Population	((eSituation.11 Provider's Primary Impression matches /^I50.9 J00 J05 J18.9 J20.9 J44.1 J45.901 J80 J81 J93.9 J96 J98.01 J98.9 R05R06 R0 9.2 T17.9/ (“Heart failure, unspecified,” “Acute nasopharyngitis....,” “Acute obstructive laryngitis and epiglottitis....,” “Pneumonia, unspecified organism,” “Acute bronchitis, unspecified,” “Chronic obstructive pulmonary disease with (acute) exacerbation,” “Unspecified asthma with (acute) exacerbation,” “Acute respiratory distress syndrome,” “Pulmonary edema....,” “Pneumothorax, unspecified,” “Respiratory failure, unspecified,” “Acute bronchospasm,” “Respiratory disorder, unspecified,” “Cough,”

	<p>“Abnormalities of breathing,” “Respiratory arrest,” or “Foreign body in respiratory tract, part unspecified”)</p> <p>or eSituation.12 Provider's Secondary Impressions matches /^(I50.9 J00 J05 J18.9 J20.9 J44.1 J45.901 J80 J81 J93.9 J96 J98.01 J98.9 R05 R06 R09.2 T17.9/ (“Heart failure, unspecified,” “Acute nasopharyngitis....,” “Acute obstructive laryngitis and epiglottitis...,” “Pneumonia, unspecified organism,” “Acute bronchitis, unspecified,” “Chronic obstructive pulmonary disease with (acute) exacerbation,” “Unspecified asthma with (acute) exacerbation,” “Acute respiratory distress syndrome,” “Pulmonary edema...,” “Pneumothorax, unspecified,” “Respiratory failure, unspecified,” “Acute bronchospasm,” “Respiratory disorder, unspecified,” “Cough,” “Abnormalities of breathing,” “Respiratory arrest,” or “Foreign body in respiratory tract, part unspecified”))</p> <p>and eResponse.05 Type of Service Requested is (2205001 (“Emergency Response (Primary Response Area)”), 2205003 (“Emergency Response (Intercept)”), 2205009 (“Emergency Response (Mutual Aid)”)))</p>
<p>Denominator</p>	<p>Population 1: Equals Initial Population</p> <p>Population 2: (Initial Population and (</p>

	<p>ePatient.15 Age is greater than or equal to 18 and ePatient.16 Age Units is 2516009 ("Years"))</p> <p>Population 3:</p> <p>(Initial Population and (ePatient.15 Age is less than 18 and ePatient.16 Age Units is 2516009 ("Years")) or (ePatient.15 Age is not null and ePatient.16 Age Units is in (2516001 ("Days"), 2516003 ("Hours"), 2516005 ("Minutes"), 2516007 ("Months"))))</p>
Denominator Exclusions	None
Numerator	<p>Numerator logic for Populations 1-3 (Calculate three separate rates)</p> <p>eVitals.12 Pulse Oximetry is not null and eVitals.14 Respiratory Rate is not null</p>

NEMESIS Pseudocode: Seizure-02: Patient Received Intervention for Status Epilepticus

Measure Score Interpretation: For this measure, a higher score indicates better quality

Measure Description	
Percentage of EMS responses originating from a 911 request for patients with status epilepticus who received benzodiazepine during the EMS response	
Measure Components	
Initial Population	((eSituation.11 Provider's Primary Impression matches /^G40...[1,3]/ ("Epilepsy,..., with status epilepticus"))

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	<p>or eSituation.12 Provider's Secondary Impressions matches / ^G40...[1,3]/ ("Epilepsy,..., with status epilepticus")) and eResponse.05 Type of Service Requested is in (2205001 ("Emergency Response (Primary Response Area)"), 2205003 ("Emergency Response (Intercept)"), 2205009 ("Emergency Response (Mutual Aid)"))</p>
Denominator	<p>Population 1: Equals Initial Population</p> <p>Population 2: (Initial Population and (ePatient.15 Age is greater than or equal to 18 and ePatient.16 Age Units is 2516009 ("Years"))</p> <p>Population 3: (Initial Population and (ePatient.15 Age is greater than or equal to 2 and ePatient.15 Age is less than 18 and ePatient.16 Age Units is 2516009 ("Years") or (ePatient.15 Age is greater than or equal to 24 and ePatient.16 Age Units is 2516007 ("Months"))</p>
Denominator Exclusions	None
Numerator	<p>Numerator logic for Populations 1-3 (Calculate three separate rates):</p> <p>eMedications.03 Medication Administered is in (3322 ("Diazepam"), 6960 ("Midazolam"), 203128 ("Midazolam Hydrochloride"),</p>

	6470 ("Lorazepam"))
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NEMSIS Pseudocode: Stroke-01: Suspected Stroke Patient Receiving Prehospital Stroke Assessment

Measure Score Interpretation: For this measure, a higher score indicates better quality

Measure Description	
Percentage of EMS responses originating from a 911 request for patients suffering from a suspected stroke who had a stroke assessment performed during the EMS response.	
Measure Components	
Initial Population	<p>(</p> <p>(</p> <p>eSituation.11 Provider's Primary Impression matches /^(I60) (I61) (I63) (G45) (G46)/ ("Nontraumatic subarachnoid hemorrhage...," "Nontraumatic intracerebral hemorrhage...," "Cerebral infarction..." "Transient cerebral ischemic attacks...," or "Vascular syndromes of brain in cerebrovascular diseases...")</p> <p>or</p> <p>eSituation.12 Provider's Secondary Impressions matches /^(I60) (I61) (I63) (G45) (G46)/ ("Nontraumatic subarachnoid hemorrhage...," "Nontraumatic intracerebral hemorrhage...," "Cerebral infarction..." "Transient cerebral ischemic attacks...," or "Vascular syndromes of brain in cerebrovascular diseases...")</p> <p>)</p> <p>and eResponse.05 Type of Service Requested is in</p> <p>(2205001 ("Emergency Response (Primary Response Area)"), 2205003 ("Emergency Response (Intercept)"), 2205009 ("Emergency Response (Mutual Aid)"))</p>
Denominator	Equals Initial Population

Denominator Exclusions	(eVitals.23 Total Glasgow Coma Score is less than or equal to 9 or eVitals.26 Level of responsiveness (AVPU) is 3326007 ("Unresponsive"))
Numerator	eVitals.29 Stroke Scale Score is not null or eVitals.30 Stroke Scale Type is not null

NEMESIS Pseudocode: Trauma-01: Injured Patients Assessed for Pain

Measure Score Interpretation: For this measure, a higher score indicates better quality

Measure Description	
Percentage of EMS transports originating from a 911 request for patients with injury who were assessed for pain.	
Measure Components	
Initial Population	(eSituation.02 Possible Injury is 9922005 ("Yes") and (eVitals.23 Total Glasgow Coma Score is equal to 15 or eVitals.26 Level of responsiveness (AVPU) is 3326001 ("Alert")) and (eResponse.05 Type of Service Requested is in (2205001 ("Emergency Response (Primary Response Area)), 2205003 ("Emergency Response (Intercept")), 2205009 ("Emergency Response (Mutual Aid))") and (eDisposition.28 Patient Evaluation/Care is 4228001 ("Patient Evaluated and Care Provided") and eDisposition.30 Transport Disposition is in (4230001 ("Transport by This EMS Unit (This Crew Only)", 4230003 ("Transport by This EMS Unit, with a Member of Another Crew"),

	4230007 (“Transport by Another EMS Unit, with a Member of this Crew”))))))
Denominator	<p>Population 1: Equals Initial Population</p> <p>Population 2: (Initial Population and (ePatient.15 Age is greater than or equal to 18 and ePatient.16 Age Units is 2516009 ("Years"))</p> <p>Population 3: (Initial Population and (ePatient.15 Age is greater than or equal to 2 and ePatient.15 Age is less than 18 and ePatient.16 Age Units is 2516009 ("Years")) or (ePatient.15 Age is greater than or equal to 24 and ePatient.16 Age Units is 2516007 ("Months"))</p>
Denominator Exclusions	None
Numerator	<p>Numerator logic for Populations 1-3 (Calculate three separate rates)</p> <p>eVitals.27 Pain Scale Score is not null</p>

NEMIS Pseudocode: Trauma-03: Effectiveness of Pain Management for Injured Patients

Measure Score Interpretation: For this measure, a higher score indicates better quality

Measure Description

Percentage of EMS transports originating from a 911 request for patients whose pain score was lowered during the EMS encounter.	
Measure Components	
Initial Population	<p>((<u>eSituation.02 Possible Injury</u> is 9922005 ("Yes") and first (<u>eVitals.27 Pain Scale Score</u> where <u>e.Vitals.01 Date/Time Vital Signs Taken</u> is not null sorted by <u>eVitals.01 Date/Time Vital Signs Taken</u>) is greater than 0) and (<u>eResponse.05 Type of Service Requested</u> is in (2205001 ("Emergency Response (Primary Response Area)"), 2205003 ("Emergency Response (Intercept)"), 2205009 ("Emergency Response (Mutual Aid)")) and (<u>eDisposition.28 Patient Evaluation/Care</u> is 4228001 ("Patient Evaluated and Care Provided") and <u>eDisposition.30 Transport Disposition</u> is in (4230001 ("Transport by This EMS Unit (This Crew Only)"), 4230003 ("Transport by This EMS Unit, with a Member of Another Crew"), 4230007 ("Transport by Another EMS Unit, with a Member of this Crew"))))</p>
Denominator	<p>Population 1: Equals Initial Population</p> <p>Population 2: (Initial Population and (<u>ePatient.15 Age</u> is greater than or equal to 18 and <u>ePatient.16 Age</u> Units is 2516009 ("Years"))</p>

	<p>Population 3:</p> <p>(Initial Population and (<u>ePatient.15 Age</u> is greater than or equal to 2 and <u>ePatient.15 Age</u> is less than 18 and <u>ePatient.16 Age Units</u> is 2516009 ("Years")) or (<u>ePatient.15 Age</u> is greater than or equal to 24 and <u>ePatient.16 Age Units</u> is 2516007 ("Months"))))</p>
Denominator Exclusions	None
Numerator Pseudocode	<p>Numerator logic for Populations 1-3 (Calculate three separate rates)</p> <p>(last (<u>eVitals.27 Pain Scale Score</u> where <u>e.Vitals.01 Date/Time Vital Signs Taken</u> is not null sorted by <u>eVitals.01 Date/Time Vital Signs Taken</u>) is less than first (<u>eVitals.27 Pain Scale Score</u> where <u>e.Vitals.01 Date/Time Vital Signs Taken</u> is not null sorted by <u>eVitals.01 Date/Time Vital Signs Taken</u>))</p>

NEMESIS Pseudocode: Trauma-04: Trauma Patients Transferred to Trauma Center

Measure Score Interpretation: For this measure, a higher score indicates better quality

Measure Description	
Percentage of EMS transports originating from a 911 request for patients who meet CDC criteria for trauma and are transported to a trauma center.	
Measure Components	
Initial Population	(((<u>eSituation.02 Possible Injury</u> is 9922005 ("Yes"))

	<p>and first (eVitals.27 Pain Scale Score where e.Vitals.01 Date/Time Vital Signs Taken is not null sorted by eVitals.01 Date/Time Vital Signs Taken) is greater than 0)</p> <p>and</p> <p>eInjury.03 Trauma Triage Criteria (Steps 1 and 2) is in (2903001 (“Amputation proximal to wrist or ankle”), 3903003 (“Crushed, degloved, mangled, or pulseless extremity”), 2903005 (“Chest wall instability or deformity (e.g., flail chest), 2903007 (“Glasgow Coma Score <=13”), 2903009 (“Open or depressed skull fracture”), 2903011 (“Paralysis”), 2903013 (“Pelvic fractures”), 2903015 (“All penetrating injuries to head, neck, torso, and extremities proximal to elbow or knee”), 2903017 (“Respiratory Rate <10 or >29 breaths per minute (<20 in infants aged <1 year) or need for ventilatory support), 2903019 (“Systolic Blood Pressure <90 mmHg”), 2903021 (“Two or more proximal long-bone fractures”))</p> <p>and</p> <p>(eResponse.05 Type of Service Requested is in (2205001 (“Emergency Response (Primary Response Area)”), 2205003 (“Emergency Response (Intercept)”), 2205009 (“Emergency Response (Mutual Aid)”))</p> <p>and</p> <p>(eDisposition.28 Patient Evaluation/Care is 4228001 (“Patient Evaluated and Care Provided”)</p> <p>and eDisposition.30 Transport Disposition is in (4230001 (“Transport by This EMS Unit (This Crew Only)”), 4230003 (“Transport by This EMS Unit, with a Member of Another Crew”),</p>
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	4230007 (“Transport by Another EMS Unit, with a Member of this Crew”))))))
Denominator	<p>Population 1: Equals Initial Population</p> <p>Population 2: (Initial Population and (ePatient.15 Age is greater than or equal to 18 and ePatient.16 Age Units is 2516009 ("Years"))</p> <p>Population 3: (Initial Population and (ePatient.15 Age is greater than or equal to 2 and ePatient.15 Age is less than 18 and ePatient.16 Age Units is 2516009 ("Years")) or (ePatient.15 Age is greater than or equal to 24 and ePatient.16 Age Units is 2516007 ("Months"))</p>
Denominator Exclusions	None
Numerator Pseudocode	<p>Numerator logic for Populations 1-3 (Calculate three separate rates)</p> <p>eDisposition.23 Hospital Capability is in (9908021 (“Trauma Center Level 1”), 9908023 (“Trauma Center Level 2”), 9908025 (“Trauma Center Level 3”), 9908027 (“Trauma Center Level 4”), 9908029 (“Trauma Center Level 5”))</p>

NEMSIS Pseudocode: Safety-01: Use of Lights and Sirens During Response to Scene
Measure Score Interpretation: For this measure, a higher score indicates better quality

Measure Description	
Percentage of EMS responses originating from a 911 request in which lights and sirens were not used during response.	
Measure Components	
Initial Population	eResponse.05 Type of Service Requested is in (2205001 ("Emergency Response (Primary Response Area)"), 2205003 ("Emergency Response (Intercept)"), 2205009 ("Emergency Response (Mutual Aid)"))
Denominator	<p>Population 1: Equals Initial Population</p> <p>Population 2: (Initial Population and (and ePatient.15 Age is greater than or equal to 18 and ePatient.16 Age Units is 2516009 ("Years"))</p> <p>Population 3: (Initial Population and (and ePatient.15 Age is greater than or equal to 2 and ePatient.15 Age is less than 18 and ePatient.16 Age Units is 2516009 ("Years"))</p> <p>or (and ePatient.15 Age is greater than or equal to 24 and ePatient.16 Age Units is 2516007 ("Months"))))</p>

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Denominator Exclusions	None
Numerator	<p>Numerator logic for Populations 1-3 (Calculate three separate rates)</p> <p>eResponse.24 Additional Response Mode Descriptors is 2224019 ("No Lights or Sirens")</p>

NEMSIS Pseudocode: Safety-02: Use of Lights and Sirens During Transport
Measure Score Interpretation: For this measure, a higher score indicates better quality

Measure Description	
Percentage of EMS transports originating from a 911 request during which lights and sirens were not used during patient transport.	
Measure Components	
Initial Population	<p>(eResponse.05 Type of Service Requested is in (2205001 ("Emergency Response (Primary Response Area)"), 2205003 ("Emergency Response (Intercept)"), 2205009 ("Emergency Response (Mutual Aid)")) and (eDisposition.28 Patient Evaluation/Care is 4228001 ("Patient Evaluated and Care Provided") and eDisposition.30 Transport Disposition is in (4230001 ("Transport by This EMS Unit (This Crew Only)"), 4230003 ("Transport by This EMS Unit, with a Member of Another Crew"), 4230007 ("Transport by Another EMS Unit, with a Member of this Crew"))))</p>
Denominator	<p>Population 1: Equals Initial Population</p> <p>Population 2: ()</p>

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	<p>Initial Population and (<u>ePatient.15 Age</u> is greater than or equal to 18 and <u>ePatient.16 Age</u> Units is 2516009 ("Years"))</p> <p>Population 3:</p> <p>(Initial Population and (<u>ePatient.15 Age</u> is greater than or equal to 2 and <u>ePatient.15 Age</u> is less than 18 and <u>ePatient.16 Age</u> Units is 2516009 ("Years")) or (<u>ePatient.15 Age</u> is greater than or equal to 24 and <u>ePatient.16 Age Units</u> is 2516007 ("Months"))))</p>
<p>Denominator Exclusions</p>	<p>None</p>
<p>Numerator</p>	<p>Numerator logic for Populations 1-3 (Calculate three separate rates)</p> <p><u>Disposition.18 Additional Transport Mode Descriptors</u> is 4218015 ("No Lights or Sirens")</p>