Data Dictionary 2012 - 2013

The Arizona Pre-Hospital Information & EMS Registry System

AZ-PIERS

Mission: To use and provide data in the communication of process improvement, best practices, and advances in patient care to all.
Section D01

Agency General Information
**EMS AGENCY NUMBER**

**Data**  [text]  

**Definition**
The state-assigned provider number of the responding agency

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:string</th>
<th>XSD Domain (Simple Type)</th>
<th>EMSAgencyNumber</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Values</td>
<td>No</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Minimum Constraint</td>
<td>3</td>
</tr>
<tr>
<td>Maximum Constraint</td>
<td>15</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**
A unique value; no variable list is possible.

**Additional Information**
- All EMS Agency demographic information is associated with the EMS agency number
- Not Nullable. A unique value must be provided to create a unique record ID within a database
- The same as EMS Agency Number (E02_01). This could be used to auto fill E02_01 on the Patient Care Report
- This data element is unique and is typically sequential

**Uses**
- Agency number (E02_01), agency state (D01_03), unit call sign (E02_12), patient number (E01_01) and date (E05_04) combine to create a unique identifier

**Data Collector**
- Typically generated by the State EMS Regulatory Office. Collected by the EMS agency or auto-generated by the EMS agency specific software.

**Other Associated Elements**
- D01_01 EMS Agency Number

**References in NHTSA Version 1**
- Desirable Element 23 Patient Care Record Number

**References to Other Databases**
- NFIRS 5.0 EMS Module; Title: Patient Number

**ARIZONA REQUIRED**
EMS AGENCY NAME

Data [text]

Definition
The formal name of the agency

XSD Data Type xs:string XSD Domain (Simple Type) EMSAgencyName
Multiple Entry Configuration No Accepts Null Values No
Required in XSD No Minimum Constraint 2 Maximum Constraint 50

Field Values
A unique value; no variable list is possible.

Uses
● Component of the EMS Agency Contact information
● Used to personalize reports associated with the EMS Agency

Data Collector
● EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements
D01_01 EMS Agency Number

ARIZONA REQUIRED


**EMS AGENCY STATE**

**Data** [combo] multiple-choice

**Definition**
The state in which the Agency provides services

- **XSD Data Type**: xs:string
- **XSD Domain (Simple Type)**: AgencyState
- **Multiple Entry Configuration**: Yes
- **Accepts Null Values**: No
- **Required in XSD**: Yes
- **Minimum Constraint**: 2
- **Maximum Constraint**: 2

**Field Values**
- Appropriate 2 digit FIPS code

**Additional Information**
- 2 digit FIPS numeric code (Not State abbreviation)
- Not Nullable. A unique value must be provided to create a unique record ID within a database

**Uses**
- Agency number (E02_01), agency state (D01_03), unit call sign (E02_12), patient number (E01_01) and date (E05_04) combine to create a unique identifier

**Data Collector**
- EMS Agency and typically only documented once then verified and updated yearly or when changed

**Other Associated Elements**
- D01_01 EMS Agency Number

**References to Other Databases**
- NFIRS 5.0 EMS Module, Title: State

**ARIZONA REQUIRED**
EMS AGENCY COUNTY

**Data**    [combo] multiple-choice

**Definition**
The county(s) for which the agency formally provides service

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:string</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSD Domain (Simple Type)</td>
<td>AgencyCounty</td>
</tr>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes</td>
</tr>
<tr>
<td>Accepts Null Values</td>
<td>No</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
<tr>
<td>Minimum Constraint</td>
<td>5</td>
</tr>
<tr>
<td>Maximum Constraint</td>
<td>5</td>
</tr>
</tbody>
</table>

**Field Values**
- Appropriate 5 digit FIPS code

**Additional Information**
- Stored as a 5 digit FIPS code (combining the state and county code) to take into account agencies may serve more than one state and counties are often named the same from state to state

**Uses**
- Used to group data with a state

**Data Collector**
- EMS Agency and typically only documented once then verified and updated yearly or when changed

**Other Associated Elements**
- D01_01 EMS Agency Number

**ARIZONA REQUIRED**
PRIMARY TYPE OF SERVICE

Data [combo] single-choice

Definition The primary service type provided by the agency

XSD Data Type xs:integer XSD Domain (Simple Type) PrimaryTypeOfService
Multiple Entry Configuration No Accepts Null Values No
Required in XSD No

Field Values
5610 911 Response (Scene) with Transport Capability 5620 911 Response (Scene) without Transport Capability
5630 Air Medical 5640 Hazmat
5650 Medical Transport (Convalescent) 5660 Paramedic Intercept
5670 Rescue 5680 Specialty Care Transport

Uses
● Important for grouping or comparing EMS Agencies

Data Collector
● EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements
D01_01 EMS Agency Number

ARIZONA REQUIRED
LEVEL OF SERVICE

**Definition**

The highest credentialed personnel's level of service which the agency provides for every EMS encounter if requested. In a tiered response system, this is the highest level of service which could be sent to any specific call.

**XSD Data Type** xs:string/integer  
**XSD Domain (Simple Type)** DemographicStateCertificationLicensureLevels

**Multiple Entry Configuration** No  
**Accepts Null Values** No  
**Required in XSD** Yes  
**Minimum Constraint** 2  
**Maximum Constraint** 100

**Field Values**

- 6090 EMT-Basic
- 6110 EMT-Paramedic
- 6112 Physician
- 6100 EMT-Intermediate
- 6111 Nurse
- 6120 First Responder

**Additional Information**

- This list can be edited by each state to account for additional certification/licensure level by adding levels as listed in State Certification/Licensure Levels (D04_01). State Certification/Licensure levels (D04_01) should create the list for this item.
- This value is stored either as the appropriate code or in text if an additional certification/licensure level has been entered by a state.

**Uses**

- Allows data to be sorted based on an agency's level of service
- Provides description of EMS Personnel
- Provides descriptive information when combined with an EMS Agency's Billing Status

**Data Collector**

- EMS Agency and typically only documented once then verified and updated yearly or when changed

**Other Associated Elements**

- D01_01 EMS Agency Number

**References in NHTSA Version 1**

- Essential Element 29 Crew Member One Type
- Essential Element 30 Crew Member Two Type
- Desirable Element 31 Crew Member Three Type

**References to Other Databases**

- **NFIRS 5.0** EMS Module, Title: Highest Level of Provider on Scene by Fire Department, Pick-List: First Responder = 1, EMT-B (Basic) = 2, EMT-I (Intermediate) = 3, EMT-P (Paramedic) = 4, Other Health Care Provider, Include Doctors, Nurses = O, No Care Provided = N

- **NFIRS 5.0** EMS Module, Title: Initial Level of FD Provider, Pick-List: First Responder = 1, EMT-B (Basic) = 2, EMT-I (Intermediate) = 3, EMT-P (Paramedic) = 4, Other Health Care Provider, Includes Doctors, Nurses, etc. = O, No Training = N

**ARIZONA REQUIRED**
ORGANIZATIONAL TYPE

Data [combo] single-choice

Definition
The organizational structure from which EMS services are delivered (fire, hospital, county, etc.)

XSD Data Type xs:string
XSD Domain (Simple Type) OrganizationalType
Multiple Entry Configuration No
Accepts Null Values No
Required in XSD Yes

Field Values
5810 Community, Non-Profit
5830 Governmental, Non-Fire
5850 Private, Non_Hospital
5820 Fire Department
5840 Hospital
5860 Tribal

Uses
● Allows data to be sorted based on an agency’s organizational structure
● Provides description of EMS agencies across the nation

Data Collector
● EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements
D01_01 EMS Agency Number

ARIZONA REQUIRED
ORGANIZATION STATUS

Data [combo] single-choice

Definition
The primary organizational status of the agency. The definition of Volunteer or Non-Volunteer is based on state or local terms.

XSD Data Type xs:integer
XSD Domain (Simple Type) OrganizationStatus
Multiple Entry Configuration No
Accepts Null Values No
Required in XSD Yes

Field Values
5870 Mixed
5890 Volunteer

Uses
● Allows data to be sorted based on an agency's organizational status
● Provides description of EMS agencies across the nation

Data Collector
● EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements
D01_01 EMS Agency Number

ARIZONA REQUIRED
EMS AGENCY TIME ZONE

Data [text]  National Element

Definition
The time zone for the EMS Agency

XSD Data Type xs:integer  XSD Domain (Simple Type) EMSAgencyTimeZone
Multiple Entry Configuration No  Accepts Null Values No
Required in XSD Yes

Field Values
5900 GMT-11:00 Midway Island, Samoa  5910 GMT-10:00 Hawaii
5920 GMT-09:00 Alaska  5930 GMT-08:00 Pacific Time
5940 GMT-07:00 Mountain Time  5950 GMT-06:00 Central Time
5960 GMT-05:00 Eastern Time  5970 GMT-04:00 Atlantic Time

Uses
● Allows data to be tracked in comparison to other systems and times to better correlate in any analysis

Data Collector
● EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements
D01_01 EMS Agency Number

ARIZONA REQUIRED
Data [text]

**Definition**
Indicate if the EMS Agency conforms to Daylight Savings Time

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>XSD Domain (Simple Type)</th>
<th>EMSAgencyDaylightSavingsTimeUse</th>
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<tr>
<td>Multiple Entry Configuration</td>
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<td>Accepts Null Values</td>
<td>No</td>
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<tr>
<td>Required in XSD</td>
<td>No</td>
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</table>

**Field Values**

<table>
<thead>
<tr>
<th></th>
<th>0 No</th>
<th>1 Yes</th>
</tr>
</thead>
</table>

**Uses**

- Allows data to be tracked in comparison to other systems and times to better correlate in any analysis

**Data Collector**

- EMS Agency and typically only documented once then verified and updated yearly or when changed

**Other Associated Elements**

D01_01  EMS Agency Number

**ARIZONA REQUIRED**
NATIONAL PROVIDER IDENTIFIER

Data [text] National Element

Definition
The National Provider Identifier associated with National Provider System (NPS) and used in all standard HIPAA transactions
such as electronic claim filing.

XSD Data Type xs:string
XSD Domain (Simple Type) NationalProviderIdentifier
Multiple Entry Configuration No
Accepts Null Values Yes*
Required in XSD Yes
Minimum Constraint 3
Maximum Constraint 10

Field Values
-25 Not Applicable
-15 Not Reporting
-5 Not Available
-20 Not Recorded
-10 Not Known

Additional Information
● The National Provider Identifier is associated with the EMS agency number

Uses
● Important for HIPAA related transactions such as electronic claims processing

Data Collector
● Generated by the National Provider System within the United States Department of Health and Human Services.
  Collected by the EMS agency or auto-generated by the EMS agency specific software.

Other Associated Elements
D01_01 EMS Agency Number

ARIZONA REQUIRED
Agency Contact Information
**AGENCY CONTACT ZIP CODE**

**Data**  
[text]  

**Definition**  
The ZIP code of the Agency contact's mailing address.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
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<th>XSD Domain (Simple Type)</th>
<th>DemographicZip</th>
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<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Values</td>
<td>No</td>
</tr>
</tbody>
</table>

**Required in XSD**  
Yes

**XSD Structure:** D02_04, D02_05, D02_06, and D02_07 are all members of D02_04_0 Agency Contract Address

**Field Values**  
A unique value; no variable list is possible.

**Additional Information**  
- Can be a 5 or 9 digit Zip Code

**Uses**  
- Allows data to be sorted into a geographical area
- Component of the EMS Agency Contact Information/Address

**Data Collector**  
EMS Agency and typically only documented once then verified and updated yearly or when changed

**Other Associated Elements**  
- D01_01 EMS Agency Number  
- D02_04 Agency Contact Address  
- D02_05 Agency Contact City  
- D02_06 Agency Contact State

**ARIZONA REQUIRED**
Agency Configuration Information
**PROCEDURES**

**Data**

[combo] multiple-choice

**Definition**

A list of all procedures that the agency has implemented and available for use.

**XSD Data Type** \(\text{xs:decimal}\)  
**XSD Domain (Simple Type)** \(\text{DemographicProcedure}\)

**Multiple Entry Configuration** Yes, via structure  
**Accepts Null Values** No  
**Required in XSD** No  
**Minimum Constraint** 0  
**Maximum Constraint** 1,000

XSD Structure: D04_04 and D04_05 are members of D04_04_0 Demographic Procedure Structure

**Field Values**

<table>
<thead>
<tr>
<th>Field Values</th>
<th>Code</th>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 Lead ECG-Obtain</td>
<td>89.820</td>
<td>CPR-Start Rescue Breathing without Compressions</td>
<td>99.612</td>
</tr>
<tr>
<td>12 Lead ECG-Transmitted</td>
<td>89.821</td>
<td>CPR-Stop</td>
<td>99.615</td>
</tr>
<tr>
<td>Activation-Advanced Hazmat Specialty Service/Response Team</td>
<td>101.201</td>
<td>Decontamination</td>
<td>86.280</td>
</tr>
<tr>
<td>Activation-Fire Rehabilitation Specialty Service/Response Team</td>
<td>101.202</td>
<td>Defibrillation-Automated (AED)</td>
<td>99.621</td>
</tr>
<tr>
<td>Activation-Other Specialty Service/Response Team</td>
<td>101.203</td>
<td>Defibrillation-Manual</td>
<td>99.622</td>
</tr>
<tr>
<td>Activation-Rescue Specialty Service/Response Team</td>
<td>101.204</td>
<td>Defibrillation-Placement for Monitoring/Analysis</td>
<td>99.625</td>
</tr>
<tr>
<td>Activation-Social Services Notification/Referral</td>
<td>101.205</td>
<td>Escharotomy</td>
<td>86.090</td>
</tr>
<tr>
<td>Activation-Tactical or SWAT Specialty Service/Response Team</td>
<td>101.206</td>
<td>Extrication</td>
<td>100.200</td>
</tr>
<tr>
<td>Airway-Bagged (via BVMask)</td>
<td>93.931</td>
<td>Gastric Tube Insertion-Inserted Nasally</td>
<td>96.070</td>
</tr>
<tr>
<td>Airway-Bagged (via tube)</td>
<td>93.930</td>
<td>Gastric Tube Insertion-Inserted Orally</td>
<td>96.071</td>
</tr>
<tr>
<td>Airway-BiPAP</td>
<td>96.702</td>
<td>Injections-SQ/IM</td>
<td>99.290</td>
</tr>
<tr>
<td>Airway-Change Tracheostomy Tube</td>
<td>97.230</td>
<td>Intra-Aortic Balloon Pump Maintenance</td>
<td>37.611</td>
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<tr>
<td>Airway-Cleared, Opened, or Heimlich</td>
<td>98.130</td>
<td>Joint Reduction/Relocation</td>
<td>79.700</td>
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<tr>
<td>Airway-Combitube Blind Insertion Airway Device</td>
<td>96.051</td>
<td>Left Ventricular Assist Device Maintenance</td>
<td>37.612</td>
</tr>
<tr>
<td>Airway-CPAP</td>
<td>93.900</td>
<td>MAST</td>
<td>93.580</td>
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<tr>
<td>Airway-Direct Laryngoscopy</td>
<td>31.420</td>
<td>Orthostatic Blood Pressure Measurement</td>
<td>89.590</td>
</tr>
<tr>
<td>Airway-EOA/EGTA</td>
<td>96.030</td>
<td>Pain Measurement</td>
<td>89.702</td>
</tr>
<tr>
<td>Airway-Extubation</td>
<td>96.993</td>
<td>Patient Cooling (Cold Pack, etc.)</td>
<td>99.810</td>
</tr>
<tr>
<td>Airway-Foreign Body Removal</td>
<td>98.131</td>
<td>Patient Cooling-Post Resuscitation</td>
<td>99.811</td>
</tr>
<tr>
<td>Airway-Impedance Threshold Device</td>
<td>96.703</td>
<td>Patient Loaded</td>
<td>100.300</td>
</tr>
<tr>
<td>Airway-Intubation Confirm Colorimetric ETCO2</td>
<td>96.991</td>
<td>Patient Loaded-Helicopter Hot-Load</td>
<td>100.301</td>
</tr>
<tr>
<td>Airway-Intubation Confirm Esophageal Bulb</td>
<td>96.992</td>
<td>Patient Monitoring of Pre-existing Devices, Equipment, or Ongoing Medications</td>
<td>89.599</td>
</tr>
<tr>
<td>Airway-Intubation of Existing Tracheostomy Stoma</td>
<td>97.231</td>
<td>Patient Off-Loaded</td>
<td>100.302</td>
</tr>
<tr>
<td>Airway-King LT Blind Insertion Airway Device</td>
<td>96.053</td>
<td>Patient Off-Loaded Helicopter Hot Off-Load</td>
<td>100.303</td>
</tr>
<tr>
<td>Airway-Laryngeal Mask Blind Insertion Airway Device</td>
<td>96.052</td>
<td>Patient Warming (Hot Pack, etc.)</td>
<td>93.350</td>
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<tr>
<td>Airway-Nasal</td>
<td>96.010</td>
<td>Pericardiocentesis</td>
<td>37.000</td>
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<tr>
<td>Airway-Nasotracheal Intubation</td>
<td>96.041</td>
<td>Pulse Oximetry</td>
<td>89.392</td>
</tr>
<tr>
<td>Airway-Nebulizer Treatment</td>
<td>93.940</td>
<td>Rescue</td>
<td>100.100</td>
</tr>
<tr>
<td>Airway-Needle Cricothyrotomy</td>
<td>31.110</td>
<td>Restraints-Pharmacological</td>
<td>99.841</td>
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<tr>
<td>Airway-Oral</td>
<td>96.020</td>
<td>Restraints-Physical</td>
<td>99.842</td>
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<tr>
<td>Airway-Orotracheal Intubation</td>
<td>96.040</td>
<td>Specialty Center Activation-Adult Trauma</td>
<td>101.101</td>
</tr>
<tr>
<td>Airway-PEEP</td>
<td>96.790</td>
<td>Specialty Center Activation-Cardiac Arrest</td>
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<tr>
<td>Airway-Rapid Sequence Intubation</td>
<td>96.042</td>
<td>Specialty Center Activation-Pediatric Trauma</td>
<td>101.102</td>
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</tbody>
</table>
Airway-Respirator Operation (BLS) 93.910 Specialty Center Activation-STEMI 101.104  
Airway-Suctioning 98.150 Specialty Center Activation-Stroke 101.105  
Airway-Surgical Cricothyrotomy 31.120 Spinal Immobilization 93.591  
Airway-Ventilator Operation 96.700 Splinting-Basic 93.540  
Airway-Ventilator with PEEP 96.701 Splinting-Traction 93.450  
Airway-Video Laryngoscopy 31.421 Temperature Measurement 89.703  
Arterial Access-Blood Draw 38.910 Thrombolytic Screen 89.704  
Arterial Line Maintenance 89.610 Urinary Catheterization 57.940  
Assessment-Adult 89.700 Vagal Maneuver-Carotid Massage 99.640  
Assessment-Pediatric 89.701 Vagal Maneuver-Valsalva or Other Vagal Maneuver (Not Carotid Massage) 99.641  
Blood Glucose Analysis 38.995 Venous Access-Blood Draw 38.990  
Capnography (CO2 Measurement) 89.391 Venous Access-Central Line Maintenance 89.620  
Cardiac Monitor 89.510 Venous Access-Discontinue 39.997  
Cardiac Pacing-External 99.624 Venous Access-Existing Catheter 38.991  
Cardiac Pacing-Transvenous 99.626 Venous Access-External Jugular Line 38.993  
Cardioversion 99.623 Venous Access-Extremity 38.992  
Chest Decompression 34.041 Venous Access-Femoral Line 38.994  
Chest Tube Placement 34.042 Venous Access-Internal Jugular Line 39.995  
Childbirth 73.590 Venous Access-Intraosseous Adult 41.920  
CNS Catheter-Epidural Maintenance 1.181 Venous Access-Intraosseous Pediatric 41.921  
CNS Catheter-Intraventricular Maintenance 1.182 Venous Access-Subclavian Line 39.996  
Contact Medical Control 101.500 Venous Access-Swan Ganz Maintenance 89.640  
CPR by Other External Automated Device 99.601 Venous Access-Umbilical Vein Cannulation 39.998  
CPR-AutoPulse Device 99.602 Wound Care-General 93.057  
CPR-Mechanical Thumper Type Device 99.603 Wound Care-Hemostatic Agent 93.059  
CPR-Precordial Thump Only 99.604 Wound Care-Irrigation 93.058  
CPR-Start Compressions and Ventilations 99.600 Wound Care-Taser Barb Removal 93.055  
CPR-Start Compressions only without Ventilation 99.611 Wound Care-Tourniquet 93.056

AZ-PIERS Additional Procedure Options

<table>
<thead>
<tr>
<th>ImageTrend Code</th>
<th>Addl - ImageTrend - AZ-PIERS Procedure Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>6720</td>
<td>ACD Deactivation</td>
</tr>
<tr>
<td>6730</td>
<td>AED-ERU</td>
</tr>
<tr>
<td>6740</td>
<td>AED-First Responder</td>
</tr>
<tr>
<td>6750</td>
<td>AED-Public Access</td>
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<tr>
<td>6195</td>
<td>Airway-ECO2 Monitoring</td>
</tr>
<tr>
<td>154054</td>
<td>Airway-Endotracheal Tube Existing/Monitoring</td>
</tr>
<tr>
<td>154100</td>
<td>Airway-Ventilator Setting Adjustment</td>
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<tr>
<td>154101</td>
<td>Airway-Verification</td>
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<tr>
<td>154125</td>
<td>Arterial Access - Femoral Line</td>
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<td>154099</td>
<td>Arterial Access-Umbilical</td>
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<td>6760</td>
<td>Burn Care</td>
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<tr>
<td>154045</td>
<td>CPR-Hold (Momentarily)</td>
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<tr>
<td>6820</td>
<td>Isolation Procedures</td>
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<tr>
<td>6540</td>
<td>None</td>
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<tr>
<td>6830</td>
<td>Other</td>
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<table>
<thead>
<tr>
<th>ImageTrend Code</th>
<th>Addl - ImageTrend - AZ-PIERS Procedure Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>154020</td>
<td>Spinal Assessment - Deficits Noted</td>
</tr>
<tr>
<td>154021</td>
<td>Spinal Assessment - No Deficits Noted</td>
</tr>
<tr>
<td>6581</td>
<td>Spinal Immobilization - K.E.D.</td>
</tr>
<tr>
<td>6582</td>
<td>Spinal Immobilization - Long Back Board</td>
</tr>
<tr>
<td>6770</td>
<td>Spinal Immobilization - Rigid Cervical Collar</td>
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<tr>
<td>6780</td>
<td>Spinal Immobilization - Soft Cervical Collar</td>
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<tr>
<td>154000</td>
<td>Spinal Immobilization - Standing Take-Down</td>
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<td>154047</td>
<td>ROSC</td>
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<td>6685</td>
<td>Stretcher</td>
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<td>154124</td>
<td>Thoracentesis</td>
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<td>Umbilical Artery Catheter</td>
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<td>154008</td>
<td>Venous Access-Saline Lock</td>
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<td>6711</td>
<td>Wound Care - Burn Care</td>
</tr>
<tr>
<td>6712</td>
<td>Wound Care - Pressure Dressing</td>
</tr>
</tbody>
</table>
**Additional Information**
- A multiple-entry configuration with Personnel Level Permitted to use the Procedure (D04_05)
- If local systems have procedures which are not listed in the current values, additional procedures may be added using CPT codes from the ICD-9 standard. The CPT code should be stored and passed via the XML. This will allow expansion of the list to formally add new procedures over time
- Used to create a list box for Procedure (E19_03)

**Uses**
- Allows data to be sorted based on an agency's Procedure capabilities
- Provides descriptive information when combined with an EMS Agency’s Billing Status
- Used to create a list box for Response to Procedure (E19_08)

**Data Collector**
- EMS Agency and typically only documented once then verified and updated yearly or when changed

**Other Associated Elements**
- **D01_01** EMS Agency Number
- **D04_05** Personnel Level Permitted to Use the Procedure

**References in NHTSA Version 1**
- Desirable Element 58 Time of First CPR
- Desirable Element 63 Time of First Defibrillatory Shock
- Essential Element 78 Procedure or Treatment Name

**References to Other Databases**
- NFIRS 5.0 EMS Module, Title: Procedures Used, Multi Select List: Airway Insertion = 01, Anti-Shock Trousers = 02, Assisted Ventilation = 03, Bleeding Control = 04, Burn Care = 05, Cardiac Pacing = 06, Cardioversion (defib), Manual = 07, Chest/Abdominal Thrust = 08, CPR = 09, Cricothyroidotomy = 10, Defibrillation by AED = 11, EKG Monitoring = 12, Extrication = 13, Intubation (EGTA) = 14, Intubation (ET) = 15, IO/IV Therapy = 16, Medications Therapy = 17, Oxygen Therapy = 18, Obstetrical Care/Delivery = 19, Pre-Arrival Instruction = 20, Restrained Patient = 21, Spinal Immobilization = 22, Splinted Extremities = 23, Suction/Aspirate = 24, Other Procedure = 00, No Treatment = NN

**ARIZONA REQUIRED**
MEDICATIONS GIVEN

Data [text] multiple-entry

Definition
A list of all medications the agency has implemented and available for use

XSD Data Type xs:string
XSD Domain (Simple Type) DemographicMedicationsGiven
Multiple Entry Configuration Yes, via structure
Accepts Null Values No
Required in XSD No
Minimum Constraint 2
Maximum Constraint 30
XSD Structure: D04_06 and D04_07 are members of D04_06_0 Demographic Medication Structure

Field Values
A unique value.

AZ-PIERS Medication Options

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<td>Insulin</td>
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<td>8</td>
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<td>Flumazenil (Romazicon)</td>
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<td>Haloperidol (Haldol)</td>
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<td>Prochlorperazine (Compazine)</td>
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<td>Lidocaine</td>
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<td>Oxygen by Positive Pressure Device</td>
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<td>Dextrose 10% (D10)</td>
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<td>Digoxin</td>
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<td>Tenecteplase</td>
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<td>Dextrose 12.5%</td>
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<td>Sodium bicarbonate</td>
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<td>D5W (Dextrose 5% in Water)</td>
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<td>Labetolol</td>
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<td>D5W w/ 1/2 Normal Saline</td>
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<td>Tissue Plasminogen Activator (tPA)</td>
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<td>Oxytocin (Pitocin)</td>
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**Additional Information**
- At this time a national drug index or coding scheme, which would allow for a single code to be assigned to a single drug, does not exist.
- The Drug List may contain any generic or trade name of a drug approved by the FDA and administered by EMS. The medication is stored and passed via XML in a text format.
- Used to create a list box for Medication Given (E18_03) and Prior Aid (E09_01).

**Uses**
- Allows data to be sorted based on an agency’s Medication capabilities.
- Could be used to create a list box for Medication Given (E18_03) and Prior Aid (E09_01).
- Provides descriptive information when combined with an EMS Agency’s Billing Status.

**Data Collector**
- EMS Agency and typically only documented once then verified and updated yearly or when changed.

**Other Associated Elements**
- D01_01 EMS Agency Number
- D04_07 Personnel Level Permitted to Use the
References in NHTSA Version 1
Essential Element 80 Medication Name

References to Other Databases
- NFIRS 5.0 EMS Module, Title: Procedures Used, Multi Select List: Airway Insertion = 01, Anti-Shock Trousers = 02, Assisted Ventilation = 03, Bleeding Control = 04, Burn Care = 05, Cardiac Pacing = 06, Cardioversion (defib), Manual = 07, Chest/Abdominal Thrust = 08, CPR = 09, Cricothyroidotomy = 10, Defibrillation by AED = 11, EKG Monitoring = 12, Extrication = 13, Intubation (EGTA) = 14, Intubation (ET) = 15, IO/IV Therapy = 16, Medications Therapy = 17, Oxygen Therapy = 18, Obstetrical Care/Delivery = 19, Pre-Arrival Instruction = 20, Restrained Patient = 21, Spinal Immobilization = 22, Splinted Extremities = 23, Suction/Aspirate = 24, Other Procedure = 00, No Treatment =

ARIZONA REQUIRED
**Data**

[Text] multiple-entry

**Definition**

A list of all of the medical treatment protocols that the agency has in place and available for use. Specific Adult or Pediatric Protocols should be mapped to one of these topics if possible.

**XSD Data Type** xs:string  
**XSD Domain (Simple Type)** DemographicProtocolsUsed  
**Multiple Entry Configuration** Yes, via structure  
**Accepts Null Values** No  
**Required in XSD** No  
**Minimum Constraint** 2  
**Maximum Constraint** 30  

XSD Structure: D04_08 and D04_09 are members of D04_08_0 Demographic Protocol Structure  
XSD Attributes: Status (Active or In-active) and Date are included as attributes

**Field Values**

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**AZ-PIERS Additional Protocol Options**

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<td>Cardiogenic Shock</td>
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<td>Chemical burns - adults</td>
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<td>Cyanide and arsenic - adult</td>
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<td>Cyanide and arsenic - pediatric</td>
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<td>Pediatric - Chemical burns</td>
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<td>158048</td>
<td>Pediatric - Diabetic emergencies</td>
</tr>
<tr>
<td>158066</td>
<td>Pediatric Altered Mental Status/Coma</td>
</tr>
<tr>
<td>158069</td>
<td>Pediatric Automatic External Defibrillator (AED)</td>
</tr>
<tr>
<td>158067</td>
<td>Pediatric Croup/Epiglottis/FBAO</td>
</tr>
<tr>
<td>158068</td>
<td>Pediatric Respiratory Arrest</td>
</tr>
<tr>
<td>158054</td>
<td>Poisoning/substance abuse/overdose - pediatric</td>
</tr>
<tr>
<td>158055</td>
<td>Radiation injuries</td>
</tr>
<tr>
<td>158062</td>
<td>Refusal of Care/Transportation</td>
</tr>
<tr>
<td>158059</td>
<td>Respiratory Arrest</td>
</tr>
<tr>
<td>158056</td>
<td>Tachycardia - pediatric</td>
</tr>
<tr>
<td>158057</td>
<td>Thoracic injuries - adult</td>
</tr>
<tr>
<td>158058</td>
<td>Thoracic injuries - pediatric</td>
</tr>
</tbody>
</table>

**Additional Information**
- Can be used as a qualifying measure to compare care provided to protocol guidance

Optional
**HOSPITALS SERVED**

**D04_11**

**Data**  [text] multiple-entry

**Definition**
A list of all the hospitals the agency transports to or from

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:string</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSD Domain (Simple Type)</td>
<td>FacilityName</td>
</tr>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes, via structure</td>
</tr>
<tr>
<td>Accepts Null Values</td>
<td>No</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>No</td>
</tr>
<tr>
<td>Minimum Constraint</td>
<td>2</td>
</tr>
<tr>
<td>Maximum Constraint</td>
<td>50</td>
</tr>
</tbody>
</table>

XSD Structure: D04_11 and D04_12 are members of D04_11_0 Hospitals Served Structure

**Field Values**
A unique value; no variable list is possible.

**Additional Information**
- Multiple entry configuration used to create a list box for Destination/Transferred to (E20_01) and Vehicle Dispatch Location (E02_13)

**Uses**
- Could be used to create a list box (along with D04_13) for Destination/Transferred to (E20_01) and Vehicle Dispatch Location (E02_13)

**Data Collector**
- EMS Agency and typically only documented once then verified and updated yearly or when changed

**Other Associated Elements**
- **D01_01**  EMS Agency Number
- **D04_12**  Hospital Facility Number

**ARIZONA REQUIRED**
**HOSPITAL FACILITY NUMBER**

**D04_12**

**Data**
[text]

**Definition**
The state assigned licensure number (code) for each Hospital Served (D04_11)

**XSD Data Type**  xs:string  
**XSD Domain (Simple Type)**  FacilityNumber  
**Multiple Entry Configuration**  Yes, via structure  
**Accepts Null Values**  Yes  
**Required in XSD**  No  
**Minimum Constraint**  2  
**Maximum Constraint**  30  

XSD Structure: D04_11 and D04_12 are members of D04_11_0 Hospitals Served Structure

**Field Values**
- A unique value; no variable list is possible.  
-25 Not Applicable  
-20 Not Recorded  
-15 Not Reporting  
-10 Not Known  
-5 Not Available

**Additional Information**
- Multiple entry configuration to create a list box for Incident Facility Code (E08_08) and Destination Transferred to Code (E20_02)
- This field could also provide linkage to Hospitals Served (D04_11) which would allow a list box of Hospital Names to be used instead of entering the Code directly

**Uses**
- Could be used to create a list box (along with D04_14) for Incident Facility Code (E08_08) and Destination Transferred to Code (E20_02)

**Data Collector**
- EMS Agency and typically only documented once then verified and updated yearly or when changed

**Other Associated Elements**
- D01_01 EMS Agency Number
- D04_11 Hospitals Served
- E00 Common Null Values

**ARIZONA REQUIRED**
Data: [text] multiple-entry

Definition:
A list of all destinations other than hospitals which an agency transports to or from

XSD Data Type: xs:string  XSD Domain (Simple Type): FacilityName
Multiple Entry Configuration: Yes, via structure  Accepts Null Values: No
Required in XSD: No  Minimum Constraint: 2  Maximum Constraint: 50

XSD Structure: D04_13, D04_14 and D04_15 are members of D04_13_0 Other Destinations Structure

Field Values:
A unique value; no variable list is possible.

Additional Information:
● Multiple entry configuration used to create a list box for Destination/Transferred to (E20_01) and Vehicle Dispatch Location (E02_13)

Uses:
● Could be used to create a list box (along with D04_11) for Destination/Transferred to (E20_01) and Vehicle Dispatch Location (E02_13)

Data Collector:
● EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements:
D01_01  EMS Agency Number  D04_14  Destination Facility Number
D04_15  Destination Type

ARIZONA REQUIRED
Common EMS Values
COMMON NULL VALUES

Data [combo] single-choice

Definition
These values are to be used in each of the Demographic and EMS Data Elements described in this document which have been defined to accept the E00 Null Values.

Field Values
-25 Not Applicable
-15 Not Reporting
-10 Not Known
-5 Not Available

Additional Information
- For any collection of data to be of value and reliably represent what was intended, a strong commitment must be made to ensure the correct documentation of incomplete data. The described data integrity method must be followed with the NHTSA dataset. For data elements being electronically stored in a database or moved from one database to another using XML, the indicated values should be applied when a data element is empty or contains a null value.
- Not Applicable: (Code -25) = At the time of an EMS patient care report documentation, information requested was “Not Applicable” to the EMS or patient event. This indicates that it is unnecessary to document mechanism or injury related information on a patient who was not traumatized.
- Not Available: (Code -5) = At the time of an EMS patient care report documentation, information was “Not Available” to EMS personnel. This documents that needed information did exist but the EMS personnel was unsuccessful in their attempt to obtain it.
- Not Known: (Code -10) = At the time of an EMS patient care report documentation, information was “Not Known” to patient, family, and EMS personnel. This documents that there was an attempt to obtain information but it was unknown by all parties involved.
- Not Recorded: (Code -20) = If an EMS documentation or information system has an empty field or nothing is recorded in any data element of the NHTSA dataset, code “-20” should be inserted into the database and/or XML for that data element indicating that the EMS Patient Care Report did not have a value for that specific data element when the EMS event or patient encounter was documented.
- Not Reporting: (Code -15) = If an EMS documentation or information system is not using any of the "National" data elements of the NHTSA dataset, code “-15" should be inserted into the database and/or XML for that data element.

Arizona has decided to move to the NEMSIS 3.0 Null values now, to keep data consistent with upcoming years. Retired Data values of -10 Not Known & -5 Not Available will be retired and should be mapped to -20 Not Recorded by outside software vendors.

ARIZONA REQUIRED
Record Information
PATIENT CARE REPORT NUMBER

Data [text]

National Element

Definition
The unique number automatically assigned by the EMS agency for each patient care report (PCR). This is a unique number to the EMS agency for all of time.

XSD Data Type xs:string  XSD Domain (Simple Type) PatientCareReportNumber
Multiple Entry Configuration No  Accepts Null Values No
Required in XSD Yes  Minimum Constraint 3  Maximum Constraint 32

Field Values
A unique value; no variable list is possible.

Additional Information
● Not Nullable. A unique value must be provided to create a unique record ID within a database

Uses
● A component of the EMS Medical Record: Patient Care Report
● Agency number (E02_01), agency state (D01_03), unit call sign (E02_12), patient number (E01_01) and date (E05_04) combine to create a unique identifier

Data Collector
● EMS agency or may be electronically provided through the 911 or dispatch center

Other Associated Elements
E01_01 Patient Care Report Number

References in NHTSA Version 1
Desirable Element 23 Patient Care Record Number

References to Other Databases
● NFIRS 5.0 EMS Module; Title: Patient Number; Unique Number

Extended NEMSIS Definition
The unique number automatically assigned by the EMS agency for each patient care report (PCR). This is a unique number to the EMS agency.
Although the patient care report number is unique to a given agency, it is probably not unique when compared to other agencies within a state or the nation. The NEMSIS Technical Assistance Center uses this variable (and EMS Agency Number [E02-01]) to validate that the same PCR has not been submitted by the state to the National EMS Database multiple times.

ARIZONA REQUIRED
SOFTWARE CREATOR

Data [text]

Definition
The name of the software vendor by whom the data collection software was developed

XSD Data Type xs:string  XSD Domain (Simple Type) SoftwareCreatedBy
Multiple Entry Configuration No  Accepts Null Values No
Required in XSD Yes  Minimum Constraint 3  Maximum Constraint 30

Field Values
A unique value; no variable list is possible.

Uses
● Important for grouping or comparing the accuracy of software used by EMS agencies in data collection

Data Collector
● EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements
E01_01 Patient Care Report Number

ARIZONA REQUIRED
SOFTWARE NAME

E01_03

Data [text] National Element

Definition
The name of the software package with which the data was collected by the agency

XSD Data Type xs:string XSD Domain (Simple Type) SoftwareName
Multiple Entry Configuration No Accepts Null Values No
Required in XSD Yes Minimum Constraint 3 Maximum Constraint 30

Field Values
A unique value; no variable list is possible.

Uses
● Important for grouping or comparing the accuracy of software used by EMS agencies in data collection

Data Collector
● EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements
E01_01 Patient Care Report Number

ARIZONA REQUIRED
**SOFTWARE VERSION**

**Data** [text]  

**National Element**

**Definition**
The version of the software used by the agency to collect the data

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:string</th>
<th>XSD Domain (Simple Type)</th>
<th>SoftwareVersion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Values</td>
<td>No</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Minimum Constraint</td>
<td>Maximum Constraint</td>
</tr>
</tbody>
</table>

**Field Values**
A unique value; no variable list is possible.

**Uses**
- Important for grouping or comparing the accuracy of software used by EMS agencies in data collection
- EMS Agency and typically only documented once then verified and updated yearly or when changed

**Data Collector**
- EMS Agency and typically only documented once then verified and updated yearly or when changed

**Other Associated Elements**
- E01_01 Patient Care Report Number

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**ARIZONA REQUIRED**
Section E02

Unit/ Agency Information
EMS AGENCY NUMBER

E02_01

Data [text] National Element

Definition
The state-assigned provider number of the responding agency

XSD Data Type xs:string
XSD Domain (Simple Type) EMSAgencyNumber
Multiple Entry Configuration No
Accepts Null Values No
Required in XSD Yes
Minimum Constraint 3
Maximum Constraint 15

Field Values
A unique value; no variable list is possible.

Additional Information
● Not Nullable. A unique value must be provided to create a unique record ID within a database
● Same as EMS Agency Number (D01_01)

Uses
● A component of the EMS Medical Record: Patient Care Report
● Agency number (E02_01), agency state (D01_03), unit call sign (E02_12), patient number (E01_01) and date (E05_04) combine to create a unique identifier
● Allows data to be sorted by the EMS Agency
● Important for grouping and comparing EMS Agencies in Benchmarking and Quality Management
● When linked to D01_02 provides the Agency name on the EMS Medical Record: Patient Care Report

Data Collector
● Typically generated by the State EMS Regulatory Office. Collected by the EMS agency or auto-generated by the EMS agency specific software.

Other Associated Elements
E01_01 Patient Care Report Number

References to Other Databases
● NFIRS 5.0 EMS Module; Title: FDID; State assigned Fire Department ID number

ARIZONA REQUIRED
INCIDENT NUMBER

Data [text]

Definition
The incident number assigned by the 911 Dispatch System

XSD Data Type xs:string
XSD Domain (Simple Type) IncidentNumber
Multiple Entry Configuration No
Accepts Null Values Yes
Required in XSD No
Minimum Constraint 2
Maximum Constraint 15

Field Values
-25 Not Applicable
-15 Not Reporting
-----5 Not Available

-20 Not Recorded
-10 Not Known

Uses
● Component of the EMS Agency 911 or Dispatch information which serves as a link to identify and report other Dispatch information

Data Collector
● 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

Other Associated Elements
E00 Common Null Values

E01_01 Patient Care Report Number

References in NHTSA Version 1
Essential Element 21 Incident Number

References to Other Databases
● NFIRS 5.0 EMS Module; Title: Incident Number; Unique number for each Incident

ARIZONA REQUIRED
TYPE OF SERVICE REQUESTED

Data [combo] single-choice

Definition
The type of service or category of service requested of the EMS service responding for this specific EMS incident.

XSD Data Type xs:integer
XSD Domain (Simple Type) TypeOfServiceRequested
Multiple Entry Configuration No
Accepts Null Values No
Required in XSD Yes

Field Values
- 30 911 Response (Scene):
- 40 Interfacility Transfer
- 50 Mutual Aid
- 35 Intercept
- 45 Medical Transport
- 55 Standby

AZ-PIERS Additional Field Value
- 410000 Interfacility Transfer (Unscheduled)
- 410001 Flagdown/Walk-in Emergent
- 410002 Flagdown/Walk-in Non-emergent

Uses
- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted by the Type of Service Requested
- Provides descriptive data on EMS call volume and service provided

Data Collector
- EMS agency or may be electronically provided through the 911 or dispatch center

Other Associated Elements
- E01_01 Patient Care Report Number

References in NHTSA Version 1
- Essential Element 20 Service Type

NEMSIS Extended Definitions:
911 Response (Scene) - Emergent or immediate response to an incident location, regardless of method of notification (for example, 911, direct dial, walking, or flagging down).

Intercept – When one EMS Provider meets a transporting EMS unit with the intent of receiving a patient or providing a higher level of care.

Inter-facility Transfer – Transfer of a patient from one hospital to another hospital.

Medical Transport – Transports that are not between hospitals or that do not require an immediate response.

Mutual Aid – Request from another ambulance service to provide emergent or immediate response to an incident location.

Standby – Initial request for service was not tied to a patient but to a situation where a person may become ill or injured.

ARIZONA REQUIRED
Definition
The primary role of the EMS service which was requested for this specific EMS incident.

XSD Data Type \( xs:integer \)  
XSD Domain (Simple Type) PrimaryRoleOfTheUnit
Multiple Entry Configuration No  
Accepts Null Values No
Required in XSD Yes

Field Values
- 60 Non-Transport
- 70 Supervisor
- 65 Rescue
- 75 Transport

AZ-PIERS Additional Field Value
<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>411000</td>
<td>ALS Ground Transport</td>
</tr>
<tr>
<td>411001</td>
<td>BLS Ground Transport</td>
</tr>
<tr>
<td>411002</td>
<td>Critical Care Ground Transport</td>
</tr>
<tr>
<td>411004</td>
<td>Fixed Wing Transport</td>
</tr>
<tr>
<td>411005</td>
<td>Other Transport</td>
</tr>
<tr>
<td>411006</td>
<td>Roto-Craft Transport</td>
</tr>
</tbody>
</table>

Uses
- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted by the role of the responder
- Provides descriptive data on EMS call volume and service provided

Data Collector
- EMS agency or may be electronically provided through the 911 or dispatch center

Other Associated Elements
- E01_01 Patient Care Report Number

NEMSIS Extended Definitions:
- Non-Transport - The unit’s role in this incident is to provide EMS care but is not intended to provide transport.
- Rescue - The unit’s role in this incident is to provide rescue services.
- Supervisor - The unit’s role in this incident is as a supervisor.
- Transport - The unit’s role in this incident is to provide transportation of the patient even if no transport happened.

ARIZONA REQUIRED
TYPE OF DISPATCH DELAY

Data [combo] multiple-choice

Definition
The dispatch delays, if any, associated with the dispatch of the EMS unit to the patient encounter

XSD Data Type xs:integer
XSD Domain (Simple Type) TypeOfDispatchDelay
Multiple Entry Configuration Yes
Accepts Null Values Yes
Required in XSD Yes

Field Values
-25 Not Applicable
-20 Not Recorded
-15 Not Reporting
-10 Not Known
-5 Not Available
5 Not Available
85 High Call Volume
90 Language Barrier
95 Location (Inability to Obtain)
100 No Units Available
105 None
110 Other
115 Scene Safety (Not Secure for EMS)
120 Technical Failure (Computer, Phone etc.)

Uses
● Allows data to describe the status of Dispatch issues

Data Collector
● 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

Other Associated Elements

References in NHTSA Version 1
Desirable Element 56 Factors Affecting EMS Delivery of Care

NEMSIS Extended Definitions:
Caller Uncooperative – Caller uncooperative (i.e. does not answer questions).
High Call Volume – High call volume in the dispatch center caused delayed notification of the EMS unit.
Language Barrier – Difficulty communicating with the caller because of language problems.
Location (Inability to Obtain) – Inability to determine where to dispatch the EMS unit.
No Units Available – Lack of available EMS units.
None – Use if the dispatch of the EMS unit was not delayed.
Other – Dispatch was delayed for reasons not listed here.
Scene Safety (Not Secure for EMS) – Notification of the EMS unit was delayed in dispatch because the scene was unsafe.
Technical Failure (Computer, Phone, etc.) – Failure of phones, computers, radios, or other technical failure.

Optional
TYPE OF RESPONSE DELAY

Data: [combo] multiple-choice

Definition: The response delays, if any, of the unit associated with the patient encounter

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSD Domain (Simple Type)</td>
<td>TypeOfResponseDelay</td>
</tr>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes</td>
</tr>
<tr>
<td>Accepts Null Values</td>
<td>Yes</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Field Values
-25 Not Applicable
-15 Not Reporting
-10 Not Known
-5 Not Available
130 Directions
140 Diversion
150 None
160 Safety
170 Traffic
180 Vehicle Failure
125 Crowd
135 Distance
145 HazMat
155 Other
165 Staff Delay
175 Vehicle Crash
185 Weather

AZ-PIERS Additional Field Value

<table>
<thead>
<tr>
<th>413000</th>
<th>Train</th>
</tr>
</thead>
<tbody>
<tr>
<td>413011</td>
<td>Gated Community or Prison (Location Entry Delay)</td>
</tr>
</tbody>
</table>

Uses
- Allows data describe Vehicle Failures and Vehicle Crashes
- Allows data to describe the status of Response issues

Data Collector
- EMS personnel

Other Associated Elements
E00 Common Null Values
E01_01 Patient Care Report Number

References in NHTSA Version 1
Desirable Element 56 Factors Affecting EMS Delivery of Care

NEMSIS Extended Definitions:
Crowd – The presence of sufficient numbers of people to impair normal response.
Directions – Bad or inadequate directions, or if the unit got lost en route.
Distance – A long distance to the scene from the unit’s location when dispatched.
Diversion – Diversion of the initially dispatched unit to another incident.
HazMat – Hazardous Material danger.
None – Use if the arrival of the EMS unit at the scene was not delayed.
Other – Other reasons not listed here.
Safety – Scene safety issues not related to crowds or HazMat.
Staff Delay – Issues arising with crew members’ ability to respond.
Traffic – The sufficient amount of traffic to impair normal response.
Vehicle Crash – EMS unit was involved in a crash.
Vehicle Failure – EMS unit mechanical reasons (i.e., ambulance did not start, flat tire, etc.).
Weather – Adverse weather conditions impairing normal response.

ARIZONA REQUIRED
TYPE OF SCENE DELAY

Definition
The scene delays, if any, of the unit associated with the patient encounter

XSD Data Type | xs:integer | XSD Domain (Simple Type) | TypeOfSceneDelay
Multiple Entry Configuration | Yes | Accepts Null Values | Yes
Required in XSD | Yes

Field Values
-25 Not Applicable
-15 Not Reporting
-10 Not Known
-5 Not Available
195 Directions
205 Diversion
215 HazMat
225 None
235 Safety
245 Traffic
255 Vehicle Failure
20 Not Recorded
190 Crowd
210 Extrication >20 min.
220 Language Barrier
230 Other
240 Staff Delay
250 Vehicle Crash
260 Weather

AZ-PIERS Additional Field Value
414000 Patient Access Delay (Lockout/Physical)

Uses
- Allows data describe Vehicle Failures and Vehicle Crashes
- Allows data to describe the status of Scene issues

Data Collector
- EMS personnel

Other Associated Elements
E00 Common Null Values
E01_01 Patient Care Report Number

References in NHTSA Version 1
Desirable Element 56 Factors Affecting EMS Delivery of Care

NEMSIS Extended Definitions:
Crowd – The presence of sufficient numbers of people to cause the inappropriate extension of time on scene.
Directions – Bad or inadequate directions resulting in the crew having difficulty finding the patient
Distance – Distance between the ambulance and the patient
Diversion – Need to find receiving hospital not on diversion before departing the scene
Extrication > 20 Min. – Extrication of patient that took longer than 20 minutes
HazMat – Hazardous Material danger
Language Barrier – Difficulty communicating with the patient or bystanders because of language problems
None – Use if the total scene time was not extended
Other – Any other factor not described here
Safety – Scene safety issues not related to crowds or HazMat
Staff Delay – Total scene time issues arising with crew members
Traffic – The presence of a sufficient amount of traffic that causes an inappropriate extension of time on scene
Vehicle Crash – EMS unit was involved in a crash
Vehicle Failure – EMS unit had mechanical reasons (i.e., ambulance did not start, flat tire, etc.)
Weather – Adverse weather conditions that cause the inappropriate extension of time on scene

ARIZONA REQUIRED
**TYPE OF TRANSPORT DELAY**

**Definition**
The transport delays, if any, of the unit associated with the patient encounter.

**XSD Data Type** xs:integer  **XSD Domain (Simple Type)** TypeOfTransportDelay

**Multiple Entry Configuration** Yes  **Accepts Null Values** Yes

**Required in XSD** Yes

**Field Values**
-25 Not Applicable
-15 Not Reporting
-10 Not Known
-5 Not Available
270 Directions
280 Diversion
290 None
300 Safety
310 Traffic
320 Vehicle Failure
-20 Not Recorded
-10 Not Known
265 Crowd
285 HazMat
295 Other
305 Staff Delay
315 Vehicle Crash
325 Weather

**AZ-PIERS Additional Field Value**

| 415000 | Train |

**Uses**
- Allows data describe Vehicle Failures and Vehicle Crashes
- Allows data to describe the status of Transport issues

**Data Collector**
- EMS personnel

**Other Associated Elements**

<table>
<thead>
<tr>
<th>E00</th>
<th>Common Null Values</th>
</tr>
</thead>
</table>

**References in NHTSA Version 1**
- Desirable Element 56 Factors Affecting EMS Delivery of Care

**NEMSIS Extended Definitions:**
- **Crowd** – The presence of sufficient numbers of people to inappropriately extend transport time
- **Directions** – Bad or inadequate directions, or if the unit got lost en route
- **Distance** – A long distance to the destination from the scene
- **Diversion** – Diversion of the transporting unit to a different receiving hospital
- **HazMat** – Hazardous Material danger
- **None** – Use if the arrival of the EMS unit at the destination was not delayed
- **Other** – Other reasons not listed here
- **Safety** – Transport safety issues not related to crowds or HazMat
- **Staff Delay** – Issues arising with crew members’ ability to transport
- **Traffic** – The presence of a sufficient amount of traffic to inappropriately extend transport time
- **Vehicle Crash** – EMS unit was involved in a crash
- **Vehicle Failure** – EMS unit mechanical reasons (i.e., ambulance did not start, flat tire, etc.)
- **Weather** – Adverse weather that inappropriately extend transport time

**ARIZONA REQUIRED**
TYPE OF TURN-AROUND DELAY

Data [combo] multiple-choice

Definition
The turn-around delays, if any, associated with the EMS unit associated with the patient encounter

XSD Data Type xs:integer
XSD Domain (Simple Type) TypeOfTurnAroundDelay
Multiple Entry Configuration Yes
Accepts Null Values Yes
Required in XSD Yes

Field Values
-25 Not Applicable
-15 Not Reporting
-10 Not Known
-5 Not Available
330 Clean-up
335 Decontamination
340 Documentation
345 ED Overcrowding
350 Equipment Failure
355 Equipment Replenishment
360 None
365 Other
370 Staff Delay
375 Vehicle Failure

Uses
- Allows data describe ED overcrowding and Vehicle Failure
- Allows data to describe the status of call time issues

Data Collector
- EMS personnel

Other Associated Elements
E00 Common Null Values
E01_01 Patient Care Report Number

NEMSIS Extended Definitions:
Clean-up – EMS unit clean up takes longer than normal
Decontamination – EMS unit decontamination
Documentation – Patient care documentation takes longer than normal
ED Over-crowding – Over-crowding in the hospital emergency department
Equipment Failure – Equipment Failure with the exception of the EMS unit
Equipment Replacement – Re-supply of the EMS unit takes longer than normal
None – There were no delays in returning to service
Other – Any other reason not listed here
Staff Delay – Issues arising with crew members
Vehicle Failure – EMS unit mechanical reasons (i.e., ambulance did not start, flat tire, etc.)

ARIZONA REQUIRED
EMS UNIT/VEHICLE NUMBER

E02_11

Data [combo] single-choice

Definition
The unique physical vehicle number of the responding unit

XSD Data Type xs:string
XSD Domain (Simple Type) EMSUnitNumber
Multiple Entry Configuration No
Accepts Null Values Yes
Required in XSD No
Minimum Constraint 2
Maximum Constraint 30

Field Values
-25 Not Applicable
-15 Not Reporting
-10 Not Known
-5 Not Available

-20 Not Recorded

Additional Information
- List box created from EMS Unit/Vehicle Number (D06_01)

Uses
- A component of the EMS Medical Record: Patient Care Report
- Allows data at the vehicle level to better describe EMS vehicle usage and possibly maintenance
- Important for grouping or comparing data by Response Vehicle which also allows data to be sorted by location in many agencies

Data Collector
- EMS agency or may be electronically provided through the 911 or dispatch center

Other Associated Elements
E00 Common Null Values
E01_01 Patient Care Report Number

References in NHTSA Version 1
Essential Element 24 Agency/Unit Number

ARIZONA REQUIRED
EMS UNIT CALL SIGN (RADIO NUMBER)

Data: [combo] single-choice

**National Element**

**Definition**
The EMS unit number used to dispatch and communicate with the unit. This may be the same as the EMS Unit/Vehicle Number in many agencies.

**XSD Data Type**: xs:string  
**XSD Domain (Simple Type)**: EMSUnitCallSign

**Multiple Entry Configuration**: No  
**Accepts Null Values**: No

**Required in XSD**: Yes  
**Minimum Constraint**: 2  
**Maximum Constraint**: 15

**Field Values**

**Additional Information**
- List box created from Unit Call Sign (D04_02)
- Not Nullable. A unique value must be provided to create a unique record ID within a database

**Uses**
- Allows data at the vehicle level to better describe EMS vehicle usage and possibly maintenance
- Important for grouping or comparing data by Response Vehicle which also allows data to be sorted by location in many agencies

**Data Collector**
- EMS agency or may be electronically provided through the 911 or dispatch center

**Other Associated Elements**
- E01_01  Patient Care Report Number

**ARIZONA REQUIRED**
**RESPONSE MODE TO SCENE**

**Data**
[combo] single-choice

**National Element**

**Definition**
Indication whether or not lights and/or sirens were used on the vehicle on the way to the scene

**XSD Data Type** `xs:integer`  
**XSD Domain (Simple Type)** `ResponseModeToScene`  
**Multiple Entry Configuration** No  
**Accepts Null Values** No  
**Required in XSD** Yes

**Field Values**
- 380 Initial Lights and Sirens, Downgraded to No Lights or Sirens
- 390 Lights and Sirens
- 385 Initial No Lights or Sirens, Upgraded to Lights and Sirens
- 395 No Lights or Sirens

**Uses**
- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted by the Response Mode
- Allows data to describe the use of emergent response

**Data Collector**
- EMS agency or may be electronically provided through the 911 or dispatch center

**Other Associated Elements**
- E01_01 Patient Care Report Number

**References in NHTSA Version 1**
- Essential Element 19 Lights and Sirens to Scene

**ARIZONA REQUIRED**
Unit/ Call Information
COMPLAINT REPORTED BY DISPATCH

Data [combo] single-choice

Definition The complaint dispatch reported to the responding unit.

XSD Data Type xs:integers

XSD Domain (Simple Type) ComplaintReportedByDispatch

Multiple Entry Configuration No

Accepts Null Values Yes

Required in XSD Yes

Field Values
-25 Not Applicable
-15 Not Reporting
-5 Not Available
405 Allergies
415 Assault
425 Breathing Problem
435 CO Poisoning/Hazmat
445 Chest Pain
455 Convulsions/Seizure
465 Drowning
475 Eye Problem
485 Headache
495 Heat/Cold Exposure
505 Industrial Accident/Inaccessible Incident/Other
Entrapments (non-vehicle)
515 Pregnancy/Childbirth
525 Sick Person
535 Stroke/CVA
545 Traumatic Injury
555 Unknown Problem Man Down
565 MCI (Mass Casualty Incident)
-20 Not Recorded
-40 Not Known
400 Abdominal Pain
410 Animal Bite
420 Back Pain
430 Burns
440 Cardiac Arrest
450 Choking
460 Diabetic Problem
470 Electrocution
480 Fall Victim
490 Heart Problems
500 Hemorrhage/Laceration
510 Ingestion/Poisoning
520 Psychiatric Problem
530 Stab/Gunshot Wound
540 Traffic Accident
550 Unconscious/Fainting
560 Transfer/Interfacility/Palliative Care

AZ-PIERS Additional Field Value

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>435000</td>
<td>Assault - Sexual</td>
</tr>
<tr>
<td>435001</td>
<td>Intercept</td>
</tr>
<tr>
<td>435002</td>
<td>Medical Alarm</td>
</tr>
<tr>
<td>435003</td>
<td>Medical Transport</td>
</tr>
<tr>
<td>435004</td>
<td>Other</td>
</tr>
<tr>
<td>435005</td>
<td>Overdose</td>
</tr>
<tr>
<td>435006</td>
<td>Pain</td>
</tr>
<tr>
<td>435007</td>
<td>Standby</td>
</tr>
<tr>
<td>435008</td>
<td>Auto vs. Pedestrian</td>
</tr>
<tr>
<td>435009</td>
<td>Machine/equipment Injury</td>
</tr>
<tr>
<td>435010</td>
<td>Respiratory Arrest</td>
</tr>
<tr>
<td>435011</td>
<td>Altered Mental Status</td>
</tr>
<tr>
<td>435012</td>
<td>Invalid Assist/Lifting Assist</td>
</tr>
<tr>
<td>435013</td>
<td>Fire Standby</td>
</tr>
<tr>
<td>435014</td>
<td>HAZMAT Standby</td>
</tr>
</tbody>
</table>

Uses
- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted by the Dispatch Complaint
- Allows data to describe Patient Complaint as reported by Dispatch

Data Collector
- 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

Other Associated Elements
E00 Common Null Values
E01_01 Patient Care Report Number

References to Other Databases
NHTSA EMD Data Elements Chief Complaint Types
Optional
Unit/ Personnel Information
CREW MEMBER ROLE

Data [combo] single-choice

Definition
The role of the crew member during transport of this call.
- Driver is defined as the driver during the time of patient transport or during the response if there was not transport required.
- Primary Patient Care Giver is defined as the individual responsible for the patient care during the transport of the patient, or if no transport, the individual responsible for the assessment and treatment of the patient on scene.
- Secondary Patient Care Giver is defined as the individual assisting the Primary Patient Care Giver.
- Third Patient Care Giver is defined as the individual assisting in the Primary and Secondary Patient Care Givers.

XSD Data Type xs:integer
XSD Domain (Simple Type) CrewMemberRole
Multiple Entry Configuration Yes, via structure
Accepts Null Values Yes
Required in XSD No

XSD Structure: E04_01, E04_02, E04_03 are all members of the E04 Unit Personnel Information structure

Field Values
-25 Not Applicable
-15 Not Reporting
-5 Not Available
585 Primary Patient Caregiver
595 Third Patient Caregiver
580 Driver
590 Secondary Patient Caregiver
600 Other

AZ-PIERS Additional Field Value

<table>
<thead>
<tr>
<th>445000</th>
<th>Fire Company</th>
<th>445003</th>
<th>Ride Along</th>
</tr>
</thead>
<tbody>
<tr>
<td>445001</td>
<td>First Responder</td>
<td>445006</td>
<td>FD Ambulance Medic</td>
</tr>
<tr>
<td>445002</td>
<td>Pilot</td>
<td>445009</td>
<td>Fourth Patient Caregiver</td>
</tr>
</tbody>
</table>

Uses
- A component of the EMS Medical Record: Patient Care Report
- Associates an EMS event with specific EMS personnel
- Useful for reporting EMS personnel statistics related to EMS events and evaluation of EMS personnel performance

Data Collector
- EMS personnel

Other Associated Elements
E00 Common Null Values
E04_01 Crew Member ID
E01_01 Patient Care Report Number
E04_03 Crew Member Level

Optional
CREW MEMBER LEVEL

Data: [combo] single-choice

Definition:
The functioning level of the crew member during this EMS patient encounter.

XSD Data Type: xs:string/integer
XSD Domain (Simple Type): CrewMemberLevel
Multiple Entry Configuration: Yes, via structure
Accepts Null Values: Yes
Required in XSD: No

XSD Structure: E04_01, E04_02, E04_03 are all members of the E04 Unit Personnel Information structure

Field Values:
-25 Not Applicable
-20 Not Recorded
-15 Not Reporting
-10 Not Known
-5 Not Available
640 Other Healthcare Professional
6090 EMT-Basic
6110 EMT-Paramedic
6112 Physician
635 Student
645 Other Non-Healthcare Professional
6100 EMT-Intermediate
6111 Nurse
6120 First Responder

Additional Information:
- Could be auto-filled using Crew Member ID (E04_01) and connecting to State/Licensure ID Number (D07_02) to obtain Personnel’s Highest Level of Certification/Licensure for Agency (D07_05)
- This list can be edited by each state to account for additional certification/licensure levels as defined in (D04_01) and Personnel’s Highest Level of Certification/Licensure for the Agency (D07_05)

Uses:
- A component of the EMS Medical Record: Patient Care Report
- Associates an EMS event with specific EMS personnel
- Useful for reporting EMS personnel statistics related to EMS events and evaluation of EMS personnel performance

Data Collector:
- EMS personnel

Other Associated Elements:
- E00 Common Null Values
- E04_01 Crew Member ID
- E01_01 Patient Care Report Number
- E04_02 Crew Member Role

References in NHTSA Version 1:
- Essential Element 29 Crew Member One Type
- Essential Element 30 Crew Member Two Type
- Desirable Element 31 Crew Member Three Type

References to Other Databases:
- NFIRS 5.0 EMS Module, Title: Highest Level of Provider on Scene by Fire Department, Pick-List: First Responder = 1, EMT-B (Basic) = 2, EMT-I (Intermediate) = 3, EMT-P (Paramedic) = 4, Other Health Care Provider, Include Doctors, Nurses = O, No Care Provided = N
- NFIRS 5.0 EMS Module; Title: Initial Level of FD Provider; Pick-List: First Responder = 1, EMT-B (Basic) = 2, EMT-I (Intermediate) = 3, EMT-P (Paramedic) = 4, Other Health Care Provider, Includes Doctors, Nurses, etc. = O, No Training = N

ARIZONA REQUIRED
INCIDENT OR ONSET DATE/ TIME  

**Data**  
[Date/Time]

**Definition**  
The date/time the injury occurred, or the date/time the symptoms or problem started

**XSD Data Type**  
xs:dateTime

**XSD Domain (Simple Type)**  
DateTime

**Multiple Entry Configuration**  
No

**Accepts Null Values**  
Yes, but null value is blank or empty

**Required in XSD**  
No

**Minimum Constraint**  
1,990

**Maximum Constraint**  
2,030

**Field Values**

**Additional Information**  
● If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used

**Uses**  
● Important to identify when the clinical event started to better analyze EMS resource utilization and outcomes
  ● Provides descriptive information on the use of the EMS agency

**Data Collector**  
● 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

**Other Associated Elements**

**E01_01**  
Patient Care Report Number

**References in NHTSA Version 1**

Desirable Element 06 Onset Date

Desirable Element 07 Onset Time

**References to Other Databases**

● NFIRS 5.0 Basic Module 1; Title: Incident Date; Date Field defined as YYYYMMDD or blank

**NOTES:**  
- Per NEMSIS, if Onset Date/Time not known for Stroke patient or Potential Stroke patient, enter last time patient was known to be well. See instructions for using E05_01 for Stroke patients:
  o “If time of symptom onset unknown, when was the person last known symptom free in 24 hour format”

**ARIZONA REQUIRED**
PSAP CALL DATE/TIME

Data [date/time] National Element

Definition
The date/time the phone rings (911 call to public safety answering point or other designated entity) requesting EMS services.

XSD Data Type xs:dateTime XSD Domain (Simple Type) DateTime
Multiple Entry Configuration No Accepts Null Values Yes, but null value is blank or empty
Required in XSD Yes Minimum Constraint 1,990 Maximum Constraint 2,030

Field Values

Additional Information
● If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used

Uses
● A component of the EMS Medical Record: Patient Care Report
● Allows data to be sorted based on Date and Time
● Allows data to describe EMS use by Date and Time, Day of the Week, etc

Data Collector
● 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

Other Associated Elements
E01_01 Patient Care Report Number

References in NHTSA Version 1
Essential Element 08 Date Incident Reported
Essential Element 09 Time Incident Reported

References to Other Databases
● NFIRS 5.0 EMS Module; Title: Incident Date; The date the Fire Department received the incident alarm

ARIZONA REQUIRED
**DISPATCH NOTIFIED DATE/ TIME**

**Data**  
[date/time]

**Definition**  
The date/time dispatch was notified by the 911 call taker (if a separate entity)

**XSD Data Type**  
xs:dateTime

**XSD Domain (Simple Type)**  
DateTime

**Multiple Entry Configuration**  
No

**Accepts Null Values**  
Yes, but null value is blank or empty

**Required in XSD**  
No

**Minimum Constraint**  
1,990

**Maximum Constraint**  
2,030

**Field Values**

**Additional Information**
- If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used

**Uses**
- Provides information on how EMS requests are progressing through the PSAP and Dispatch Centers
- Used in the Quality Management evaluation of the PSAP and Dispatch Centers

**Data Collector**
- 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

**Other Associated Elements**
- E01_01 Patient Care Report Number

**References in NHTSA Version 1**
- Essential Element 10 Time Dispatch Notified

**ARIZONA REQUIRED**
UNIT NOTIFIED BY DISPATCH DATE/TIME

Data [date/time] National Element

Definition The date the responding unit was notified by dispatch

XSD Data Type xs:dateTime XSD Domain (Simple Type) DateTime
Multiple Entry Configuration No Accepts Null Values No
Required in XSD Yes Minimum Constraint 1,990 Maximum Constraint 2,030

Field Values

Additional Information
● If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used
● Not Nullable. A unique value must be provided to create a unique record ID within a database

Uses
● A component of the EMS Medical Record: Patient Care Report
● Allows data to be sorted based on EMS agency time intervals
● Allows data to describe EMS agency time intervals

Data Collector
● 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

Other Associated Elements
E01_01 Patient Care Report Number

References in NHTSA Version 1
Essential Element 11 Date Unit Notified
Essential Element 12 Time Unit Notified

ARIZONA REQUIRED
UNIT EN ROUTE DATE/TIME

**Definition**
The date/time the unit responded; that is, the time the vehicle started moving.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:dateTime</th>
<th>XSD Domain (Simple Type)</th>
<th>DateTime</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Values</td>
<td>Yes, but null value is blank or empty</td>
</tr>
</tbody>
</table>

- **Required in XSD**: Yes
- **Minimum Constraint**: 1,990
- **Maximum Constraint**: 2,030

**Field Values**

**Additional Information**
- If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used.

**Uses**
- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on EMS agency time intervals
- Allows data to describe EMS agency time intervals

**Data Collector**
- 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

**Other Associated Elements**
- E01_01 Patient Care Report Number

**References in NHTSA Version 1**
- Essential Element 13 Time Unit Responding

ARIZONA REQUIRED
UNIT ARRIVED ON SCENE DATE/TIME

**Data** [date/time]  

**National Element**

**Definition**
The date/time the responding unit arrived on the scene; that is, the time the vehicle stopped moving

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:dateTime</th>
<th>XSD Domain (Simple Type)</th>
<th>DateTime</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Values</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Required in XSD** Yes

**Minimum Constraint** 1,990

**Maximum Constraint** 2,030

**Field Values**

**Additional Information**
- If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used

**Uses**
- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on EMS agency time intervals
- Allows data to describe EMS agency time intervals

**Data Collector**
- 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

**Other Associated Elements**
- E01_01 Patient Care Report Number

**References in NHTSA Version 1**
- Essential Element 14 Time of Arrival at Scene

**ARIZONA REQUIRED**
ARIVED AT PATIENT DATE/TIME

Data [date/time] National Element

Definition
The date/time the responding unit arrived at the patient's side

XSD Data Type xs:dateTime XSD Domain (Simple Type) DateTime
Multiple Entry Configuration No Accepts Null Values Yes, but null value is blank or empty
Required in XSD Yes Minimum Constraint 1,990 Maximum Constraint 2,030

Field Values

Additional Information
● If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used

Uses
● Provides more accurate information on the true response time of EMS to the patient’s side
● Used in Quality Management evaluation of EMS response and performance especially in areas where patient location may be distant from the EMS vehicle

Data Collector
● 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

Other Associated Elements
E01_01 Patient Care Report Number

References in NHTSA Version 1
Essential Element 15 Time of Arrival at Patient

References to Other Databases
● NFIRS 5.0 EMS Module; Title: Date/Time Arrived; The date and time fire fighters arrived at the patient.

ARIZONA REQUIRED
TRANSFER OF PATIENT CARE DATE/TIME

Data [date/time]

Definition
The date/time the patient was transferred from this EMS agency to another EMS agency for care.

XSD Data Type xs:dateTime
XSD Domain (Simple Type) DateTime
Multiple Entry Configuration No
Accepts Null Values Yes, but null value is blank or empty
Required in XSD No
Minimum Constraint 1,990
Maximum Constraint 2,030

Field Values

Additional Information
● If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used

Uses
● Important for Quality Management when the patient is cared for by more than one EMS agency
● Provides documentation of how the patient progresses through the EMS agency

Data Collector
● 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

Other Associated Elements
E01_01 Patient Care Report Number

References to Other Databases
● NFIRS 5.0 EMS Module; Title: Date/Time Transfer; The date and time fire fighters transferred the care of the

ARIZONA REQUIRED
UNIT LEFT SCENE DATE/ TIME

**National Element**

**Data**  
[date/time]

**Definition**  
The date/time the responding unit left the scene (started moving)

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:dateTime</th>
<th>XSD Domain (Simple Type)</th>
<th>DateTime</th>
<th>Accepts Null Values</th>
<th>Yes, but null value is blank or empty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Required in XSD**  
Yes

**Minimum Constraint**  
1,990

**Maximum Constraint**  
2,030

**Field Values**

**Additional Information**
- If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used

**Uses**
- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on EMS agency time intervals
- Allows data to describe EMS agency time intervals

**Data Collector**
- 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

**Other Associated Elements**
- E01_01  Patient Care Report Number

**References in NHTSA Version 1**
- Essential  Element 16  Time Unit Left Scene

ARIZONA REQUIRED
Receiving Hospital Contacted Date/Time (for STEMI or STROKE)

**Data**  
datetime

**Definition**  
The date/time the receiving hospital was contacted

**NI SE Prefix** 1016

NOT Compatible with E23_11 & E23_09

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>datetime</th>
<th>XSD Domain (Simple Type)</th>
<th>Accepts Null Values</th>
<th>Required in XSD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td></td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**

**Uses**

Data Collector

**Other Associated Elements**

**Additional Information** Unavailable for 3rd party software users until October 2013. Required for all users January 2014.

**ARIZONA REQUIRED** (part of Stroke/ASPIRE, STEMI)
PATIENT ARRIVED AT DESTINATION DATE/TIME

Data [date/time]  National Element

Definition The date/time the responding unit arrived with the patient at the destination or transfer point

XSD Data Type xs:dateTime  XSD Domain (Simple Type) DateTime
Multiple Entry Configuration No  Accepts Null Values Yes, but null value is blank or empty

Required in XSD Yes  Minimum Constraint 1,990  Maximum Constraint 2,030

Field Values

Additional Information
● If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used

Uses
● A component of the EMS Medical Record: Patient Care Report
● Allows data to be sorted based on EMS agency time intervals
● Allows data to describe EMS agency time intervals

Data Collector
● 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

Other Associated Elements
E01_01 Patient Care Report Number

References in NHTSA Version 1
Essential Element 17 Time of Arrival at Destination

ARIZONA REQUIRED
**Patient Released to Destination Staff Date/Time**

**Data** [date/time]

**Definition**
The date/time the responding unit transferred care of the patient to hospital staff.

**NI SE Prefix** 375

**Compatible with E23_11 & E23_09**

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:dateTime</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSD Domain</td>
<td>Simple Type</td>
</tr>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Accepts Null Values</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Field Values**

**Additional Information**
Some agencies may already be collecting this as their “Unit Back In Service Date/Time”, if the agency has defined back in service as the time the transfer of patient care occurs.

**Uses**
Used in conjunction with “Patient Arrived at Destination Date/Time” to calculate a Patient Off-Load time.

**Data Collector**

**Other Associated Elements**

**ARIZONA REQUIRED**
UNIT BACK IN SERVICE DATE/TIME

Data [date/time] National Element

Definition
The date/time the unit back was back in service and available for response (finished with call, but not necessarily back in home location)

XSD Data Type xs:dateTime XSD Domain (Simple Type) DateTime
Multiple Entry Configuration No Accepts Null Values No
Required in XSD Yes Minimum Constraint 1,990 Maximum Constraint 2,030

Field Values

Additional Information
● If the date/time is electronically stored within a database or transmitted via XML as a "tick", the referenced variables may also be used

Uses
● A component of the EMS Medical Record: Patient Care Report
● Allows data to be sorted based on EMS agency time intervals
● Allows data to describe EMS agency time intervals

Data Collector
● 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

Other Associated Elements
E01_01 Patient Care Report Number

References in NHTSA Version 1
Essential Element 18 Time Back in Service

ARIZONA REQUIRED
LAST NAME

E06_01

Data [text]

Definition
The patient's last (family) name

XSD Data Type xs:string XSD Domain (Simple Type) LastName

Multiple Entry Configuration No Accepts Null Values Yes

Required in XSD No Minimum Constraint 2 Maximum Constraint 20

XSD Structure: E06_01, E06_02, and E06_03 are all members of the E06_01_0 Patient Name Structure

Field Values
-25 Not Applicable -20 Not Recorded
-15 Not Reporting -10 Not Known
-----5 Not Available

Additional Information
● Local Policy should dictate how Last Name and First Name should be created if Unknown

Uses
● Allows a patient’s information to be stored and retrieved by Name
● Key component of an EMS Medical Record
● Provides contact information for multiple purposes including follow-up, billing, bioterrorism syndromic surveillance, etc

Data Collector
● EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

Other Associated Elements
E00 Common Null Values E01_01 Patient Care Report Number
E06_02 First Name E06_03 Middle Initial/Name

References in NHTSA Version 1
Essential Element 32 Patient Name

ARIZONA REQUIRED
FIRST NAME

Data [text]

Definition The patient's first (given) name

XSD Data Type xs:string XSD Domain (Simple Type) FirstName
Multiple Entry Configuration No Accepts Null Values Yes
Required in XSD No Minimum Constraint 1 Maximum Constraint 20
XSD Structure: E06_01, E06_02, and E06_03 are all members of the E06_01_0 Patient Name Structure

Field Values
-25 Not Applicable
-15 Not Reporting
------ Not Available

Additional Information
● Local Policy should dictate how Last Name and First Name should be created if Unknown

Uses
● Allows a patient’s information to be stored and retrieved by Name
● Key component of an EMS Medical Record
● Provides contact information for multiple purposes including follow-up, billing, bioterrorism syndromic surveillance, etc

Data Collector
● EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

Other Associated Elements

<table>
<thead>
<tr>
<th>E00</th>
<th>Common Null Values</th>
<th>E01_01</th>
<th>Patient Care Report Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>E06_01</td>
<td>Last Name</td>
<td>E06_03</td>
<td>Middle Initial/Name</td>
</tr>
</tbody>
</table>

References in NHTSA Version 1
Essential Element 32 Patient Name

ARIZONA REQUIRED
PATIENT'S HOME ADDRESS

Data [text]

Definition
The patient's home mailing or street address

XSD Data Type xs:string
XSD Domain (Simple Type) StreetAddress
Multiple Entry Configuration No
Accepts Null Values Yes
Required in XSD No
Minimum Constraint 2
Maximum Constraint 30

XSD Structure: E06_04, E06_05, E06_06, E06_07, E06_08 are all members of the E06_04_0 Patient Address Structure

Field Values
-25 Not Applicable
-15 Not Reporting
---5 Not Available

-20 Not Recorded
-10 Not Known

Uses
● Key component of an EMS Medical Record
● Provides contact information for multiple purposes including follow-up, billing, bioterrorism syndromic surveillance, etc

Data Collector
● EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

Other Associated Elements
E00 Common Null Values E01_01 Patient Care Report Number
E06_01 Last Name E06_05 Patient's Home City
E06_06 Patient's Home County E06_07 Patient's Home State
E06_08 Patient's Home Zip Code

References in NHTSA Version 1
Desirable Element 33 Patient Street Address

ARIZONA REQUIRED
PATIENT'S HOME CITY

**Data**
[combo] single-choice

**Definition**
The patient's home city or township or residence

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:string</th>
<th>XSD Domain (Simple Type)</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Values</td>
<td>Yes</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>No</td>
<td>Minimum Constraint</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Maximum Constraint</td>
<td>30</td>
</tr>
</tbody>
</table>

XSD Structure: E06_04, E06_05, E06_07, E06_08 are all members of the E06_04_0 Patient Address Structure

**Field Values**
-25 Not Applicable
-15 Not Reporting
-10 Not Known
-5 Not Available

**Additional Information**
- 5 digit FIPS Code
- Could be filled in from Patient’s Home Zip (E06_08)

**Uses**
- Key component of an EMS Medical Record
- Provides contact information for multiple purposes including follow-up, billing, bioterrorism syndromic surveillance, etc

**Data Collector**
- EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

**Other Associated Elements**
- E00 Common Null Values
- E06_01 Last Name
- E06_06 Patient’s Home County
- E06_08 Patient’s Home Zip Code
- E01_01 Patient Care Report Number
- E06_04 Patient’s Home Address
- E06_07 Patient’s Home State

**References in NHTSA Version 1**
Desirable Element 34 City of Residence

ARIZONA REQUIRED
PATIENT'S HOME COUNTY

Data [combo] single-choice

Definition
The patient's home county or parish or residence

XSD Data Type xs:string
XSD Domain (Simple Type) County
Multiple Entry Configuration No
Accepts Null Values Yes
Required in XSD No
Minimum Constraint 2
Maximum Constraint 20

Field Values
-25 Not Applicable
-15 Not Reporting
-10 Not Known
-5 Not Available

-20 Not Recorded

Additional Information
● Stored as a 5 digit FIPS code (combining the state and county code) to take into account agencies may server more than one state and counties are often named the same from state to state

Uses
● Key component of an EMS Medical Record
● Provides contact information for multiple purposes including follow-up, billing, bioterrorism syndromic surveillance, etc

Data Collector
● EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

Other Associated Elements
E00 Common Null Values
E06_01 Last Name
E06_05 Patient's Home City
E06_08 Patient's Home Zip Code

References in NHTSA Version 1
Desirable Element 35 County of Residence

ARIZONA REQUIRED
PATIENT'S HOME STATE

Data [combo] single-choice

Definition
The patient's home state, territory, or province, or District of Columbia, where the patient resides

XSD Data Type xs:string
XSD Domain (Simple Type) State
Multiple Entry Configuration No
Accepts Null Values Yes

Required in XSD No
Minimum Constraint 2
Maximum Constraint 3

XSD Structure: E06_04, E06_05, E06_06, E06_07, E06_08 are all members of the E06_04_0 Patient Address Structure

Field Values
-25 Not Applicable
-20 Not Recorded
-15 Not Reporting
-10 Not Known
-05 Not Available

Additional Information
● 2 digit FIPS numeric code (Not State abbreviation)
● Could be filled in from Patient's Home Zip (E06_08)

Uses
● Key component of an EMS Medical Record
● Provides contact information for multiple purposes including follow-up, billing, bioterrorism syndromic surveillance, etc

Data Collector
● EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

Other Associated Elements
E00 Common Null Values
E06_01 Last Name
E06_05 Patient's Home City
E06_08 Patient's Home Zip Code

References in NHTSA Version 1
Desirable Element 36 State of Residence

ARIZONA REQUIRED
PATIENT'S HOME ZIP CODE

E06_08

Definition
The patient's home ZIP code of residence

XSD Data Type    xs:string  XSD Domain (Simple Type)    Zip
Multiple Entry Configuration    No  Accepts Null Values    Yes
Required in XSD    Yes

XSD Structure: E06_04, E06_05, E06_07, E06_08 are all members of the E06_04_0 Patient Address Structure

Field Values
-25 Not Applicable
-15 Not Reporting
-10 Not Known
-0 Not Available

Additional Information
● Can be stored as a 5 or 9 digit code

Uses
● Allows data to be sorted based on the geographic location of the patient's home
● Allows data to describe geographic location of the patient's home
● Key component of an EMS Medical Record
● Provides contact information for multiple purposes including follow-up, billing, bioterrorism syndromic surveillance, etc

Data Collector
● EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

Other Associated Elements
E00     Common Null Values
E06_01     Last Name
E06_05     Patient's Home City
E06_07     Patient's Home State
E06_04     Patient's Home Address
E06_06     Patient's Home County
E01_01     Patient Care Report Number

References in NHTSA Version 1
Essential Element 37 Zip Code of Residence

ARIZONA REQUIRED
PATIENT’S HOME COUNTRY

Data [combo] single-choice

Definition The patient’s country of citizenship

XSD Data Type xs:string  XSD Domain (Simple Type) Country
Multiple Entry Configuration No  Accepts Null Values Yes
Required in XSD No  Minimum Constraint 2  Maximum Constraint 20

Field Values
-25 Not Applicable  -20 Not Recorded
-15 Not Reporting  -10 Not Known
-5 Not Available

Additional Information
● Stored as a FIPS code

Uses
● Key component of an EMS Medical Record
● Provides contact information for multiple purposes including follow-up, billing, bioterrorism syndromic surveillance, etc

Data Collector
● EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

Other Associated Elements
E00 Common Null Values  E01_01 Patient Care Report Number
E06_01 Last Name

ARIZONA REQUIRED
SOCIAL SECURITY NUMBER

Data [number]

Definition The patient's social security number

XSD Data Type xs:string XSD Domain (Simple Type) SocialSecurityNumber
Multiple Entry Configuration No Accepts Null Values Yes
Required in XSD No Minimum Constraint 2 Maximum Constraint 9

Field Values
-25 Not Applicable
-15 Not Reporting
-10 Not Known
-5 Not Available

Uses
- Key component of an EMS Medical Record

Data Collector
- EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

Other Associated Elements
E00 Common Null Values E06_01 Last Name
E01_01 Patient Care Report Number

References in NHTSA Version 1
Desirable Element 39 Social Security Number

ARIZONA REQUIRED
GENDER

Definition
The patient's gender

XSD Data Type       xs:integer       XSD Domain (Simple Type) Gender
Multiple Entry Configuration No                        Accepts Null Values Yes
Required in XSD Yes

Field Values
-25 Not Applicable
-15 Not Reporting
-10 Not Known
-5 Not Available
650 Male
655 Female

Uses
● A component of the EMS Medical Record: Patient Care Report
● Allows data to be sorted based on gender
● Allows data to describe the gender of the EMS patient population

Data Collector
● EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

Other Associated Elements
E00 Common Null Values
E06_01 Last Name

References in NHTSA Version 1
Essential Element 42 Gender

References to Other Databases
● NFIRS 5.0 EMS Module; Title: Gender; Pick-List: Male = 1, Female = 2

ARIZONA REQUIRED
RACE

Data [combo] single-choice

Definition
The patient's race as defined by the OMB (US Office of Management and Budget)

XSD Data Type xs:integer XSD Domain (Simple Type) Race
Multiple Entry Configuration No Accepts Null Values Yes
Required in XSD Yes

Field Values
-25 Not Applicable -20 Not Recorded
-15 Not Reporting -10 Not Known
-5 Not Available
660 American Indian or Alaska Native
665 Asian
670 Black or African American
675 Native Hawaiian or Other Pacific Islander
680 White
685 Other Race

Uses
● A component of the EMS Medical Record: Patient Care Report
● Allows data to be sorted based on race as required from a state and federal government reporting perspective
● Allows data to describe the race of the EMS patient population

Data Collector
● EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

Other Associated Elements
E00 Common Null Values
E01_01 Patient Care Report Number
E06_01 Last Name

References in NHTSA Version 1
Essential Element 43 Race/Ethnicity

References to Other Databases
● NFIRS 5.0 EMS Module; Title: Race; Pick-List: White = 1, Black = 2, American Indian, Eskimo, Aleut = 3, Asian = 4, Other, Multi-racial = 0, Race Undetermined = U

NEMSIS Extended Definitions:
White - A person having origins in any of the original peoples of Europe, the Middle East, or North Africa. It includes people who indicate their race as "White" or indicate heritage such as Irish, German, Italian, Lebanese, Near Easterner, Arab, or Polish.

Black or African American - A person having origins in any of the Black racial groups of Africa. It includes people who indicate their race as "Black, African Am., or Negro,"or indicate heritage such as African American, Afro American, Kenyan, Nigerian, or Haitian.

American Indian and Alaska Native - A person having origins in any of the original peoples of North and South America (including Central America) and who maintain tribal affiliation or community attachment.

Asian - A person having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent including, for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Thailand, and Vietnam. It includes "Asian Indian," "Chinese," "Filipino," "Korean," "Japanese," "Vietnamese," and "Other Asian."

Native Hawaiian or Other Pacific Islander - A person having origins in any of the original peoples of Hawaii, Guam, Samoa, or other.

Pacific Islands - It includes people who indicate their race as "Native Hawaiian," "Guamanian or Chamorro," "Samoan," and "Other Pacific Islander."

ARIZONA REQUIRED
**ETHNICITY**

**Data** [combo] single-choice

**National Element**

**Definition**
The patient's ethnicity as defined by the OMB (US Office of Management and Budget)

**XSD Data Type** xs:integer  
**XSD Domain (Simple Type)** Ethnicity

**Multiple Entry Configuration** No  
**Accepts Null Values** Yes

**Required in XSD** Yes

**Field Values**

-25 Not Applicable  
-20 Not Recorded  
-15 Not Reporting  
-10 Not Known  
-5 Not Available  
690 Hispanic or Latino

**695 Not Hispanic or Latino**

**Uses**

- A component of the EMS Medical Record: Patient Care Report  
- Allows data to be sorted based on ethnicity as required from a state and federal government reporting perspective  
- Allows data to describe the ethnicity of the EMS patient population

**Data Collector**

- EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

**Other Associated Elements**

E00 Common Null Values  
E01_01 Patient Care Report Number  
E06_01 Last Name

**References in NHTSA Version 1**

Essential Element 43 Race/Ethnicity

**References to Other Databases**

- NFIRS 5.0 EMS Module; Title: Ethnicity; Check-Box: Hispanic = Yes or No

**NEMSIS Extended Definitions:**

*Hispanic or Latino* - A person of Cuban, Mexican, Puerto Rican, South or Central American or other Spanish culture or origin regardless of race.

*Not Hispanic or Latino* - A person not of Cuban, Mexican, Puerto Rican, South or Central American or other Spanish culture or origin regardless of race.

**ARIZONA REQUIRED**
AGE

E06_14

Data [number] National Element

Definition
The patient's age (either calculated from date of birth or best approximation)

XSD Data Type xs:integer XSD Domain (Simple Type) Age
Multiple Entry Configuration No Accepts Null Values Yes, but null value is blank or empty
Required in XSD Yes Minimum Constraint 1 Maximum Constraint 120
XSD Structure: E06_14 and E06_15 are members of the E06_14_0 Patient's Age Structure

Additional Information
● Could be calculated from Date of Birth (E06_16)

Uses
● A component of the EMS Medical Record: Patient Care Report
● Allows data to be sorted based on age
● Allows data to describe the age of the EMS patient population

Data Collector
● EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

Other Associated Elements
E01_01 Patient Care Report Number E06_01 Last Name
E06_15 Age Units

References in NHTSA Version 1
Desirable Element 41 Age

References to Other Databases
● NFIRS 5.0 EMS Module; Title: Age; The age of the patient or best approximation. If less than one year then enter the number of months.

NEMSIS Extended Definitions:
Calculated from Date of Birth; if DOB not available, ask age; if not possible, then approximate age.

ARIZONA REQUIRED
AGE UNITS

**National Element**

**E06_15**

**Data**
[combo] single-choice

**Definition**
The units which the age is documented in (Hours, Days, Months, Years)

**XSD Data Type**  xs:integer  
**XSD Domain (Simple Type)**  AgeUnits

**Multiple Entry Configuration**  No

**Accepts Null Values**  Yes

**Required in XSD**  Yes

XSD Structure: E06_14 and E06_15 are members of the E06_14_0 Patient’s Age Structure

**Field Values**
-25  Not Applicable  
-15  Not Reporting  
-10  Not Known  
-5  Not Available  
705  Days  
710  Months  
715  Years

**Uses**
- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on age
- Allows data to describe the age of the EMS patient population

**Data Collector**
- EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

**Other Associated Elements**
- E00  Common Null Values
- E06_14  Age

**References in NHTSA Version 1**
Desirable  Element 41  Age

---

**ARIZONA REQUIRED**
DATE OF BIRTH

Data [date]

**Definition**
The patient's date of birth

**XSD Data Type** xs:date  **XSD Domain (Simple Type)** DateOfBirth
**Multiple Entry Configuration** No  **Accepts Null Values** No
**Required in XSD** No  **Minimum Constraint** 1,890  **Maximum Constraint** 2,030

**Field Values**

**Uses**
- Key component of an EMS Medical Record
- Provides important information which will allow EMS data to be sorted, grouped and evaluated by age demographics

**Data Collector**
- EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

**Other Associated Elements**
- E01_01 Patient Care Report Number
- E06_01 Last Name

**References in NHTSA Version 1**
Essential Element 40 Date of Birth

**References to Other Databases**
- NFIRS 5.0 EMS Module; Title: Date of Birth; The date of birth of the patient in MMDDYYYY format.

ARIZONA REQUIRED
Billing
**Primary Method of Payment**

**Definition**
The primary method of payment or type of insurance associated with this EMS encounter.

**XSD Data Type**  xs:integer  **XSD Domain (Simple Type)**  PrimaryMethodOfPayment

**Multiple Entry Configuration**  No  **Accepts Null Values**  Yes

**Required in XSD**  Yes

**Field Values**
-25 Not Applicable
-15 Not Reporting
-10 Not Known
-5 Not Available
720 Insurance
725 Medicaid
730 Medicare
735 Not Billed (for any reason)
740 Other Government
745 Self Pay
750 Workers Compensation

**Uses**
- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the payer mix
- Allows data to describe the EMS patient population's payer mix

**Data Collector**
- EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

**Other Associated Elements**
- **E00**  Common Null Values
- **E01_01**  Patient Care Report Number
- **E06_01**  Last Name

**NEMSIS Extended Definitions:**

*Note - This element is not about what insurance the patient has, but rather how your agency will be reimbursed for this incident.*

**Commercial Insurance** - Use this value if this incident will be billed to a commercial insurance plan such as health insurance or auto insurance that is paid for privately by the patient, the patient's family, or the patient's employer (excluding Worker's Compensation).

**Medicaid** - Use this value if this incident will be billed to Medicaid, the state/federal program that pays for medical assistance for individuals and families with low incomes and resources.

**Medicare** - Use this value if this incident will be billed to Medicare, the federal health insurance program for people 65 and older, or persons under 65 with certain disabilities.

**Not Billed (for any reason)** - Use this value if the patient will not be billed at all for this incident.

**Other Government (not Medicare, Medicaid, or Worker's Comp)** - Use this value if this incident will be billed to a government insurance policy besides Medicare, Medicaid, or Worker's Compensation.

**Self Pay / Patient Has No Insurance** - Use this value if this incident will be billed to the patient directly, or if the patient has no insurance policy that will pay for this incident.

**Worker's Compensation** - Use this value if this incident will be billed to Worker's Compensation.

**Not Applicable** - (e.g.; agency never bills for service or if the call is non-billable).

**Not Recorded** - Use this value if this incident will be billed but the type of insurance is not known.

*was “Not Available” in extended NEMSIS definitions, but AZ-PIERS does not accept “Not Available” and NEMSIS protocol is to map to “Not Recorded” in NEMSIS 3.*

**Arizona Required**
The condition codes are used to better describe the service and patient care delivery by an EMS service. Please consult CMS documentation for detailed descriptions of these condition codes and their use.

**XSD Data Type** | xs:string
---|---
**XSD Domain (Simple Type)** | ConditionCodeNumber
**Multiple Entry Configuration** | Yes, via structure
**Accepts Null Values** | Yes
**Required in XSD** | Yes
**Minimum Constraint** | 2
**Maximum Constraint** | 30

**Field Values**

-25 Not Applicable

-15 Not Reporting

-10 Not Known

-5 Not Available

8002 Abdominal Pain (ALS-789.00)

8004 Abnormal Skin Signs (ALS-780.8)

8006 Allergic Reaction (ALS-995.0)

8008 Blood Glucose (ALS-790.21)

8010 Difficulty Breathing (ALS-786.05)

8012 Chest Pain (non-traumatic) (ALS-786.50)

8014 Cold Exposure (ALS-991.6)

8016 Altered Level of Consciousness (non-traumatic) (ALS-780.01)

8018 Eye Symptoms (non-traumatic) (BLS-379.90)

8020 Cardiac Symptoms other than Chest Pain (palpitations) (ALS-785.1)

8022 Heat Exposure (ALS-992.5)

8024 Hemorrhage (ALS-459.0)

8026 Hazmat Exposure (ALS-987.9)

8028 Medical Device Failure (BLS-996.3)

8030 Pain (Severe) (ALS-780.99)

8032 Back Pain (non-traumatic with neurologic symptoms) (ALS-724.9)

8034 Alcohol Intoxication or Drug Overdose (BLS-305.0)

8036 Post-Operative Procedure Complications (BLS-998.9)

8038 Psychiatric/Behavioral (abnormal mental status) (ALS-292.9)

8040 Sick Person-Fever (BLS-036.9)

8042 Unconscious/Syncope/Dizziness (ALS-780.02)

8044 Other Trauma (need for monitor or airway) (ALS-518.5)

8046 Other Trauma (fracture/dislocation) (BLS-829.0)

8048 Other Trauma (amputation digits) (BLS-886.0)

8050 Other Trauma (suspected internal injuries) (ALS-869.0)

8052 Burns-Minor (BLS-949.2)

8054 Animal Bites/Sting/Envenomation (BLS-879.8)

8056 Electroocution (ALS-994.8)

8058 Eye Injuries (BLS-921.9)

8060 Sexual Assault (minor injuries) (BLS-995.8)

8062 Advanced Airway Management (ALS-518.81)

8064 Chemical Restraint (ALS-293.0)

8066 Airway Control/Positioning Required (BLS-786.09)

8068 Patient Safety (restraints required) (BLS-298.9)

8070 Major Trauma (ALS-959.8)

8072 Other Trauma (major bleeding) (ALS-958.2)

8074 Other Trauma (penetrating extremity) (BLS-880.0)

8076 Other Trauma (amputation other) (ALS-887.4)

8078 Burns-Major (ALS-949.3)

8080 Animal Bites/Sting/Envenomation (BLS-989.5)

8082 Lightning (ALS-994.0)

8084 Near Drowning (ALS-994.1)

8086 Severe Alcohol Intoxication (ALS-977.3)

8088 Pregnancy Complication/Childbirth/Labor (ALS-650.0)

8090 Psychiatric/Behavioral (threat to self or others) (BLS-298.9)

8092 Severe Dehydration (ALS-787.01)

8094 Major Trauma (ALS-959.8)

8096 Other Trauma (major bleeding) (ALS-958.2)

8098 Other Trauma (penetrating extremity) (BLS-880.0)

8100 Other Trauma (amputation other) (ALS-887.4)

8102 Burns-Major (ALS-949.3)

8104 Animal Bites/Sting/Envenomation (BLS-989.5)

8106 Lightning (ALS-994.0)

8108 Near Drowning (ALS-994.1)

8110 Severe Alcohol Intoxication (ALS-995.83)

8112 Cardiac/Hemodynamic Monitoring Required (ALS-428.9)

8114 IV Meds Required (ALS-No ICD code provided)

8116 Suctioning/Oxygen/IV fluids required (BLS-496.0)

8118 Third Party Assistance/Attendant Required (BLS-496.0)

8120 Patient Safety (monitoring required) (BLS-293.1)
Additional Information
• A list of 95 Condition Codes which are mapped to ICD-9 Codes. At this time the Condition Code List is still in draft.
  The number of the Condition Code should be stored in this field
• From the Center for Medicare and Medicaid Services (CMS) Ambulance Fee Schedule Condition Based Coding

Uses
• Allows data to be quantified and described based on the Condition Code
• Allows data to be sorted based on the Condition Code
• Important for EMS billing

Data Collector
• EMS personnel unless the EMS Agency has professional billing personnel to provide this function

Other Associated Elements
E00 Common Null Values   E01_01 Patient Care Report Number
E07_36 ICD-9 Code for the Condition Code Number   E07_37 Condition Code Modifier

ARIZONA REQUIRED
ICD-9 CODE FOR THE CONDITION CODE NUMBER

Data [text]

Definition
The ICD-9 Code assigned by CMS for the condition code documented in E7.35. Please consult CMS documentation for detailed descriptions of the Condition Codes and their use.

XSD Data Type xs:string XSD Domain (Simple Type) ICD9CodeForConditionCode
Multiple Entry Configuration Yes, via structure Accepts Null Values Yes
Required in XSD No Minimum Constraint 2 Maximum Constraint 30
XSD Structure: E07_35, E07_36 are members of E07_35_0 Condition Codes Structure

Field Values
-25 Not Applicable -20 Not Recorded
-15 Not Reporting -10 Not Known
-05 Not Available

Additional Information
● From the Center for Medicare and Medicaid Services (CMS) Ambulance Fee Schedule Condition Based Coding
● Should be automatically filled in based on the Condition Code Number (E07_35)

Uses
● Allows data to be quantified and described based on the Condition Code
● Allows data to be sorted based on the Condition Code
● Important for EMS billing

Data Collector
● EMS personnel unless the EMS Agency has professional billing personnel to provide this function

Other Associated Elements
E00 Common Null Values E01_01 Patient Care Report Number
E07_35 Condition Code Number E07_37 Condition Code Modifier

ARIZONA REQUIRED
**CONDI T I ON CODE MODIFIER**

**Data**
[combo] multiple-choice

**Definition**
The CMS Condition Code Modifier is used to better describe the EMS ground or air medical services response and service delivery. Please consult CMS documentation for detailed descriptions of these modifiers and their use.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSD Domain (Simple Type)</td>
<td>AirAmbulanceModifier</td>
</tr>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes</td>
</tr>
<tr>
<td>Accepts Null Values</td>
<td>Yes</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>No</td>
</tr>
</tbody>
</table>

**Field Values**

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-25</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>-15</td>
<td>Not Reporting</td>
</tr>
<tr>
<td>-10</td>
<td>Not Known</td>
</tr>
<tr>
<td>-5</td>
<td>Not Available</td>
</tr>
<tr>
<td>1035</td>
<td>A-Interfacility Transport (requires higher level of care)</td>
</tr>
<tr>
<td>1036</td>
<td>B-Interfacility Transport (service not available)</td>
</tr>
<tr>
<td>1037</td>
<td>C-ALS Response to BLS Patient</td>
</tr>
<tr>
<td>1038</td>
<td>D-Medically Necessary Transport (Not Nearest Facility)</td>
</tr>
<tr>
<td>1039</td>
<td>E-BLS Transport of ALS Patient</td>
</tr>
<tr>
<td>1040</td>
<td>F-Emergency Trauma Dispatch Condition Code (patient is BLS)</td>
</tr>
<tr>
<td>1041</td>
<td>Air-A-Long Distance</td>
</tr>
<tr>
<td>1042</td>
<td>Air-B-Traffic Precludes Ground Transport</td>
</tr>
<tr>
<td>1043</td>
<td>Air-C-Time Precludes Ground Transport</td>
</tr>
<tr>
<td>1044</td>
<td>Air-D-Pick up Point not Accessible by Ground Transport</td>
</tr>
</tbody>
</table>

**Additional Information**

- From the Center for Medicare and Medicaid Services (CMS) Ambulance Fee Schedule Condition Based Coding
- This coding system is character based to match the CMS Modifier Condition Code

**Uses**

- Allows data to be quantified and described based on the Condition Code
- Allows data to be sorted based on the Condition Code
- Important for EMS billing

**Data Collector**

- EMS personnel unless the EMS Agency has professional billing personnel to provide this function

**Other Associated Elements**

- **E00** Common Null Values
- **E01_01** Patient Care Report Number

**ARIZONA REQUIRED**
INCIDENT LOCATION TYPE

**Definition**
The kind of location where the incident happened.

**XSD Data Type** xs:integer  **XSD Domain (Simple Type)** IncidentLocationType

**Multiple Entry Configuration** No  **Accepts Null Values** Yes

**Required in XSD** Yes

**Field Values**
- 25 Not Applicable
- 15 Not Reporting
- 5 Not Available
- 1140 Farm
- 1150 Industrial Place and Premises
- 1160 Street or Highway
- 1170 Trade or service (business, bars, restaurants, etc)
- 1180 Residential Institution (Nursing Home, jail/prison)
- 1190 Other Location
- 20 Not Recorded
- 10 Not Known
- 1135 Home/Residence
- 1145 Mine or Quarry
- 1155 Place of Recreation or Sport
- 1165 Public Building (schools, gov. offices)
- 1175 Health Care Facility (clinic, hospital, nursing home)
- 1185 Lake, River, Ocean

**AZ-PIERS Additional Values**
- 536000 Airport
- 536007 Unspecified place

**Additional Information**
- Based on ICD-9

**Uses**
- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the Incident Location and Type
- Allows data to describe the Incident Location and the distribution of EMS events

**Data Collector**
- EMS personnel

**Other Associated Elements**
- E00 Common Null Values

**References in NHTSA Version 1**
- Essential Element 05 Location Type

**References to Other Databases**
- UTSTEIN Title: Location of Arrest: Out of Hospital; Same as NHTSA E-Codes

**NEMSIS Extended Definitions:**
- **Home/Residence** - Any home, apartment, or residence (not just the patient’s home). Includes the yard, driveway, garage, pool, garden, or walk of a home, apartment, or residence. Excludes assisting living facilities.
- **Farm** – A place of agriculture, except for a farmhouse. Includes land under cultivation and non-residential farm buildings.
- **Mine or Quarry** – Includes sand pits, gravel pits, iron ore pits, and tunnels under construction.
- **Industrial Place and Premises** – A place where things are made or are being built, includes construction sites, factories, warehouses, industrial plants, docks, and railway yards.
- **Place of Recreation or Sport** – Includes amusement parks, public parks and playgrounds, sports fields/courts/courses, sports stadiums, skating rinks, gymnasiums, swimming pools, waterparks, and resorts.
- **Street or Highway** – Any public street, road, highway, or avenue including boulevards, sidewalks and ditches.
- **Public Building (schools, government offices)** – Any publicly owned building and its grounds, including schools and government offices.
- **Trade or Service (business, bars, restaurants, etc.)** – Any privately owned building used for business and open to the public. Includes bars, restaurants, office buildings, churches, stores, bus/railway stations. Excludes health care facilities.
Health Care Facility (clinic, hospital) – A place where health care is delivered, includes, clinics, doctor’s offices, and hospitals.

Residential Institution (nursing home, assisted living, jail / prison) – A place where people live that is not a private home, apartment, or residence. Includes, nursing homes, assisted living, jail/prison, orphanage, and group homes. (Where assisted living has a medical resource individual available but does not provide patient care on a regular basis.)

Lake, River, Ocean – Any body of water, except swimming pools.

Other Location – Any place that does not fit any of the above categories (this should be very rare).

ARIZONA REQUIRED
**SCENE GPS LOCATION**

Data [text]

**Definition**
The GPS coordinates associated with the Scene.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:decimal</th>
<th>XSD Domain (Simple Type)</th>
<th>GPSLocation</th>
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<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Values</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Required in XSD No

XSD Attributes: Latitude and Longitude are each stored as a separate attribute

**Field Values**

**Uses**
- Important for grouping or comparing data by Scene location which also allows data to be sorted by geographic response areas in many agencies
- Provides information on overall response patterns and times for agency configuration and evaluation

**Data Collector**
- EMS agency or may be electronically provided through the 911 or dispatch center

**Other Associated Elements**

- E01_01 Patient Care Report Number
- E08_07 Incident Location Type

**ARIZONA REQUIRED**
INCIDENT ADDRESS

E08_11

Data  [text]

Definition
The street address (or best approximation) where the patient was found, or, if no patient, the address to which the unit responded.

XSD Data Type  xs:string  XSD Domain (Simple Type)  StreetAddress
Multiple Entry Configuration  No  Accepts Null Values  Yes
Required in XSD  No  Minimum Constraint  2  Maximum Constraint  30
XSD Structure:  E08_11, E08_12, E08_14, E08_15 are all members of E08_11_0 Incident Address Structure

Field Values
-25  Not Applicable
-20  Not Recorded
-15  Not Reporting
-10  Not Known
-5  Not Available

Uses
● A component of the EMS Medical Record:  Patient Care Report
● Important for grouping or comparing data by Scene location which also allows data to be sorted by geographic response areas in many agencies
● Provides information on overall response patterns and times for agency configuration and evaluation

Data Collector
● EMS agency or may be electronically provided through the 911 or dispatch center

Other Associated Elements
E00  Common Null Values  E01_01  Patient Care Report Number
E08_07  Incident Location Type  E08_12  Incident City
E08_14  Incident State  E08_15  Incident ZIP Code

References in NHTSA Version 1
Essential  Element 01  Incident Address

ARIZONA REQUIRED
INCIDENT CITY

Data [combo] single-choice

Definition
The city or township (if applicable) where the patient was found or to which the unit responded (or best approximation)

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:string</th>
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<tbody>
<tr>
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<td>Accepts Null Values</td>
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<td>Required in XSD</td>
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XSD Structure: E08_11, E08_12, E08_14, E08_15 are all members of E08_11_0 Incident Address Structure

Field Values
-25 Not Applicable
-15 Not Reporting
---5 Not Available

-20 Not Recorded
-10 Not Known

Additional Information
- 5 digit FIPS Code
- Could be filled in from Incident Zip Code entry (E08_15)

Uses
- A component of the EMS Medical Record: Patient Care Report
- Important for grouping or comparing data by Scene location which also allows data to be sorted by geographic response areas in many agencies
- Provides information on overall response patterns and times for agency configuration and evaluation

Data Collector
EMS agency or may be electronically provided through the 911 or dispatch center

Other Associated Elements
- E00 Common Null Values
- E08_07 Incident Location Type
- E08_14 Incident State
- E01_01 Patient Care Report Number
- E08_11 Incident Address
- E08_15 Incident ZIP Code

References in NHTSA Version 1
Essential Element 02 Incident City

ARIZONA REQUIRED
INCIDENT COUNTY

Definition
The county or parish where the patient was found or to which the unit responded (or best approximation)

XSD Data Type xs:string
XSD Domain (Simple Type) County
Multiple Entry Configuration No
Accepts Null Values Yes
Required in XSD No
Minimum Constraint 2
Maximum Constraint 5

Field Values
-25 Not Applicable
-15 Not Reporting
-10 Not Known
-05 Not Available

Additional Information
- Could be filled in from Incident Zip Code entry (E08_15)
- Stored as a 5 digit FIPS code (combining the state and county code) to take into account agencies may serve more than one state and counties are often named the same from state to state
- Stored as a FIPS code

Uses
- A component of the EMS Medical Record: Patient Care Report
- Important for grouping or comparing data by Scene location which also allows data to be sorted by geographic response areas in many agencies
- Provides information on overall response patterns and times for agency configuration and evaluation

Data Collector
- EMS agency or may be electronically provided through the 911 or dispatch center

Other Associated Elements
- E00 Common Null Values
- E08_07 Incident Location Type

References in NHTSA Version 1
Essential Element 03 Incident County

ARIZONA REQUIRED
**INCIDENT STATE**

**Data**
[combo] single-choice

**Definition**
The state, territory, or province where the patient was found or to which the unit responded (or best approximation)

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XSD Structure: E08_11, E08_12, E08_14, E08_15 are all members of E08_11_0 Incident Address Structure

**Field Values**
-25 Not Applicable
-15 Not Reporting
-10 Not Known
-5 Not Available

**Additional Information**
- 2 digit FIPS numeric code (Not State abbreviation)
- Could be filled in from Incident Zip Code entry (E08_15)

**Uses**
- A component of the EMS Medical Record: Patient Care Report
- Important for grouping or comparing data by Scene location which also allows data to be sorted by geographic response areas in many agencies
- Provides information on overall response patterns and times for agency configuration and evaluation

**Data Collector**
- EMS agency or may be electronically provided through the 911 or dispatch center

**Other Associated Elements**
- E00 Common Null Values
- E08_07 Incident Location Type
- E08_12 Incident City
- E01_01 Patient Care Report Number
- E08_11 Incident Address
- E08_15 Incident ZIP Code

**References in NHTSA Version 1**
- Essential Element 04 Incident State

**References to Other Databases**
- NFIRS 5.0 Basic Module 1; Title: State; 2 digit FIPS; Text Field Size = 2

**ARIZONA REQUIRED**
INCIDENT ZIP CODE

Data [text]

Definition
The ZIP code of the incident location

XSD Data Type xs:string
XSD Domain (Simple Type) Zip

Multiple Entry Configuration No
Accepts Null Values Yes

Required in XSD Yes

XSD Structure: E08_11, E08_12, E08_14, E08_15 are all members of E08_11_0 Incident Address Structure

Field Values
-25 Not Applicable
-15 Not Reporting
-10 Not Known
-5 Not Available

Uses
● A component of the EMS Medical Record: Patient Care Report
● Allows data to be sorted based on the geographic location of the EMS Incident
● Allows data to describe geographic location of the EMS Incident

Data Collector
● EMS agency or may be electronically provided through the 911 or dispatch center

Other Associated Elements
E00 Common Null Values E01_01 Patient Care Report Number
E08_07 Incident Location Type E08_11 Incident Address
E08_12 Incident City E08_14 Incident State

ARIZONA REQUIRED
Received From Agency ID

Data

Arizona Element

Definition
State ID of agency giving the patient to the current care provider.

NI SE Prefix 956

Compatible with E23_11 & E23_09

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<tr>
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</tbody>
</table>

Field Values
-25 Not Applicable
-15 Not Reporting
-10 Not Known
-5 Not Available

Uses
Data Collector

Other Associated Elements

Other States that have implemented this data element: Nebraska, Missouri, New Hampshire, Minnesota, Minnesota - ALF, Minnesota - Burnsville, Illinois - Good Samaritan, Maine, Georgia, Wisconsin, California - Oceanside, Oregon - Tillamook, Indiana - Columbus Regional Hospital, Washington, Michigan, Kansas, Oklahoma, New Mexico, Alaska, Idaho, Massachusetts, Vermont, Oregon

ARIZONA REQUIRED
Situation
**National Element**

**Definition**
Any care which was provided to the patient prior to the arrival of this unit.

**XSD Data Type** xs:string  **XSD Domain (Simple Type)** PriorAid

**Multiple Entry Configuration** Yes  **Accepts Null Values** Yes

**Required in XSD** Yes  **Minimum Constraint** 2  **Maximum Constraint** 30

**Field Values**
-25 Not Applicable  -20 Not Recorded
-15 Not Reporting  -10 Not Known
-5 Not Available

**AZ-PIERS Additional Values - Medications**

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<th>Name</th>
<th>Code</th>
<th>Name</th>
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<tbody>
<tr>
<td>405</td>
<td>Abciximab (Reopro)</td>
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<td>Labetol</td>
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<tr>
<td>156014</td>
<td>Acetaminophen</td>
<td>156011</td>
<td>Lactated Ringers</td>
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<td>61</td>
<td>Adenosine</td>
<td>156008</td>
<td>Levalbuterol HCL (Xopenex)</td>
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<td>31</td>
<td>Albuterol Sulfate</td>
<td>63</td>
<td>Lidocaine</td>
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<tr>
<td>156000</td>
<td>Alteplase</td>
<td>24</td>
<td>Lorazepam (Ativan)</td>
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<td>65</td>
<td>Amiodorone (Cordarone)</td>
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<td>Magnesium Sulfate</td>
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<td>4</td>
<td>Amyl Nitrate</td>
<td>182</td>
<td>Mannitol (Osmitrol)</td>
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<td>Aspirin (ASA)</td>
<td>416</td>
<td>Mark 1 Kit</td>
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<td>156001</td>
<td>Atracurium</td>
<td>27</td>
<td>Meperidine (Demerol)</td>
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<td>Atropine Sulfate</td>
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<td>Metaproterenol (Alupent)</td>
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<td>60</td>
<td>Atrovent (Ipratropium Bromide)</td>
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<td>Methylprednisolone (Solu-Medrol)</td>
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<td>Brevetium Tosylate</td>
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<td>8</td>
<td>Bumetanide (Bumex)</td>
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<td>Metoprolol (Lopressor)</td>
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<td>161</td>
<td>Calcium Chloride</td>
<td>122</td>
<td>Midazolam (Versed)</td>
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<td>10</td>
<td>Calcium Gluconate</td>
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<td>Morphine Sulfate</td>
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<td>156022</td>
<td>Cetacaine Spray</td>
<td>101</td>
<td>Naloxone (Narcan)</td>
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<td>111</td>
<td>Charcoal, activated</td>
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<td>Neostigmine</td>
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<td>156010</td>
<td>D5W (Dextrose 5% in Water)</td>
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<td>Nifedipine (Adalat, Procardia)</td>
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<td>Nitroglycerin</td>
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<td>12</td>
<td>Dexamethasone (Decadron)</td>
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<td>Nitronox (Nitrous Oxide)</td>
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<td>Nitroprusside</td>
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<td>156009</td>
<td>Dextrose 12.5%</td>
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<td>Norepinephrine</td>
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<td>156002</td>
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<td>Normal Saline</td>
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<td>Other Autonomic Nervous System Drug</td>
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<td>436</td>
<td>Diltiazem (Cardizem)</td>
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<td>Diphenhydramine (Benadryl)</td>
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<td>Dobutamine</td>
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<td>Dopamine</td>
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<td>AZ-PIERS Code</td>
<td>Procedure Description</td>
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<td>Airway-Cleared, Opened, or Heimlich</td>
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**Additional Information**
- List created from Procedures (D04_04) and Medications (D04_06)

**Uses**
- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the specific prior aid received or not received by the patient
- Allows data to describe aid which was provided prior to EMS arrival
- Used as a Quality Management tool to evaluate Bystander and First Responder involvement

**Data Collector**
- EMS personnel

**Other Associated Elements**
- E00 Common Null Values
- E01_01 Patient Care Report Number

**References in NHTSA Version 1**
- Desirable Element 58 Time of First CPR

**References to Other Databases**
- NFIRS 5.0 EMS Module; Title: Cardiac Arrest; Pick-List: Pre-Arrival Arrest = 1, Post-Arrival Arrest = 2;
- NFIRS 5.0 EMS Module; Title: Pre-Arrival Details; Pick-List: Witnessed = 1, Bystander CPR = 2
- UTSTEIN Title: CPR Before EMS and Rhythm Analysis or Defibrillation before EMS; [combo] Yes = Y, No = No, U = Unknown

Optional, but **Required for Cardiac**
Captures aid like bystander CPR
PRIOR AID PERFORMED BY

Data  [combo] multiple-choice

National Element

Definition
The type of individual who performed the care prior to the arrival of this unit.

XSD Data Type xs:integer  XSD Domain (Simple Type) PriorAidPerformedBy
Multiple Entry Configuration Yes  Accepts Null Values Yes
Required in XSD Yes

Field Values
-25 Not Applicable  -20 Not Recorded
-15 Not Reporting  -10 Not Known
-5 Not Available  1195 EMS Provider
1190 Law Enforcement
1200 Law Enforcement
1210 Other Healthcare Provider
1215 Patient

Uses
● A component of the EMS Medical Record: Patient Care Report
● Allows data to be sorted based on who provided specific prior aid
● Allows data to describe who performed any aid which was provide prior to EMS arrival to the patient
● Used as a Quality Management tool to evaluate Bystander and First Responder involvement

Data Collector
● EMS personnel

Other Associated Elements
E00 Common Null Values  E01_01 Patient Care Report Number

NEMSIS Extended Definitions:
EMS Provider – Any dispatched responder who provides pre-hospital medical care.

Law Enforcement – Officer who’s primary role is not to provide pre-hospital medical care.

Lay Person – An individual without formal medical training with no duty to respond to the incident.

Other Healthcare Provider – Physician, Registered Nurse or other person, not dispatched, that indicates they work in a healthcare related field.

Patient – Person needing emergency medical services treatment or transportation.

Optional, Required for Cardiac
Captures aid like bystander CPR
POSSIBLE INJURY

**Data**  [combo] single-choice

**National Element**

**Definition**
Indicates that the reason for the EMS encounter was related to an injury or traumatic event. This data element provides documentation to classify the EMS Reason for Encounter as either injury or non-injury related based on mechanism and not on actual injury.

**XSD Data Type**  xs:integer
**XSD Domain (Simple Type)**  YesNoValues
**Multiple Entry Configuration**  No
**Accepts Null Values**  Yes
**Required in XSD**  Yes

**Field Values**
- **-25**  Not Applicable
- **-15**  Not Reporting
- **-10**  Not Known
- **-5**  Not Available
- **0**  No
- **1**  Yes

**Additional Information**
- Can be used to determine which records should have Section E10: Situation/ Trauma completed. If Injury Present (E09_04) is “Yes”, Section E10 should be completed.
- Possible Injury (E09_04), Chief Complaint Anatomic Location (E09_11), Chief Complaint Organ System (E09_12), and Primary Symptom (E09_13) are required to calculate the Reason for Encounter.

**Uses**
- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on trauma vs. non-traumatic events
- Allows data to describe trauma within the EMS patient population
- Allows for the calculation of the "EMS Reason for Encounter" used to further describe the EMS patient population

**Data Collector**
- EMS personnel

**Other Associated Elements**
- E00  Common Null Values
- E01_01  Patient Care Report Number

ARIZONA REQUIRED
**Primary Symptom**

**Data** [combo] single-choice

**Definition**
The primary sign and symptom present in the patient or observed by EMS personnel.

**XSD Data Type** xs:integer  
**XSD Domain (Simple Type)** PrimarySymptom  
**Multiple Entry Configuration** No  
**Required in XSD** Yes

**Field Values**
-25 Not Applicable  
-15 Not Reporting  
--5 Not Available  
1410 Breathing Problem  
1420 Choking  
1430 Device/Equipment Problem  
1440 Drainage/Discharge  
1450 Malaise  
1460 Mental/Psych  
1470 None  
1480 Palpitations  
1490 Swelling  
1500 Weakness

**AZ-PIERS Additional Values**

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<thead>
<tr>
<th>Value</th>
<th>Description</th>
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<tbody>
<tr>
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<td>Abdominal Pain</td>
</tr>
<tr>
<td>567001</td>
<td>Back Pain</td>
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<tr>
<td>567002</td>
<td>Bright Red Blood in Stool</td>
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<tr>
<td>567003</td>
<td>CardioRespiratory Arrest</td>
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<td>567004</td>
<td>Chest Pain</td>
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<td>567005</td>
<td>Dizziness</td>
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<td>Seizure/Convulsions</td>
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<td>Syncope</td>
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<tr>
<td>567013</td>
<td>Vaginal Hemorrhage</td>
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<td>567014</td>
<td>Dark/Tarry Stool (Melena)</td>
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<td>567015</td>
<td>Headache</td>
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<tr>
<td>567016</td>
<td>Visual Impairment or Loss of Vision</td>
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<tr>
<td>567017</td>
<td>Cough</td>
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<tr>
<td>567018</td>
<td>Orthostatic Hypotension</td>
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<td>Headache w/ Photophobia</td>
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**Additional Information**
- Possible Injury (E09_04), Chief Complaint Anatomic Location (E09_11), Chief Complaint Organ System (E09_12), and Primary Symptom (E09_13) are required to calculate the Reason for Encounter.

**Uses**
- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the patient's primary symptom
- Allows data to describe the patient's primary symptom
- Allows for the calculation of the "EMS Reason for Encounter" used to further describe the EMS patient population

**Data Collector**

106
EMS personnel

Other Associated Elements
E00 Common Null Values E01_01 Patient Care Report Number

References in NHTSA Version 1
Essential Element 52 Signs and Symptoms Present

NEMSIS Extended Definitions:
Bleeding – Active, Inactive, Internal or External.

Device / Equipment Problem – Patient device (i.e., ICD, Implantable Defibrillator, Insulin Pump, Portacath, Central Line, etc.).

Malaise – General non-specific feeling of illness.

Palpitations – The sensation of a rapidly or irregularly beating heart; fluttering, pounding racing, skipping a beat, jumping around in the chest.

Wound – A type of physical trauma wherein the skin is torn, cut or punctured (i.e., an open wound). This field value is not defined as blunt force trauma causing, for example, a contusion (i.e., a closed wound).

Transport Only – The patient presents with no identifiable injury or illness.

ARIZONA REQUIRED
OTHER ASSOCIATED SYMPTOMS

Data [combo] multiple-choice

Definition
Other symptoms identified by the patient or observed by EMS personnel

XSD Data Type xs:integer  XSD Domain (Simple Type) OtherAssociatedSymptoms
Multiple Entry Configuration Yes  Accepts Null Values Yes
Required in XSD Yes

Field Values
-25 Not Applicable
-15 Not Reporting
-5 Not Available
1515 Breathing Problem
1525 Choking
1535 Device/Equipment Problem
1545 Drainage/Discharge
1555 Malaise
1565 Mental/Psych
1575 None
1585 Palpitations
1595 Swelling
1605 Weakness

AZ-PIERS Additional Values

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<tr>
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Additional Information
● This data element is used for Bioterrorism Syndromic Surveillance

Uses
● A component of the EMS Medical Record: Patient Care Report
● Allows data to be sorted based on the patient's primary symptom
● Allows data to describe the patient's associated symptoms
● Allows for potential bio-terrorism surveillance based on the symptomatic presentation of the EMS Patient combined with other data points

Data Collector
EMS personnel

Other Associated Elements
E00 Common Null Values
E01_01 Patient Care Report Number

References in NHTSA Version 1
Essential Element 52 Signs and Symptoms Present

NEMSIS Extended Definitions:
Bleeding – Active, Inactive, Internal or External.

Device / Equipment Problem – Patient device (i.e., ICD, Implantable Defibrillator, Insulin Pump, Portacath, Central Line, etc.).

Malaise – General non-specific feeling of illness.

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Wound – A type of physical trauma wherein the skin is torn, cut or punctured (i.e., an open wound). This field value is not defined as blunt force trauma causing, for example, a contusion (i.e., a closed wound).

Transport Only – The patient presents with no identifiable injury or illness.

ARIZONA REQUIRED
**Definition**

The EMS personnel's impression of the patient's primary problem or most significant condition which led to the management given to the patient (treatments, medications, or procedures).

**XSD Data Type**  xs:integer  
**XSD Domain (Simple Type)**  ProvidersPrimaryImpression  
**Multiple Entry Configuration**  No  
**Accepts Null Values**  Yes  
**Required in XSD**  Yes

**Field Values**

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<td>780.09- Altered level of consciousness</td>
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<td>427.50- Cardiac arrest</td>
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**AZ-PIERS Additional Values**

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<td>CHF (Congestive Heart Failure)</td>
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<tr>
<td>569028</td>
<td>Unknown Problem</td>
</tr>
<tr>
<td>569029</td>
<td>Sepsis</td>
</tr>
<tr>
<td>569030</td>
<td>COPD (Emphysema/Chronic Bronchitis)</td>
</tr>
<tr>
<td>569031</td>
<td>General Malaise</td>
</tr>
<tr>
<td>569032</td>
<td>Weakness</td>
</tr>
<tr>
<td>569033</td>
<td>No Apparent Illness/Injury</td>
</tr>
<tr>
<td>569034</td>
<td>Fever</td>
</tr>
<tr>
<td>569035</td>
<td>Nausea/Vomiting (Unknown Etiology)</td>
</tr>
<tr>
<td>569036</td>
<td>Patient Assist Only</td>
</tr>
<tr>
<td>569037</td>
<td>Back Pain (Non-Traumatic)</td>
</tr>
<tr>
<td>569038</td>
<td>Diarrhea</td>
</tr>
<tr>
<td>569039</td>
<td>Migraine</td>
</tr>
<tr>
<td>569040</td>
<td>Epistaxis (Non-Traumatic)</td>
</tr>
<tr>
<td>569207</td>
<td>Pneumonia</td>
</tr>
<tr>
<td>569274</td>
<td>Displaced Fracture: Closed</td>
</tr>
<tr>
<td>569275</td>
<td>Displaced Fracture: Open</td>
</tr>
</tbody>
</table>
**Additional Information**
- ICD-9 Codes were retained over ICD-10 due to CMS's continued use of ICD-9 in the EMS Condition Codes

**Uses**
- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the EMS personnel's clinical impression
- Allows data to describe the EMS patient population based on EMS personnel impression of the EMS patient's problem

**Data Collector**
- EMS personnel

**Other Associated Elements**
- E00 Common Null Values
- E01_01 Patient Care Report Number

**References in NHTSA Version 1**
- Essential Element 50 Providers Impression

**References to Other Databases**
- NFIRS 5.0 EMS Module; Title: Provider Impression/Assessment; The emergency providers single most important impression/assessment which drove the choice of treatment; [combo] Abdominal Pain = 10, Airway Obstruction = 11, Allergic Reaction, excludes stings & venomous bites = 12, Altered Level of Consciousness = 13, Behavioral-Mental Status, Psychiatric Disorder = 14, Burns = 15, Cardiac Arrest = 16, Cardiac Dysrhythmia = 17, Chest Pain = 18, Diabetic Symptom = 19, Do Not Resuscitate = 20, Electrocution = 21, General Illness = 2, Hemorrhaging/Bleeding = 23, Hyperthermia = 24, Hypothermia = 25, Hypovolemia = 26, Inhalation Injury, Toxic Gases = 27, Obvious Death = 28, Overdose/Poisoning = 29, Pregnancy/OB = 30, Respiratory Arrest = 31, Respiratory Distress = 32, Seizure = 33, Sexual Assault = 34, Sting/Bite = 35, Stroke/CVA = 36, Syncope, Fainting = 37, Trauma = 38, Other Impression/Assessment = 00, None/No patient or refused Treatment = NN

**ARIZONA REQUIRED**
PROVIDER’S SECONDARY IMPRESSION

Data [combo] single-choice

Definition
The EMS personnel’s impression of the patient’s secondary problem or which led to the management given to the patient (treatments, medications, or procedures).

XSD Data Type xs:integer
XSD Domain (Simple Type) ProvidersSecondaryImpression

Multiple Entry Configuration No
Accepts Null Values Yes
Required in XSD Yes

Field Values
-25 Not Applicable
-15 Not Reporting
-10 Not Known
-5 Not Available
-20 Not Recorded
-10 Not Known

AZ-PIERS Additional Values

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>57000</td>
<td>Abdominal Aortic Aneurysm</td>
</tr>
<tr>
<td>57001</td>
<td>Asthma</td>
</tr>
<tr>
<td>57002</td>
<td>Bowel Obstruction</td>
</tr>
<tr>
<td>57003</td>
<td>Cancer</td>
</tr>
<tr>
<td>57004</td>
<td>CHF (Congestive Heart Failure)</td>
</tr>
<tr>
<td>57005</td>
<td>TIA (Transient Ischemic Attack)</td>
</tr>
<tr>
<td>57006</td>
<td>Dehydration</td>
</tr>
<tr>
<td>57007</td>
<td>Diabetic Hyperglycemia</td>
</tr>
<tr>
<td>57008</td>
<td>ETOH Abuse</td>
</tr>
<tr>
<td>57009</td>
<td>G.I. Bleed</td>
</tr>
<tr>
<td>57010</td>
<td>Headache</td>
</tr>
<tr>
<td>57011</td>
<td>Heat Exhaustion/Stroke</td>
</tr>
<tr>
<td>57012</td>
<td>Hypertension</td>
</tr>
<tr>
<td>57013</td>
<td>Hypotension</td>
</tr>
<tr>
<td>57014</td>
<td>OB/Delivery</td>
</tr>
<tr>
<td>57015</td>
<td>Other</td>
</tr>
<tr>
<td>57016</td>
<td>Other Abdominal/GI Problem</td>
</tr>
<tr>
<td>57017</td>
<td>Other Cardiovascular Problem</td>
</tr>
<tr>
<td>57018</td>
<td>Other CNS Problem</td>
</tr>
<tr>
<td>57019</td>
<td>Other Endocrine/Metabolic Problem</td>
</tr>
<tr>
<td>57021</td>
<td>Other GU Problems</td>
</tr>
<tr>
<td>57023</td>
<td>Other OB/Gyn</td>
</tr>
<tr>
<td>57024</td>
<td>Pain</td>
</tr>
<tr>
<td>57025</td>
<td>Substance Drug Abuse</td>
</tr>
<tr>
<td>57026</td>
<td>Toxic Exposure</td>
</tr>
<tr>
<td>57027</td>
<td>Unconscious</td>
</tr>
<tr>
<td>57028</td>
<td>Unknown Problem</td>
</tr>
<tr>
<td>57029</td>
<td>Sepsis</td>
</tr>
<tr>
<td>57030</td>
<td>COPD (Emphysema/Chronic Bronchitis)</td>
</tr>
<tr>
<td>57031</td>
<td>General Malaise</td>
</tr>
<tr>
<td>57032</td>
<td>Weakness</td>
</tr>
<tr>
<td>57033</td>
<td>No Apparent Illness/Ijury</td>
</tr>
<tr>
<td>57034</td>
<td>Fever</td>
</tr>
<tr>
<td>57035</td>
<td>Nausea/Vomiting (Unknown Etiology)</td>
</tr>
<tr>
<td>57036</td>
<td>Patient Assist Only</td>
</tr>
<tr>
<td>57037</td>
<td>Back Pain (Non-Traumatic)</td>
</tr>
<tr>
<td>57038</td>
<td>Diarrhea</td>
</tr>
<tr>
<td>57039</td>
<td>Migraine</td>
</tr>
<tr>
<td>57040</td>
<td>Epistaxis (Non-Traumatic)</td>
</tr>
<tr>
<td>570207</td>
<td>Pneumonia</td>
</tr>
<tr>
<td>570274</td>
<td>Displaced Fracture: Closed</td>
</tr>
<tr>
<td>570275</td>
<td>Displaced Fracture: Open</td>
</tr>
</tbody>
</table>
**Uses**
- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the EMS personnel's clinical impression
- Allows data to describe the EMS patient population based on EMS personnel impression of the EMS patient's problem

**Data Collector**
- EMS personnel

**Other Associated Elements**
- E00 Common Null Values
- E01_01 Patient Care Report Number

**References in NHTSA Version 1**
- Essential Element 50 Providers Impression

**ARIZONA REQUIRED**
Section E10

Situation/ Trauma
CAUSE OF INJURY

Data [combo] single-choice

**Definition**
The category of the reported/suspected external cause of the injury

**XSD Data Type** xs:integer  **XSD Domain (Simple Type)** CauseOfInjury
**Multiple Entry Configuration** No  **Accepts Null Values** Yes
**Required in XSD** Yes

**Field Values**
-25 Not Not Applicable
-15 Not Reporting
-----5 Not Available
9500 Aircraft related accident (E84X.0)
9515 Chemical poisoning (E86X.0)
9525 Drowning (E910.0)
9535 Electrocution (non-lightning) (E925.0)
9545 Excessive Heat (E900.0)
9555 Fire and Flames (E89X.0)
9565 Firearm injury (accidental) (E985.0)
9575 Lightning (E907.0)
9585 Mechanical Suffocation (E913.0)
9595 Motor Vehicle traffic accident (E81X.0)
9605 Non-Motorized Vehicle Accident (E848.0)
9615 Radiation exposure (E926.0)
9625 Smoke Inhalation (E89X.2)
9635 Stabbing/Cutting Assault (E966.0)
9645 Venomous stings (plants, animals) (E905.0)

AZ-PIERS Additional Values

<table>
<thead>
<tr>
<th>580000</th>
<th>Assault</th>
</tr>
</thead>
<tbody>
<tr>
<td>580001</td>
<td>ATV Rider</td>
</tr>
<tr>
<td>580002</td>
<td>Caught in/between Objects</td>
</tr>
<tr>
<td>580003</td>
<td>Cut/Pierce</td>
</tr>
<tr>
<td>580004</td>
<td>Explosion</td>
</tr>
<tr>
<td>580005</td>
<td>Foreign body entering eye/orifice</td>
</tr>
<tr>
<td>580006</td>
<td>Hot Object/Substance</td>
</tr>
<tr>
<td>580007</td>
<td>Motor Vehicle vs Pedestrian Accident</td>
</tr>
</tbody>
</table>

| 580009 | Other Injury |
| 580010 | Overexertion |
| 580012 | Snowmobile Accident |
| 580014 | Struck by or Against |
| 580015 | Unarmed Fight/Brawl |
| 580017 | Motor Vehicle vs Large Animal |
| 580019 | Neglect/Malnutrition |
| 580020 | Housing/Dangerous Condition |

**Additional Information**
- Complete only if Possible Injury (E09_04) is “Yes”
- ICD-9 Codes were retained over ICD-10 due to CMS’s continued use of ICD-9 in the EMS Condition Codes

**Uses**
- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the traumatic cause of injury
- Allows data to describe the cause of a traumatic event

**Data Collector**
- EMS personnel if Possible Injury (E09_04) is answered Yes

**Other Associated Elements**

<table>
<thead>
<tr>
<th>E00</th>
<th>Common Null Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>E01_01</td>
<td>Patient Care Report Number</td>
</tr>
</tbody>
</table>

**References in NHTSA Version 1**
Essential Element 49 Cause of Injury

**References to Other Databases**
NFIRS 5.0 EMS Module; Title: Cause of Illness/Injury; The immediate cause or condition responsible for the injury or illness; Pick-List: Chemical Exposure = 10, Drug Poisoning = 11, Fall = 12, Aircraft Related = 13, Bite, Includes Animal Bites = 14, Bicycle Accident = 15, Building Collapse/Construction Accident = 16, Downing = 17, Electrical Shock = 18, Cold = 19, Heat = 20, E explosives - 21, Fire and Flames - 22, Firearm = 23, Fireworks = 25, Lightning = 26, Machinery = 27, Mechanical Suffocation = 28, Motor Vehicle Accident = 29, Motor Vehicle Accident, Pedestrian = 30, Non-Traffic Vehicle (off road) Accident = 31, Physical Assault/Abuse = 32, Scalds/Other Thermal = 33, Smoke Inhalation = 34, Stabbing Assault = 35, Venomous Sting = 36, Water Transport = 37, Other Cause of Injury/Illness = 00, Unknown Cause of Injury/Illness = UU

NEMSIS Extended Definitions:
Motor vehicle traffic accident - Includes any motor vehicle incident occurring on a public road or highway. Public road or highway includes any road open to the use of the public for purposes of vehicular traffic as a matter of right or custom.

Motor vehicle non-traffic accident - Includes any motor vehicle incident occurring entirely off public roadways or highways. For instance an incident involving an All Terrain Vehicle (ATV) in an off the road location would be counted under this sub-category.

Pedestrian Traffic Accident - Includes responses in which a motor vehicle/pedestrian incident occurs on a public road or highway where the pedestrian was injured. Includes individuals on skates, in baby carriages, in wheelchairs, on skateboards, etc.

Bicycle Accident - Includes bicycle-related incidents not involving a motorized vehicle.

Water Transport - Includes all incidents related to a watercraft. Excludes drowning incidents unless they are related to watercraft use. Thus, if a person falls out of a boat and drowns, it should be counted within this category. If a person drowns in a swimming pool or bathtub, it should be counted under “Drowning”.

Aircraft Related Crash - Excludes spacecraft.

Drug Poisoning - Includes poisoning by drugs, medicinal substances, or biological products.

Chemical Poisoning - Includes poisoning by solid or liquid substances, gases, and vapors, which are not included under “Drug Poisoning”.

Falls - Excludes falls which occur in the context of other external causes of injury such as fire, or falling in incidents involving Machinery. These types of injuries should be coded as such.

Fire and Flames - Includes burning by fire, asphyxia or poisoning from conflagration or ignition, and fires secondary to explosions. Excludes injuries related to Machinery, and vehicle related incidents, which should be counted under their respective sub-categories.

Smoke Inhalation - Includes smoke and fume inhalation from conflagration.

Excessive Heat - Includes thermal injuries related to weather or heat produced by man, such as in a boiler room or factory. Excludes heat injury from conflagration, this should be counted under Fire and Flames.

Excessive Cold - Includes cold injury due to weather exposure, or cold produced by man, such as in a freezer.

Venomous Stings (Plant, Animals) - Includes stings from spiders, scorpions, insects, marine life or plants. Excludes “bites” and should be coded as such.

Bites - Includes bites (e.g., dogs, snakes and lizards, etc.). Excludes venomous stings which should be coded as such.

Lightning - Excludes falling off an object secondary to lightning and injuries from fire secondary to lightning.

Drowning - Includes responses to drowning/near drowning that are not related to watercraft use. Includes swimming and snorkeling incidents, bathtubs, hot tubs, holding ponds, buckets, etc.

Mechanical Suffocation - Includes suffocation in bed or cradle (crib death), closed space suffocation, plastic bag, hanging, etc.

Machinery Accidents - Includes responses in which machinery in operation was involved.

Electrocution (Non-Lightning) - Includes responses in which an incident related to electric current from exposed wire, faulty appliance, high voltage cable, live rail, or open electric socket. Excludes electrocution by lightning.
Radiation Exposure - Excludes complications of radiation therapy.

Rape - This sub-category should be entered in all instances where there was sufficient suspicion by the EMS responder that the responder would be required by law to report the case to authorities as a suspected case of rape.

Stabbing Assault - Includes reported cuts, punctures, or stabs to any part of the body.

Child Battering - Includes all forms of suspected child battering. This subcategory should be entered in all instances where there was sufficient suspicion by the EMS responder that the responder would be required by law to report the case to authorities as a suspected case of child abuse.

ARIZONA REQUIRED
INTENT OF THE INJURY

Data [combo] single-choice

Definition
The intent of the individual inflicting the injury

XSD Data Type xs:integer
XSD Domain (Simple Type) IntentOfInjury
Multiple Entry Configuration No
Accepts Null Values Yes
Required in XSD No

Field Values
-25 Not Applicable
-15 Not Reporting
-5 Not Available
2025 Intentional, Self
2020 Intentional, Other (Assaulted)
2030 Unintentional

AZ-PIERS Additional Values
581004 Legal intervention (injured during law enforcement)

Additional Information
Complete only if Possible Injury (E09_04) is “Yes”

Uses
Important component of an EMS Medical Record: documentation of Intentional, Self
Used to better define injury cause and describe injury patterns within and EMS community

Data Collector
EMS personnel if Possible Injury (E09_04) is answered Yes

Other Associated Elements
E00 Common Null Values
E01_01 Patient Care Report Number

References in NHTSA Version 1
Desirable Element 54 Injury Intent

References to Other Databases
NFIRS 5.0 EMS Module; Title: Other Factors; Describes the other factors that contributed to the patient’s injury.
Not to be completed with an illness.; Pick-List: Accidental = 1, Self-Inflicted = 2, Inflicted, Not Self. Included are attacks by animals and persons = 3, None or No Other Factors = N

ARIZONA REQUIRED
MECHANISM OF INJURY

Data [combo] multiple-choice

Definition
The mechanism of the event which caused the injury.

XSD Data Type xs:integer
XSD Domain (Simple Type) MechanismOfInjury
Multiple Entry Configuration Yes
Accepts Null Values Yes
Required in XSD No

Field Values
-25 Not Applicable
-15 Not Reporting
-10 Not Known
-5 Not Available
2035 Blunt
2040 Burn
2045 Other
2050 Penetrating

Additional Information
- Complete only if Possible Injury (E09_04) is “Yes”

Uses
- A component of the EMS Medical Record: Patient Care Report
- Important component of an EMS Medical Record to identify issues of clinical care and agency performance and delivery
- Used to better define injury cause and describe injury patterns within and EMS community

Data Collector
- EMS personnel if Possible Injury (E09_04) is answered Yes

Other Associated Elements
E00 Common Null Values
E01_01 Patient Care Report Number

ARIZONA REQUIRED
VEHICULAR INJURY INDICATORS

Data [combo] multiple-choice

Definition The kind of risk factor predictors associated with the vehicle involved in the incident

XSD Data Type xs:integer  XSD Domain (Simple Type) VehicularInjuryIndicators
Multiple Entry Configuration Yes Accepts Null Values Yes Required in XSD No

Field Values
-25 Not Applicable
-15 Not Reporting
-10 Not Known
-5 Not Available
-20 Not Recorded

2055 Dash Deformity
2065 Ejection
2075 Rollover/Roof Deformity
2085 Space Intrusion >1 foot
2095 Windshield Spider/Star

Additional Information
● Complete only if Possible Injury (E09_04) is “Yes”

Uses
● A component of the EMS Medical Record: Patient Care Report
● Used to better define injury cause and describe injury patterns within and EMS community

Data Collector
● EMS personnel if Possible Injury (E09_04) is answered Yes and there is a vehicle involved

Other Associated Elements
E00 Common Null Values E01_01 Patient Care Report Number

ARIZONA REQUIRED
AREA OF THE VEHICLE IMPACTED BY THE COLLISION  

**Data**  
[combo] multiple-choice

**Definition**  
The area or location of impact on the vehicle

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>XSD Domain (Simple Type)</th>
<th>AreaOfVehicleImpact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes</td>
<td>Accepts Null Values</td>
<td>Yes</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>No</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**

-25 Not Applicable
-20 Not Recorded
-15 Not Reporting
-10 Not Known
-5 Not Available
2100 Center Front
2110 Left Front
2120 Left Side
2130 Right Rear
2140 Roll Over

**Additional Information**

- Complete only if Possible Injury (E09_04) is “Yes”

**Uses**

- A component of the EMS Medical Record: Patient Care Report
- Used to better define injury cause and describe injury patterns within and EMS community

**Data Collector**

- EMS personnel if Possible Injury (E09_04) is answered Yes and there is a vehicle involved

**Other Associated Elements**

- E00 Common Null Values
- E01_01 Patient Care Report Number

**ARIZONA REQUIRED**
SEAT ROW LOCATION OF PATIENT IN VEHICLE

E10_06

Data [text]

Definition
The seat row location of the patient in vehicle at the time of the crash with the front seat numbered as 1.

XSD Data Type xs:integer XSD Domain (Simple Type) SeatRowLocation
Multiple Entry Configuration No Accepts Null Values No
Required in XSD No Minimum Constraint 1 Maximum Constraint 50

XSD Structure: E10_06 and E10_07 are members of E10_06_0 Position of Patient Structure

Field Values
- If a value of 50 is passed, the location is designated "Cargo Area"

Additional Information
- Complete only if Possible Injury (E09_04) is “Yes”
- Could be configured as a single choice combo box
- Numbered to take into account large vehicles such as buses or vans (1 = Front) or (Cargo Area = 50)

Uses
- A component of the EMS Medical Record: Patient Care Report
- Important component of an EMS Medical Record to identify issues of clinical care and agency performance and delivery
- Used to better define injury cause and describe injury patterns within and EMS community

Data Collector
- EMS personnel if Possible Injury (E09_04) is answered Yes and there is a vehicle involved

Other Associated Elements
E01_01 Patient Care Report Number
E10_07 Position of Patient in the Seat of the Vehicle

ARIZONA REQUIRED
POSITION OF PATIENT IN THE SEAT OF THE VEHICLE

E10_07

Data  [combo] single-choice

Definition
The position of the patient in seat of the vehicle at the time of the crash

XSD Data Type  xs:integer  XSD Domain (Simple Type)  PositionOfPatientInSeat
Multiple Entry Configuration  No  Accepts Null Values  Yes
Required in XSD  No
XSD Structure: E10_06 and E10_07 are members of E10_06_0 Position of Patient Structure

Field Values
-25  Not Applicable
-20  Not Recorded
-15  Not Reporting
-10  Not Known
-5  Not Available
2145  Driver
2150  Left (non-driver)
2155  Middle
2160  Other
2165  Right

Additional Information
• Complete only if Possible Injury (E09_04) is “Yes”

Uses
• A component of the EMS Medical Record: Patient Care Report
• Important component of an EMS Medical Record to identify issues of clinical care and agency performance and delivery
• Used to better define injury cause and describe injury patterns within and EMS community

Data Collector
• EMS personnel if Possible Injury (E09_04) is answered Yes and there is a vehicle involved

Other Associated Elements
E00  Common Null Values
E01_01  Patient Care Report Number
E10_06  Seat Row Location of Patient in Vehicle

ARIZONA REQUIRED
**USE OF OCCUPANT SAFETY EQUIPMENT**

**Data**
[combo] multiple-choice

**Definition**
Safety equipment in use by the patient at the time of the injury

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>XSD Domain (Simple Type)</th>
<th>UseOfOccupantSafetyEquipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes</td>
<td>Accepts Null Values</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Field Values**
-25 Not Applicable
-15 Not Reporting
-10 Not Known
-5 Not Available

2170 Child Restraint
2180 Helmet Worn
2187 None
2190 Other
2195 Personal Floatation Device
2200 Protective Clothing
2205 Protective Non-Clothing Gear
2210 Shoulder Belt

**AZ-PIERS Additional Values**
587005 Protective Safety Belt

**Additional Information**
- Complete only if Possible Injury (E09_04) is “Yes”

**Uses**
- A component of the EMS Medical Record: Patient Care Report
- Important component of an EMS Medical Record to identify issues of clinical care and agency performance and delivery
- Used to better define injury cause and describe injury patterns within and EMS community

**Data Collector**
- EMS personnel if Possible Injury (E09_04) is answered Yes and there is a vehicle involved

**Other Associated Elements**
- E00 Common Null Values
- E01_01 Patient Care Report Number

**References in NHTSA Version 1**
- Essential Element 55 Safety Equipment

**References to Other Databases**
- NFIRS 5.0 EMS Module; Title: Safety Equipment; Multiple Select Pick-List: Safety, Seat Belts =1, Child Safety Seat = 2, Airbag = 3, Helmet = 4, Protective Clothing = 5, Flotation Device = 6, None or No Safety Equipment = N, Other Safety Equipment Used = O, Undetermined Safety Equipment = U

**ARIZONA REQUIRED**
AIRBAG DEPLOYMENT

Data [combo] multiple-choice

Definition
Indication of Airbag deployment during the motor vehicle crash.

XSD Data Type xs:integer
XSD Domain (Simple Type) AirbagDeployment
Multiple Entry Configuration Yes
Accepts Null Values Yes
Required in XSD No

Field Values
-25 Not Applicable
-15 Not Reporting
-10 Not Known
-5 Not Available
-20 Not Recorded
2215 No Airbag Present
2220 No Airbag Deployed
2225 Airbag Deployed Front
2230 Airbag Deployed Side
2235 Airbag Deployed Other (knee, airbelt, etc.)

Additional Information
• Complete only if Possible Injury (E09_04) is “Yes”

Uses
• A component of the EMS Medical Record: Patient Care Report
• Important component of an EMS Medical Record to identify issues of clinical care and agency performance and delivery
• Used to better define injury cause and describe injury patterns within and EMS community

Data Collector
• EMS personnel if Possible Injury (E09_04) is answered Yes and there is a vehicle involved

Other Associated Elements
E00 Common Null Values
E01_01 Patient Care Report Number

References in NHTSA Version 1
Essential Element 55 Safety Equipment

References to Other Databases
• NFIRS 5.0 EMS Module; Title: Safety Equipment; Multiple Select Pick-List: Safety, Seat Belts =1, Child Safety Seat = 2, Airbag = 3, Helmet = 4, Protective Clothing = 5, Flotation Device = 6, None or No Safety Equipment = N, Other Safety Equipment Used = O, Undetermined Safety Equipment = U

ARIZONA REQUIRED
HEIGHT OF FALL

Data [number]

Definition
The distance in feet the patient fell, measured from the lowest point of the patient to the ground.

XSD Data Type xs:integer  XSD Domain (Simple Type) HeightOfFall
Multiple Entry Configuration No  Accepts Null Values Yes
Required in XSD No  Minimum Constraint 1  Maximum Constraint 50,000

Field Values

Additional Information
● Complete only if Possible Injury (E09_04) is “Yes”

Uses
● A component of the EMS Medical Record: Patient Care Report
● Important component of an EMS Medical Record to identify issues of clinical care and agency performance and delivery
● Used to better define injury cause and describe injury patterns within and EMS community

Data Collector
● EMS personnel if Possible Injury (E09_04) is answered Yes

Other Associated Elements
E01_01 Patient Care Report Number

ARIZONA REQUIRED
Motor Vehicle Type

**Data**
int

**Definition**
Indicator of the type of vehicle involved in an MVC.

**NI SE Prefix** 960

Compatible with E23_11 & E23_09

**XSD Data Type**
XSD Domain (Simple Type)

**Multiple Entry Configuration** No
Accepts Null Values Yes

**Required in XSD**

**Field Values**
-25 Not Applicable
-15 Not Reporting
-5 Not Available
-20 Not Recorded
-40 Not Known
960009 Aircraft
960004 Bus
960005 Motorcycle
960007 Snowmobile
960012 SUV - Fullsize
960001 Truck
960008 Watercraft

**Uses**
Data Collector

**Other Associated Elements**
Optional
Trauma Triage Criteria

**Data**

**Arizona Element**

**Definition**

(Priority 1, 2 or 3) assigned to a patient that is a scoring summarizing the patient status. The scoring considers the patient condition, physiological and anatomical injuries and mechanism of injury. Select all that apply.

**NI SE Prefix** 310

Compatible with E23_11 & E23_09

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>XSD Domain (Simple Type)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

**XSD Data Type**

<table>
<thead>
<tr>
<th>Multiple Entry Configuration</th>
<th>XSD Domain (Simple Type)</th>
<th>Accepts Null Values</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required in XSD</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>-25</td>
<td>Not Applicable</td>
<td>-20</td>
</tr>
<tr>
<td>-15</td>
<td>Not Reporting</td>
<td>-10</td>
</tr>
<tr>
<td>-5</td>
<td>Not Available</td>
<td>310001</td>
</tr>
<tr>
<td>310002</td>
<td>Blunt Trauma (no hemodynamic trauma)</td>
<td>310003</td>
</tr>
<tr>
<td>310004</td>
<td>BSA &gt;= 10%</td>
<td>310005</td>
</tr>
<tr>
<td>310006</td>
<td>GCS</td>
<td>310007</td>
</tr>
<tr>
<td>310008</td>
<td>Hemodynamic compromise from trauma</td>
<td>310009</td>
</tr>
<tr>
<td>310009</td>
<td>Minor Injuries</td>
<td>310011</td>
</tr>
<tr>
<td>310010</td>
<td>Open or depressed skull fracture</td>
<td>310012</td>
</tr>
<tr>
<td>310012</td>
<td>Paralysis resulting from trauma</td>
<td>310013</td>
</tr>
<tr>
<td>310014</td>
<td>Penetrating injury to trunk, neck, or head</td>
<td>310015</td>
</tr>
<tr>
<td>310016</td>
<td>Respiratory compromise resulting from trauma</td>
<td>310017</td>
</tr>
<tr>
<td>310018</td>
<td>Unstable Pelvis</td>
<td>310019</td>
</tr>
<tr>
<td>310020</td>
<td>Mechanism: Patient ejected from enclosed vehicle</td>
<td>310021</td>
</tr>
<tr>
<td>310022</td>
<td>Comorbid: Age (55)</td>
<td>310023</td>
</tr>
<tr>
<td>310024</td>
<td>Comorbid: Cardiac/respiratory disease, diabetes, cirrhosis, or morbid obesity</td>
<td>310025</td>
</tr>
<tr>
<td>310025</td>
<td>Comorbid: Pregnancy</td>
<td>310026</td>
</tr>
<tr>
<td>310026</td>
<td>Comorbid: Immunosuppressed</td>
<td>310027</td>
</tr>
<tr>
<td>310028</td>
<td>Comorbid: Paramedic discretion</td>
<td>310029</td>
</tr>
<tr>
<td>310030</td>
<td>High Energy: Fall &gt; 20 feet</td>
<td>310031</td>
</tr>
<tr>
<td>310032</td>
<td>High Energy: Rollover</td>
<td>310033</td>
</tr>
<tr>
<td>310034</td>
<td>High Energy: Impact / Significant intrusion</td>
<td>310035</td>
</tr>
<tr>
<td>310036</td>
<td>Multiple Victims</td>
<td>310037</td>
</tr>
<tr>
<td>310038</td>
<td>Hypothermic with Core Temp</td>
<td></td>
</tr>
</tbody>
</table>

**Uses**

**Data Collector**

**Other Associated Elements**

Optional
Situation/ CPR
**CARDIAC ARREST**

**E11_01**

**Data**  [combo] single-choice

**National Element**

**Definition**

Indication of the presence of a cardiac arrest at any time associated with the EMS event.

**XSD Data Type**  xs:integer  **XSD Domain (Simple Type)**  CardiacArrest

**XSD Domain (Simple Type)**

**Accepts Null Values**  Yes

**Required in XSD**  Yes

**Multiple Entry Configuration**  No

**Field Values**

-25 Not Applicable
-15 Not Reporting
-5 Not Available
0 No
2240 Yes, Prior to EMS Arrival
2245 Yes, After EMS Arrival

**Additional Information**

- If answered YES, all other data points in the Situation/CPR should be addressed

**Uses**

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the occurrence of a cardiac arrest
- Allows data to describe the number of cardiac arrests within the EMS patient population

**Data Collector**

- EMS personnel

**Other Associated Elements**

E00 Common Null Values  E01_01 Patient Care Report Number

**References to Other Databases**

- NFIRS 5.0  EMS Module; Title: Cardiac Arrest; Pick-List: Pre-Arrival Arrest = 1, Post-Arrival Arrest = 2
- UTSTEIN  Title: Confirmed Cardiac Arrests Considered for Resuscitation

**ARIZONA REQUIRED**
CARDIAC ARREST ETIOLOGY

Data [combo] single-choice

National Element

Definition
Indication of the etiology or cause of the cardiac arrest (classified as cardiac, non-cardiac, etc.)

XSD Data Type xs:integer
XSD Domain (Simple Type) CardiacArrestEtiology
Multiple Entry Configuration No
Accepts Null Values Yes
Required in XSD Yes

Field Values
-25 Not Applicable
-15 Not Reporting
-5 Not Available
2255 Trauma
2265 Respiratory
2275 Other
-20 Not Recorded
-10 Not Known
2250 Presumed Cardiac
2260 Drowning
2270 Electrocution

AZ-PIERS Additional Values
601000 SIDS (Suspected)

Additional Information
● Complete only if Cardiac Arrest (E11_01) is “Yes”

Uses
● A component of the EMS Medical Record: Patient Care Report
● Allows data to be sorted based on the occurrence of a cardiac arrest
● Allows data to describe the number of cardiac arrests within the EMS patient population

Data Collector
● EMS personnel if Cardiac Arrest (E11_01) is answered Yes

Other Associated Elements
E00 Common Null Values
E01_01 Patient Care Report Number

References to Other Databases
● UTSTEIN Title: Cardiac Etiology; Presumed Cardiac = C, Trauma = T, Drowning = D, Respiratory = R, Other = O, Unknown = U

ARIZONA REQUIRED
**RESUSCITATION ATTEMPTED**

**Data**

[combo] multiple-choice

**National Element**

**Definition**

Indication of an attempt to resuscitate the patient who is in cardiac arrest (attempted, not attempted due to DNR, etc.)

**XSD Data Type**  xs:integer  **XSD Domain (Simple Type)**  ResuscitationAttempted

**Multiple Entry Configuration**  Yes  **Accepts Null Values**  Yes

**Required in XSD**  Yes

**Field Values**

-25 Not Applicable  -20 Not Recorded
-15 Not Reporting  -10 Not Known
-5 Not Available  2280 Attempted Defibrillation
2285 Attempted Ventilation  2290 Initiated Chest Compressions
2295 Not Attempted-Considered Futile  2300 Not Attempted-DNR Orders
2305 Not Attempted-Signs of Circulation

**Additional Information**

- Complete only if Cardiac Arrest (E11_01) is “Yes”

**Uses**

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the type of resuscitation initiated during a cardiac arrest
- Allows data to describe the number of cardiac arrests within the EMS patient population which resulted in resuscitative efforts

**Data Collector**

- EMS personnel if Cardiac Arrest (E11_01) is answered Yes

**Other Associated Elements**

| E00 | Common Null Values | E01_01 | Patient Care Report Number |

**References to Other Databases**

- **UTSTEIN**  Title: Resuscitations Attempted; Attempted Defibrillation = D, Attempted Chest Compressions = C, Attempted Ventilation = V, Not Attempted-DNR Orders = R, Not Attempted-Considered Futile = F, Not Attempted-Signs of Circulation = A, Unknown = U, Not Record

**ARIZONA REQUIRED**
ARREST WITNESSED BY

Data [combo] single-choice

Definition
Indication of who the cardiac arrest was witnessed by

XSD Data Type xs:integer
XSD Domain (Simple Type) ArrestWitnessedBy
Multiple Entry Configuration No
Accepts Null Values Yes
Required in XSD No

Field Values
-25 Not Applicable
-15 Not Reporting
-5 Not Available
2315 Witnessed by Lay Person
2310 Witnessed by Healthcare Provider
2320 Not Witnessed

Additional Information
● Complete only if Cardiac Arrest (E11_01) is “Yes”

Uses
● A component of the EMS Medical Record: Patient Care Report
● Allows data to be sorted based on the Witnessed or Un-Witnessed Arrest which is a known key element associated with Cardiac Arrest Outcome
● Allows data to describe aid which was provided prior to EMS arrival
● Used as a Quality Management tool to evaluate Bystander and First Responder involvement

Data Collector
● EMS personnel if Cardiac Arrest (E11_01) is answered Yes

Other Associated Elements
E00 Common Null Values
E01_01 Patient Care Report Number

References in NHTSA Version 1
Desirable Element 62 Witness of Cardiac Arrest

References to Other Databases
● NFIRS 5.0 EMS Module; Title: Pre-Arrival Details; Pick-List: Witnessed = 1, Bystander CPR = 2
● UTSTEIN Title: Arrest Witnessed/Monitored; [combo] Lay Person = L, Healthcare Provider = H

ARIZONA REQUIRED
FIRST MONITORED RHYTHM OF THE PATIENT

**Data**
[combo] single-choice

**Definition**
Documentation of what the first monitored rhythm which was noted

**XSD Data Type**  
*xs:integer*

**XSD Domain (Simple Type)**  
`FirstMonitoredRhythm`

**Multiple Entry Configuration**  
No

**Required in XSD**  
No

**Accepts Null Values**  
Yes

**Field Values**

-25 Not Applicable
-15 Not Reporting
-10 Not Known
-5 Not Available
2325 Asystole
2330 Bradycardia
2335 Normal Sinus Rhythm
2340 Other
2345 PEA
2350 Unknown AED Non-Shockable Rhythm
2355 Unknown AED Shockable Rhythm
2360 Ventricular Fibrillation
2365 Ventricular Tachycardia

**AZ-PIERS Additional Values**

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>604000</td>
<td>Paced Rhythm</td>
</tr>
</tbody>
</table>

**Additional Information**

- Complete only if Cardiac Arrest (E11_01) is “Yes”

**Uses**

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the First Monitored Rhythm of a cardiac arrest
- Allows for evaluation of Cardiac Arrest data for Quality Improvement of patient care and agency response

**Data Collector**

- EMS personnel if Cardiac Arrest (E11_01) is answered Yes

**Other Associated Elements**

<table>
<thead>
<tr>
<th>E00</th>
<th>E01_01</th>
<th>Common Null Values</th>
<th>Patient Care Report Number</th>
</tr>
</thead>
</table>

**References to Other Databases**

- **NFIRS 5.0**  
  EMS Module; Title: Initial Arrest Rhythm; Pick-List: V-Fib/V-Tach = 1, Other = O, Undetermined = U
- **UTSTEIN**  
  Title: First Monitored Rhythm Shockable (in Cardiac Arrest) and First Monitored Rhythm Non-Shockable; [combo] Ventricular Fibrillation, Ventricular Tachycardia, Unknown AED Shockable Rhythm, Asystole, PEA, Bradycardia, Other, Unknown AED Non-Shockable Rhythm

**ARIZONA REQUIRED**
**ANY RETURN OF SPONTANEOUS CIRCULATION**

**Data**
[combo] single-choice

**Definition**
Indication whether or not there was any return of spontaneous circulation at any time during the EMS event.

**XSD Data Type** xs:integer  
**XSD Domain (Simple Type)** ReturnOfSpontaneousCirculation  
**Multiple Entry Configuration** No  
**Accepts Null Values** Yes

**Required in XSD** No

**Field Values**
- 25 Not Applicable  
- 15 Not Reporting  
- -5 Not Available  
- 2370 Yes, Prior to ED Arrival Only

**Additional Information**
- Complete only if Cardiac Arrest (E11_01) is “Yes”

**Uses**
- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the Return of Spontaneous Circulation associated with a cardiac arrest
- Allows for evaluation of Cardiac Arrest data for Quality Improvement of patient care and agency response

**Data Collector**
- EMS personnel if Cardiac Arrest (E11_01) is answered Yes

**Other Associated Elements**
- E00 Common Null Values
- E01_01 Patient Care Report Number

**References in NHTSA Version 1**
- Desirable Element 64 Return of Spontaneous Circulation

**References to Other Databases**
- **UTSTEIN** Title: Any Return of Spontaneous Circulation (ROSC); [combo] Yes = Y, No = No, U = Unknown

**ARIZONA REQUIRED**
DATE/ TIME RESUSCITATION DISCONTINUED

Data  [date/time]

Definition
The date/time the CPR was discontinued (or could be time of death)

XSD Data Type  xs:dateTime
XSD Domain (Simple Type)  DateTime
Multiple Entry Configuration  No
Accepts Null Values  Yes, but null value is blank or empty
Required in XSD  No
Minimum Constraint  1,990
Maximum Constraint  2,030

Field Values

Additional Information
● Complete only if Cardiac Arrest (E11_01) is “Yes”
● If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used

Uses
● A component of the EMS Medical Record:  Patient Care Report
● Allows for evaluation of Cardiac Arrest data for Quality Improvement of patient care and agency response

Data Collector
● EMS personnel if Cardiac Arrest (E11_01) is answered Yes

Other Associated Elements
E01_01  Patient Care Report Number

References in NHTSA Version 1
Desirable  Element 60  Time CPR Discontinued

ARIZONA REQUIRED
REASON CPR DISCONTINUED

Data [combo] single-choice

Definition
The reason that CPR or the resuscitation efforts were discontinued.

XSD Data Type xs:integer
XSD Domain (Simple Type) ReasonCPRDiscontinued
Multiple Entry Configuration No
Accepts Null Values Yes
Required in XSD No

Field Values
-25 Not Applicable
-15 Not Reporting
-5 Not Available
2435 Medical Control Order
2445 Protocol/Policy Requirements Completed
2430 DNR
2440 Obvious Signs of Death
2450 Return of Spontaneous Circulation (pulse or BP noted)

Additional Information
● Complete only if Cardiac Arrest (E11_01) is “Yes”

Uses
● A component of the EMS Medical Record: Patient Care Report
● Allows for evaluation of Cardiac Arrest data for Quality Improvement of patient care and agency response

Data Collector
● EMS personnel if Cardiac Arrest (E11_01) is answered Yes

Other Associated Elements
E00 Common Null Values
E01_01 Patient Care Report Number

ARIZONA REQUIRED
Stemi Triage Criteria

Data

Definition
ST Segment Elevation Myocardial Infarction (STEMI): EMS providers play a vital role with the initial data and tracking of STEMI patients. Data and tracking is important for the EMS Agency to determine if the correct care is being given to the patients.

NI SE Prefix 320

Compatible with E23_11 & E23_09

XSD Data Type

<table>
<thead>
<tr>
<th>Multiple Entry Configuration</th>
<th>XSD Domain (Simple Type)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>Accepts Null Values Yes</td>
</tr>
</tbody>
</table>

Required in XSD

Field Values
-25 Not Applicable
-15 Not Reporting
-5 Not Available
0 No

-20 Not Recorded
-10 Not Known
1 Yes

Uses

Data Collector

Other Associated Elements

ARIZONA REQUIRED
Stemi 12 Lead Used

Data

Definition
One part of a complete assessment for a patient with chest pain/discomfort or suspected of having an acute cardiac event is obtained by using a 12 Lead ECG.

NISSE Prefix 321
Compatible with E23_11 & E23_09

<table>
<thead>
<tr>
<th>XSD Data Type</th>
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<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Required in XSD</td>
<td></td>
</tr>
</tbody>
</table>

Field Values
-25 Not Applicable
-15 Not Reporting
-5 Not Available
0 No
-20 Not Recorded
-10 Not Known
1 Yes

Uses
Data Collector

Other Associated Elements

ARIZONA REQUIRED
Medical History
**BARRIERS TO PATIENT CARE**

**Data**  [combo] multiple-choice  

**National Element**

**Definition**
Indication of whether or not there were any patient specific barriers to serving the patient at the scene

**XSD Data Type**  xs:integer  

**XSD Domain (Simple Type)**  BarriersToPatientCare

**Multiple Entry Configuration**  Yes  

**Required in XSD**  Yes  

**Accepts Null Values**  Yes

**Field Values**
-25 Not Applicable  
-15 Not Reporting  
-5 Not Available  
2605 Hearing Impaired  
2610 Language  
2615 None  
2620 Physically Impaired  
2625 Physically Restrainted  
2630 Speech Impaired  
2635 Unattended or Unsupervised (including minors)  
2640 Unconscious

**AZ-PIERS Additional Values**

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>620000</td>
<td>Combative patient</td>
</tr>
<tr>
<td></td>
<td>Obesity</td>
</tr>
</tbody>
</table>

**Uses**
- A component of the EMS Medical Record: Patient Care Report  
- Allows data to be sorted based on any barriers to patient care  
- Allows data to describe any barriers to care within the EMS agency which is important to many federal initiatives

**Data Collector**
- EMS personnel

**Other Associated Elements**

<table>
<thead>
<tr>
<th>Element</th>
<th>Common Null Values</th>
<th>E01_01 Patient Care Report Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>E00</td>
<td>Common Null Values</td>
<td></td>
</tr>
</tbody>
</table>

**References in NHTSA Version 1**

<table>
<thead>
<tr>
<th>Desirable Element</th>
<th>Factors Affecting EMS Delivery of Care</th>
</tr>
</thead>
</table>

**References to Other Databases**
- **NFIRS 5.0**  EMS Module; Title: Human Factors; Describes the human factors that contributed to the patient’s injury; 
   Pick-List: Asleep = 1, Unconscious = 2, Possibly Impaired by Alcohol = 3, Possibly Impaired by Other Drug or Chemical = 4, Possibly Mentally Disabled = 5, Physically Disabled = 6, Physically Restrained = 7, Unattended or Unsupervised Person, Included are too young to act = 8, None or No Human Factors = N

**ARIZONA REQUIRED**
MEDI CAT ION ALLERGI ES

Data [combo] multiple-choice

Definition
The patient’s medication allergies

XSD Data Type xs:string
XSD Domain (Simple Type) MedicationAllergies
Multiple Entry Configuration Yes
Accepts Null Values Yes
Required in XSD No
Minimum Constraint 2
Maximum Constraint 30

Field Values
-25 Not Applicable
-20 Not Recorded
-15 Not Reporting
-10 Not Known
-5 Not Available

Additional Information
● A Drug List should be created to serve as a list box which can contain any generic or trade name of a drug approved by the FDA
● Alternatively, the drugs may be entered as a multiple entry text configuration

Uses
● Part of an EMS Medical Record

Data Collector
● EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

Other Associated Elements
E00 Common Null Values
E01_01 Patient Care Report Number
E06_01 Last Name

ARIZONA REQUIRED
Data     [combo] multiple-choice

Definition
The patient's known allergies to food or environmental agents.

XSD Data Type  xs:integer   XSD Domain (Simple Type)  EnvironmentalFoodAllergies
Multiple Entry Configuration  Yes  Accepts Null Values  Yes
Required in XSD  No

Field Values
-25 Not Applicable
-15 Not Reporting
-5 Not Available
2680 Food Allergy
2690 Chemical
2700 None
-20 Not Recorded
-10 Not Known
2675 Insect Sting
2685 Latex
2695 Other

Uses
● Part of an EMS Medical Record

Data Collector
● EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

Other Associated Elements
E00     Common Null Values
E06_01  Last Name
E01_01  Patient Care Report Number

ARIZONA REQUIRED
MEDI CAL/ SURGICAL HI STORY

Definition
The patient’s pre-existing medical and surgery history of the patient

XSD Data Type  xs:string  XSD Domain (Simple Type)  MedicalSurgicalHistory
Multiple Entry Configuration  Yes  Accepts Null Values  Yes
Required in XSD  No  Minimum Constraint  2  Maximum Constraint  30

Field Values
-25 Not Applicable  -20 Not Recorded
-15 Not Reporting  -10 Not Known
-5 Not Available

Additional Information
● A Medical/Surgical History list should be created to serve as a listbox which can contain any ICD-9 coded diagnosis or procedure
● The field should store the values of the ICD-9 codes since CMS has not adopted ICD-10 level codes at the time of this document

Uses
● Part of an EMS Medical Record

Data Collector
● EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

Other Associated Elements
E00  Common Null Values  E01_01  Patient Care Report Number
E06_01  Last Name

References in NHTSA Version 1
Essential  Element  51  Pre-Existing Condition

ARIZONA REQUIRED
MEDICAL HISTORY OBTAINED FROM

**Data**
[combo] single-choice

**Definition**
Type of person medical history obtained from

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>XSD Domain (Simple Type)</th>
<th>MedicalHistoryObtainedFrom</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null Values</td>
<td>Yes</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>No</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**
-25 Not Applicable
-15 Not Reporting
-5 Not Available
2710 Family
2720 None
2705 Bystander/Other
2715 Health Care Personnel
2725 Patient

**Uses**
- Part of an EMS Medical Record

**Data Collector**
- EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

**Other Associated Elements**
- E00 Common Null Values
- E06_01 Last Name
- E01_01 Patient Care Report Number

**ARIZONA REQUIRED**
CURRENT MEDICATIONS

Data [combo or text] multiple-choice

Definition
The medications the patient currently takes

XSD Data Type xs:string  XSD Domain (Simple Type) CurrentMedicationName
Multiple Entry Configuration Yes, via structure  Accepts Null Values No
Required in XSD No  Minimum Constraint 2  Maximum Constraint 30

XSD Structure: (1) E12_14, E12_15, E12_16, and E12_17 are all members of E12_14_0 Current Medications Structure. (2) E12_15 and E12_16 are members of E12_15_0 Current Medication Dose Structure

Additional Information
- A Drug List should be created to serve as a listbox which can contain any generic or trade name of a drug approved by the FDA
- Alternatively, the drugs may be entered as a multiple entry text configuration
- The Drug List should also include “None”

Uses
- Part of an EMS Medical Record

Data Collector
- EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

Other Associated Elements
E01_01 Patient Care Report Number  E12_15 Current Medication Dose
E12_16 Current Medication Dosage Unit  E12_17 Current Medication Administration Route

ARIZONA REQUIRED
ALCOHOL/DRUG USE INDICATORS

Data [combo] multiple-choice

Definition
Indicators for the potential use of Alcohol or Drugs by the patient.

XSD Data Type xs:integer XSD Domain (Simple Type) AlcoholDrugUseIndicators
Multiple Entry Configuration Yes Accepts Null Values Yes
Required in XSD Yes

Field Values
-25 Not Applicable -20 Not Recorded
-15 Not Reporting -10 Not Known
-5 Not Available 2985 Smell of Alcohol on Breath
2990 Patient Admits to Alcohol Use 2995 Patient Admits to Drug Use
3000 Alcohol and/or Drug Paraphernalia at Scene 3001 None

AZ-PIERS Additional Values
638000 Patient Denies Alcohol/Drug Use

Uses
● A component of the EMS Medical Record: Patient Care Report
● Allows data to be sorted based on alcohol/drug use indicators
● Allows data to describe Alcohol and Drug use within the EMS patient population

Data Collector
● EMS personnel

Other Associated Elements
E00 Common Null Values E01_01 Patient Care Report Number

References in NHTSA Version 1
Essential Element 57 Suspected Alcohol/Drug Use

References to Other Databases
● NFIRS 5.0 EMS Module; Title: Human Factors; Describes the human factors that contributed to the patient’s injury; Pick-List: Asleep = 1, Unconscious = 2, Possibly Impaired by Alcohol = 3, Possibly Impaired by Other Drug or Chemical = 4, Possibly Mentally Disabled = 5, Physically Disabled = 6, Physically Restrained = 7, Unattended or Unsupervised Person, Included are too young to act = 8, None or No Human Factors = N

ARIZONA REQUIRED
Narrative
RUN REPORT NARRATIVE

Data [text]

Definition
The narrative of the run report

XSD Data Type xs:string XSD Domain (Simple Type) RunReportNarrative
Multiple Entry Configuration No Accepts Null Values Yes
Required in XSD No Minimum Constraint 2 Maximum Constraint 4,000

Field Values
-25 Not Applicable -20 Not Recorded
-15 Not Reporting -10 Not Known
-5 Not Available

Additional Information
- Large capacity text field such as a “memo” or equivalent

Uses
- Part of an EMS Medical Record

Data Collector
- EMS personnel but could be auto-generated based on the information entered into an electronic patient care report

Other Associated Elements
E00 Common Null Values E01_01 Patient Care Report Number

ARIZONA REQUIRED
DATE/ TIME VITAL SIGNS TAKEN

Data  
[date/time]

Definition
Date/Time Vital Signs Taken

XSD Data Type  xs:dateTime  XSD Domain (Simple Type)  Date/Time
Multiple Entry Configuration  Yes, via structure  Accepts Null Values  Yes, but null value is blank or empty
Required in XSD No  Minimum Constraint  1,990  Maximum Constraint  2,030

XSD Structure: Each element is section E14 is associated with a E14_01 Date/Time

Field Values

Additional Information
● If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used
● Multiple Entry Configuration to allow multiple sets of Vital Signs

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● EMS personnel or may be provided electronically through a medical device

Other Associated Elements
E01_01  Patient Care Report Number

References to Other Databases
● NFIRS 5.0  EMS Module; Title: Patient Pulse; Presence of a Pulse at the time of patient transfer to another service.; Pick-List: Pulse on Transfer = 1, No; Pulse of Transfer = 2

ARIZONA REQUIRED
OBTAINED PRIOR TO THIS UNIT'S EMS CARE

**Data**
(combo) single-choice

**Definition**
Indicates that the information which is documented was obtained prior to the EMS unit's care creating this patient care report.

**XSD Data Type**  *xs:integer*  
**XSD Domain (Simple Type)**  *YesNoValues*

**Multiple Entry Configuration**  Yes, via structure  
**Accepts Null Values**  Yes

**Required in XSD**  No

XSD Structure: Each element is section E14 is associated with a E14_01 Date/Time

**Field Values**
-25 Not Applicable
-15 Not Reporting

**Additional Information**
- If E14_02 is "Yes", the Date/Time Vital Signs Taken (E14_01) is not required.

**Uses**
- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**
- EMS personnel

**Other Associated Elements**
- E00 Common Null Values
- E01_01 Patient Care Report Number
- E14_01 Date/Time Vital Signs Taken

**ARIZONA REQUIRED**
**Definition**

The initial cardiac rhythm of the patient as interpreted by EMS personnel

**XSD Data Type** `xs:integer`  
**XSD Domain (Simple Type)** `CardiacRhythm`

**Multiple Entry Configuration**

(1) Yes, via structure.  
(2) Yes for each E14_01

**Accepts Null Values** Yes

**Required in XSD** No

XSD Structure: Each element is section E14 is associated with a E14_01 Date/Time

**Field Values**

-25 Not Applicable  
-15 Not Reporting  
-5 Not Available  
-20 Not Recorded  
-40 Not Known  
3005 12 Lead ECG-Anterior Ischemia  
3015 12 Lead ECG-Lateral Ischemia  
3025 Artifact  
3035 Atrial Fibrillation/Flutter  
3045 AV Block-2nd Degree-Type 1  
3055 AV Block-3rd Degree  
3065 Left Bundle Branch Block  
3075 Other  
3085 PEA  
3095 Premature Ventricular Contractions  
3105 Sinus Arrhythmia  
3115 Sinus Tachycardia  
3125 Torsades De Points  
3135 Unknown AED Shockable Rhythm  
3145 Ventricular Tachycardia

**AZ-PIERS Additional Values**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>653000</td>
<td>Atrial Flutter</td>
</tr>
<tr>
<td>653001</td>
<td>S-T Segment Depression</td>
</tr>
<tr>
<td>653002</td>
<td>S-T Segment Elevation</td>
</tr>
<tr>
<td>653003</td>
<td>PJC - Premature Junctional Contractions</td>
</tr>
<tr>
<td>653004</td>
<td>12 Lead ECG-Septal Ischemia</td>
</tr>
<tr>
<td>653005</td>
<td>Paroxysmal Supraventricular Tachycardia</td>
</tr>
</tbody>
</table>

**Uses**

- Part of an EMS Medical Record  
- Provides documentation of Assessment and Care  
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**

- EMS personnel or may be provided electronically through a medical device

**Other Associated Elements**

`E00` Common Null Values  
`E01_01` Patient Care Report Number  
`E14_01` Date/Time Vital Signs Taken

**References in NHTSA Version 1**

Desirable Element 66 Initial Cardiac Rhythm

**ARIZONA REQUIRED**
SBP (SYSTOLIC BLOOD PRESSURE)

Data [number]

Definition
The patient's systolic blood pressure

**XSD Data Type** xs:integer  
**XSD Domain (Simple Type)** SBP

**Multiple Entry Configuration** Yes, via structure  
**Accepts Null Values** Yes, but null value is blank or empty

**Required in XSD** No  
**Minimum Constraint** 0  
**Maximum Constraint** 400

XSD Structure: (1) Each element is section E14 is associated with a E14_01 Date/Time. (2) E14_04, E14_05, and E14_06 are all members of E14_04_0 Blood Pressure Structure

Field Values

Additional Information
- Could be collected from Device Systolic Blood Pressure (E21_14)

Uses
- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
- EMS personnel or may be provided electronically through a medical device

Other Associated Elements
- E01_01 Patient Care Report Number  
- E14_05 DBP (Diastolic Blood Pressure)
- E14_04 Date/Time Vital Signs Taken  
- E14_06 Method of Blood Pressure Measurement

References in NHTSA Version 1
- Essential Element 70  Systolic Blood Pressure

ARIZONA REQUIRED
DBP (DIASTOLIC BLOOD PRESSURE)

Definition
The patient's diastolic blood pressure

XSD Data Type    xs:integer
XSD Domain (Simple Type) DBP
Multiple Entry Configuration Yes, via structure
Accepts Null Values Yes, but null value is blank or empty
Required in XSD No
Minimum Constraint 0
Maximum Constraint 200

XSD Structure: (1) Each element is section E14 is associated with a E14_01 Date/Time. (2) E14_04, E14_05, and E14_06 are all members of E14_04_0 Blood Pressure Structure

Field Values

Additional Information
● Could be collected from Device Diastolic Blood Pressure (E21_15)

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● EMS personnel or may be provided electronically through a medical device

Other Associated Elements
E01_01 Patient Care Report Number
E14_04 SBP (Systolic Blood Pressure)
E14_05 DBP (Diastolic Blood Pressure)
E14_06 Method of Blood Pressure Measurement

References in NHTSA Version 1
Essential Element 71 Diastolic Blood Pressure

ARIZONA REQUIRED
PULSE RATE

E14_07

Data [number]

Definition
The patient's pulse rate, palpated or auscultated, expressed as a number per minute

XSD Data Type xs:integer
XSD Domain (Simple Type) PulseRate

Multiple Entry Configuration Yes, via structure
Accepts Null Values Yes, but null value is blank or empty

Required in XSD No
Minimum Constraint 0
Maximum Constraint 500

XSD Structure: Each element is section E14 is associated with a E14_01 Date/Time

Field Values

Additional Information
● Could be collected from Device Pulse Rate (E21_13)

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● EMS personnel or may be provided electronically through a medical device

Other Associated Elements
E01_01 Patient Care Report Number
E14_01 Date/Time Vital Signs Taken

References in NHTSA Version 1
Essential Element 65 Pulse Rate

References to Other Databases
● NFIRS 5.0 EMS Module; Title: Patient Pulse; Presence of a Pulse at the time of patient transfer to another service.; Pick-List: Pulse on Transfer = 1, No; Pulse of Transfer = 2

ARIZONA REQUIRED
PULSE OXI METRY

Data [number]

Definition
The patient's oxygen saturation

XSD Data Type xs:integer
XSD Domain (Simple Type) PulseOximetry
Multiple Entry Configuration Yes, via structure
Accepts Null Values Yes, but null value is blank or empty
Required in XSD No
Minimum Constraint 0
Maximum Constraint 100

XSD Structure: Each element is section E14 is associated with a E14_01 Date/Time

Field Values

Additional Information
● Could be collected from Device Pulse Oximetry (E21_17)

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● EMS personnel or may be provided electronically through a medical device

Other Associated Elements
E01_01 Patient Care Report Number
E14_01 Date/Time Vital Signs Taken

ARIZONA REQUIRED
RESPIRATORY RATE

Data [number]

Definition The patient's respiratory rate expressed as a number per minute

XSD Data Type xs:integer XSD Domain (Simple Type) RespiratoryRate
Multiple Entry Configuration Yes, via structure Accepts Null Values Yes, but null value is blank or empty
Required in XSD No Minimum Constraint 0 Maximum Constraint 100

XSD Structure: Each element is section E14 is associated with a E14_01 Date/Time

Field Values

Additional Information
● Could be collected from Device Respiratory Rate (E21_16)

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● EMS personnel or may be provided electronically through a medical device

Other Associated Elements
E01_01 Patient Care Report Number E14_01 Date/Time Vital Signs Taken

References in NHTSA Version 1
Essential Element 68 Respiratory Rate

ARIZONA REQUIRED
RESPIRATORY EFFORT

Data  [text]

Definition
The patient’s respiratory effort

XSD Data Type  xs:integer  XSD Domain (Simple Type)  RespiratoryEffort
Multiple Entry Configuration  Yes, via structure  Accepts Null Values  Yes
Required in XSD  No
XSD Structure: Each element is section E14 is associated with a E14_01 Date/Time

Field Values
-25 Not Applicable  -20 Not Recorded
-15 Not Reporting  -10 Not Known
-5 Not Available  3185 Normal
3190 Labored  3195 Fatigued
3200 Absent  3205 Not Assessed

AZ-PIERS Additional Values

<table>
<thead>
<tr>
<th>Code</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>662000</td>
<td>Agonal</td>
</tr>
<tr>
<td>662001</td>
<td>Assisted</td>
</tr>
<tr>
<td>662002</td>
<td>Shallow</td>
</tr>
</tbody>
</table>

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● EMS personnel

Other Associated Elements
- E00  Common Null Values
- E14_01  Date/Time Vital Signs Taken

References in NHTSA Version 1
Desirable  Element 69  Respiratory Effort

ARIZONA REQUIRED
End-tidal or Other CO2 Level  
(Also called “CARBON DI OXIDE” )  

**Data**  
[number]  

**Definition**  
The patient’s end-tidal or other CO2 level.  

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>XSD Data Type</strong></td>
<td>xs:integer</td>
</tr>
<tr>
<td><strong>XSD Domain (Simple Type)</strong></td>
<td>CO2</td>
</tr>
<tr>
<td><strong>Accepts Null Values</strong></td>
<td>Yes, but null value is blank or empty</td>
</tr>
<tr>
<td><strong>Required in XSD</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Minimum Constraint</strong></td>
<td>0</td>
</tr>
<tr>
<td><strong>Maximum Constraint</strong></td>
<td>100</td>
</tr>
</tbody>
</table>

**XSD Structure:** Each element is section E14 is associated with a E14_01 Date/Time.  

**Field Values**  

**Additional Information**  
- Could be collected from Device CO2 or ETCO2 (E21_18)  

**Uses**  
- Part of an EMS Medical Record  
- Provides documentation of Assessment and Care  
- Used in Quality Management for the evaluation of Care and EMS Agency Performance  

**Data Collector**  
- EMS personnel or may be provided electronically through a medical device  

**Other Associated Elements**  
- E01_01 Patient Care Report Number  
- E14_01 Date/Time Vital Signs Taken  

**ARIZONA REQUIRED**
BLOOD GLUCOSE LEVEL

Data [number]

Definition
The patient's blood glucose level

XSD Data Type xs:integer
XSD Domain (Simple Type) BloodGlucoseLevel
Multiple Entry Configuration Yes, via structure
Accepts Null Values Yes, but null value is blank or empty

Required in XSD No
Minimum Constraint 0
Maximum Constraint 2,000

XSD Structure: Each element is section E14 is associated with a E14_01 Date/Time

Field Values

Uses
• Part of an EMS Medical Record
• Provides documentation of Assessment and Care
• Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
• EMS personnel or may be provided electronically through a medical device

Other Associated Elements
E01_01 Patient Care Report Number
E14_01 Date/Time Vital Signs Taken

ARIZONA REQUIRED
• Important for Stroke and Suspected Stroke
GLASGOW COMA SCORE-EYE

Data [number]

**Definition**

The patient's Glasgow Coma Score Eye opening

**XSD Data Type** xs:integer  
**XSD Domain (Simple Type)** GCSEye

**Multiple Entry Configuration** Yes, via structure  
**Accepts Null Values** Yes, but null value is blank or empty

**Required in XSD** No  
**Minimum Constraint** 1  
**Maximum Constraint** 4

XSD Structure: (1) Each element is section E14 is associated with a E14_01 Date/Time. (2) E14_15, E14_16, E14_17, and E14_18 are all members of E14_15_0 GCS Score Structure

**Field Values**

- For All Age Groups: 1 = Does Not Open Eyes
- For All Age Groups: 2 = Opens Eyes to painful stimulation
- For All Age Groups: 3 = Opens Eyes to verbal stimulation
- For All Age Groups: 4 = Opens Eyes spontaneously

**Additional Information**

- Can be configured as a single choice list box

**Uses**

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**

- EMS personnel

**Other Associated Elements**

- E01_01 Patient Care Report Number
- E14_15 Glasgow Coma Score-Eye
- E14_16 Glasgow Coma Score-Verbal
- E14_17 Glasgow Coma Score-Motor
- E14_18 Glasgow Coma Score-Qualifier
- E14_19 Total Glasgow Coma Score

**References in NHTSA Version 1**

Essential Element 73 Glasgow Eye Opening Component

ARIZONA REQUIRED
GLASGOW COMA SCORE-VERBAL

Data [number]

Definition
The patient’s Glasgow Coma Score Verbal

XSD Data Type xs:integer XSD Domain (Simple Type) GCSVerbal
Accepts Null Values Yes, but null value is blank or empty

Required in XSD No
Minimum Constraint 1 Maximum Constraint 5

XSD Structure: (1) Each element is section E14 is associated with a E14_01 Date/Time. (2) E14_15, E14_16, E14_17, and E14_18 are all members of E14_15_0 GCS Score Structure

Field Values
- Patients 0-23 months: 1 = None
- Patients 0-23 months: 2 = Persistent cry
- Patients 0-23 months: 3 = Inappropriate cry
- Patients 0-23 months: 4 = Cries, inconsolable
- Patients 0-23 months: 5 = Smiles, coos, cries

- Patients 2-5 years: 1 = None
- Patients 2-5 years: 2 = Grunts
- Patients 2-5 years: 3 = Cries and/or screams
- Patients 2-5 years: 4 = Inappropriate words
- Patients 2-5 years: 5 = Appropriate words appropriately

- Patients >5 years: 1 = None
- Patients >5 years: 2 = Non-specified sounds
- Patients >5 years: 3 = Inappropriate words
- Patients >5 years: 4 = Confused conversation or
- Patients >5 years: 5 = Oriented and appropriate speech

Additional Information
- Can be configured as a single choice list box

Uses
- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
- EMS personnel

Other Associated Elements
- E01_01 Patient Care Report Number
- E14_15 Glasgow Coma Score-Eye
- E14_18 Glasgow Coma Score-Qualifier
- E14_01 Date/Time Vital Signs Taken
- E14_17 Glasgow Coma Score-Motor
- E14_19 Total Glasgow Coma Score

References in NHTSA Version 1
- Essential Element 74a Glasgow Verbal Component For patients >5 years
- Essential Element 74b Glasgow Verbal Component For patients 2-5 years
- Essential Element 74c Glasgow Verbal Component for patients 0-23 months

ARIZONA REQUIRED
GLASGOW COMA SCORE-MOTOR

Data [number]

Definition
The patient's Glasgow Coma Score Motor

XSD Data Type xs:integer
XSD Domain (Simple Type) GCSMotor

Multiple Entry Configuration Yes, via structure
Accepts Null Values Yes, but null value is blank or empty

Required in XSD No
Minimum Constraint 1
Maximum Constraint 6

XSD Structure: (1) Each element in section E14 is associated with a E14_01 Date/Time. (2) E14_15, E14_16, E14_17, and E14_18 are all members of E14_15_0 GCS Score Structure

Field Values
- Patients up to 5 years: 1 = None
- Patients up to 5 years: 2 = Extensor posturing in response to painful stimulation
- Patients up to 5 years: 3 = Flexor posturing in response to painful stimulation
- Patients up to 5 years: 4 = General withdrawal in response to painful stimulation
- Patients up to 5 years: 5 = Localization of painful stimulation
- Patients up to 5 years: 6 = Spontaneous

- Patients >5 years: 1 = None
- Patients >5 years: 2 = Extensor posturing in response to painful stimulation
- Patients >5 years: 3 = Flexor posturing in response to painful stimulation
- Patients >5 years: 4 = General withdrawal in response to painful stimulation
- Patients >5 years: 5 = Localization of painful stimulation
- Patients >5 years: 6 = Obeys commands with appropriate motor responses

Additional Information
- Can be configured as a single choice list box

Uses
- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
- EMS personnel

Other Associated Elements
- E01_01 Patient Care Report Number
- E14_15 Glasgow Coma Score-Eye
- E14_18 Glasgow Coma Score-Qualifier
- E14_01 Date/Time Vital Signs Taken
- E14_16 Glasgow Coma Score-Verbal
- E14_19 Total Glasgow Coma Score

References in NHTSA Version 1
- Essential Element 75a Glasgow Motor Component For patients >5 years
- Essential Element 75b Glasgow Motor Component For patients up to 5 years

ARIZONA REQUIRED
GLASGOW COMA SCORE-QUALIFIER

Data [combo] single-choice

Definition
Documentation of factors which make the GCS score more meaningful.

XSD Data Type xs:integer
XSD Domain (Simple Type) GCSQualifier
Multiple Entry Configuration Yes, via structure
Accepts Null Values Yes
Required in XSD No

XSD Structure: (1) Each element is section E14 is associated with a E14_01 Date/Time. (2) E14_15, E14_16, E14_17, and E14_18 are all members of E14_15_0 GCS Score Structure

Field Values
-25 Not Applicable
-15 Not Reporting
-5 Not Available

-20 Not Recorded
-10 Not Known

3210 Initial GCS has legitimate values without interventions such as intubation and sedation

3215 Patient Chemically Sedated
3220 Patient Intubated
3225 Patient Intubated and Chemically Paralyzed

Additional Information
• Can be configured as a single choice list box

Uses
• Part of an EMS Medical Record
• Provides documentation of Assessment and Care
• Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
• EMS personnel

Other Associated Elements
E00 Common Null Values
E14_01 Date/Time Vital Signs Taken
E14_15 Glasgow Coma Score-Eye
E14_16 Glasgow Coma Score-Verbal
E14_17 Glasgow Coma Score-Motor
E14_19 Total Glasgow Coma Score

ARIZONA REQUIRED
TOTAL GLASGOW COMA SCORE

Data [number]

Definition
The patient's total Glasgow Coma Score

XSD Data Type xs:integer  XSD Domain (Simple Type) TotalGCS
Multiple Entry Configuration Yes, via structure  Accepts Null Values Yes, but null value is blank or empty
Required in XSD No  Minimum Constraint 1  Maximum Constraint 15
XSD Structure: Each element in section E14 is associated with a E14_01 Date/Time

Field Values

Additional Information
● Calculated from Glasgow Coma Score-Eye (E14_15), Glasgow Coma Score-Verbal (E14_16), and Glasgow Coma Score-Motor (E14_17)

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● EMS personnel but could be auto-generated based on the information entered into an electronic patient care report

Other Associated Elements
E01_01 Patient Care Report Number  E14_01 Date/Time Vital Signs Taken
E14_15 Glasgow Coma Score-Eye  E14_16 Glasgow Coma Score-Verbal
E14_17 Glasgow Coma Score-Motor  E14_18 Glasgow Coma Score-Qualifier

References in NHTSA Version 1
Desirable Element 76 Glasgow Coma Score (Total)

ARIZONA REQUIRED
**TEMPERATURE**

**Data**  [number]

**Definition**

The patient's body temperature in degrees celsius/centigrade.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:decimal</th>
<th>XSD Domain (Simple Type)</th>
<th>BodyTemperature</th>
</tr>
</thead>
</table>

**Multiple Entry Configuration**  Yes, via structure

**Accepts Null Values**  Yes, but null value is blank or empty

**Required in XSD**  No

**Minimum Constraint**  0

**Maximum Constraint**  50

XSD Structure: (1) Each element is section E14 is associated with a E14_01 Date/Time. (2) E14_20 and E14_21 are members of E14_20_0 Temperature Structure.

**Field Values**

**Uses**

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**

- EMS personnel or may be provided electronically through a medical device

**Other Associated Elements**

- E01_01  Patient Care Report Number
- E14_01 Date/Time Vital Signs Taken
- E14_21  Temperature Method

**ARIZONA REQUIRED**
LEVEL OF RESPONSIVENESS

Data [combo] single-choice

Definition
The patient's level of responsiveness

XSD Data Type xs:integer  XSD Domain (Simple Type) LevelOfResponsiveness
Multiple Entry Configuration Yes, via structure Accepts Null Values Yes
Required in XSD No
XSD Structure: Each element is section E14 is associated with a E14_01 Date/Time

Field Values
-25 Not Applicable
-15 Not Reporting
-10 Not Known
-5 Not Available
3255 Alert
3260 Verbal
3265 Painful
3270 Unresponsive

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● EMS personnel

Other Associated Elements
E00 Common Null Values
E14_01 Date/Time Vital Signs Taken

ARIZONA REQUIRED
**PAIN SCALE**

**Data** [number]

**Definition**
The patient's indication of pain from a scale of 0 – 10.

**XSD Data Type** xs:integer  
**XSD Domain (Simple Type)** PainScale  
**Multiple Entry Configuration** Yes, via structure  
**Accepts Null Values** Yes, but null value is blank or empty  
**Required in XSD** No  
**Minimum Constraint** 0  
**Maximum Constraint** 10  

XSD Structure: Each element in section E14 is associated with a E14_01 Date/Time

**Field Values**

**Additional Information**
- Number from 0 to 10

**Uses**
- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**
- EMS agency

**Other Associated Elements**
- E01_01 Patient Care Report Number
- E14_01 Date/Time Vital Signs Taken

**ARIZONA REQUIRED**
STROKE SCALE

**Data**  
[combo] single-choice

**Definition**  
The patient's Los Angeles or Cincinnati Stroke Scale Results

**XSD Data Type**  
`xs:integer`

**XSD Domain (Simple Type)**  
`StrokeScale`

**Multiple Entry Configuration**  
Yes, via structure

**Accepts Null Values**  
Yes

**Required in XSD**  
No

XSD Structure: Each element is section E14 is associated with a E14_01 Date/Time

**Field Values**

-25 Not Applicable
-15 Not Reporting
-10 Not Known
-5 Not Available
-20 Not Recorded
-3275 Cincinnati Stroke Scale Negative
-3285 Cincinnati Stroke Scale Positive
-3295 LA Stroke Scale Non-conclusive
-3290 LA Stroke Scale Negative
-3300 LA Stroke Scale Positive

**Uses**

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**

- EMS personnel

**Other Associated Elements**

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E00</td>
<td>Common Null Values</td>
</tr>
<tr>
<td>E14_01</td>
<td>Date/Time Vital Signs Taken</td>
</tr>
</tbody>
</table>

ARIZONA REQUIRED
**Stroke Scale Speech**

**Data**  
int (null)

**Arizona Element**  
IT13_11

**Definition**

**NI SE Prefix** 350

**NOT Compatible with E23_11 & E23_09**

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>int (null)</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSD Domain (Simple Type)</td>
<td></td>
</tr>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>No</td>
</tr>
<tr>
<td>Accepts Null Values</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Field Values**

-25 Not Applicable
-15 Not Reporting
-10 Not Known
-5 Not Available
-20 Not Recorded
-15 Not Reporting

350002 Abnormal

**Uses**

**Data Collector**

**Other Associated Elements**

**Additional Information**  

**ARIZONA REQUIRED**

- Important for Stroke Patients and Potential Stroke Patients.
Stroke Scale Facial Droop

Data \( \text{int (null)} \)

Arizona Element

Definition

**NI SE Prefix** 351

**NOT Compatible with E23_11 & E23_09**

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>XSD Domain (Simple Type)</th>
</tr>
</thead>
<tbody>
<tr>
<td>int (null)</td>
<td>Accepts Null Values Yes</td>
</tr>
</tbody>
</table>

**Multiple Entry Configuration** No

**Required in XSD** No

**Field Values**

-25 Not Applicable
-15 Not Reporting
-10 Not Known
-5 Not Available

351000 Abnormal
351001 Normal

**Uses**

Data Collector

Other Associated Elements

**Additional Information** Unavailable for 3rd party software users until October 2013. Required for all users January 2014.

**ARIZONA REQUIRED**

- Important for Stroke Patients and Potential Stroke Patients.
Stroke Scale Arm Drift

Data int (null)

Definition

NI SE Prefix 352

NOT Compatible with E23_11 & E23_09

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>XSD Domain (Simple Type)</th>
</tr>
</thead>
<tbody>
<tr>
<td>int (null)</td>
<td></td>
</tr>
</tbody>
</table>

Multiple Entry Configuration No

Accepts Null Values Yes

Required in XSD No

Field Values

-25 Not Applicable
-15 Not Reporting
-10 Not Known
-5 Not Available
352001 Normal
352002 Abnormal

Uses

Data Collector

Other Associated Elements


ARIZONA REQUIRED - Important for Stroke Patients and Potential Stroke Patients.
Data [number]

Definition
The patient's total APGAR score (0-10). Recommended to be taken at 1 and 5 minutes after the infant's birth.

XSD Data Type xs:integer
XSD Domain (Simple Type) APGAR
Multiple Entry Configuration Yes, via structure
Accepts Null Values Yes, but null value is blank or empty
Required in XSD No
Minimum Constraint 0
Maximum Constraint 10

XSD Structure: Each element is section E14 is associated with a E14_01 Date/Time

Field Values

Additional Information
- Apgar score could be configured as a single choice combo box with values from 0-10
- Color: 0 = Blue, Pale, 1 = Body Pink, Extremities Blue, 2 = Pink
- Heart Rate: 0 = Absent, 1 = <100, 2 = >100
- Muscle Tone: 0 = Limp, 1 = Some Flexion, 2 = Good Flexion
- Reflex Irritability (when feet stimulated): 0 = No Response, 1 = Some Motion, 2 = Cry
- Respiratory Effort: 0 = Absent, 1 = Weak Cry, 2 = Strong Cry
- The appropriate number for each of the 5 components should be added together

Uses
- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
- EMS personnel

Other Associated Elements
- E01_01 Patient Care Report Number
- E14_01 Date/Time Vital Signs Taken

ARIZONA REQUIRED
- Only required for Infants
**REvised Trauma Score**

**Data**  [number]

**Definition**

The patient's Revised Trauma Score

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>XSD Domain (Simple Type)</th>
<th>RTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes, via structure</td>
<td>Accepts Null Values</td>
<td>Yes, but null value is blank or empty</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>No</td>
<td>Minimum Constraint</td>
<td>0</td>
</tr>
<tr>
<td>XSD Structure: Each element is section E14 is associated with a E14_01 Date/Time</td>
<td>Maximum Constraint</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**

**Additional Information**

- Calculated based on 3 components
- Can be auto-calculated from Respiratory Rate (E14_11), Systolic Blood Pressure (E14_04), and Total GCS (E14_19), if all three components are documented at the same Time (E14_01)
- Neurological Component: 4 = Glasgow coma score 13 - 15, 3 = Glasgow coma score 9 - 12, 2 = Glasgow coma score 6 - 8, 1 = Glasgow coma score 4 - 5, 0 = Glasgow coma score 3
- Respiratory Rate Component: 4 = 10 - 29 per minute, 3 = >29 per minute, 2 = 6 - 9 per minute, 1 = 1 - 5 per minute, 0 = None spontaneous
- Systolic Blood Pressure Component: 4 = >89 mm Hg, 3 = 76 - 89 mm Hg, 2 = 50 - 75 mm Hg, 1 = 1 - 49 mm Hg, 0 = No pulse

**Uses**

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**

- EMS personnel but could be auto-generated based on the information entered into an electronic patient care report

**Other Associated Elements**

- E01_01 Patient Care Report Number
- E14_01 Date/Time Vital Signs Taken

**References in NHTSA Version 1**

Desirable Element 77 Revised Trauma Score

Optional
NHTSA INJURY MATRIX EXTERNAL/ SKIN

**Data**
[combo] multiple-choice

**Definition**
Type of injury identified and associated with the external body/Skin (including burns)

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSD Domain (Simple Type)</td>
<td>NHTSAInjuryMatrix</td>
</tr>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes</td>
</tr>
<tr>
<td>Accepts Null Values</td>
<td>Yes</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>No</td>
</tr>
</tbody>
</table>

**Field Values**
- -25 Not Applicable
- -15 Not Reporting
- -5 Not Available
- 3325 Bleeding Controlled
- 3335 Burn
- 3345 Dislocation Fracture
- 3355 Laceration
- 3365 Puncture/stab
- -20 Not Recorded
- -10 Not Known
- 3330 Bleeding Uncontrolled
- 3340 Crush
- 3350 Gunshot
- 3360 Pain without swelling/bruising
- 3370 Soft Tissue Swelling/Brusing

**AZ-PIERS Additional Values**

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>69506</td>
<td>Pain/tenderness</td>
</tr>
<tr>
<td>69507</td>
<td>Burn Redness</td>
</tr>
<tr>
<td>69508</td>
<td>Burn Blistering</td>
</tr>
<tr>
<td>69509</td>
<td>Burn Charring</td>
</tr>
<tr>
<td>695010</td>
<td>Burn White/Waxy</td>
</tr>
<tr>
<td>695000</td>
<td>Abrasions</td>
</tr>
<tr>
<td>695001</td>
<td>Avulsion</td>
</tr>
<tr>
<td>695002</td>
<td>Crepitus</td>
</tr>
<tr>
<td>695003</td>
<td>Deformity</td>
</tr>
<tr>
<td>695004</td>
<td>Ecchymosis</td>
</tr>
<tr>
<td>695005</td>
<td>Foreign Body</td>
</tr>
</tbody>
</table>

**Additional Information**
- Blunt Injury Removed from NHTSA 1.0

**Uses**
- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**
- EMS personnel

**Other Associated Elements**

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E00</td>
<td>Common Null Values</td>
</tr>
<tr>
<td>E01_01</td>
<td>Patient Care Report Number</td>
</tr>
</tbody>
</table>

**References in NHTSA Version 1**

- Essential Element 53 Injury Description

**References to Other Databases**

- NFIRS 5.0 EMS Module; Title: Body Site of Injury; Describes parts of the body where injuries occurred.: Pick-List (limited to 5 max body parts): Head = 1, Neck and Shoulder = 2, Thorax, Includes Chest and Back, Excludes Spine = 3, Abdomen = 4, Spine = 5, Upper Extremities = 6, Lower Extremities = 7, Internal = 8, Multiple Body Parts = 9, No Body Site of Injury = N

- NFIRS 5.0 EMS Module; Title: Injury Type; Describes the primary injuries sustained by a patient for each part of the body.:; Pick-List: Amputation = 10, Blunt Injury = 11, Burn = 12, Crush = 13, Dislocation/Fracture = 14, Gunshot = 15, Laceration = 16, Pain Without Swelling = 17, Puncture/Stab = 18, Soft Tissue Swelling = 19, Other Injury Type = 00

**ARIZONA REQUIRED**
NHTSA INJURY MATRIX HEAD

Data [combo] multiple-choice

Definition
Type of injury identified and associated with the Head (excluding face, neck, cervical spine, and ear)

XSD Data Type xs:integer
XSD Domain (Simple Type) NHTSAInjuryMatrix
Multiple Entry Configuration Yes
Required in XSD No
Accepts Null Values Yes

Field Values
-25 Not Applicable
-15 Not Reporting
-5 Not Available
3325 Bleeding Controlled
3335 Burn
3345 Dislocation Fracture
3355 Laceration
3365 Puncture/stab
-20 Not Recorded
-10 Not Known
3330 Bleeding Uncontrolled
3340 Crush
3350 Gunshot
3360 Pain without swelling/bruising
3370 Soft Tissue Swelling/Bruising

AZ-PIERS Additional Values

| 696000 | Abrasions |
| 696001 | Avulsion |
| 696002 | Crepitus |
| 696003 | Deformity |
| 696004 | Ecchymosis |
| 696005 | Foreign Body |
| 696006 | Pain/tenderness |
| 696007 | Burn Redness |
| 696008 | Burn Blistering |
| 696009 | Burn Charring |
| 696010 | Burn White/Waxy |

Additional Information
● Blunt Injury Removed from NHTSA 1.0

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● EMS personnel

Other Associated Elements
E00 Common Null Values
E01_01 Patient Care Report Number

References in NHTSA Version 1
Essential Element 53 Injury Description

ARIZONA REQUIRED
NHTSA INJURY MATRIX FACE

Data       [combo] multiple-choice

Definition
   Type of injury identified and associated with the Face (including ear)

XSD Data Type    xs:integer    XSD Domain (Simple Type)    NHTSAInjuryMatrix
Multiple Entry Configuration     Yes
Required in XSD  No
Accepts Null Values     Yes

Field Values
-25  Not Applicable
-15  Not Reporting
-5   Not Available
  3325  Bleeding Controlled
  3335  Burn
  3345  Dislocation Fracture
  3355  Laceration
  3365  Puncture/stab
-20  Not Recorded
-10  Not Known
  3320  Amputation
  3330  Bleeding Uncontrolled
  3340  Crush
  3350  Gunshot
  3360  Pain without swelling/bruising
  3370  Soft Tissue Swelling/Bruising

AZ-PIERS Additional Values
697000  Abrasions
697001  Avulsion
697002  Crepitus
697003  Deformity
697004  Ecchymosis
697005  Foreign Body
697006  Pain/tenderness
697007  Burn Redness
697008  Burn Blistering
697009  Burn Charring
697010  Burn White/Waxy
697011  Burns to Airway
697012  Soot in Airway

Additional Information
  ● Blunt Injury Removed from NHTSA 1.0

Uses
  ● Part of an EMS Medical Record
  ● Provides documentation of Assessment and Care
  ● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
  ● EMS personnel

Other Associated Elements
  E00  Common Null Values
  E01_01  Patient Care Report Number

References in NHTSA Version 1
  Essential  Element  53  Injury Description

ARIZONA REQUIRED
NHTSA INJURY MATRIX NECK

**Data**
[combo] multiple-choice

**Definition**
Type of injury identified and associated with the Neck

<table>
<thead>
<tr>
<th>XSD Data Type</th>
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<th>XSD Domain (Simple Type)</th>
<th>NHTSAInjuryMatrix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes</td>
<td>Accepts Null Values</td>
<td>Yes</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>No</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**

-25 Not Applicable
-15 Not Reporting
-5 Not Available
3325 Bleeding Controlled
3335 Burn
3345 Dislocation Fracture
3355 Laceration
3365 Puncture/stab
-20 Not Recorded
-10 Not Known
3330 Bleeding Uncontrolled
3340 Crush
3350 Gunshot
3360 Pain without swelling/bruising
3370 Soft Tissue Swelling/Brusing

**AZ-PIERS Additional Values**

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>698000</td>
<td>Abrasions</td>
</tr>
<tr>
<td>698001</td>
<td>Avulsion</td>
</tr>
<tr>
<td>698002</td>
<td>Crepitus</td>
</tr>
<tr>
<td>698003</td>
<td>Deformity</td>
</tr>
<tr>
<td>698004</td>
<td>Ecchymosis</td>
</tr>
<tr>
<td>698005</td>
<td>Foreign Body</td>
</tr>
<tr>
<td>698006</td>
<td>Pain/tenderness</td>
</tr>
<tr>
<td>698007</td>
<td>Burn Redness</td>
</tr>
<tr>
<td>698008</td>
<td>Burn Blistering</td>
</tr>
<tr>
<td>698009</td>
<td>Burn Charring</td>
</tr>
<tr>
<td>698010</td>
<td>Burn White/Waxy</td>
</tr>
</tbody>
</table>

**Additional Information**

- Blunt Injury Removed from NHTSA 1.0

**Uses**

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**

- EMS personnel

**Other Associated Elements**

<table>
<thead>
<tr>
<th>E00</th>
<th>Common Null Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>E01_01</td>
<td>Patient Care Report Number</td>
</tr>
</tbody>
</table>

**References in NHTSA Version 1**

Essential Element 53 Injury Description

**References to Other Databases**

- **NFIRS 5.0** EMS Module; Title: Body Site of Injury; Describes parts of the body where injuries occurred.; Pick-List (limited to 5 max body parts): Head = 1, Neck and Shoulder = 2, Thorax, Includes Chest and Back, Excludes Spine = 3, Abdomen = 4, Spine = 5, Upper Extremities = 6, Lower Extremities = 7, Internal = 8, Multiple Body Parts = 9, No Body Site of Injury = N
- **NFIRS 5.0** EMS Module; Title: Injury Type; Describes the primary injuries sustained by a patient for each part of the body.; Pick-List: Amputation = 10, Blunt Injury = 11, Burn = 12, Crush = 13, Dislocation/Fracture = 14, Gunshot = 15, Laceration = 16, Pain Without Swelling = 17, Puncture/Stab = 18, Soft Tissue Swelling = 19, Other Injury Type = 00

**ARIZONA REQUIRED**
**NHTSA INJURY MATRIX THORAX**

**Data** [combo] multiple-choice

**Definition**
Type of injury identified and associated with the Thorax (excluding the thoracic spine)

**XSD Data Type** `xs:integer`  
**XSD Domain (Simple Type)** `NHTSAInjuryMatrix`

**Multiple Entry Configuration** Yes  
**Accepts Null Values** Yes  
**Required in XSD** No

**Field Values**
- `-25` Not Applicable  
- `-15` Not Reporting  
- `-5` Not Available  
- `3325` Bleeding Controlled  
- `3335` Burn  
- `3345` Dislocation Fracture  
- `3355` Laceration  
- `3365` Puncture/stab  
- `-20` Not Recorded  
- `-10` Not Known  
- `3330` Bleeding Uncontrolled  
- `3340` Crush  
- `3350` Gunshot  
- `3360` Pain without swelling/bruising  
- `3370` Soft Tissue Swelling/bruising

**AZ-PIERS Additional Values**
- `699000` Abrasions  
- `699001` Avulsion  
- `699002` Crepitus  
- `699003` Deformity  
- `699004` Ecchymosis  
- `699005` Foreign Body  
- `699006` Pain/tenderness  
- `699007` Burn Redness  
- `699008` Burn Blistering  
- `699009` Burn Charring  
- `699010` Burn White/Waxy  
- `699011` Flail Segment-Left  
- `699012` Flail Segment-Right

**Additional Information**
- Blunt Injury Removed from NHTSA 1.0

**Uses**
- Part of an EMS Medical Record  
- Provides documentation of Assessment and Care  
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**
EMS personnel

**Other Associated Elements**
- `E00` Common Null Values  
- `E01_01` Patient Care Report Number

**References in NHTSA Version 1**
- Essential Element 53 Injury Description

**References to Other Databases**
- **NFIRS 5.0** EMS Module; Title: Body Site of Injury; Describes parts of the body where injuries occurred.; Pick-List (limited to 5 max body parts): Head = 1, Neck and Shoulder = 2, Thorax, Includes Chest and Back, Excludes Spine = 3, Abdomen = 4, Spine = 5, Upper Extremities = 6, Lower Extremities = 7, Internal = 8, Multiple Body Parts = 9, No Body Site of Injury = N
- **NFIRS 5.0** EMS Module; Title: Injury Type; Describes the primary injuries sustained by a patient for each part of the body.; Pick-List: Amputation = 10, Blunt Injury = 11, Burn = 12, Crush = 13, Dislocation/Fracture = 14, Gunshot = 15, Laceration = 16, Pain Without Swelling = 17, Puncture/Stab = 18, Soft Tissue Swelling = 19, Other Injury Type = 00

**ARIZONA REQUIRED**
NHTSA INJURY MATRIX ABDOMEN

Data [combo] multiple-choice

Definition
Type of injury identified and associated with the Abdomen (excluding the lumbar spine)

XSD Data Type xs:integer  XSD Domain (Simple Type) NHTSAInjuryMatrix
Multiple Entry Configuration Yes  Accepts Null Values Yes
Required in XSD No

Field Values
-25 Not Applicable  -20 Not Recorded
-15 Not Reporting  -10 Not Known
-5 Not Available  3320 Amputation
3325 Bleeding Controlled  3330 Bleeding Uncontrolled
3335 Burn  3340 Crush
3345 Dislocation Fracture  3350 Gunshot
3355 Laceration  3360 Pain without swelling/bruising
3365 Puncture/stab  3370 Soft Tissue Swelling/Brusing

AZ-PIERS Additional Values

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>700000</td>
<td>Abrasions</td>
<td>700006</td>
<td>Pain/tenderness</td>
</tr>
<tr>
<td>700001</td>
<td>Avulsion</td>
<td>700007</td>
<td>Burn Redness</td>
</tr>
<tr>
<td>700002</td>
<td>Crepitus</td>
<td>700008</td>
<td>Burn Blistering</td>
</tr>
<tr>
<td>700003</td>
<td>Deformity</td>
<td>700009</td>
<td>Burn Charring</td>
</tr>
<tr>
<td>700004</td>
<td>Ecchymosis</td>
<td>700010</td>
<td>Burn White/Waxy</td>
</tr>
<tr>
<td>700005</td>
<td>Foreign Body</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional Information
- Blunt Injury Removed from NHTSA 1.0

Uses
- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
- EMS personnel

Other Associated Elements
E00 Common Null Values  E01_01 Patient Care Report Number

References in NHTSA Version 1
Essential Element 53 Injury Description

References to Other Databases
- NFIRS 5.0 EMS Module; Title: Body Site of Injury; Describes parts of the body where injuries occurred.; Pick-List (limited to 5 max body parts): Head = 1, Neck and Shoulder = 2, Thorax, Includes Chest and Back, Excludes Spine = 3, Abdomen = 4, Spine = 5, Upper Extremities = 6, Lower Extremities = 7, Internal = 8, Multiple Body Parts = 9, No Body Site of Injury = N
- NFIRS 5.0 EMS Module; Title: Injury Type; Describes the primary injuries sustained by a patient for each part of the body.; Pick-List: Amputation = 10, Blunt Injury = 11, Burn = 12, Crush = 13, Dislocation/Fracture = 14, Gunshot = 15, Laceration = 16, Pain Without Swelling = 17, Puncture/Stab = 18, Soft Tissue Swelling = 19, Other Injury Type = 00

ARIZONA REQUIRED
NHTSA INJURY MATRIX SPINE

Data [combo] multiple-choice

Definition Type of injury identified and associated with the Spine

XSD Data Type xs:integer XSD Domain (Simple Type) NHTSAInjuryMatrix
Multiple Entry Configuration Yes Accepts Null Values Yes
Required in XSD No

Field Values
-25 Not Applicable
-15 Not Reporting
-5 Not Available
3325 Bleeding Controlled
3335 Burn
3345 Dislocation Fracture
3355 Laceration
3365 Puncture/stab

AZ-PIERS Additional Values
701000 Abrasions
701001 Avulsion
701002 Crepitus
701003 Deformity
701004 Ecchymosis
701005 Foreign Body

701006 Pain/tenderness
701007 Burn Redness
701008 Burn Blistering
701009 Burn Charring
701010 Burn White/Waxy

Additional Information
● Blunt Injury Removed from NHTSA 1.0

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● EMS personnel

Other Associated Elements
E00 Common Null Values E01_01 Patient Care Report Number

References in NHTSA Version 1
Essential Element 53 Injury Description

References to Other Databases
● NFIRS 5.0 EMS Module; Title: Body Site of Injury; Describes parts of the body where injuries occurred.; Pick-List (limited to 5 max body parts): Head = 1, Neck and Shoulder = 2, Thorax, Includes Chest and Back, Excludes Spine = 3, Abdomen = 4, Spine = 5, Upper Extremities = 6, Lower Extremities = 7, Internal = 8, Multiple Body Parts = 9, No Body Site of Injury = N

● NFIRS 5.0 EMS Module; Title: Injury Type; Describes the primary injuries sustained by a patient for each part of the body.; Pick-List: Amputation = 10, Blunt Injury = 11, Burn = 12, Crush = 13, Dislocation/Fracture = 14, Gunshot = 15, Laceration = 16, Pain Without Swelling = 17, Puncture/Stab = 18, Soft Tissue Swelling = 19, Other Injury Type = 00

ARIZONA REQUIRED
NHTSA INJURY MATRIX UPPER EXTREMITIES

Data  [combo] multiple-choice

Definition
Type of injury identified and associated with the Upper Extremities

XSD Data Type  xs:integer  XSD Domain (Simple Type)  NHTSAInjuryMatrix
Multiple Entry Configuration  Yes  Accepts Null Values  Yes
Required in XSD  No

Field Values
-25  Not Applicable
-15  Not Reporting
-5  Not Available
3325  Bleeding Controlled
3335  Burn
3345  Dislocation Fracture
3355  Laceration
3365  Puncture/stab

AZ-PIERS Additional Values
702000  Abrasions
702001  Avulsion
702002  Crepitus
702003  Deformity
702004  Ecchymosis
702005  Foreign Body
702006  Pain/tenderness
702007  Burn Redness
702008  Burn Blistering
702009  Burn Charring
702010  Burn White/Waxy

Additional Information
● Blunt Injury Removed from NHTSA 1.0

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● EMS personnel

Other Associated Elements
E00  Common Null Values
E01_01  Patient Care Report Number

References in NHTSA Version 1
Essential  Element 53  Injury Description

References to Other Databases
● NFIRS 5.0  EMS Module; Title: Body Site of Injury; Describes parts of the body where injuries occurred.; Pick-List (limited to 5 max body parts): Head = 1, Neck and Shoulder = 2, Thorax, Includes Chest and Back, Excludes Spine = 3, Abdomen = 4, Spine = 5, Upper Extremities = 6, Lower Extremities = 7, Internal = 8, Multiple Body Parts = 9, No Body Site of Injury = N

● NFIRS 5.0  EMS Module; Title: Injury Type; Describes the primary injuries sustained by a patient for each part of the body.; Pick-List: Amputation = 10, Blunt Injury = 11, Burn = 12, Crush = 13, Dislocation/Fracture = 14, Gunshot = 15, Laceration = 16, Pain Without Swelling = 17, Puncture/Stab = 18, Soft Tissue Swelling = 19, Other Injury Type = 00

ARIZONA REQUIRED
NHTSA INJURY MATRIX PELVIS

Data [combo] multiple-choice

Definition
Type of injury identified and associated with the Pelvis

XSD Data Type xs:integer
XSD Domain (Simple Type) NHTSAInjuryMatrix
Multiple Entry Configuration Yes
Accepts Null Values Yes
Required in XSD No

Field Values
-25 Not Applicable
-15 Not Reporting
-5 Not Available
3325 Bleeding Controlled
3335 Burn
3345 Dislocation Fracture
3355 Laceration
3365 Puncture/stab

-20 Not Recorded
-10 Not Known
3330 Bleeding Uncontrolled
3340 Crush
3350 Gunshot
3360 Pain without swelling/bruising
3370 Soft Tissue Swelling/Bruiising

AZ-PIERS Additional Values
703000 Abrasions
703001 Avulsion
703002 Crepitus
703003 Deformity
703004 Ecchymosis
703005 Foreign Body
703006 Pain/tenderness
703007 Burn Redness
703008 Burn Blistering
703009 Burn Charring
703010 Burn White/Waxy
703011 Priapism

Additional Information
● Blunt Injury Removed from NHTSA 1.0

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● EMS personnel

Other Associated Elements
E00 Common Null Values
E01_01 Patient Care Report Number

References in NHTSA Version 1
Essential Element 53 Injury Description

References to Other Databases
● NFIRS 5.0 EMS Module; Title: Body Site of Injury; Describes parts of the body where injuries occurred.; Pick-List (limited to 5 max body parts): Head = 1, Neck and Shoulder = 2, Thorax, Includes Chest and Back, Excludes Spine = 3, Abdomen = 4, Spine = 5, Upper Extremities = 6, Lower Extremities = 7, Internal = 8, Multiple Body Parts = 9, No Body Site of Injury = N

● NFIRS 5.0 EMS Module; Title: Injury Type; Describes the primary injuries sustained by a patient for each part of the body.; Pick-List: Amputation = 10, Blunt Injury = 11, Burn = 12, Crush = 13, Dislocation/Fracture = 14, Gunshot = 15, Laceration = 16, Pain Without Swelling = 17, Puncture/Stab = 18, Soft Tissue Swelling = 19, Other Injury Type = 00

ARIZONA REQUIRED
NHTSA INJURY MATRIX LOWER EXTREMITIES

Data [combo] multiple-choice

Definition
Type of injury identified and associated with the Lower Extremities

XSD Data Type xs:integer
XSD Domain (Simple Type) NHTSAInjuryMatrix
Multiple Entry Configuration Yes
Accepts Null Values Yes
Required in XSD No

Field Values
-25 Not Applicable
-15 Not Reporting
-5 Not Available
3325 Bleeding Controlled
3335 Burn
3345 Dislocation Fracture
3355 Laceration
3365 Puncture/stab
-20 Not Recorded
-10 Not Known
3330 Bleeding Uncontrolled
3340 Crush
3350 Gunshot
3360 Pain without swelling/bruising
3370 Soft Tissue Swelling/Bruiising

AZ-PIERS Additional Values
704000 Abrasions
704001 Avulsion
704002 Crepitus
704003 Deformity
704004 Ecchymosis
704005 Foreign Body
704006 Pain/tenderness
704007 Burn Redness
704008 Burn Blistering
704009 Burn Charring
704010 Burn White/Waxy

Additional Information
● Blunt Injury Removed from NHTSA 1.0

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● EMS personnel

Other Associated Elements
E00 Common Null Values
E01_01 Patient Care Report Number

References in NHTSA Version 1
Essential Element 53 Injury Description

References to Other Databases
● NFIRS 5.0 EMS Module; Title: Body Site of Injury; Describes parts of the body where injuries occurred.; Pick-List (limited to 5 max body parts): Head = 1, Neck and Shoulder = 2, Thorax, Includes Chest and Back, Excludes Spine = 3, Abdomen = 4, Spine = 5, Upper Extremities = 6, Lower Extremities = 7, Internal = 8, Multiple Body Parts = 9, No Body Site of Injury = N
● NFIRS 5.0 EMS Module; Title: Injury Type; Describes the primary injuries sustained by a patient for each part of the body.; Pick-List: Amputation = 10, Blunt Injury = 11, Burn = 12, Crush = 13, Dislocation/Fracture = 14, Gunshot = 15, Laceration = 16, Pain Without Swelling = 17, Puncture/Stab = 18, Soft Tissue Swelling = 19, Other Injury Type = 00

ARIZONA REQUIRED
NHTSA INJURY MATRIX UNSPECIFIED

Data | [combo] multiple-choice

Definition | Type of injury identified and associated with Unspecified

| XSD Data Type | xs:integer |
| XSD Domain (Simple Type) | NHTSAInjuryMatrix |
| Multiple Entry Configuration | Yes |
| Accepts Null Values | Yes |
| Required in XSD | No |

Field Values

-25 Not Applicable
-15 Not Reporting
-10 Not Known
-20 Not Recorded
3320 Amputation
3330 Bleeding Uncontrolled
3340 Crush
3350 Gunshot
3360 Pain without swelling/bruising
3370 Soft Tissue Swelling/Bruiising

AZ-PIERS Additional Values

| 705000 | Abrasions |
| 705001 | Avulsion |
| 705002 | Crepitus |
| 705003 | Deformity |
| 705004 | Ecchymosis |
| 705005 | Foreign Body |
| 705006 | Pain/tenderness |
| 705007 | Burn Redness |
| 705008 | Burn Blistering |
| 705009 | Burn Charring |
| 705010 | Burn White/Waxy |

Additional Information

● Blunt Injury Removed from NHTSA 1.0

Uses

● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector

● EMS personnel

Other Associated Elements

| E00 | Common Null Values |
| E01_01 | Patient Care Report Number |

References in NHTSA Version 1

Essential Element 53 Injury Description

References to Other Databases

● NFIRS 5.0 EMS Module; Title: Body Site of Injury; Describes parts of the body where injuries occurred.; Pick-List (limited to 5 max body parts); Head = 1, Neck and Shoulder = 2, Thorax, Includes Chest and Back, Excludes Spine = 3, Abdomen = 4, Spine = 5, Upper Extremities = 6, Lower Extremities = 7, Internal = 8, Multiple Body Parts = 9, No Body Site of Injury = N

● NFIRS 5.0 EMS Module; Title: Injury Type; Describes the primary injuries sustained by a patient for each part of the body.; Pick-List; Amputation = 10, Blunt Injury = 11, Burn = 12, Crush = 13, Dislocation/Fracture = 14, Gunshot = 15, Laceration = 16, Pain Without Swelling = 17, Puncture/Stab = 18, Soft Tissue Swelling = 19, Other Injury Type = 00

ARIZONA REQUIRED
Assessment/ Exam
ESTIMATED BODY WEIGHT

Data [number]

Definition
The patient's body weight in kilograms, either measured or estimated

XSD Data Type xs:integer  XSD Domain (Simple Type) EstimatedBodyWeight
Multiple Entry Configuration No  Accepts Null Values No
Required in XSD No  Minimum Constraint 1  Maximum Constraint 500

Field Values

Uses
- Part of an EMS Medical Record and to better determine equipment sizes and medication dosages
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
- EMS personnel

Other Associated Elements
E01_01  Patient Care Report Number

ARIZONA REQUIRED
DATE/TIME OF ASSESSMENT

[Date/Time]

Definition
The date/time assessment was made on the patient.

XSD Data Type: xs:dateTime
XSD Domain (Simple Type): DateTime

Multiple Entry Configuration: Yes, via structure
Accepts Null Values: Yes, but null value is blank or empty

Required in XSD: No
Minimum Constraint: 1,990
Maximum Constraint: 2,030

XSD Structure: All data elements beginning with E16_03 and ending with E16_24 are all members of E16_00_0 Assessment Structure

Field Values

Additional Information
- If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used.
- This is a multiple entry configuration which will allow multiple assessments to be documented.

Uses
- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
- EMS personnel or may be provided electronically through a medical device

Other Associated Elements

- E01_01 Patient Care Report Number
- E16_05 Head/Face Assessment
- E16_07 Chest/Lungs Assessment
- E16_09 Abdomen Left Upper Assessment
- E16_11 Abdomen Right Upper Assessment
- E16_13 GU Assessment
- E16_15 Back Thoracic Assessment
- E16_17 Extremities-Right Upper Assessment
- E16_19 Extremities-Left Upper Assessment
- E16_21 Eyes-Left Assessment
- E16_23 Mental Status Assessment
- E16_04 Skin Assessment
- E16_06 Neck Assessment
- E16_08 Heart Assessment
- E16_10 Abdomen Left Lower Assessment
- E16_12 Abdomen Right Lower Assessment
- E16_14 Back Cervical Assessment
- E16_16 Back Lumbar/Sacral Assessment
- E16_18 Extremities-Right Lower Assessment
- E16_20 Extremities-Left Lower Assessment
- E16_22 Eyes-Right Assessment
- E16_24 Neurological Assessment

Optional
Data [combo] multiple-choice

Definition
The assessment of the patient's skin on examination

XSD Data Type xs:integer XSD Domain (Simple Type) SkinAssessment
Multiple Entry Configuration Yes, via structure Accepts Null Values Yes

Required in XSD No
XSD Structure: All data elements beginning with E16_03 and ending with E16_24 are all members of E16_00_0 Assessment Structure

Field Values
-25 Not Applicable
-20 Not Recorded
-15 Not Reporting
-10 Not Known
-5 Not Available
3420 Normal
3425 Not Done
3430 Clammy
3435 Cold
3440 Cyanotic
3445 Jaundiced
3450 Lividity
3455 Mottled
3460 Pale
3465 Warm

Additional Information
● Associated in Database schema to Date/Time (E16_03) to allow multiple assessments

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● EMS personnel

Other Associated Elements
E00 Common Null Values
E16_03 Date/Time of Assessment
E16_06 Neck Assessment
E16_08 Heart Assessment
E16_10 Abdomen Left Lower Assessment
E16_12 Abdomen Right Lower Assessment
E16_14 Back Cervical Assessment
E16_16 Back Lumbar/Sacral Assessment
E16_18 Extremities-Right Lower Assessment
E16_20 Extremities-Left Lower Assessment
E16_22 Eyes-Right Assessment
E16_24 Neurological Assessment
E01_01 Patient Care Report Number
E16_05 Head/Face Assessment
E16_07 Chest/Lungs Assessment
E16_09 Abdomen Left Upper Assessment
E16_11 Abdomen Right Upper Assessment
E16_13 GU Assessment
E16_15 Back Thoracic Assessment
E16_17 Extremities-Right Upper Assessment
E16_19 Extremities-Left Upper Assessment
E16_21 Eyes-Left Assessment
E16_23 Mental Status Assessment

References in NHTSA Version 1
Desirable Element 72 Skin Perfusion

Optional
HEAD/ FACE ASSESSMENT

Data [combo] multiple-choice

Definition
The assessment of the patient’s face on examination

XSD Data Type xs:integer
XSD Domain (Simple Type) HeadFaceAssessment
Multiple Entry Configuration Yes, via structure
Accepts Null Values Yes
Required in XSD No

XSD Structure: All data elements beginning with E16_03 and ending with E16_24 are all members of E16_00_0 Assessment Structure

Field Values

-25 Not Applicable
-20 Not Recorded
-15 Not Reporting
-10 Not Known
-5 Not Available
3470 Normal
3480 Asymmetric Smile or Droop
3485 Drainage
3490 Mass/Lesion
3495 Swelling

Additional Information
● Associated in Database schema to Date/Time (E16_03) to allow multiple assessments

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● EMS personnel

Other Associated Elements

E00 Common Null Values
E16_03 Date/Time of Assessment
E16_06 Neck Assessment
E16_08 Heart Assessment
E16_10 Abdomen Left Lower Assessment
E16_12 Abdomen Right Lower Assessment
E16_14 Back Cervical Assessment
E16_16 Back Lumbar/Sacral Assessment
E16_18 Extremities-Right Lower Assessment
E16_20 Extremities-Left Lower Assessment
E16_22 Eyes-Right Assessment
E16_24 Neurological Assessment

Optional
**NECK ASSESSMENT**

**Data**
(combo) multiple-choice

**Definition**
The assessment of the patient's head & neck area on examination

**XSD Data Type**  xs:integer  
**XSD Domain (Simple Type)**  NeckAssessment

**Multiple Entry Configuration**  Yes, via structure  
**Accepts Null Values**  Yes

**Required in XSD**  No

**XSD Structure:** All data elements beginning with E16_03 and ending with E16_24 are all members of E16_00_0 Assessment Structure

**Field Values**
- 25 Not Applicable  
- 15 Not Reporting  
- 0 Not Available  
- 20 Not Recorded  
- 10 Not Known  
- 5 Not Available  
- 3500 Normal  
- 3510 JVD  
- 3520 SubQ Air

3525 Tracheal Dev

**Additional Information**
- Associated in Database schema to Date/Time (E16_03) to allow multiple assessments

**Uses**
- Part of an EMS Medical Record  
- Provides documentation of Assessment and Care  
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**
- EMS personnel

**Other Associated Elements**

- **E00**  Common Null Values
- **E16_03**  Date/Time of Assessment
- **E16_05**  Head/Face Assessment
- **E16_08**  Heart Assessment
- **E16_10**  Abdomen Left Lower Assessment
- **E16_12**  Abdomen Right Lower Assessment
- **E16_14**  Back Cervical Assessment
- **E16_16**  Back Lumbar/Sacral Assessment
- **E16_18**  Extremities-Right Lower Assessment
- **E16_20**  Extremities-Left Lower Assessment
- **E16_22**  Eyes-Right Assessment
- **E16_24**  Neurological Assessment

- **E01_01**  Patient Care Report Number
- **E16_04**  Skin Assessment
- **E16_07**  Chest/Lungs Assessment
- **E16_09**  Abdomen Left Upper Assessment
- **E16_11**  Abdomen Right Upper Assessment
- **E16_13**  GU Assessment
- **E16_15**  Back Thoracic Assessment
- **E16_17**  Extremities-Right Upper Assessment
- **E16_19**  Extremities-Left Upper Assessment
- **E16_21**  Eyes-Left Assessment
- **E16_23**  Mental Status Assessment

Optional
**CHEST/ LUNGS ASSESSMENT**

**Data**  
[combo] multiple-choice

**Definition**  
The assessment of the patient's chest on examination

**XSD Data Type**  
xs:integer

**XSD Domain (Simple Type)**  
ChestLungsAssessment

**Multiple Entry Configuration**  
Yes, via structure

**Accepts Null Values**  
Yes

**Required in XSD**  
No

**XSD Structure:** All data elements beginning with E16_03 and ending with E16_24 are all members of E16_00_0 Assessment Structure

**Field Values**

-25 Not Applicable  
-15 Not Reporting  
-5 Not Available

-20 Not Recorded  
-10 Not Known  
3530 Normal

3535 Not Done  
3540 Accessory Muscles  
3545 Decreased BS-Left  
3545 Decreased BS-Right  
3550 Flail Segment-Left  
3550 Flail Segment-Right  
3555 Increased Effort  
3570 Normal BS  
3575 Rales  
3580 Rhonchi/Wheezing  
3585 Tenderness-Left  
3590 Tenderness-Right

**Additional Information**

- Associated in Database schema to Date/Time (E16_03) to allow multiple assessments

**Uses**

- Part of an EMS Medical Record  
- Provides documentation of Assessment and Care  
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**

- EMS personnel

**Other Associated Elements**

<table>
<thead>
<tr>
<th>E00</th>
<th>Common Null Values</th>
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<th>Patient Care Report Number</th>
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<tbody>
<tr>
<td>E16_03</td>
<td>Date/Time of Assessment</td>
<td>E16_04</td>
<td>Skin Assessment</td>
</tr>
<tr>
<td>E16_05</td>
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<td>Heart Assessment</td>
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<td>Abdomen Right Lower Assessment</td>
<td>E16_13</td>
<td>GU Assessment</td>
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<td>Back Thoracic Assessment</td>
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<td>E16_16</td>
<td>Back Lumbar/Sacral Assessment</td>
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<td>Extremities-Right Upper Assessment</td>
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<td>E16_22</td>
<td>Eyes-Left Assessment</td>
<td>E16_23</td>
<td>Mental Status Assessment</td>
</tr>
<tr>
<td>E16_24</td>
<td>Neurological Assessment</td>
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<td></td>
</tr>
</tbody>
</table>

Optional
HEART ASSESSMENT

Data [combo] multiple-choice

Definition
The assessment of the patient's heart on examination

XSD Data Type xs:integer
XSD Domain (Simple Type) HeartAssessment

Multiple Entry Configuration Yes, via structure
Accepts Null Values Yes

Required in XSD No

XSD Structure: All data elements beginning with E16_03 and ending with E16_24 are all members of E16_00_0 Assessment Structure

Field Values
-25 Not Applicable
-15 Not Reporting
-5 Not Available

-20 Not Recorded
-10 Not Known

3595 Normal
3600 Not Done
3605 Decreased Sounds
3610 Murmur

Additional Information
- Associated in Database schema to Date/Time (E16_03) to allow multiple assessments

Uses
- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
- EMS personnel

Other Associated Elements
E00 Common Null Values
E16_03 Date/Time of Assessment
E16_05 Head/Face Assessment
E16_06 Neck Assessment
E16_07 Chest/Lungs Assessment
E16_09 Abdomen Left Upper Assessment
E16_10 Abdomen Left Lower Assessment
E16_11 Abdomen Right Upper Assessment
E16_12 Abdomen Right Lower Assessment
E16_13 GU Assessment
E16_14 Back Cervical Assessment
E16_15 Back Thoracic Assessment
E16_16 Back Lumbar/Sacral Assessment
E16_17 Extremities-Right Upper Assessment
E16_18 Extremities-Right Lower Assessment
E16_19 Extremities-Left Upper Assessment
E16_20 Extremities-Left Lower Assessment
E16_21 Eyes-Left Assessment
E16_22 Eyes-Right Assessment
E16_23 Mental Status Assessment
E16_24 Neurological Assessment

Optional
**ABDOMEN LEFT UPPER ASSESSMENT**

**Data**
[combo] multiple-choice

**Definition**
The assessment of the patient's left upper abdomen on examination

**XSD Data Type**  
xs:integer

**XSD Domain (Simple Type)**  
AbdomenLeftUpperAssessment

**Required in XSD**  
No

**Multiple Entry Configuration**
Yes, via structure

Accepts Null Values  
Yes

**Required in XSD Structure**
XSD Structure: All data elements beginning with E16_03 and ending with E16_24 are all members of E16_00_0 Assessment Structure

**Field Values**

-25 Not Applicable
-15 Not Reporting
-10 Not Known
-5 Not Available

3615 Normal
3620 Not Done
3625 Distention
3630 Guarding
3635 Mass
3640 Tenderness

**Additional Information**
- Associated in Database schema to Date/Time (E16_03) to allow multiple assessments

**Uses**
- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**
EMS personnel

**Other Associated Elements**

<table>
<thead>
<tr>
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<th>Common Null Values</th>
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<td>Date/Time of Assessment</td>
</tr>
<tr>
<td>E16_05</td>
<td>Head/Face Assessment</td>
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<td>E16_07</td>
<td>Chest/Lungs Assessment</td>
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<td>E16_22</td>
<td>Eyes-Right Assessment</td>
</tr>
<tr>
<td>E16_24</td>
<td>Neurological Assessment</td>
</tr>
</tbody>
</table>

| E01_01 | Patient Care Report Number |
| E16_04 | Skin Assessment |
| E16_06 | Neck Assessment |
| E16_08 | Heart Assessment |
| E16_11 | Abdomen Right Upper Assessment |
| E16_13 | GU Assessment |
| E16_15 | Back Thoracic Assessment |
| E16_17 | Extremities-Right Upper Assessment |
| E16_19 | Extremities-Left Upper Assessment |
| E16_21 | Eyes-Left Assessment |
| E16_23 | Mental Status Assessment |

Optional
**ABDOMEN LEFT LOWER ASSESSMENT**

**Data**
[combo] multiple-choice

**Definition**
The assessment of the patient's left lower abdomen on examination

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
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</thead>
<tbody>
<tr>
<td>XSD Domain (Simple Type)</td>
<td>AbdomenLowerLeftAssessment</td>
</tr>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes, via structure</td>
</tr>
<tr>
<td>Accepts Null Values</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Required in XSD**
No

**XSD Structure:**
All data elements beginning with E16_03 and ending with E16_24 are all members of E16_00_0 Assessment Structure

**Field Values**
-25 Not Applicable
-15 Not Reporting
-10 Not Known
-5 Not Available
3645 Normal
3650 Not Done
3655 Distention
3660 Guarding
3665 Mass
3670 Tenderness

**AZ-PIERS Additional Values**

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
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<tbody>
<tr>
<td>723000</td>
<td>Rebound Tenderness</td>
</tr>
<tr>
<td>723001</td>
<td>Rash</td>
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<tr>
<td>723002</td>
<td>Rigid</td>
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</table>

**AZ-PIERS Additional Values**

**Additional Information**
- Associated in Database schema to Date/Time (E16_03) to allow multiple assessments

**Uses**
- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**
EMS personnel

**Other Associated Elements**

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
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<tbody>
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<td>Heart Assessment</td>
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<td>E16_11</td>
<td>Abdomen Right Upper Assessment</td>
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<tr>
<td>E16_13</td>
<td>GU Assessment</td>
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<td>E16_15</td>
<td>Back Thoracic Assessment</td>
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<tr>
<td>E16_21</td>
<td>Eyes-Left Assessment</td>
</tr>
<tr>
<td>E16_23</td>
<td>Mental Status Assessment</td>
</tr>
</tbody>
</table>

Optional
ABDOMEN RIGHT UPPER ASSESSMENT

Data [combo] multiple-choice

Definition
The assessment of the patient's right upper abdomen on examination

XSD Data Type xs:integer XSD Domain (Simple Type) AbdomenRightUpperAssessment
Multiple Entry Configuration Yes, via structure Accepts Null Values Yes
Required in XSD No
XSD Structure: All data elements beginning with E16_03 and ending with E16_24 are all members of E16_00_0 Assessment Structure

Field Values
-25 Not Applicable -20 Not Recorded
-15 Not Reporting -10 Not Known
-5 Not Available 3675 Normal
3680 Not Done 3685 Distention
3690 Guarding 3695 Mass
3700 Tenderness

AZ-PIERS Additional Values

| 724000 | Rebound Tenderness |
| 724001 | Rash |
| 724002 | Rigid |

Additional Information
• Associated in Database schema to Date/Time (E16_03) to allow multiple assessments

Uses
• Part of an EMS Medical Record
• Provides documentation of Assessment and Care
• Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
• EMS personnel

Other Associated Elements
E00 Common Null Values E01_01 Patient Care Report Number
E16_03 Date/Time of Assessment E16_04 Skin Assessment
E16_05 Head/Face Assessment E16_06 Neck Assessment
E16_07 Chest/Lungs Assessment E16_08 Heart Assessment
E16_09 Abdomen Left Upper Assessment E16_10 Abdomen Left Lower Assessment
E16_12 Abdomen Right Lower Assessment E16_13 GU Assessment
E16_14 Back Cervical Assessment E16_15 Back Thoracic Assessment
E16_16 Back Lumbar/Sacral Assessment E16_17 Extremities-Right Upper Assessment
E16_18 Extremities-Right Lower Assessment E16_19 Extremities-Left Upper Assessment
E16_20 Extremities-Left Lower Assessment E16_21 Eyes-Left Assessment
E16_22 Eyes-Right Assessment E16_23 Mental Status Assessment
E16_24 Neurological Assessment

Optional
ABDOMEN RIGHT LOWER ASSESSMENT

**Data**
[combo multiple-choice]

**Definition**
The assessment of the patient's right lower abdomen on examination

**XSD Data Type** xs:integer  
**XSD Domain (Simple Type)** AbdomenRightLowerAssessment

**Multiple Entry Configuration** Yes, via structure  
**Accepts Null Values** Yes

**Required in XSD** No

**XSD Structure**: All data elements beginning with E16_03 and ending with E16_24 are all members of E16_00_0 Assessment Structure

**Field Values**
-25 Not Applicable  
-15 Not Reporting  
-10 Not Known  
-5 Not Available  
3705 Normal  
3710 Not Done  
3715 Distention  
3720 Guarding  
3725 Mass

**AZ-PIERS Additional Values**

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**Additional Information**
- Associated in Database schema to Date/Time (E16_03) to allow multiple assessments

**Uses**
- Part of an EMS Medical Record  
- Provides documentation of Assessment and Care  
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**
- EMS personnel

**Other Associated Elements**

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<td>E16_23</td>
<td>Mental Status Assessment</td>
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</table>
GU ASSESSMENT

Data  [combo] multiple-choice

Definition
The assessment of the patient's GU area on examination

XSD Data Type  xs:integer  XSD Domain (Simple Type)  GUAssessment
Multiple Entry Configuration  Yes, via structure  Accepts Null Values  Yes
Required in XSD  No
XSD Structure: All data elements beginning with E16_03 and ending with E16_24 are all members of E16_00_0 Assessment Structure

Field Values
-25 Not Applicable
-15 Not Reporting
-10 Not Known
-5 Not Available
-20 Not Recorded
-10 Not Known
3735 Normal
3740 Not Done
3745 Crowning
3750 Genital Injury
3755 Tenderness
3760 Unstable

AZ-PIERS Additional Values

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<td>Foreign body</td>
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<td>Blood from Vagina</td>
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<td>Blood from Penis</td>
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Additional Information
• Associated in Database schema to Date/Time (E16_03) to allow multiple assessments

Uses
• Part of an EMS Medical Record
• Provides documentation of Assessment and Care
• Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
• EMS personnel

Other Associated Elements

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<td>Mental Status Assessment</td>
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Optional
DEFINITION
The assessment of the patient's back-cervical on examination

XSD Data Type: xs:integer
XSD Domain (Simple Type): BackCervicalAssessment
XSD Multiple Entry Configuration: Yes, via structure
Accepts Null Values: Yes
Required in XSD: No

XSD Structure: All data elements beginning with E16_03 and ending with E16_24 are all members of E16_00_0 Assessment Structure

FIELD VALUES
-25 Not Applicable
-20 Not Recorded
-15 Not Reporting
-10 Not Known
-5 Not Available
3765 Normal
3770 Not Done
3775 Pain to ROM
3780 Tender Para-spinous
3785 Tender Spinous Process

ADDITIONAL INFORMATION
- Associated in Database schema to Date/Time (E16_03) to allow multiple assessments

USES
- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

DATA COLLECTOR
EMS personnel

OTHER ASSOCIATED ELEMENTS
E00 Common Null Values
E01_01 Patient Care Report Number
E01_03 Date/Time of Assessment
E01_04 Skin Assessment
E01_05 Head/Face Assessment
E01_06 Neck Assessment
E01_07 Chest/Lungs Assessment
E01_08 Heart Assessment
E01_09 Abdomen Left Upper Assessment
E01_10 Abdomen Left Lower Assessment
E01_11 Abdomen Right Upper Assessment
E01_12 Abdomen Right Lower Assessment
E01_13 GU Assessment
E01_15 Back Thoracic Assessment
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E01_17 Extremities-Right Upper Assessment
E01_18 Extremities-Right Lower Assessment
E01_19 Extremities-Left Upper Assessment
E01_20 Extremities-Left Lower Assessment
E01_21 Eyes-Left Assessment
E01_22 Eyes-Right Assessment
E01_23 Mental Status Assessment
E01_24 Neurological Assessment

Optional
BACK THORACIC ASSESSMENT

Data  [combo] multiple-choice

Definition
The assessment of the patient's back-thoracic on examination

XSD Data Type  xs:integer  XSD Domain (Simple Type)  BackThoracicAssessment
Multiple Entry Configuration  Yes, via structure  Accepts Null Values  Yes
Required in XSD  No
XSD Structure: All data elements beginning with E16_03 and ending with E16_24 are all members of E16_00_0 Assessment Structure

Field Values
-25 Not Applicable  -20 Not Recorded
-15 Not Reporting  -10 Not Known
-5 Not Available  3790 Normal
3795 Not Done  3800 Pain to ROM
3805 Tender Para-spinous  3810 Tender Spinous Process

Additional Information
● Associated in Database schema to Date/Time (E16_03) to allow multiple assessments

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● EMS personnel

Other Associated Elements
E00  Common Null Values  E01_01  Patient Care Report Number
E16_03  Date/Time of Assessment  E16_04  Skin Assessment
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E16_20  Extremities-Left Lower Assessment  E16_21  Eyes-Left Assessment
E16_22  Eyes-Right Assessment  E16_23  Mental Status Assessment
E16_24  Neurological Assessment

Optional
**BACK LUMBAR/ SACRAL ASSESSMENT**

**Data**
[combo] multiple-choice

**Definition**
The assessment of the patient's back-lumbar/sacral on examination

**XSD Data Type**  xs:integer  **XSD Domain (Simple Type)** BackLumbarSacralAssessment

**Multiple Entry Configuration** Yes, via structure  **Accepts Null Values** Yes

**Required in XSD** No

XSD Structure: All data elements beginning with E16_03 and ending with E16_24 are all members of E16_00_0 Assessment Structure

**Field Values**
-25 Not Applicable  -20 Not Recorded
-15 Not Reporting  -10 Not Known
-5 Not Available  3815 Normal
3820 Not Done  3825 Pain to ROM
3830 Tender Para-spinous  3835 Tender Spinous Process

**Additional Information**
- Associated in Database schema to Date/Time (E16_03) to allow multiple assessments

**Uses**
- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**
- EMS personnel

**Other Associated Elements**

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<tr>
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<td>Mental Status Assessment</td>
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</table>

Optional
EXTREMITIES-RIGHT UPPER ASSESSMENT

Data [combo] multiple-choice

Definition
The assessment of the patient's right upper extremities on examination

XSD Data Type xs:integer
XSD Domain (Simple Type) ExtremitiesRightUpperAssessment

Multiple Entry Configuration Yes, via structure
Accepts Null Values Yes

Required in XSD No

XSD Structure: All data elements beginning with E16_03 and ending with E16_24 are all members of E16_00_0 Assessment Structure

Field Values
-25 Not Applicable
-15 Not Reporting
-5 Not Available
-20 Not Recorded
-10 Not Known
3840 Normal
3845 Not Done
3850 Abnormal Pulse
3855 Abnormal Sensation
3860 Edema
3865 Tenderness
3870 Weakness

AZ-PIERS Additional Values
730000 Cold Extremity
730001 + C.M.S.

730002 Abnormal C.M.S.
730003 Absent Pulse

Additional Information
● Associated in Database schema to Date/Time (E16_03) to allow multiple assessments

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● EMS personnel

Other Associated Elements
E00 Common Null Values
E16_03 Date/Time of Assessment
E16_05 Head/Face Assessment
E16_07 Chest/Lungs Assessment
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E16_11 Abdomen Right Upper Assessment
E16_13 GU Assessment
E16_15 Back Thoracic Assessment
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E16_20 Extremities-Left Lower Assessment
E16_22 Eyes-Right Assessment
E16_24 Neurological Assessment

E01_01 Patient Care Report Number
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E16_08 Heart Assessment
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E16_14 Back Cervical Assessment
E16_16 Back Lumbar/Sacral Assessment
E16_19 Extremities-Left Upper Assessment
E16_21 Eyes-Left Assessment
E16_23 Mental Status Assessment

Optional
EXTREMITIES-RIGHT LOWER ASSESSMENT

Data [combo] multiple-choice

Definition
The assessment of the patient's right lower extremities on examination

XSD Data Type xs:integer XSD Domain (Simple Type) ExtremitiesRightLowerAssessment
Multiple Entry Configuration Yes, via structure Accepts Null Values Yes
Required in XSD No
XSD Structure: All data elements beginning with E16_03 and ending with E16_24 are all members of E16_00_0 Assessment Structure

Field Values
-25 Not Applicable -20 Not Recorded
-15 Not Reporting -10 Not Known
-5 Not Available 3875 Normal
3880 Not Done 3885 Abnormal Pulse
3890 Abnormal Sensation 3895 Edema
3900 Tenderness 3905 Weakness

AZ-PIERS Additional Values
731000 Cold Extremity 731002 Abnormal C.M.S.
731001 + C.M.S. 731003 Absent Pulse

Additional Information
- Associated in Database schema to Date/Time (E16_03) to allow multiple assessments

Uses
- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
- EMS personnel

Other Associated Elements
E00 Common Null Values E01_01 Patient Care Report Number
E16_03 Date/Time of Assessment E16_04 Skin Assessment
E16_05 Head/Face Assessment E16_06 Neck Assessment
E16_07 Chest/Lungs Assessment E16_08 Heart Assessment
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E16_11 Abdomen Right Upper Assessment E16_12 Abdomen Right Lower Assessment
E16_13 GU Assessment E16_14 Back Cervical Assessment
E16_15 Back Thoracic Assessment E16_16 Back Lumbar/Sacral Assessment
E16_17 Extremities-Right Upper Assessment E16_19 Extremities-Left Upper Assessment
E16_20 Extremities-Left Lower Assessment E16_21 Eyes-Left Assessment
E16_22 Eyes-Right Assessment E16_23 Mental Status Assessment
E16_24 Neurological Assessment

Optional
EXTREMITIES-LEFT UPPER ASSESSMENT

Data  [combo] multiple-choice

Definition
The assessment of the patient's left upper extremities on examination

XSD Data Type  xs:integer  XSD Domain (Simple Type)  ExtremitiesLeftUpperAssessment
Multiple Entry Configuration  Yes, via structure  Accepts Null Values  Yes
Required in XSD  No

XSD Structure: All data elements beginning with E16_03 and ending with E16_24 are all members of E16_00_0 Assessment Structure

Field Values
-25 Not Applicable  -20 Not Recorded
-15 Not Reporting  -10 Not Known
-5 Not Available  3910 Normal
3915 Not Done  3920 Abnormal Pulse
3925 Abnormal Sensation  3930 Edema
3935 Tenderness  3940 Weakness

AZ-PIERS Additional Values

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Additional Information
● Associated in Database schema to Date/Time (E16_03) to allow multiple assessments

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● EMS personnel

Other Associated Elements
E00  Common Null Values
E16_03  Date/Time of Assessment
E16_05  Head/Face Assessment
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E16_09  Abdomen Left Upper Assessment
E16_11  Abdomen Right Upper Assessment
E16_13  GU Assessment
E16_15  Back Thoracic Assessment
E16_17  Extremities-Right Upper Assessment
E16_20  Extremities-Left Lower Assessment
E16_22  Eyes-Right Assessment
E16_24  Neurological Assessment

E01_01  Patient Care Report Number
E16_04  Skin Assessment
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E16_16  Back Lumbar/Sacral Assessment
E16_18  Extremities-Right Lower Assessment
E16_21  Eyes-Left Assessment
E16_23  Mental Status Assessment

Optional
EXTREMITIES-LEFT LOWER ASSESSMENT

Data [combo] multiple-choice

Definition
The assessment of the patient's left lower extremities on examination

XSD Data Type xs:integer XSD Domain (Simple Type) ExtremitiesLeftLowerAssessment
Multiple Entry Configuration Yes, via structure Accepts Null Values Yes
Required in XSD No
XSD Structure: All data elements beginning with E16_03 and ending with E16_24 are all members of E16_00_0 Assessment Structure

Field Values
-25 Not Applicable -20 Not Recorded
-15 Not Reporting -10 Not Known
-5 Not Available 3945 Normal
3950 Not Done 3955 Abnormal Pulse
3960 Abnormal Sensation 3965 Edema
3970 Tenderness 3975 Weakness

AZ-PIERS Additional Values

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Additional Information
- Associated in Database schema to Date/Time (E16_03) to allow multiple assessments

Uses
- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
- EMS personnel

Other Associated Elements

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<td>E16_22</td>
<td>Eyes-Right Assessment</td>
<td>E16_23</td>
<td>Mental Status Assessment</td>
</tr>
<tr>
<td>E16_24</td>
<td>Neurological Assessment</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Optional
**EYES-LEFT ASSESSMENT**

**Data**  
[combo] multiple-choice

**Definition**  
The assessment of the patient's left eye on examination

**XSD Data Type**  
`xs:integer`

**XSD Domain (Simple Type)**  
`EyesLeftAssessment`

**Required in XSD**  
No

**Multiple Entry Configuration**  
Yes, via structure

**Accepts Null Values**  
Yes

**Field Values**

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-25</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>-15</td>
<td>Not Reporting</td>
</tr>
<tr>
<td>-5</td>
<td>Not Available</td>
</tr>
<tr>
<td>3980</td>
<td>Not Done</td>
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<tr>
<td>3985</td>
<td>2-mm</td>
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<tr>
<td>3995</td>
<td>4-mm</td>
</tr>
<tr>
<td>4005</td>
<td>6-mm</td>
</tr>
<tr>
<td>4015</td>
<td>Blind</td>
</tr>
<tr>
<td>4025</td>
<td>Non-Reactive</td>
</tr>
<tr>
<td>3990</td>
<td>3-mm</td>
</tr>
<tr>
<td>4000</td>
<td>5-mm</td>
</tr>
<tr>
<td>4010</td>
<td>7-mm</td>
</tr>
</tbody>
</table>

**AZ-PIERS Additional Values**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>734000</td>
<td>Sluggish</td>
</tr>
<tr>
<td>734001</td>
<td>Nystagmus</td>
</tr>
<tr>
<td>734002</td>
<td>Disconjugated</td>
</tr>
<tr>
<td>734003</td>
<td>Artificial Eye</td>
</tr>
</tbody>
</table>

**Additional Information**

- Associated in Database schema to Date/Time (E16_03) to allow multiple assessments

**Uses**

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**

- EMS personnel

**Other Associated Elements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E00</td>
<td>Common Null Values</td>
</tr>
<tr>
<td>E16_03</td>
<td>Date/Time of Assessment</td>
</tr>
<tr>
<td>E16_05</td>
<td>Head/Face Assessment</td>
</tr>
<tr>
<td>E16_07</td>
<td>Chest/Lungs Assessment</td>
</tr>
<tr>
<td>E16_09</td>
<td>Abdomen Left Upper Assessment</td>
</tr>
<tr>
<td>E16_11</td>
<td>Abdomen Right Upper Assessment</td>
</tr>
<tr>
<td>E16_13</td>
<td>GU Assessment</td>
</tr>
<tr>
<td>E16_15</td>
<td>Back Thoracic Assessment</td>
</tr>
<tr>
<td>E16_17</td>
<td>Extremities-Right Upper Assessment</td>
</tr>
<tr>
<td>E16_19</td>
<td>Extremities-Left Upper Assessment</td>
</tr>
<tr>
<td>E16_22</td>
<td>Eyes-Right Assessment</td>
</tr>
<tr>
<td>E16_24</td>
<td>Neurological Assessment</td>
</tr>
<tr>
<td>E01_01</td>
<td>Patient Care Report Number</td>
</tr>
<tr>
<td>E16_04</td>
<td>Skin Assessment</td>
</tr>
<tr>
<td>E16_06</td>
<td>Neck Assessment</td>
</tr>
<tr>
<td>E16_08</td>
<td>Heart Assessment</td>
</tr>
<tr>
<td>E16_10</td>
<td>Abdomen Left Lower Assessment</td>
</tr>
<tr>
<td>E16_12</td>
<td>Abdomen Right Lower Assessment</td>
</tr>
<tr>
<td>E16_14</td>
<td>Back Cervical Assessment</td>
</tr>
<tr>
<td>E16_16</td>
<td>Back Lumbar/Sacral Assessment</td>
</tr>
<tr>
<td>E16_18</td>
<td>Extremities-Right Lower Assessment</td>
</tr>
<tr>
<td>E16_20</td>
<td>Extremities-Left Lower Assessment</td>
</tr>
<tr>
<td>E16_23</td>
<td>Mental Status Assessment</td>
</tr>
</tbody>
</table>

**Optional**
EYES-RIGHT ASSESSMENT

Data [combo] multiple-choice

Definition
The assessment of the patient's right eye on examination

XSD Data Type xs:integer XSD Domain (Simple Type) EyesRightAssessment
Multiple Entry Configuration Yes, via structure Accepts Null Values Yes
Required in XSD No
XSD Structure: All data elements beginning with E16_03 and ending with E16_24 are all members of E16_00_0 Assessment Structure

Field Values
-25 Not Applicable
-15 Not Reporting
-10 Not Known
-5 Not Available
4035 2-mm
4045 4-mm
4055 6-mm
4065 Blind
4075 Non-Reactive

-20 Not Recorded
-10 Not Known
4030 Not Done
4040 3-mm
4050 5-mm
4060 7-mm
4070 Reactive

AZ-PIERS Additional Values
735000 Sluggish
735001 Nystagmus
735002 Disconjugated
735003 Artificial Eye
735004 8 mm or >
735005 Cataract(s) Present
735006 Glaucoma Present
735007 Pupil Deformity from Surgery/Injury

Additional Information
● Associated in Database schema to Date/Time (E16_03) to allow multiple assessments

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● EMS personnel

Other Associated Elements
E00 Common Null Values E01_01 Patient Care Report Number
E16_03 Date/Time of Assessment E16_04 Skin Assessment
E16_05 Head/Face Assessment E16_06 Neck Assessment
E16_07 Chest/Lungs Assessment E16_08 Heart Assessment
E16_09 Abdomen Left Upper Assessment E16_10 Abdomen Left Lower Assessment
E16_11 Abdomen Right Upper Assessment E16_12 Abdomen Right Lower Assessment
E16_13 GU Assessment E16_14 Back Cervical Assessment
E16_15 Back Thoracic Assessment E16_16 Back Lumbar/Sacral Assessment
E16_17 Extremities-Right Upper Assessment E16_18 Extremities-Right Lower Assessment
E16_19 Extremities-Left Upper Assessment E16_20 Extremities-Left Lower Assessment
E16_21 Eyes-Left Assessment E16_23 Mental Status Assessment
E16_24 Neurological Assessment

Optional
MENTAL STATUS ASSESSMENT

Data [combo] multiple-choice

Definition
The assessment of the patient's mental status on examination

XSD Data Type xs:integer  XSD Domain (Simple Type) MentalStatusAssessment
Multiple Entry Configuration Yes, via structure  Accepts Null Values Yes
Required in XSD No
XSD Structure: All data elements beginning with E16_03 and ending with E16_24 are all members of E16_00_0 Assessment Structure

Field Values
-25 Not Applicable -20 Not Recorded
-15 Not Reporting -10 Not Known
-5 Not Available 4080 Normal
4085 Not Done 4090 Comitative
4095 Confused 4100 Hallucinations
4105 Oriented-Person 4110 Oriented-Place
4115 Oriented-Time 4120 Unresponsive

AZ-PIERS Additional Values
736000 Responsive to Verbal Stimuli 736003 Usually Confused
736001 Responsive to Painful Stimuli 736004 Incoherent
736002 Oriented-Events 736005 Intermittent Consciousness

Additional Information
- Associated in Database schema to Date/Time (E16_03) to allow multiple assessments

Uses
- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
- EMS personnel

Other Associated Elements
E00 Common Null Values  E01_01 Patient Care Report Number
E16_03 Date/Time of Assessment  E16_04 Skin Assessment
E16_05 Head/Face Assessment  E16_06 Neck Assessment
E16_07 Chest/Lungs Assessment  E16_08 Heart Assessment
E16_09 Abdomen Left Upper Assessment  E16_10 Abdomen Left Lower Assessment
E16_11 Abdomen Right Upper Assessment  E16_12 Abdomen Right Lower Assessment
E16_13 GU Assessment  E16_14 Back Cervical Assessment
E16_15 Back Thoracic Assessment  E16_16 Back Lumbar/Sacral Assessment
E16_17 Extremities-Right Upper Assessment  E16_18 Extremities-Right Lower Assessment
E16_19 Extremities-Left Upper Assessment  E16_20 Extremities-Left Lower Assessment
E16_21 Eyes-Left Assessment  E16_22 Eyes-Right Assessment
E16_24 Neurological Assessment

ARIZONA REQUIRED
- Important for Stroke Patients and Potential Stroke Patients.
**NEUROLOGICAL ASSESSMENT**

**Definition**

The assessment of the patient's neurological status on examination

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>XSD Domain (Simple Type)</th>
<th>NeurologicalAssessment</th>
</tr>
</thead>
</table>

**Multiple Entry Configuration**

- Yes, via structure

**Accepts Null Values**

- Yes

**Required in XSD**

- No

**XSD Structure**

All data elements beginning with E16_03 and ending with E16_24 are all members of E16_00_0 Assessment Structure

**Field Values**

-25 Not Applicable
-15 Not Reporting
-5 Not Available
4130 Not Done
4140 Facial Droop
4150 Speech Normal
4160 Tremors
4170 Weakness-Right Sided

**AZ-PIERS Additional Values**

| 737000 | Decorticate Posturing            |
| 737001 | Decerebrate Posturing            |
| 737002 | Aphasic                          |
| 737003 | Postictal                        |

**Additional Information**

- Associated in Database schema to Date/Time (E16_03) to allow multiple assessments

**Uses**

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**

- EMS personnel

**Other Associated Elements**

- E00 Common Null Values
- E16_03 Date/Time of Assessment
- E16_05 Head/Face Assessment
- E16_07 Chest/Lungs Assessment
- E16_09 Abdomen Left Upper Assessment
- E16_11 Abdomen Right Upper Assessment
- E16_13 GU Assessment
- E16_15 Back Thoracic Assessment
- E16_17 Extremities-Right Upper Assessment
- E16_19 Extremities-Left Upper Assessment
- E16_21 Eyes-Left Assessment
- E16_23 Mental Status Assessment

**ARIZONA REQUIRED**

- Important for Stroke Patients and Potential Stroke Patients.
**Data**

[combo] multiple-choice

**Definition**

The protocol used by EMS personnel to direct the clinical care of the patient

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:string</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSD Domain (Simple Type)</td>
<td>ProtocolsUsed</td>
</tr>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes</td>
</tr>
<tr>
<td>Accepts Null Values</td>
<td>Yes</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>No</td>
</tr>
<tr>
<td>Minimum Constraint</td>
<td>2</td>
</tr>
<tr>
<td>Maximum Constraint</td>
<td>30</td>
</tr>
</tbody>
</table>

**Field Values**

-25 Not Applicable
-15 Not Reporting
-5 Not Available

-20 Not Recorded
-10 Not Known

**Additional Information**

- List created from Protocols (D04_08)

**Uses**

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**

- EMS personnel

**Other Associated Elements**

<table>
<thead>
<tr>
<th>E00</th>
<th>Common Null Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>E01_01</td>
<td>Patient Care Report Number</td>
</tr>
</tbody>
</table>

Optional
Intervention/ Medication
DATE/TIME MEDICATION ADMINISTERED

Data 
[date/time]

Definition 
The date/time medication administered to the patient

XSD Data Type 
xs:dateTime

XSD Domain (Simple Type) 
DateTime

Multiple Entry Configuration 
Yes, via structure

Accepts Null Values 
Yes, but null value is blank or empty

Required in XSD 
No

Minimum Constraint 
1,990

Maximum Constraint 
2,030

XSD Structure: All data elements section E18 are members of the E18 Medication Structure

Field Values

Additional Information
● If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used
● This is a multiple entry configuration which will allow multiple medication administrations to be documented

Uses
● Part of an EMS Medical Record
● Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● EMS personnel

Other Associated Elements

E01_01 Patient Care Report Number 
E18_02 Medication Administered Prior to this Units EMS Care

E18_03 Medication Given 
E18_04 Medication Administered Route

E18_05 Medication Dosage 
E18_06 Medication Dosage Units

E18_07 Response to Medication 
E18_08 Medication Complication

E18_09 Medication Crew Member ID 
E18_10 Medication Authorization

E18_11 Medication Authorizing Physician

ARIZONA REQUIRED
MEDICATION ADMINISTERED PRIOR TO THIS UNIT'S EMS CARE

**E18_02**

**Data**
[combo] single-choice

**Definition**
Indicates that the medication administration which is documented was administered prior to this EMS unit’s care.

**XSD Data Type** xs:integer
**XSD Domain (Simple Type)** YesNoValues

**Multiple Entry Configuration** Yes, via structure
**Accepts Null Values** Yes

**Required in XSD** No

XSD Structure: All data elements section E18 are members of the E18 Medication Structure

**Field Values**
-25 Not Applicable
-15 Not Reporting
-5 Not Available
1 Yes
-20 Not Recorded
-10 Not Known
0 No

**Additional Information**
● If E18_02 is “Yes”, the Date/Time Medication Administered (E18_01) is not required

**Uses**
● Part of an EMS Medical Record
● Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**
● EMS personnel

**Other Associated Elements**
- E00 Common Null Values
- E18_01 Date/Time Medication Administered
- E18_04 Medication Administered Route
- E18_06 Medication Dosage Units
- E18_08 Medication Complication
- E18_10 Medication Authorization
- E01_01 Patient Care Report Number
- E18_03 Medication Given
- E18_05 Medication Dosage
- E18_07 Response to Medication
- E18_09 Medication Crew Member ID
- E18_11 Medication Authorizing Physician

ARIZONA REQUIRED
### Definition
The medication given to the patient

#### XSD Data Type
xs:string

#### XSD Domain (Simple Type)
MedicationsGiven

#### Multiple Entry Configuration
Yes, via structure

#### Accepts Null Values
Yes

#### Required in XSD
Yes

#### Minimum Constraint
2

#### Maximum Constraint
30

XSD Structure: All data elements section E18 are members of the E18 Medication Structure

#### Field Values
-25 Not Applicable
-15 Not Reporting
-5 Not Available

#### Field Values
-20 Not Recorded
-10 Not Known

### AZ-PIERS Medication Values

<table>
<thead>
<tr>
<th></th>
<th>Medication</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>4</td>
<td>Amyl Nitrate</td>
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</tr>
<tr>
<td>8</td>
<td>Bumetanide (Bumex)</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Calcium Gluconate</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Diphenhydramine (Benadryl)</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Dexamethasone (Decadron)</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Dopamine</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Atropine Sulfate</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>Lorazepam (Ativan)</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>Meperidine (Demerol)</td>
<td></td>
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<tr>
<td>28</td>
<td>Metaproterenol (Alupent)</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>Metoclopramide (Reglan)</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>Albuterol Sulfate</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>Terbutaline (Brethine)</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>Nifedipine (Adalat, Procardia)</td>
<td></td>
</tr>
<tr>
<td>38</td>
<td>Ketorolac (Toradol)</td>
<td></td>
</tr>
<tr>
<td>39</td>
<td>Thiamine</td>
<td></td>
</tr>
<tr>
<td>41</td>
<td>Succinylcholine (Anectine)</td>
<td></td>
</tr>
<tr>
<td>42</td>
<td>Neostigmine</td>
<td></td>
</tr>
<tr>
<td>51</td>
<td>Heparin</td>
<td></td>
</tr>
<tr>
<td>60</td>
<td>Atrovent (Ipratropium Bromide)</td>
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<tr>
<td>61</td>
<td>Adenosine</td>
<td></td>
</tr>
<tr>
<td>62</td>
<td>Bretylum Tosylate</td>
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<tr>
<td>63</td>
<td>Lidocaine</td>
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</tr>
<tr>
<td>64</td>
<td>Procaainamide</td>
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<tr>
<td>65</td>
<td>Amiodorone (Cordarone)</td>
<td></td>
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<tr>
<td>66</td>
<td>Verapamil (Isoptin)</td>
<td></td>
</tr>
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<td>67</td>
<td>Isoproterenol</td>
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</tr>
<tr>
<td>68</td>
<td>Nitroprusside</td>
<td></td>
</tr>
<tr>
<td>72</td>
<td>Nitroglycerin</td>
<td></td>
</tr>
<tr>
<td>81</td>
<td>Aspirin (ASA)</td>
<td></td>
</tr>
<tr>
<td>92</td>
<td>Morphine Sulfate</td>
<td></td>
</tr>
<tr>
<td>93</td>
<td>Nubain</td>
<td></td>
</tr>
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</table>

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217
<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>Naloxone (Narcan)</td>
<td>156001</td>
</tr>
<tr>
<td>111</td>
<td>Charcoal, activated</td>
<td>156002</td>
</tr>
<tr>
<td>121</td>
<td>Diazepam (Valium)</td>
<td>156003</td>
</tr>
<tr>
<td>122</td>
<td>Midazolam (Versed)</td>
<td>156004</td>
</tr>
<tr>
<td>131</td>
<td>Magnesium Sulfate</td>
<td>156005</td>
</tr>
<tr>
<td>132</td>
<td>Furosemide (Lasix)</td>
<td>156006</td>
</tr>
<tr>
<td>141</td>
<td>Etomidate</td>
<td>156007</td>
</tr>
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<td>142</td>
<td>Droperidol (Inapsine)</td>
<td>156008</td>
</tr>
<tr>
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<td>Nitroxi (Nitrous Oxide)</td>
<td>156009</td>
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<td>151</td>
<td>Sodium bicarbonate</td>
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<td>161</td>
<td>Calcium Chloride</td>
<td>156011</td>
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<td>163</td>
<td>Labetolol</td>
<td>156012</td>
</tr>
<tr>
<td>171</td>
<td>Dextrose 50% (D50)</td>
<td>156013</td>
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<td>172</td>
<td>Reactose</td>
<td>156014</td>
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<tr>
<td>182</td>
<td>Mannitol (Osmitrol)</td>
<td>156015</td>
</tr>
<tr>
<td>201</td>
<td>Ipecac</td>
<td>156016</td>
</tr>
<tr>
<td>222</td>
<td>Methylprednisolone (Soludrol)</td>
<td>156017</td>
</tr>
<tr>
<td>231</td>
<td>Glucagon</td>
<td>156018</td>
</tr>
<tr>
<td>300</td>
<td>Dobutamine</td>
<td>156019</td>
</tr>
<tr>
<td>325</td>
<td>Fentanyl</td>
<td>156020</td>
</tr>
<tr>
<td>350</td>
<td>Metoprolol (Lopressor)</td>
<td>156021</td>
</tr>
<tr>
<td>400</td>
<td>Vecuronium (Norcuron)</td>
<td>156022</td>
</tr>
<tr>
<td>401</td>
<td>Vasopressin</td>
<td>156023</td>
</tr>
<tr>
<td>402</td>
<td>Racemic Epinephrine</td>
<td>156030</td>
</tr>
<tr>
<td>403</td>
<td>Promethazine HCL (Phenergan)</td>
<td>156031</td>
</tr>
<tr>
<td>404</td>
<td>Normal Saline</td>
<td>156032</td>
</tr>
<tr>
<td>405</td>
<td>Abciximab (Reopro)</td>
<td>156033</td>
</tr>
<tr>
<td>406</td>
<td>Tirofiban HCL (Aggrastat)</td>
<td>156034</td>
</tr>
<tr>
<td>407</td>
<td>Eptifibatide (Integrilin)</td>
<td>156035</td>
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<tr>
<td>408</td>
<td>Glutose</td>
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<tr>
<td>409</td>
<td>Hydromorphone (Dilaudid)</td>
<td>156128</td>
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<td>410</td>
<td>Rocuronium Bromide (Zemuron)</td>
<td>156214</td>
</tr>
<tr>
<td>411</td>
<td>Oxytocin (Pitocin)</td>
<td></td>
</tr>
</tbody>
</table>

**Additional Information**
- List created from Medications (D04_06)

**Uses**
- Allows data to be sorted based on the medical treatment
- Allows data to describe the medications administered by EMS
- Part of an EMS Medical Record
- Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**
- EMS personnel

**Other Associated Elements**
- **E00** Common Null Values
- **E01_01** Patient Care Report Number
- **E18_01** Date/Time Medication Administered
- **E18_02** Medication Administered Prior to this Units EMS Care
- **E18_04** Medication Administered Route
- **E18_05** Medication Dosage
References in NHTSA Version 1
Essential Element 80 Medication Name

References to Other Databases
- NFIRS 5.0 EMS Module, Title: Procedures Used, Multi Select List: Airway Insertion = 01, Anti-Shock Trousers = 02, Assisted Ventilation = 03, Bleeding Control = 04, Burn Care = 05, Cardiac Pacing = 06, Cardioversion (defib), Manual = 07, Chest/Abdominal Thrust = 08, CPR = 09, Cricothyroidotomy = 10, Defibrillation by AED = 11, EKG Monitoring = 12, Extrication = 13, Intubation (EGTA) = 14, Intubation (ET) = 15, IO/IV Therapy = 16, Medications Therapy = 17, Oxygen Therapy = 18, Obstetrical Care/Delivery = 19, Pre-Arrival Instruction = 20, Restrained Patient = 21, Spinal Immobilization = 22, Splinted Extremities = 23, Suction/Aspirate = 24, Other Procedure = 00, No Treatment = NN

ARIZONA REQUIRED
MEDICATION ADMINISTERED ROUTE

Data  [combo] single-choice

**Definition**
The route that the medication was administered to the patient.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>XSD Domain (Simple Type)</th>
<th>MedicationAdministeredRoute</th>
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</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes, via structure</td>
<td>Accepts Null Values</td>
<td>Yes</td>
</tr>
<tr>
<td>Required in XSD</td>
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</table>

XSD Structure: All data elements section E18 are members of the E18 Medication Structure

**Field Values**

-25 Not Applicable  -20 Not Recorded
-15 Not Reporting  -40 Not Known
-5 Not Available
4175 Endotracheal tube
4185 Inhalation
4191 Intranasal
4205 Intravenous
4215 Nasal prongs
4225 Ophthalmic
4235 Other/miscellaneous
4245 Re-breather mask
4255 Subcutaneous
4265 Topical
4275 Transdermal
4285 Ventimask

**AZ-PIERS Additional Values**

| 753000 | Inhalation via Nebulizer |
| 753001 | Intravenous Pump |

**Uses**

- Part of an EMS Medical Record
- Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**

- EMS personnel

**Other Associated Elements**

| E00 | Common Null Values |
| E18_01 | Date/Time Medication Administered |
| E18_03 | Medication Given |
| E18_06 | Medication Dosage Units |
| E18_08 | Medication Complication |
| E18_10 | Medication Authorization |

| E01_01 | Patient Care Report Number |
| E18_02 | Medication Administered Prior to this Units EMS Care |
| E18_05 | Medication Dosage |
| E18_07 | Response to Medication |
| E18_09 | Medication Crew Member ID |
| E18_11 | Medication Authorizing Physician |

**References to Other Databases**

- DEEDS DEEDS/HL-7 Version 2.3; [combo] Apply externally = AP, Buccal = B, Dental = DT, Epidural = EP, Endotracheal tube = ET, Gastronomy tube = GTT, Genitourinary irrigant = GU, Intracardiac = IC, Intracervical (uterus) = IC

**ARIZONA REQUIRED**
MEDICATION DOSAGE

**Data**

[number]

**Definition**

The dose or amount of medication given to the patient

<table>
<thead>
<tr>
<th>XSD Data Type</th>
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Field Values

**Uses**

- Part of an EMS Medical Record
- Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**

- EMS personnel

**Other Associated Elements**

- E01_01 Patient Care Report Number
- E18_02 Medication Administered Prior to this Unit
- E18_03 Medication Given
- E18_04 Medication Administered Route
- E18_05 Date/Time Medication Administered
- E18_06 Medication Dosage Units
- E18_07 Response to Medication
- E18_08 Medication Complication
- E18_09 Medication Crew Member ID
- E18_10 Medication Authorization
- E18_11 Medication Authorizing Physician

ARIZONA REQUIRED
MEDICATION DOSAGE UNITS

Data (combo) single-choice

Definition
The units of medication dosage given to patient

XSD Data Type xs:integer XSD Domain (Simple Type) MedicationDosageUnits
Multiple Entry Configuration Yes, via structure Accepts Null Values No
Required in XSD No

XSD Structure: (1) All data elements section E18 are members of the E18 Medication Structure. (2) E18_05 and E18_06 are members of E18_05_0 Medication Dosing Structure

Field Values
4295 GMS 4300 Inches
4305 IU 4310 KVO (TKO)
4315 L/MIN 4320 LITERS
4325 LPM 4330 MCG
4335 MCG/KG/MIN 4340 MEQ
4345 MG 4350 MG/KG/MIN
4355 ML 4360 ML/HR
4365 Other 4370 Puffs

AZ-PIERS Additional Values

<table>
<thead>
<tr>
<th>755000</th>
<th>755004</th>
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<tbody>
<tr>
<td>gtts (Drops)</td>
<td>Minutes</td>
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<td>755001</td>
<td>755007</td>
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<td>MG/MIN</td>
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<td>755008</td>
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<td>Lock/Flush</td>
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Uses
• Part of an EMS Medical Record
• Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools
• Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
• EMS personnel

Other Associated Elements
E01_01 Patient Care Report Number
E18_02 Medication Administered Prior to this Units
E18_03 Medication Given
E18_05 Medication Dosage
E18_08 Medication Complication
E18_10 Medication Authorization
E18_01 Date/Time Medication Administered
E18_03 Medication Given
E18_04 Medication Administered Route
E18_07 Response to Medication
E18_09 Medication Crew Member ID
E18_11 Medication Authorizing Physician

References to Other Databases
• DEEDS DEEDS/HL-7 Version 2.3

ARIZONA REQUIRED
**RESPONSE TO MEDICATION**

**Data**  
[combo] single-choice

**Definition**  
The patient's response to the medication.

**XSD Data Type**  
xs:integer  
**XSD Domain (Simple Type)**  
ResponseToMedication

**Multiple Entry Configuration**  
Yes, via structure  
**Accepts Null Values**  
Yes

**Required in XSD**  
No

**XSD Structure:** All data elements section E18 are members of the E18 Medication Structure

**Field Values**

-25 Not Applicable  
-20 Not Recorded

-15 Not Reporting  
-10 Not Known

-5 Not Available  
4375 Improved

4380 Unchanged  
4385 Worse

**Uses**
- Part of an EMS Medical Record
- Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**
- EMS personnel

**Other Associated Elements**

<table>
<thead>
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<td>E18_02</td>
<td>Medication Administered Prior to this Units EMS Care</td>
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<tr>
<td>E18_03</td>
<td>E18_04</td>
<td>Medication Administered Route</td>
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<td>E18_05</td>
<td>E18_06</td>
<td>Medication Dosage Units</td>
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<td>E18_08</td>
<td>E18_09</td>
<td>Medication Crew Member ID</td>
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<tr>
<td>E18_10</td>
<td>E18_11</td>
<td>Medication Authorizing Physician</td>
</tr>
</tbody>
</table>

**ARIZONA REQUIRED**
Intervention/ Procedure
DATE/TIME PROCEDURE PERFORMED SUCCESSFULLY

Data [date/time]

Definition
The date and time the procedure was performed on the patient

XSD Data Type xs:dateTime  XSD Domain (Simple Type) DateTime
Multiple Entry Configuration Yes, via structure  Accepts Null Values Yes, but null value is blank or empty
Required in XSD No  Minimum Constraint 1,990  Maximum Constraint 2,030

XSD Structure: Data Elements E19_01 through E19_11 are all members of E19_01_0 Procedure Structure

Field Values

Additional Information
● If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used
● This is a multiple entry configuration which will allow for multiple procedures to be documented

Uses
● Part of an EMS Medical Record
● Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● EMS personnel

Other Associated Elements
E01_01 Patient Care Report Number  E19_02 Procedure Performed Prior to this Units EMS Care
E19_03 Procedure  E19_04 Size of Procedure Equipment
E19_05 Number of Procedure Attempts  E19_06 Procedure Successful
E19_07 Procedure Complication  E19_08 Response to Procedure
E19_09 Procedure Crew Members ID  E19_10 Procedure Authorization
E19_11 Procedure Authorizing Physician  E19_12 Successful IV Site
E19_13 Tube Confirmation  E19_14 Destination Confirmation of Tube Placement

References in NHTSA Version 1
Desirable Element 58 Time of First CPR
Desirable Element 63 Time of First Defibrillatory Shock

ARIZONA REQUIRED
PROCEDURE PERFORMED PRIOR TO THIS UNIT'S EMS CARE

**Data**
[combo] single-choice

**Definition**
Indicates that the procedure which was performed and documented was performed prior to this EMS unit's care.

**XSD Data Type**  xs:integer  **XSD Domain (Simple Type)**  YesNoValues

**Multiple Entry Configuration**  Yes, via structure  **Accepts Null Values**  Yes

**Required in XSD**  No

XSD Structure: Data Elements E19_01 through E19_11 are all members of E19_01_0 Procedure Structure

**Field Values**
- -25 Not Applicable
- -20 Not Recorded
- -15 Not Reporting
- -10 Not Known
- -5 Not Available
-  0 No
-  1 Yes

**Additional Information**
- If E19_02 is “Yes”, the Date/Time Medication Administered (E19_01) is not required

**Uses**
- Part of an EMS Medical Record
- Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**
- EMS personnel

**Other Associated Elements**
- E00  Common Null Values
- E19_01  Date/Time Procedure Performed Successfully
- E19_04  Size of Procedure Equipment
- E19_06  Procedure Successful
- E19_08  Response to Procedure
- E19_10  Procedure Authorization
- E01_01  Patient Care Report Number
- E19_03  Procedure
- E19_05  Number of Procedure Attempts
- E19_07  Procedure Complication
- E19_09  Procedure Crew Members ID
- E19_11  Procedure Authorizing Physician

ARIZONA REQUIRED
**PROCEDURE**

**E19_03**

**Data**  
[combo] single-choice

**National Element**

**Definition**

The procedure performed on the patient.

**XSD Data Type**  
xs:decimal

**XSD Domain (Simple Type)**  
Procedure

**Multiple Entry Configuration**  
Yes, via structure

**Accepts Null Values**  
Yes

**Required in XSD**  
Yes

**Minimum Constraint**  
0

**Maximum Constraint**  
1,000

**XSD Structure:**  
Data Elements E19_01 through E19_11 are all members of E19_01_0 Procedure Structure

**Field Values**

-25 Not Applicable

-15 Not Reporting

-5 Not Available

-20 Not Recorded

-10 Not Known

**AZ-PIERS Procedure Values**

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<td>Airway-Bagged (via tube)</td>
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<td>154001 CPR by Other External Automated Device</td>
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<td>154077 CPR-Start Rescue Breathing without Compressions</td>
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<td>6800 Patient Cooling (Cold Pack, etc.)</td>
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<td>154046 Patient Cooling-Post Resuscitation</td>
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<td>100.300</td>
<td>154036 Patient Loaded</td>
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<td>154037 Patient Loaded-Helicopter Hot-Load</td>
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<td>154081 Patient Monitoring of Pre-existing Devices, Equipment, or Ongoing Medications</td>
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<td>100.302</td>
<td>154038 Patient Off-Loaded</td>
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<td>154039 Patient Off-Loaded Helicopter Hot Off-Load</td>
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<td>6840 Pericardiocentesis</td>
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<td>6600</td>
<td>Splinting-Traction</td>
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<td>89.703</td>
<td>154030</td>
<td>Temperature Measurement</td>
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<td>Thrombolytic Screen</td>
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<td>89.620</td>
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<td>Venous Access-Existing Catheter/IV Monitoring</td>
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<td>Wound Care-Hemostatic Agent</td>
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<td>Wound Care-Irrigation</td>
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<td>Wound Care-Taser Barb Removal</td>
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<tr>
<td>93.056</td>
<td>154056</td>
<td>Wound Care-Tourniquet</td>
</tr>
</tbody>
</table>

**Additional Information**
- List created from Procedures (D04_04)

**Uses**
- Allows data to be sorted based on the medical treatment
- Allows data to describe the procedures which are performed by EMS
- Part of an EMS Medical Record
- Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**
- EMS personnel

**Other Associated Elements**
- E00 Common Null Values
- E19_01 Date/Time Procedure Performed Successfully
- E19_04 Size of Procedure Equipment
- E19_06 Procedure Successful
- E19_08 Response to Procedure
- E19_10 Procedure Authorization
- E01_01 Patient Care Report Number
- E19_02 Procedure Performed Prior to this Units EMS Care
- E19_05 Number of Procedure Attempts
- E19_07 Procedure Complication
- E19_09 Procedure Crew Members ID
- E19_11 Procedure Authorizing Physician

**References in NHTSA Version 1**
- Desirable Element 58 Time of First CPR
- Desirable Element 63 Time of First Defibrillatory Shock

**References to Other Databases**
- NFIRS 5.0 EMS Module, Title: Procedures Used, Multi Select List: Airway Insertion = 01, Anti-Shock Trousers =
02, Assisted Ventilation = 03, Bleeding Control = 04, Burn Care = 05, Cardiac Pacing = 06, Cardioversion (defib) = 07, Chest/Abdominal Thrust = 08, CPR = 09, Cricothyroidotomy = 10, Defibrillation by AED = 11, EKG Monitoring = 12, Extrication = 13, Intubation (EGTA) = 14, Intubation (ET) = 15, IO/IV Therapy = 16, Medications Therapy = 17, Oxygen Therapy = 18, Obstetrical Care/Delivery = 19, Pre-Arrival Instruction = 20, Restrained Patient = 21, Spinal Immobilization = 22, Splinted Extremities = 23, Suction/Aspirate = 24, Other Procedure = 00, No Treatment = NN

- **UTSTEIN** Arrest after arrival of EMS could be documented by CPR or Defibrillation performed along with the Cardiac Arrest datapoint.; [text] Value or

**ARIZONA REQUIRED**
NUMBER OF PROCEDURE ATTEMPTS

E19_05

Data [number] National Element

Definition
The number of attempts taken to complete a procedure or intervention regardless of success

XSD Data Type xs:integer XSD Domain (Simple Type) NumberOfProcedureAttempts
Multiple Entry Configuration Yes, via structure Accepts Null Values Yes
Required in XSD Yes Minimum Constraint -25 Maximum Constraint 100

XSD Structure: Data Elements E19_01 through E19_11 are all members of E19_01_0 Procedure Structure

Field Values
-25 Not Applicable -20 Not Recorded
-15 Not Reporting -10 Not Known
-5 Not Available

Uses
- Allows data to be sorted based on the medical treatment
- Allows data to describe the procedures which are performed by EMS
- Part of an EMS Medical Record
- Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
- EMS personnel

Other Associated Elements
E00 Common Null Values E01_01 Patient Care Report Number
E19_01 Date/Time Procedure Performed Successfully E19_02 Procedure Performed Prior to this Units EMS Care
E19_03 Procedure E19_04 Size of Procedure Equipment
E19_06 Procedure Successful E19_07 Procedure Complication
E19_08 Response to Procedure E19_09 Procedure Crew Members ID
E19_10 Procedure Authorization E19_11 Procedure Authorizing Physician

NEMSIS Extended Definitions:
Clarification of the term 'attempt' – An active attempt to perform the procedure.

Specific examples include:
Oral airways – The tip of the airway or the larygoscope breaks the plane of the teeth.
Nasal airways – The tip of the airway breaks the plane of the nares.
Surgical airways – The skin over the intended airway site is broken.
Vascular access – The skin over the intended access site is broken.

ARIZONA REQUIRED
**PROCEDURE SUCCESSFUL**

**National Element**

**Data**
[combo] single-choice

**Definition**
Indication of whether or not the procedure performed on the patient was successful

**XSD Data Type**  
*xs:integer*

**XSD Domain (Simple Type)**  
YesNoValues

**Multiple Entry Configuration**
Yes, via structure

**Accepts Null Values**  
Yes

**Required in XSD**  
Yes

**XSD Structure:** Data Elements E19_01 through E19_11 are all members of E19_01_0 Procedure Structure

**Field Values**

-25 Not Applicable
-15 Not Reporting
-10 Not Known
-5 Not Available
1 Yes
0 No

**Uses**
- Allows data to be sorted based on the medical treatment
- Allows data to describe the procedures performed by EMS with respect to numbers and success rates
- Part of an EMS Medical Record
- Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**
- EMS personnel

**Other Associated Elements**

E00 Common Null Values
E19_01 Date/Time Procedure Performed Successfully
E19_02 Procedure Performed Prior to this Units EMS Care
E19_03 Procedure
E19_04 Size of Procedure Equipment
E19_05 Number of Procedure Attempts
E19_06 Procedure Complication
E19_08 Response to Procedure
E19_09 Procedure Crew Members ID
E19_10 Procedure Authorization
E19_11 Procedure Authorizing Physician

**NEMSIS Extended Definition:**
Clarification of the term 'successful' - An indication of whether the procedure / intervention was completed as intended, regardless of the patient's response or outcome.

**ARIZONA REQUIRED**
**RESPONSE TO PROCEDURE**

**Data**
[combo] single-choice

**Definition**
The patient’s response to the procedure

**XSD Data Type**  
*xs:integer*  

**XSD Domain (Simple Type)**  
*ResponseToProcedure*

**Multiple Entry Configuration**  
Yes, via structure

**Accepts Null Values**  
Yes

**Required in XSD**  
No

**XSD Structure:**
Data Elements E19_01 through E19_11 are all members of E19_01_0 Procedure Structure

**Field Values**
-25 Not Applicable  
-15 Not Reporting  
-5 Not Available  
4605 Unchanged  
-20 Not Recorded  
-10 Not Known  
4600 Improved  
4610 Worse

**Uses**
- Part of an EMS Medical Record  
- Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools  
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**
- EMS personnel

**Other Associated Elements**
- E00 Common Null Values  
- E19_01 Date/Time Procedure Performed Successfully  
- E19_03 Procedure  
- E19_05 Number of Procedure Attempts  
- E19_07 Procedure Complication  
- E19_10 Procedure Authorization  
- E01_01 Patient Care Report Number  
- E19_02 Procedure Performed Prior to this Units EMS Care  
- E19_04 Size of Procedure Equipment  
- E19_06 Procedure Successful  
- E19_09 Procedure Crew Members ID  
- E19_11 Procedure Authorizing Physician

**ARIZONA REQUIRED**
**Definition**
Endotracheal Tube placement verification at the time the airway procedure was done

**XSD Data Type**  \textit{xs:integer} \hspace{2cm} **XSD Domain (Simple Type)**  \textit{TubeConfirmation}

**Multiple Entry Configuration**  Yes \hspace{2cm} **Accepts Null Values**  Yes

**Required in XSD**  No

**Field Values**
-25 Not Applicable
-15 Not Reporting
-5 Not Available

-20 Not Recorded
-10 Not Known

4735 Auscultation of Bilateral Breath Sounds
4745 Digital CO2 Confirmation
4755 Negative Auscultation of the Epigastrium
4765 Visualization of Tube Passing Through the Cords

**Additional Information**
• Associated with Procedure (E19_03) if Airway Procedure leads to Intubation

**Uses**
• Part of an EMS Medical Record
• Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools
• Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**
• EMS personnel

**Other Associated Elements**

- **E00** Common Null Values
- **E01_01** Patient Care Report Number
- **E19_03** Procedure

---

**ARIZONA REQUIRED**
DESTINATION CONFIRMATION OF TUBE PLACEMENT

Data  [combo] multiple-choice

Definition
Endotracheal Tube location verification on the arrival at the Destination (if applicable)

XSD Data Type  xs:integer  XSD Domain (Simple Type)  DestinationConfirmationOfTubePlacement
Multiple Entry Configuration  Yes  Accepts Null Values  Yes
Required in XSD  No

Field Values
-25  Not Applicable
-15  Not Reporting
-10  Not Known
-5  Not Available
-20  Not Recorded
4775  Auscultation of Bilateral Breath Sounds
4780  Colormetric CO2 Detector Confirmation
4785  Digital CO2 Confirmation
4790  Esophageal Bulb Aspiration confirmation
4795  Negative Auscultation of the Epigastrium
4800  Visualization of the Chest Rising with ventilation
4805  Visualization of Tube Passing Through the Cords
4810  Waveform CO2 Confirmation

Additional Information
- Associated with Procedure (E19_03) if Airway Procedure leads to Intubation

Uses
- Part of an EMS Medical Record
- Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
- EMS personnel

Other Associated Elements
E00  Common Null Values  E01_01  Patient Care Report Number
E19_03  Procedure

ARIZONA REQUIRED
- Note: this refers to on arrival (at end of EMS care) and not after arrival at destination
Disposition
Transferred to Agency ID

**Arizona Element**

**Data**

**Definition**
State ID of agency receiving the patient from the current care provider.

**NI SE Prefix** 958

Compatible with E23_11 & E23_09

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>XSD Domain (Simple Type)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
<tr>
<td>Accepts Null Values</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Required in XSD**

**Field Values**

-25 Not Applicable
-15 Not Reporting
-5 Not Available

**-20 Not Recorded**

**-10 Not Known**

**Uses**

Data Collector

**Other Associated Elements**

**Additional Information**

**Other States that have implemented this data element:** States Nebraska, Missouri, New Hampshire, Minnesota, Minnesota - ALF, Minnesota - Burnsville, Illinois - Good Samaritan, Maine, Georgia, Wisconsin, California - Oceanside, Oregon - Tillamook, Indiana - Columbus Regional Hospital, Washington, Michigan, Kansas, Oklahoma, New Mexico, Alaska, Idaho, Massachusetts, Vermont, Oregon

**ARIZONA REQUIRED**
DESTINATION/TRANSFERRED TO, NAME

Data [text]

Definition
The destination the patient was delivered or transferred to

XSD Data Type xs:string
XSD Domain (Simple Type) DestinationTransferredToID
Multiple Entry Configuration No
Accepts Null Values Yes
Required in XSD No
Minimum Constraint 2
Maximum Constraint 50

Field Values
-25 Not Applicable
-15 Not Reporting
-5 Not Available
-20 Not Recorded
-10 Not Known

Additional Information
- Could be an editable single choice list box derived from Hospitals Served (D04_11) and Other Destinations (D04_13)

Uses
- A component of the EMS Medical Record: Patient Care Report
- Important for grouping or comparing data by Destination location and type which also allows data to be sorted by geographic areas in many agencies
- Provides information on overall service area, patterns and times for agency configuration and evaluation

Data Collector
- EMS personnel

Other Associated Elements
E00 Common Null Values
E20_02 Destination/Transferred To, Code
E01_01 Patient Care Report Number

ARIZONA REQUIRED
DESTINATION/ TRANSFERRED TO, CODE

Data  [text]

Definition
The code of the destination the patient was delivered or transferred to, if present and available

XSD Data Type  xs:string  XSD Domain (Simple Type)  DestinationTransferredToCode
Multiple Entry Configuration  No  Accepts Null Values  Yes
Required in XSD  No  Minimum Constraint  2  Maximum Constraint  50

Field Values
-25 Not Applicable  -20 Not Recorded
-15 Not Reporting  -10 Not Known
-5 Not Available

Additional Information
● Could be an editable single choice list box derived from Hospitals Served (D04_12) and Other Destinations (D04_14)

Uses
● A component of the EMS Medical Record: Patient Care Report
● Important for grouping or comparing data by Destination location and type which also allows data to be sorted by geographic areas in many agencies
● Provides information on overall service area, patterns and times for agency configuration and evaluation

Data Collector
● EMS agency or may be electronically provided through the 911 or dispatch center

Other Associated Elements
E00  Common Null Values  E01_01  Patient Care Report Number
E20_01  Destination/Transferred To, Name

ARIZONA REQUIRED
DESTINATION STREET ADDRESS

**E20_03**

**Data**  [text]

**Definition**

The street address of the destination the patient was delivered or transferred to

**XSD Data Type**  xs:string

**XSD Domain (Simple Type)**  StreetAddress

**Multiple Entry Configuration**  No

**Accepts Null Values**  Yes

**Required in XSD**  No

**Minimum Constraint**  2

**Maximum Constraint**  30

XSD Structure: E20_03, E20_04, E20_05, and E20_07 are all members of E2-_03_0 Destination Address Structure

**Field Values**

-25  Not Applicable

-20  Not Recorded

-15  Not Reporting

-10  Not Known

-5   Not Available

**Uses**

- A component of the EMS Medical Record: Patient Care Report
- Important for grouping or comparing data by Destination location and type which also allows data to be sorted by geographic areas in many agencies
- Provides information on overall service area, patterns and times for agency configuration and evaluation

**Data Collector**

- EMS agency or may be electronically provided through the 911 or dispatch center

**Other Associated Elements**

<table>
<thead>
<tr>
<th>E00</th>
<th>Common Null Values</th>
<th>E01_01</th>
<th>Patient Care Report Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>E20_01</td>
<td>Destination/Transferred To, Name</td>
<td>E20_04</td>
<td>Destination City</td>
</tr>
<tr>
<td>E20_05</td>
<td>Destination State</td>
<td>E20_07</td>
<td>Destination Zip Code</td>
</tr>
</tbody>
</table>

**ARIZONA REQUIRED**
Data [combo] single-choice

Definition
The city name of the destination the patient was delivered or transferred to

XSD Data Type xs:string
XSD Domain (Simple Type) City
Multiple Entry Configuration No
Accepts Null Values Yes
Required in XSD No
Minimum Constraint 2
Maximum Constraint 30

XSD Structure: E20_03, E20_04, E20_05, and E20_07 are all members of E2-_03_0 Destination Address Structure

Field Values
-25 Not Applicable
-15 Not Reporting
-10 Not Known
-5 Not Available
-20 Not Recorded

Additional Information
- 5 digit FIPS Code
- Could be filled in from Destination Zip Code (E20_07)

Uses
- A component of the EMS Medical Record: Patient Care Report
- Important for grouping or comparing data by Destination location and type which also allows data to be sorted by geographic areas in many agencies
- Provides information on overall service area, patterns and times for agency configuration and evaluation

Data Collector
- EMS agency or may be electronically provided through the 911 or dispatch center

Other Associated Elements
E00 Common Null Values
E20_01 Destination/Transferred To, Name
E20_05 Destination State
E01_01 Patient Care Report Number
E20_03 Destination Street Address
E20_07 Destination Zip Code

ARIZONA REQUIRED
DESTINATION STATE

**Data**
[combo] single-choice

**Definition**
The destination State in which the patient was delivered or transferred to

**XSD Data Type** xs:string  
**XSD Domain (Simple Type)** State

**Multiple Entry Configuration** No  
**Accepts Null Values** Yes

**Required in XSD** No  
**Minimum Constraint** 2  
**Maximum Constraint** 3

**XSD Structure:** E20_03, E20_04, E20_05, and E20_07 are all members of E2-_03_0 Destination Address Structure

**Field Values**
-25 Not Applicable  
-20 Not Recorded
-15 Not Reporting  
-10 Not Known
-5 Not Available

**Additional Information**
- 2 digit FIPS numeric code (Not State abbreviation)
- Could be filled in from Destination Zip Code (E20_07)

**Uses**
- A component of the EMS Medical Record: Patient Care Report
- Important for grouping or comparing data by Destination location and type which also allows data to be sorted by geographic areas in many agencies
- Provides information on overall service area, patterns and times for agency configuration and evaluation

**Data Collector**
- EMS agency or may be electronically provided through the 911 or dispatch center

**Other Associated Elements**
- E00 Common Null Values  
- E01_01 Patient Care Report Number
- E20_01 Destination/Transferred To, Name  
- E20_03 Destination Street Address
- E20_04 Destination City  
- E20_07 Destination Zip Code

**ARIZONA REQUIRED**
DESTINATION COUNTY

Data [combo] single-choice

Definition
The destination County in which the patient was delivered or transferred to

XSD Data Type xs:string
XSD Domain (Simple Type) County
Multiple Entry Configuration No
Accepts Null Values Yes
Required in XSD No
Minimum Constraint 2
Maximum Constraint 5

Field Values
-25 Not Applicable
-15 Not Reporting
-5 Not Available
-20 Not Recorded
-10 Not Known

Additional Information
- Stored as a 5 digit FIPS code (combining the state and county code) to take into account agencies may serve more than one state and counties are often named the same from state to state
- A component of the EMS Medical Record: Patient Care Report
- Important for grouping or comparing data by Destination location and type which also allows data to be sorted by geographic areas in many agencies
- Provides information on overall service area, patterns and times for agency configuration and evaluation

Data Collector
- EMS agency or may be electronically provided through the 911 or dispatch center

Other Associated Elements
E00 Common Null Values  E01_01 Patient Care Report Number
E20_01 Destination/Transferred To, Name

ARIZONA REQUIRED
DESTINATION ZIP CODE

Data [text] National Element

Definition
The destination zip code in which the patient was delivered or transferred to

XSD Data Type xs:string XSD Domain (Simple Type) Zip
Multiple Entry Configuration No Accepts Null Values Yes
Required in XSD Yes
XSD Structure: E20_03, E20_04, E20_05, and E20_07 are all members of E2-03_0 Destination Address Structure

Field Values
-25 Not Applicable -20 Not Recorded
-15 Not Reporting -10 Not Known
-5 Not Available

Additional Information
- Can be 5 or 9 digit Zip Code

Uses
- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the destination location
- Allows data to describe patient's geographic destination
- Important for grouping or comparing data by Destination location and type which also allows data to be sorted by geographic areas in many agencies
- Provides information on overall service area, patterns and times for agency configuration and evaluation

Data Collector
- EMS agency or may be electronically provided through the 911 or dispatch center

Other Associated Elements
- E00 Common Null Values
  - E01_01 Patient Care Report Number
- E20_01 Destination/Transferred To, Name
  - E20_03 Destination Street Address
- E20_04 Destination City
  - E20_05 Destination State

ARIZONA REQUIRED
**DESTINATION GPS LOCATION**

**Data**  
[text]

**Definition**  
The destination GPS coordinates to which the patient was delivered or transferred to

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>XSD Domain (Simple Type)</th>
<th>Multiple Entry Configuration</th>
<th>Accepts Null Values</th>
<th>Required in XSD</th>
</tr>
</thead>
<tbody>
<tr>
<td>xs:decimal</td>
<td>GPSLocation</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

XSD Attributes: Latitude and Longitude are each stored as a separate attribute

**Field Values**

**Uses**
- Important for grouping or comparing data by Destination location and type which also allows data to be sorted by geographic areas in many agencies
- Provides information on overall service area, patterns and times for agency configuration and evaluation

**Data Collector**
- EMS agency or may be electronically provided through the 911 or dispatch center

**Other Associated Elements**
- **E01_01** Patient Care Report Number  
- **E20_01** Destination/Transferred To, Name

**ARIZONA REQUIRED**
INCIDENT/PATIENT DISPOSITION

Data [combo] single-choice

Definition Type of disposition treatment and/or transport of the patient.

XSD Data Type xs:integer
XSD Domain (Simple Type) IncidentPatientDisposition

Multiple Entry Configuration No
Required in XSD Yes

Accepts Null Values No

Field Values

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
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<tr>
<td>4815</td>
<td>Cancelled</td>
</tr>
<tr>
<td>4825</td>
<td>No Patient Found</td>
</tr>
<tr>
<td>4835</td>
<td>Patient Refused Care</td>
</tr>
<tr>
<td>4845</td>
<td>Treated, Transferred Care</td>
</tr>
<tr>
<td>4855</td>
<td>Treated, Transported by Law Enforcement</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4820</td>
<td>Dead at Scene</td>
</tr>
<tr>
<td>4830</td>
<td>No Treatment Required</td>
</tr>
<tr>
<td>4840</td>
<td>Treated and Released</td>
</tr>
<tr>
<td>4850</td>
<td>Treated, Transferred and transported by EMS</td>
</tr>
<tr>
<td>4860</td>
<td>Treated, Transferred by Private Vehicle</td>
</tr>
</tbody>
</table>

AZ-PIERS Additional Values

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>804003</td>
<td>Standby Only - No Patient Contacts</td>
</tr>
<tr>
<td>804004</td>
<td>Unable to Locate Patient/Scene</td>
</tr>
<tr>
<td>804005</td>
<td>Treated, Transferred by EMS (ALS)</td>
</tr>
<tr>
<td>804006</td>
<td>Treated, Transferred by EMS (BLS)</td>
</tr>
</tbody>
</table>

Uses
- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the EMS disposition
- Allows data to describe EMS patient’s disposition

Data Collector
- EMS personnel

Other Associated Elements
- E01_01 Patient Care Report Number

References in NHTSA Version 1
- Essential Element 47 Incident/Patient Disposition

References to Other Databases
- NFIRS 5.0 EMS Module; Title: Disposition; Pick-List: FD Transport to Emergency Care Facility (ECF) = 1, Non-FD Transport = 2, Non-FD Transport with FD Attendant = 3, Non-Emergency Transfer = 4, Other = O, Not Transported under EMS = N

Extended Definitions:
- Cancelled - Cancelled prior to patient contact.
- Dead at Scene - Either dead on arrival or dead after arrival with field resuscitation not successful and not transported.
- No Patient Found - EMS was unable to find a patient at the scene.
- No treatment required - Assessment resulted in no identifiable condition requiring treatment by EMS.
- Patient Refused Care - Patient refused to give consent or withdrew consent for care.
- Treated and released - The patient was treated by EMS but did not require transport to the hospital.
- Treated, Transferred Care - The patient was treated but care was transferred to another EMS unit.
- Treated, transported by EMS - The patient was treated and transported by the reporting EMS unit.
- Treated, transported by law Enforcement - The patient was treated and transported by a law enforcement unit.
- Treated, Transported by Private Vehicle - The patient was treated and transported by means other than EMS or law enforcement.

ARIZONA REQUIRED
POSITION OF PATIENT DURING TRANSPORT

Data [combo] single-choice

Definition
The position of the patient during transport from the scene

XSD Data Type xs:integer  XSD Domain (Simple Type) PositionOfPatientDuringTransport
Multiple Entry Configuration No  Accepts Null Values Yes
Required in XSD No

Field Values
-25 Not Applicable  -20 Not Recorded
-15 Not Reporting  -10 Not Known
-5 Not Available  4890 Car Seat
4895 Fowlers  4900 Lateral
4905 Prone  4910 Semi-Fowlers
4915 Sitting  4920 Supine
4925 Other

AZ-PIERS Additional Values
806000 Trendelenberg  806001 Reverse Trendelenberg

Uses
● Part of an EMS Medical Record
● Used in Quality Management for the evaluation of Care

Data Collector
● EMS personnel

Other Associated Elements
E00 Common Null Values  E01_01 Patient Care Report Number

ARIZONA REQUIRED
TRANSPORT MODE FROM SCENE

**Data** [combo] single-choice

**National Element**

**Definition**
Indication whether or not lights and/or sirens were used on the vehicle while leaving scene

**XSD Data Type** xs:integer  **XSD Domain (Simple Type)** TransportModeFromScene

**Multiple Entry Configuration** No  **Accepts Null Values** Yes

**Required in XSD** Yes

**Field Values**
-25 Not Applicable  -20 Not Recorded
-15 Not Reporting  -40 Not Known
-5 Not Available  4955 Initial Lights and Sirens, Downgraded to No Lights or Sirens
4960 Initial No Lights or Sirens, Upgraded to Lights and Sirens
4970 No Lights or Sirens  4965 Lights and Sirens

**Uses**
- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the transportation mode
- Allows data to describe transportation mode used by EMS

**Data Collector**
- EMS personnel

**Other Associated Elements**
- E00 Common Null Values
- E01_01 Patient Care Report Number

**References in NHTSA Version 1**
- Essential Element 46 Lights and Sirens used from the Scene

ARIZONA REQUIRED
REASON FOR CHOOSING DESTINATION

Data [combo] single-choice

Definition
The reason the unit chose to deliver or transfer the patient to the destination

XSD Data Type xs:integer
XSD Domain (Simple Type) ReasonForChoosingDestination
Required in XSD Yes

Field Values
-25 Not Applicable
-15 Not Reporting
-5 Not Available
4995 Diversion
5005 Insurance Status
5015 On-Line Medical Direction
5025 Patient Choice
5035 Protocol

Add in PSC Triage

Uses
● A component of the EMS Medical Record: Patient Care Report
● Allows data to be sorted based on the destination choice
● Allows data to give a reason for choosing the patient’s destination which is important to document from a specialty care agency and diversion/overcrowding perspective

Data Collector
● EMS personnel

Other Associated Elements
E00 Common Null Values
E01_01 Patient Care Report Number

References in NHTSA Version 1
Essential Element 45 Destination Determination

NEMSIS Extended Definitions:
Closest Facility (none below) – The closest hospital/facility.
Diversion – First choice hospital/facility is unable to accept patient.
Family Choice – Transported to hospital/facility chosen by the patients’ family or a person acting on the patient’s behalf.
Insurance Status – The hospital/facility is chosen based on insurance coverage.
Law Enforcement Choice – Transported to hospital/facility chosen by Law Enforcement.
On-Line Medical Direction – Transported to hospital/facility as directed by medical control either on-line or on-scene.
Other – Not one of the other options listed.
Patient Choice – Transported to hospital/facility of patient’s choice.
Patient’s Physicians Choice – Transported to hospital/facility chosen by the patient’s physician.
Protocol – Patient transport to alternate facility in accordance with Medical Director approved protocols/guidelines.
Specialty Resource Center – Transport to a specialty facility based upon unique needs of the patient.

ARIZONA REQUIRED
TYPE OF DESTINATION

Data [combo] single-choice

Definition
The type of destination the patient was delivered or transferred to

XSD Data Type xs:integer
XSD Domain (Simple Type) TipoDeDestino
Multiple Entry Configuration No
Accepts Null Values Yes
Required in XSD Yes

Field Values
-25 Not Applicable
-15 Not Reporting
-5 Not Available
7280 Hospital
7300 Morgue
7330 Other
7350 Other EMS Responder (ground)

AZ-PIERS Additional Values
811000 Not Transported

Uses
- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted or grouped based on the EMS transports destination type
- Allows data to describe EMS patient’s destination type

Data Collector
- EMS personnel

Other Associated Elements
E00 Common Null Values
E20_01 Destination/Transferred To, Name

References in NHTSA Version 1
Essential Element 44 Destination/Transferred To

ARIZONA REQUIRED
Medical Device Data
**EVENT DATE/TIME**

**Data**  
[date/time]

**Definition**  
The time of the event recorded by the device's internal clock

**XSD Data Type**  
`xs:dateTime`

**XSD Domain (Simple Type)**  
`DateTime`

**Multiple Entry Configuration**  
Yes, via structure

**Accepts Null Values**  
Yes, but null value is blank or empty

**Required in XSD**  
No

**Minimum Constraint**  
1,990

**Maximum Constraint**  
2,030

XSD Structure: (1) Each element in section E21 is associated with an E21_01 Date/Time.

**Field Values**

**Additional Information**
- Depending on whether this is a Procedure or a Vital Sign, this can be merged into Date/Time Vital Taken (E14_01) or Date/Time Procedure Performed Successfully (E19_01)
- If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used
- Multiple entry configuration associated with the entire Medical Device Section (E21) to allow multiple sets of device data to be entered

**Uses**
- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**
- Medical device and electronically transmitted to the EMS database for further use

**Other Associated Elements**
- **E01_01**  
Patient Care Report Number

Optional
MEDICAL DEVICE EVENT NAME

Data [text]

Definition
The type of event documented by the medical device.

XSD Data Type xs:integer
XSD Domain (Simple Type) MedicalDeviceEventID
Multiple Entry Configuration Yes, via structure
Accepts Null Values Yes
Required in XSD No

XSD Structure: (1) Each element is section E21 is associated with a E21_01 Date/Time.

Field Values
-25 Not Applicable
-15 Not Reporting
-5 Not Available
-20 Not Recorded
-10 Not Known
5090 12-Lead ECG
5095 Analysis (Button Pressed)
5100 CO2
5105 Date Transmitted
5110 Defibrillation
5115 ECG-Monitor
5120 Heart Rate
5125 Invasive Pressure 1
5130 Invasive Pressure 2
5135 No Shock Advised
5140 Non-Invasive BP
5145 Pacing Electrical Capture
5150 Pacing Started
5155 Pacing Stopped
5160 Patient Connected
5165 Power On
5170 Pulse Oximetry
5175 Pulse Rate
5180 Respiratory Rate
5185 Shock Advised
5190 Sync Off
5195 Sync On

Additional Information
● Depending on the event, this data can be merged with Vital Sign or Procedure Data defined in Sections E14 and E19

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● Medical device and electronically transmitted to the EMS database for further use

Other Associated Elements
E00 Common Null Values
E01_01 Patient Care Report Number
E21_01 Event Date/Time

Optional
WAVEFORM GRAPHIC TYPE

E21_03

Data [text]

Definition
The type of waveform file stored in Waveform Graphic (E21.4)

XSD Data Type xs:integer XSD Domain (Simple Type) WaveformGraphicType

Multiple Entry Configuration Yes, as associated with Accepts Null Values No E21_01 Date/Time

Required in XSD No

XSD Structure: (1) Each element is section E21 is associated with a E21_01 Date/Time. (2) E21_03 and E21_04 are elements of E23_03_0 Waveform Structure.

Field Values
5200 JPG 5205 PDF

Additional Information
● Associated with Event Date/Time (E21_01) and only if appropriate for the Medical Device Event (E21_02)

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● Medical device and electronically transmitted to the EMS database for further use

Other Associated Elements
E01_01 Patient Care Report Number E21_01 Event Date/Time
E21_02 Medical Device Event Name E21_04 Waveform Graphic

Optional
WAVEFORM GRAPHIC

**E21_04**

**Data**  [binary]

**Definition**
The graphic waveform file in a PDF or JPG format.

**XSD Data Type**  xs:base64Binary  **XSD Domain (Simple Type)**  WaveformGraphic

**Multiple Entry Configuration**  Yes, as associated with  **Accepts Null Values**  No

**E21_01 Date/Time**  

**Required in XSD**  No

XSD Structure: (1) Each element is section E21 is associated with a E21_01 Date/Time. (2) E21_03 and E21_04 are elements of E23_03_0 Waveform Structure.

**Field Values**

**Additional Information**
- Associated with Event Date/Time (E21_01) and only if appropriate for the Medical Device Event (E21_02)

**Uses**
- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**
- Medical device and electronically transmitted to the EMS database for further use

**Other Associated Elements**

<table>
<thead>
<tr>
<th>E01_01</th>
<th>Patient Care Report Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>E21_01</td>
<td>Event Date/Time</td>
</tr>
<tr>
<td>E21_02</td>
<td>Medical Device Event Name</td>
</tr>
<tr>
<td>E21_03</td>
<td>Waveform Graphic Type</td>
</tr>
</tbody>
</table>

Optional
AED, PACING, OR CO2 MODE

Data [text]

Definition
The mode of operation the device is operating in during the defibrillation, pacing, or rhythm analysis by the device (if appropriate for the event)

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>XSD Domain (Simple Type)</th>
<th>AEDPacingOrCO2Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes, via structure</td>
<td>Accepts Null Values</td>
<td>No</td>
</tr>
</tbody>
</table>

Required in XSD No

XSD Structure: (1) Each element is section E21 is associated with a E21_01 Date/Time.

Field Values
5210 Automated 5215 Manual
5220 Advisory 5225 Demand
5230 Sensing 5235 Mid-Stream
5240 Side-Stream

Additional Information
● Associated with Event Date/Time (E21_01) and only if appropriate for the Medical Device Event (E21_02)

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● Medical device and electronically transmitted to the EMS database for further use

Other Associated Elements
E01_01 Patient Care Report Number E21_01 Event Date/Time
E21_02 Medical Device Event Name

Optional
**ECG LEAD**

**Data**  
[text]

**Definition**  
The lead or source which the medical device used to obtain the rhythm (if appropriate for the event)

**XSD Data Type**  
xs:integer  
**XSD Domain (Simple Type)**  
ECGLead

**Multiple Entry Configuration**  
Yes, via structure

**Accepts Null Values**  
No

**Required in XSD**  
No

**XSD Structure:** (1) Each element is section E21 is associated with a E21_01 Date/Time.

**Field Values**

<table>
<thead>
<tr>
<th>Field Value</th>
<th>Lead</th>
</tr>
</thead>
<tbody>
<tr>
<td>5245</td>
<td>I</td>
</tr>
<tr>
<td>5255</td>
<td>III</td>
</tr>
<tr>
<td>5265</td>
<td>AVL</td>
</tr>
<tr>
<td>5275</td>
<td>V1</td>
</tr>
<tr>
<td>5285</td>
<td>V3</td>
</tr>
<tr>
<td>5295</td>
<td>V5</td>
</tr>
<tr>
<td>5305</td>
<td>Paddle</td>
</tr>
</tbody>
</table>

**AZ-PI ERS Additional Values**

<table>
<thead>
<tr>
<th>AZ-PI ERS Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>825000</td>
<td>Pads</td>
</tr>
<tr>
<td>825001</td>
<td>12 Lead ECG</td>
</tr>
<tr>
<td>825002</td>
<td>II, III, AVF - Multi Lead</td>
</tr>
<tr>
<td>825003</td>
<td>V1, V2 - Multi Lead</td>
</tr>
<tr>
<td>825004</td>
<td>V3, V4 - Multi Lead</td>
</tr>
<tr>
<td>825005</td>
<td>I, AVL, V5, V6 - Multi Lead</td>
</tr>
<tr>
<td>825006</td>
<td>V4, V5, V6 - Multi Lead</td>
</tr>
</tbody>
</table>

**Additional Information**

- Associated with Event Date/Time (E21_01) and only if appropriate for the Medical Device Event (E21_02)

**Uses**

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**

- Medical device and electronically transmitted to the EMS database for further use

**Other Associated Elements**

<table>
<thead>
<tr>
<th>E01_01</th>
<th>Patient Care Report Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>E21_01</td>
<td>Event Date/Time</td>
</tr>
<tr>
<td>E21_02</td>
<td>Medical Device Event Name</td>
</tr>
</tbody>
</table>

Optional
ECG INTERPRETATION

Data  [text]

Definition
The interpretation of the rhythm by the device (if appropriate for the event)

XSD Data Type  xs:string  XSD Domain (Simple Type)  ECGInterpretation
Multiple Entry Configuration  Yes, via structure  Accepts Null Values  No
Required in XSD  No  Minimum Constraint  1  Maximum Constraint  2,000
XSD Structure: (1) Each element is section E21 is associated with a E21_01 Date/Time.

Field Values

Additional Information
● Associated with Event Date/Time (E21_01) and only if appropriate for the Medical Device Event (E21_02)

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● Medical device and electronically transmitted to the EMS database for further use

Other Associated Elements
E01_01  Patient Care Report Number
E21_01  Event Date/Time
E21_02  Medical Device Event Name

Optional
**Definition**

The energy form used by the device for the defibrillation (if appropriate for the event)

**XSD Data Type**  `xs:integer`  **XSD Domain (Simple Type)**  `TypeOfShock`

**Multiple Entry Configuration**  Yes, via structure  **Accepts Null Values**  No

**Required in XSD**  No

XSD Structure: (1) Each element is section E21 is associated with a E21_01 Date/Time.

**Field Values**

- 5310  Biphasic
- 5315  Monophasic

**Additional Information**

- Associated with Event Date/Time (E21_01) and only if appropriate for the Medical Device Event (E21_02)

**Uses**

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**

- Medical device and electronically transmitted to the EMS database for further use

**Other Associated Elements**

- E01_01  Patient Care Report Number  E21_01  Event Date/Time
- E21_02  Medical Device Event Name

Optional
SHOCK OR PACING ENERGY

Data [number]

Definition
The energy used for the shock or pacing event (if appropriate for the event)

XSD Data Type xs:decimal
XSD Domain (Simple Type) ShockOrPacingEnergy
Multiple Entry Configuration Yes, via structure
Accepts Null Values No
Required in XSD No
Minimum Constraint 1
Maximum Constraint 9,000

XSD Structure: (1) Each element is section E21 is associated with a E21_01 Date/Time.

Field Values

Additional Information
● Associated with Event Date/Time (E21_01) and only if appropriate for the Medical Device Event (E21_02)

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● Medical device and electronically transmitted to the EMS database for further use

Other Associated Elements
E01_01 Patient Care Report Number
E21_01 Event Date/Time
E21_02 Medical Device Event Name

Optional
TOTAL NUMBER OF SHOCKS DELIVERED

Data [number]

Definition
The number of times the patient was defibrillated, if the patient was defibrillated during the patient encounter.

XSD Data Type xs:integer  XSD Domain (Simple Type) TotalNumberOfShocks
Multiple Entry Configuration Yes, via structure  Accepts Null Values No
Required in XSD No  Minimum Constraint 1  Maximum Constraint 100

XSD Structure: (1) Each element is section E21 is associated with a E21_01 Date/Time.

Field Values

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● Medical device and electronically transmitted to the EMS database for further use

Other Associated Elements
E01_01 Patient Care Report Number  E21_01 Event Date/Time
E21_02 Medical Device Event Name

Optional
PACING RATE

Data [number]

Definition
The rate the device was calibrated to pace during the event, if appropriate.

XSD Data Type xs:integer
XSD Domain (Simple Type) PacingRate
Multiple Entry Configuration Yes, via structure
Accepts Null Values No
Required in XSD No
Minimum Constraint 1
Maximum Constraint 1,000

XSD Structure: (1) Each element is section E21 is associated with a E21_01 Date/Time.

Field Values

Additional Information
● Associated with Event Date/Time (E21_01) and only if appropriate for the Medical Device Event (E21_02)

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● Medical device and electronically transmitted to the EMS database for further use

Other Associated Elements
E01_01 Patient Care Report Number
E21_01 Event Date/Time
E21_02 Medical Device Event Name

Optional
DEVICE HEART RATE

Data [number]

Definition
The heart rate electronically obtained by the device (if appropriate for the event)

XSD Data Type xs:integer XSD Domain (Simple Type) PulseRate
Multiple Entry Configuration Yes, via structure Accepts Null Values No
Required in XSD No Minimum Constraint 0 Maximum Constraint 500

XSD Structure: (1) Each element is section E21 is associated with a E21_01 Date/Time.

Field Values

Additional Information
• Associated with Event Date/Time (E21_01) and only if appropriate for the Medical Device Event (E21_02)
• Could be merged into Electronic Monitor Rate (E14_08)

Uses
• Part of an EMS Medical Record
• Provides documentation of Assessment and Care
• Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
• Medical device and electronically transmitted to the EMS database for further use

Other Associated Elements
E01_01 Patient Care Report Number E21_01 Event Date/Time
E21_02 Medical Device Event Name

Optional
DEVICE PULSE RATE  

**Data**  

[number]

**Definition**  
The pulse rate as measured from the pulse oximeter, non-invasive pressure, or invasive pressure transducers (if appropriate for the event)

**XSD Data Type**  
xs:integer  

**XSD Domain (Simple Type)**  
PulseRate  

**Multiple Entry Configuration**  
Yes, via structure  

**Accepts Null Values**  
No  

**Required in XSD**  
No  

**Minimum Constraint**  
0  

**Maximum Constraint**  
500  

**XSD Structure:**  
(1) Each element is section E21 is associated with a E21_01 Date/Time.

**Field Values**

**Additional Information**  
- Associated with Event Date/Time (E21_01) and only if appropriate for the Medical Device Event (E21_02)  
- Could be merged into Pulse Rate (E14_07)

**Uses**  
- Part of an EMS Medical Record  
- Provides documentation of Assessment and Care  
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**  
- Medical device and electronically transmitted to the EMS database for further use

**Other Associated Elements**  

<table>
<thead>
<tr>
<th>E01_01</th>
<th>Patient Care Report Number</th>
<th>E21_01</th>
<th>Event Date/Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>E21_02</td>
<td>Medical Device Event Name</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Optional
Definition
The Systolic Blood Pressure as measured either through non-invasive blood pressure, invasive blood pressure monitor 1, or invasive blood pressure monitor 2 (if appropriate for the event)

XSD Data Type xs:integer
XSD Domain (Simple Type) SBP
Multiple Entry Configuration Yes, via structure
Accepts Null Values No
Required in XSD No
Minimum Constraint 0
Maximum Constraint 400

XSD Structure: (1) Each element is section E21 is associated with a E21_01 Date/Time.

Field Values

Additional Information
- Associated with Event Date/Time (E21_01) and only if appropriate for the Medical Device Event (E21_02)
- Could be merged into Systolic Blood Pressure (E14_04)

Uses
- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
- Medical device and electronically transmitted to the EMS database for further use

Other Associated Elements
- E01_01 Patient Care Report Number
- E21_01 Event Date/Time
- E21_02 Medical Device Event Name
- E21_19 Device CO2, etCO2, or Invasive Pressure Monitor Units

Optional
DEVICE DIAGNOSTIC BLOOD PRESSURE

**Data**
[number]

**Definition**
The Diastolic Blood Pressure as measured either through non-invasive blood pressure, invasive blood pressure monitor 1, or invasive blood pressure monitor 2 (if appropriate for the event).

**XSD Data Type** xs:integer
**XSD Domain (Simple Type)** DBP

**Multiple Entry Configuration** Yes, via structure
**Accepts Null Values** No

**Required in XSD** No
**Minimum Constraint** 0
**Maximum Constraint** 300

XSD Structure: (1) Each element is section E21 is associated with a E21_01 Date/Time.

**Field Values**

**Additional Information**
- Associated with Event Date/Time (E21_01) and only if appropriate for the Medical Device Event (E21_02)
- Could be merged into Diastolic Blood Pressure (E14_05)

**Uses**
- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**
- Medical device and electronically transmitted to the EMS database for further use

**Other Associated Elements**
- E01_01 Patient Care Report Number
- E21_01 Event Date/Time
- E21_02 Medical Device Event Name
- E21_19 Device CO2, etCO2, or Invasive Pressure Monitor Units

Optional
**DEVICE RESPIRATORY RATE**

**Data**  [number]

**Definition**
The Respiratory Rate as calculated from the device through one of the various monitoring parameters (if appropriate for the event)

**XSD Data Type**  xs:integer  **XSD Domain (Simple Type)**  RespiratoryRate
**Multiple Entry Configuration**  Yes, via structure  **Accepts Null Values**  No
**Required in XSD**  No  **Minimum Constraint**  0  **Maximum Constraint**  100

XSD Structure: (1) Each element is section E21 is associated with a E21_01 Date/Time.

**Field Values**

**Additional Information**
- Associated with Event Date/Time (E21_01) and only if appropriate for the Medical Device Event (E21_02)
- Could be merged into Respiratory Rate (E14_11)

**Uses**
- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**
- Medical device and electronically transmitted to the EMS database for further use

**Other Associated Elements**
- **E01_01**  Patient Care Report Number
- **E21_01**  Event Date/Time
- **E21_02**  Medical Device Event Name

Optional
DEVICE PULSE OXIMETRY

Data [number]

Definition
The Oxygen Saturation as measured from the pulse oximeter in % (if appropriate for the event)

XSD Data Type xs:integer XSD Domain (Simple Type) DeviceCO2
Multiple Entry Configuration Yes, via structure Accepts Null Values No
Required in XSD No Minimum Constraint 0 Maximum Constraint 100

XSD Structure: (1) Each element is section E21 is associated with a E21_01 Date/Time.

Field Values

Additional Information
● Associated with Event Date/Time (E21_01) and only if appropriate for the Medical Device Event (E21_02)
● Could be merged into Pulse Oximetry (E14_09)

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● Medical device and electronically transmitted to the EMS database for further use

Other Associated Elements
E01_01 Patient Care Report Number E21_01 Event Date/Time
E21_02 Medical Device Event Nam

Optional
DEVICE CO2 OR ETCO2

Data [number]

Definition
The Carbon Dioxide or end-tidal Carbon Dioxide as measured from the device transducers (if appropriate for the event).

XSD Data Type xs:integer  XSD Domain (Simple Type) DeviceCO2

Multiple Entry Configuration Yes, via structure Accepts Null Values No

Required in XSD No Minimum Constraint 0 Maximum Constraint 100

XSD Structure: (1) Each element is section E21 is associated with a E21_01 Date/Time. (2) Elements E21_18 and E21_19 are members of E21_18_0 CO2 Structure.

Field Values

Additional Information
● Associated with Event Date/Time (E21_01) and only if appropriate for the Medical Device Event (E21_02)
● Could be merged into Carbon Dioxide (E14_13)

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● Medical device and electronically transmitted to the EMS database for further use

Other Associated Elements

<table>
<thead>
<tr>
<th>E01_01</th>
<th>Patient Care Report Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>E21_02</td>
<td>Medical Device Event Name</td>
</tr>
<tr>
<td>E21_01</td>
<td>Event Date/Time</td>
</tr>
<tr>
<td>E21_19</td>
<td>Device CO2, etCO2, or Invasive Pressure Monitor Units</td>
</tr>
</tbody>
</table>

Optional
DEVICE CO2, ETCO2, OR INVASIVE PRESSURE MONITOR UNITS

Data  

[text]

Definition  
The Units of Carbon Dioxide, end-tidal Carbon Dioxide, invasive pressure monitor 1, or invasive pressure monitor 2 as measured from the device transducers (if appropriate for the event)

XSD Data Type  xs:integer  
XSD Domain (Simple Type)  DeviceCO2etCO2OrInvasivePressureUnits  
Multiple Entry Configuration  Yes, via structure  
Accepts Null Values  No  
Required in XSD  No

XSD Structure: (1) Each element is section E21 is associated with a E21_01 Date/Time. (2) Elements E21_18 and E21_19 are members of E21_18_0 CO2 Structure.

Field Values  
5320 kPa  
5330 mmHg

Additional Information  
● Associated with Event Date/Time (E21_01) and only if appropriate for the Medical Device Event (E21_02)

Uses  
● Part of an EMS Medical Record  
● Provides documentation of Assessment and Care  
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector  
● Medical device and electronically transmitted to the EMS database for further use

Other Associated Elements  
E01_01  Patient Care Report Number  E21_01  Event Date/Time  
E21_02  Medical Device Event Name  E21_14  Device Systolic Blood Pressure  
E21_15  Device Diastolic Blood Pressure  E21_18  Device CO2 or etCO2  
E21_20  Device Invasive Pressure Mean

Optional


**RESEARCH SURVEY FIELD**

**E23_09**

**Data**

[text]

**Definition**

A customizable field to be used by local agencies for additional documentation or research.

**XSD Data Type**  *xs:string*

**XSD Domain (Simple Type)**  *ResearchField*

**Multiple Entry Configuration**  Yes, via structure

**Accepts Null Values**  Yes

**Required in XSD**  No

**Minimum Constraint**  1

**Maximum Constraint**  50

XSD Structure: Elements E23_09 and E23_11 are members of E23_09_0 Research Data Structure

**Field Values**

-25  Not Applicable
-15  Not Reporting
-5   Not Available
-20  Not Recorded
-10  Not Known

**Additional Information**

- A multiple entry configuration to allow multiple Research Survey Fields

**Uses**

- Used by local EMS agencies to document issues which are specific to an agency or related to research or short term evaluation

**Data Collector**

- EMS personnel

**Other Associated Elements**

- **E00**  Common Null Values
- **E01_01**  Patient Care Report Number
- **E23_11**  Research Survey Field Title

**ARIZONA REQUIRED**

- Required because is used to record certain additional data elements that are non-NEMSIS
**Data**  [text]

**Definition**
A customizable field to be used by local agencies for additional documentation or research.

<table>
<thead>
<tr>
<th><strong>XSD Data Type</strong></th>
<th>xs:string</th>
<th><strong>XSD Domain (Simple Type)</strong></th>
<th>ResearchTitle</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Multiple Entry Configuration</strong></td>
<td>Yes, via structure</td>
<td><strong>Accepts Null Values</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Required in XSD</strong></td>
<td>No</td>
<td><strong>Minimum Constraint</strong></td>
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<tr>
<td></td>
<td></td>
<td><strong>Maximum Constraint</strong></td>
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</tr>
</tbody>
</table>

XSD Structure: Elements E23_09 and E23_11 are members of E23_09_0 Research Data Structure

**Field Values**

**Additional Information**
- A multiple entry configuration to allow multiple Research Survey Fields

**Uses**
- Used by local EMS agencies to document issues which are specific to an agency or related to research or short term evaluation

**Data Collector**
- EMS personnel

**Other Associated Elements**
- E01_01  Patient Care Report Number
- E23_09  Research Survey Field

**ARIZONA REQUIRED**
- Required because is used to record certain additional data elements that are non-NEMSIS
<table>
<thead>
<tr>
<th>Category</th>
<th>Code</th>
</tr>
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<td>PATIENT'S HOME ZIP CODE</td>
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<td>POSITION OF PATIENT DURING TRANSPORT</td>
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<tr>
<td>POSITION OF PATIENT IN THE SEAT OF THE VEHICLE</td>
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<td>POSSIBLE INJURY</td>
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<td>PRIMARY METHOD OF PAYMENT</td>
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<td>PRIMARY ROLE OF THE UNIT</td>
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<td>PRIOR AID PERFORMED BY</td>
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<tr>
<td>PROCEDURE PERFORMED PRIOR TO THIS UNIT'S EMS CARE</td>
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<td>PROCEDURE SUCCESSFUL</td>
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<td>PROVIDERS PRIMARY IMPRESSION</td>
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<td>PULSE RATE</td>
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<tr>
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<td>78</td>
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<td>SHOCK OR PACING ENERGY</td>
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<td>SKIN ASSESSMENT</td>
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<td>SOCIAL SECURITY NUMBER</td>
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<tr>
<td>SOFTWARE CREATOR</td>
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