Data Dictionary 2014

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.
Agency General Information
**EMS AGENCY NUMBER**

**Data**

[Text]

**National Element**

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

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

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:string</th>
<th>XSD Domain (Simple Type)</th>
<th>EMSAgencyName</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>No</td>
<td>Minimum Constraint</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Maximum Constraint</td>
<td>50</td>
</tr>
</tbody>
</table>

**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
Data: [combo] multiple-choice

National Element

Definition
The state in which the Agency provides services

XSD Data Type: xs:string
XSD Domain (Simple Type): AgencyState
Required in XSD: Yes
Multiple Entry Configuration: Yes
Accepts Null Values: No
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
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>
<th>XSD Domain (Simple Type)</th>
<th>AgencyCounty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes</td>
<td>Accepts Null Values</td>
<td>No</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Minimum Constraint</td>
<td>5</td>
</tr>
<tr>
<td>Maximum Constraint</td>
<td>5</td>
<td></td>
<td></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
5630 Air Medical
5650 Medical Transport (Convalescent)
5670 Rescue
5620 911 Response (Scene) without Transport Capability
5640 Hazmat
5660 Paramedic Intercept
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

Data [combo] single-choice

National Element

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 6100 EMT-Intermediate
6110 EMT-Paramedic 6111 Nurse
6112 Physician 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

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  5820 Fire Department
5830 Governmental, Non-Fire  5840 Hospital
5850 Private, Non_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 5880 Non-Volunteer
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
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
5920  GMT-09:00 Alaska
5940  GMT-07:00 Mountain Time
5960  GMT-05:00 Eastern Time
5910  GMT-10:00 Hawaii
5930  GMT-08:00 Pacific Time
5950  GMT-06:00 Central 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
Definition
Indicate if the EMS Agency conforms to Daylight Savings Time

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

Field Values
0  No
1  Yes

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]  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  -20 Not Recorded
-15 Not Reporting  -10 Not Known
-5 Not Available

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

Notes: Required for agencies that bill. The agency may not bill all calls, but if agency ever bills, NPI should be provided.
Agency Contact Information
AGENCY CONTACT ZIP CODE

**Data**  [text]  
**Definition**  
The ZIP code of the Agency contact's mailing address.

**XSD Data Type**  xs:string  
**XSD Domain (Simple Type)**  DemographicZip  
**Multiple Entry Configuration**  No  
**Accepts Null Values**  No  
**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_05  Agency Contact City  
- D02_04  Agency Contact Address  
- 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**  xs:decimal  **XSD Domain (Simple Type)**  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>Value 1</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 Lead ECG-Obtain</td>
<td>89.820</td>
<td>CPR-Start Rescue Breathing without Compressions</td>
</tr>
<tr>
<td>12 Lead ECG-Transmitted</td>
<td>89.821</td>
<td>CPR-Stop</td>
</tr>
<tr>
<td>Activation-Advanced Hazmat Specialty Service/Response Team</td>
<td>101.201</td>
<td>Decontamination</td>
</tr>
<tr>
<td>Activation-Fire Rehabilitation Specialty Service/Response Team</td>
<td>101.202</td>
<td>Defibrillation-Automated (AED)</td>
</tr>
<tr>
<td>Activation-Other Specialty Service/Response Team</td>
<td>101.203</td>
<td>Defibrillation-Manual</td>
</tr>
<tr>
<td>Activation-Rescue Specialty Service/Response Team</td>
<td>101.204</td>
<td>Defibrillation-Placement for Monitoring/Analysis</td>
</tr>
<tr>
<td>Activation-Social Services Notification/Referral</td>
<td>101.205</td>
<td>Escharototomy</td>
</tr>
<tr>
<td>Activation-Tactical or SWAT Specialty Service/Response Team</td>
<td>101.206</td>
<td>Extrication</td>
</tr>
<tr>
<td>Airway-Bagged (via BVMask)</td>
<td>93.931</td>
<td>Gastric Tube Insertion-Inserted Nasally</td>
</tr>
<tr>
<td>Airway-Bagged (via tube)</td>
<td>93.930</td>
<td>Gastric Tube Insertion-Inserted Orally</td>
</tr>
<tr>
<td>Airway-BiPAP</td>
<td>96.702</td>
<td>Injections-SQ/IM</td>
</tr>
<tr>
<td>Airway-Change Tracheostomy Tube</td>
<td>97.230</td>
<td>Intra-Aortic Balloon Pump Maintenance</td>
</tr>
<tr>
<td>Airway-Cleared, Opened, or Heimlich</td>
<td>98.130</td>
<td>Joint Reduction/Relocation</td>
</tr>
<tr>
<td>Airway-Combitube Blind Insertion Airway Device</td>
<td>96.051</td>
<td>Left Ventricular Assist Device Maintenance</td>
</tr>
<tr>
<td>Airway-CPAP</td>
<td>93.900</td>
<td>MAST</td>
</tr>
<tr>
<td>Airway-Direct Laryngoscopy</td>
<td>31.420</td>
<td>Orthostatic Blood Pressure Measurement</td>
</tr>
<tr>
<td>Airway-EOA/EGTA</td>
<td>96.030</td>
<td>Pain Measurement</td>
</tr>
<tr>
<td>Airway-Extubation</td>
<td>96.993</td>
<td>Patient Cooling (Cold Pack, etc.)</td>
</tr>
<tr>
<td>Airway-Foreign Body Removal</td>
<td>98.131</td>
<td>Patient Cooling-Post Resuscitation</td>
</tr>
<tr>
<td>Airway-Impedance Threshold Device</td>
<td>96.703</td>
<td>Patient Loaded</td>
</tr>
<tr>
<td>Airway-Intubation Confirm Colorimetric ETCO2</td>
<td>96.991</td>
<td>Patient Loaded-Helicopter Hot-Load</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>
</tr>
<tr>
<td>Airway-Intubation of Existing Tracheostomy Stoma</td>
<td>97.231</td>
<td>Patient Off-Loaded</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>
</tr>
<tr>
<td>Airway-Laryngeal Mask Blind Insertion Airway Device</td>
<td>96.052</td>
<td>Patient Warming (Hot Pack, etc.)</td>
</tr>
<tr>
<td>Airway-Nasal</td>
<td>96.010</td>
<td>Pericardiocentesis</td>
</tr>
<tr>
<td>Airway-Nasotracheal Intubation</td>
<td>96.041</td>
<td>Pulse Oximetry</td>
</tr>
<tr>
<td>Airway-Nebulizer Treatment</td>
<td>93.940</td>
<td>Rescue</td>
</tr>
<tr>
<td>Airway-Needle Cricothyrotomy</td>
<td>31.110</td>
<td>Restraints-Pharmacological</td>
</tr>
<tr>
<td>Airway-Oral</td>
<td>96.020</td>
<td>Restraints-Physical</td>
</tr>
<tr>
<td>Airway-Orotracheal Intubation</td>
<td>96.040</td>
<td>Specialty Center Activation-Adult Trauma</td>
</tr>
<tr>
<td>Airway-PEEP</td>
<td>96.790</td>
<td>Specialty Center Activation-Cardiac Arrest</td>
</tr>
<tr>
<td>Airway-Rapid Sequence Intubation</td>
<td>96.042</td>
<td>Specialty Center Activation-Pediatric Trauma</td>
</tr>
</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>
</tr>
<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>
</tr>
<tr>
<td>154101</td>
<td>Airway-Verification</td>
</tr>
<tr>
<td>154125</td>
<td>Arterial Access - Femoral Line</td>
</tr>
<tr>
<td>154099</td>
<td>Arterial Access-Umbilical</td>
</tr>
<tr>
<td>6760</td>
<td>Burn Care</td>
</tr>
<tr>
<td><strong>154127</strong></td>
<td>Contacted Receiving Hospital</td>
</tr>
<tr>
<td>154045</td>
<td>CPR-Hold (Momentarily)</td>
</tr>
<tr>
<td>6820</td>
<td>Isolation Procedures</td>
</tr>
<tr>
<td>6540</td>
<td>None</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>ImageTrend Code</th>
<th>Addl - ImageTrend - AZ-PIERS Procedure Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>6830</td>
<td>Other</td>
</tr>
<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>
</tr>
<tr>
<td>6780</td>
<td>Spinal Immobilization - Soft Cervical Collar</td>
</tr>
<tr>
<td>154000</td>
<td>Spinal Immobilization - Standing Take-Down</td>
</tr>
<tr>
<td>154047</td>
<td>ROSC</td>
</tr>
<tr>
<td>6850</td>
<td>Stretcher</td>
</tr>
<tr>
<td>154124</td>
<td>Thoracentesis</td>
</tr>
<tr>
<td>154111</td>
<td>Umbilical Artery Catheter</td>
</tr>
<tr>
<td>154008</td>
<td>Venous Access-Saline Lock</td>
</tr>
<tr>
<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, Restrainted Patient = 21, Spinal Immobilization = 22, Splinted Extremities = 23, Suction/Aspirate = 24, Other Procedure = 00, No Treatment = NN

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**ARIZONA REQUIRED**

**NOTE:**
- Procedures (D04_04) (the source list for Procedures E19_03) has had the value “Contacted Receiving Hospital” (Code 154127) added to the value’s list. This is an alternative way for agencies to collect the required variable “Receiving Hospital Contacted Date/time” (IT5_71) as it would not require custom variable creation by 3rd party vendors but would allow the description of the action and the date/time to be recorded. Agencies must fill in either IT5_71 time or Procedures E19_03 with “Contacted Receiving Hospital” for all stroke and STEMI patients.

**Code: 154127 Description: Contacted Receiving Hospital**
- If you use ImageTrend via ADHS (not as a stand-alone ImageTrend service), this value should now be available to you.
- If you have a stand-alone ImageTrend service, or a 3rd party vendor PLEASE CONTACT THEM TO ADD THIS VALUE and ask them to map it over.
- If you have any ImageTrend (via ADHS or Stand-alone) you should already have the custom date/time variable “Receiving Hospital Contacted Date/Time” (IT5_71) and can still continue to use this variable.
### 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

<table>
<thead>
<tr>
<th>No.</th>
<th>Medication</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Amyl Nitrate</td>
</tr>
<tr>
<td>8</td>
<td>Bumetanide (Bumex)</td>
</tr>
<tr>
<td>10</td>
<td>Calcium Gluconate</td>
</tr>
<tr>
<td>11</td>
<td>Diphenhydramine (Benadryl)</td>
</tr>
<tr>
<td>12</td>
<td>Dexamethasone (Decadron)</td>
</tr>
<tr>
<td>16</td>
<td>Dopamine</td>
</tr>
<tr>
<td>21</td>
<td>Atropine Sulfate</td>
</tr>
<tr>
<td>24</td>
<td>Lorazepam (Ativan)</td>
</tr>
<tr>
<td>27</td>
<td>Meperidene (Demerol)</td>
</tr>
<tr>
<td>28</td>
<td>Metaproterenol (Alupent)</td>
</tr>
<tr>
<td>30</td>
<td>Metoclopramide (Reglan)</td>
</tr>
<tr>
<td>31</td>
<td>Albuterol Sulfate</td>
</tr>
<tr>
<td>32</td>
<td>Terbutaline (Brethine)</td>
</tr>
<tr>
<td>33</td>
<td>Nifedipine (Adalat, Procardia)</td>
</tr>
<tr>
<td>38</td>
<td>Ketorolac (Toradol)</td>
</tr>
<tr>
<td>39</td>
<td>Thiamine</td>
</tr>
<tr>
<td>41</td>
<td>Succinylcholine (Anectine)</td>
</tr>
<tr>
<td>42</td>
<td>Neostigmine</td>
</tr>
<tr>
<td>51</td>
<td>Heparin</td>
</tr>
<tr>
<td>60</td>
<td>Atrovent (Ipratropium Bromide)</td>
</tr>
<tr>
<td>61</td>
<td>Adenosine</td>
</tr>
<tr>
<td>62</td>
<td>Bretylium Tosylate</td>
</tr>
<tr>
<td>63</td>
<td>Lidocaine</td>
</tr>
<tr>
<td>64</td>
<td>Procainamide</td>
</tr>
<tr>
<td>65</td>
<td>Amiodorone (Cordarone)</td>
</tr>
<tr>
<td>66</td>
<td>Verapamil (Isoptin)</td>
</tr>
<tr>
<td>67</td>
<td>Isoproterenol</td>
</tr>
<tr>
<td>68</td>
<td>Nitroprusside</td>
</tr>
<tr>
<td>72</td>
<td>Nitroglycerin</td>
</tr>
<tr>
<td>81</td>
<td>Aspirin (ASA)</td>
</tr>
<tr>
<td>92</td>
<td>Morphine Sulfate</td>
</tr>
<tr>
<td>93</td>
<td>Nubain</td>
</tr>
<tr>
<td>101</td>
<td>Naloxone (Narcan)</td>
</tr>
<tr>
<td>412</td>
<td>Insulin</td>
</tr>
<tr>
<td>413</td>
<td>Flumazenil (Romazicon)</td>
</tr>
<tr>
<td>414</td>
<td>Haloperidol (Haldol)</td>
</tr>
<tr>
<td>415</td>
<td>Prochlorperazine (Compazine)</td>
</tr>
<tr>
<td>416</td>
<td>Mark 1 Kit</td>
</tr>
<tr>
<td>417</td>
<td>IV Antibiotics</td>
</tr>
<tr>
<td>418</td>
<td>Epi-Pen Adult</td>
</tr>
<tr>
<td>419</td>
<td>Epi-Pen Junior</td>
</tr>
<tr>
<td>425</td>
<td>Ondansetron (Zofran)</td>
</tr>
<tr>
<td>426</td>
<td>Other Cardiac Drug</td>
</tr>
<tr>
<td>427</td>
<td>Other CNS Drug</td>
</tr>
<tr>
<td>428</td>
<td>Other Autonomic Nervous System Drug</td>
</tr>
<tr>
<td>429</td>
<td>Other Respiratory Drug</td>
</tr>
<tr>
<td>430</td>
<td>Esmolol HCl (Brevibloc)</td>
</tr>
<tr>
<td>431</td>
<td>Hydralazine (Apresoline)</td>
</tr>
<tr>
<td>432</td>
<td>Ketamine</td>
</tr>
<tr>
<td>433</td>
<td>Phenylephrine HCl (Neo-Synephrine)</td>
</tr>
<tr>
<td>434</td>
<td>Phenytoin (Dilantin)</td>
</tr>
<tr>
<td>435</td>
<td>Potassium Cl</td>
</tr>
<tr>
<td>436</td>
<td>Diltiazem (Cardizem)</td>
</tr>
<tr>
<td>437</td>
<td>Hurricane Spray</td>
</tr>
<tr>
<td>438</td>
<td>Oxygen by Nebulizer</td>
</tr>
<tr>
<td>439</td>
<td>Oxygen by Positive Pressure Device</td>
</tr>
<tr>
<td>440</td>
<td>Epinephrine 1:1000</td>
</tr>
<tr>
<td>441</td>
<td>Epinephrine 1:10,000</td>
</tr>
<tr>
<td>521</td>
<td>Proparacaine (Alcaine)</td>
</tr>
<tr>
<td>910</td>
<td>Oxygen</td>
</tr>
<tr>
<td>9396</td>
<td>Oxygen by Nasal Cannula</td>
</tr>
<tr>
<td>9397</td>
<td>Oxygen by Mask</td>
</tr>
<tr>
<td>9398</td>
<td>Oxygen (non-rebreather mask)</td>
</tr>
<tr>
<td>12360</td>
<td>Oxygen by Blow by</td>
</tr>
<tr>
<td>156000</td>
<td>Alteplase</td>
</tr>
<tr>
<td>156001</td>
<td>Atracurium</td>
</tr>
</tbody>
</table>
Addison 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**
- 6720 Abdominal Pain
- 6740 Airway-Failed
- 6770 Allergic Reaction/Anaphylaxis
- 6785 Altitude Sickness
- 6791 Atrial Fibrillation
- 6810 Behavioral
- 6830 Bradycardia
- 6850 Cardiac Arrest
- 6870 Childbirth/Labor
- 6880 Dental Problems
- 6885 Diarrhea
- 6892 Diving Emergencies
- 6910 Epistaxis
- 6916 Exposure-Radiologic Agents
- 6920 Extremity Trauma
- 6930 Fever
- 6940 Head Trauma
- 6950 Hypertension
- 6955 Hypoglycemia
- 6960 Hypothermia
- 6970 Hypotension/Shock (Non-Trauma)
- 6990 IV Access
- 7000 Trauma-Multisystem
- 7020 Obstetrical Emergencies
- 7040 Pain Control
- 7140 Pulmonary Edema
- 7160 Respiratory Distress
- 7175 Spinal Cord Trauma
- 7190 Supraventricular Tachycardia
- 7210 Syncope
- 7215 Trauma-Amputation
- 7230 Ventricular Fibrillation
- 7240 Ventricular Tachycardia
- 6730 Airway
- 6760 Airway-RSI
- 6780 Altered Mental Status
- 6790 Asystole
- 6800 Back Pain
- 6820 Bites and Envenomations
- 6840 Burns
- 6860 Cardiac Chest Pain
- 6875 Cold Exposure
- 6881 Device Malfunction
- 6889 Drowning/Near Drowning
- 6900 Electrical Injuries
- 6911 Exposure-Airway Irritants
- 6913 Exposure-Blistering Agents
- 6915 Exposure-Nerve Agents
- 6917 Exposure-Riot Control Agents
- 6925 Eye Trauma
- 6935 Gynecologic Emergencies
- 6945 Hyperglycemia
- 6961 Hyperthermia
- 6970 Hypotension/Shock (Non-Trauma)
- 6990 IV Access
- 7010 Newly Born
- 7030 Overdose/Toxic Ingestion
- 7130 Post Resuscitation
- 7150 Pulseless Electrical Activity
- 7170 Seizure
- 7180 Spinal Immobilization
- 7200 Stroke/TIA
- 7214 Trauma-Arrest
- 7220 Universal Patient Care
- 7232 Ventricular Ectopy
- 7251 Vomiting

**AZ-PIERS Additional Protocol Options**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>158039</td>
<td>Air Medical Transport</td>
</tr>
<tr>
<td>158041</td>
<td>Asthma/COPD/Reactive Airway Disease - Adult</td>
</tr>
<tr>
<td>158060</td>
<td>Automatic External Defibrillator (AED)</td>
</tr>
<tr>
<td>158061</td>
<td>Cardiogenic Shock</td>
</tr>
<tr>
<td>158044</td>
<td>Chemical burns - adults</td>
</tr>
<tr>
<td>158046</td>
<td>Cyanide and arsenic - adult</td>
</tr>
<tr>
<td>158047</td>
<td>Cyanide and arsenic - pediatric</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------------------------------------------------</td>
</tr>
<tr>
<td>158065</td>
<td>Eye Injury</td>
</tr>
<tr>
<td>158049</td>
<td>Fever (&gt;101.5 f / 38.5 c) - pediatric</td>
</tr>
<tr>
<td>158064</td>
<td>Hypothermia (Severe - with No Signs of Life)</td>
</tr>
<tr>
<td>158063</td>
<td>Minimum Landing Zone Area</td>
</tr>
<tr>
<td>158050</td>
<td>Neonatal resuscitation</td>
</tr>
<tr>
<td>158051</td>
<td>Nerve agents &amp; organophosphates - provider protection</td>
</tr>
<tr>
<td>158052</td>
<td>Nerve agents &amp; organophosphates MCI - adult</td>
</tr>
<tr>
<td>158053</td>
<td>Nerve agents &amp; organophosphates MCI - pediatric</td>
</tr>
<tr>
<td>158038</td>
<td>Pediatric - Abdominal Injuries (Penetrating)</td>
</tr>
<tr>
<td>158040</td>
<td>Pediatric - Allergic Reaction/Anaphylaxis</td>
</tr>
<tr>
<td>158042</td>
<td>Pediatric - Asthma/Reactive Airway Disease</td>
</tr>
<tr>
<td>158043</td>
<td>Pediatric - Burns (thermal)</td>
</tr>
<tr>
<td>158045</td>
<td>Pediatric - Chemical burns</td>
</tr>
<tr>
<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/Epiglotitis/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>158052</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
BILLING STATUS

Data: [combo] multiple-choice

Definition
Indication of whether the EMS agency routinely bills for any segment of the patient population

XSD Data Type: xs:string  XSD Domain (Simple Type): BillingStatus
Multiple Entry Configuration: No  Accepts Null Values: No
Required in XSD: No
XSD Attributes: Status (Active or In-active) and Date are included as attributes

Field Values
0  No
1  Yes

Uses
- Allows data to be sorted based on an agency's Billing Status
- Provides description of EMS agencies based on credentialing levels recognized by the 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
**HOSPITALS SERVED**

**D04_11**

**Data**  
[text] multiple-entry

**Definition**  
A list of all the hospitals the 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_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
E00 Common Null Values
D04_11 Hospitals Served

ARIZONA REQUIRED
OTHER DESTINATIONS

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
DESTINATION FACILITY NUMBER

D04_14

Data [text]

Definition
The state assigned licensure number (code) for each Other Destination (D04_13)

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_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. -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 (E8_08) and Destination Transferred to Code (E20_02)
● This field could also provide linkage to Other Destinations (D04_13) which would allow a list box of Other Destination Names to be used instead of entering the Code directly

Uses
● Allows data to be sorted or grouped based on the EMS transports destination type
● Could be used to create a list box (along with D04_12) 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_15   Destination Type
D04_13   Other Destinations
D04_15   Destination Type
E00      Common Null Values

ARIZONA REQUIRED
DESTINATION TYPE

Data [combo] single-choice

Definition
The type of facility associated with the Other Destination (D04_13)

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

Multiple Entry Configuration Yes, via structure
Accepts Null Values No

Required in XSD No

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

Field Values
7270 Home
7290 Medical Office/Clinic
7320 Nursing Home
7340 Other EMS Responder (air)
7360 Police/Jail
7280 Hospital
7300 Morgue
7330 Other
7350 Other EMS Responder (ground)

Additional Information
● Can be used to auto-fill Type of Destination (E20_17) based on Other Destination (D04_13) or Destination Facility Number (D04_14)

Uses
● Allows data to be sorted based on an agency’s Destination Type
● Allows data to be sorted or grouped based on the EMS transports destination type
● Provides a component of a list box associated with Other Destinations (D04_13)
● Provides description of EMS Agency’s Destination Types

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_13 Other Destinations
D04_14 Destination Facility Number

References in NHTSA Version 1
Essential Element 44 Destination/Transferred To

ARIZONA REQUIRED
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

E01_01

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

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

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>3</td>
</tr>
<tr>
<td>Maximum Constraint</td>
<td>30</td>
<td></td>
<td></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

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
**EMS AGENCY NUMBER**

Data [text] National Element E02_01

**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>15</td>
</tr>
</tbody>
</table>

**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
Minimum Constraint 2
Maximum Constraint 15

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

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

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

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSD Domain (Simple Type)</td>
<td>.TypeOfServiceRequested</td>
</tr>
</tbody>
</table>

### Multiple Entry Configuration
No

### Accepts Null Values
No

### Required in XSD
Yes

### Field Values

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>911 Response (Scene):</td>
</tr>
<tr>
<td>40</td>
<td>Interfacility Transfer</td>
</tr>
<tr>
<td>50</td>
<td>Mutual Aid</td>
</tr>
<tr>
<td>35</td>
<td>Intercept</td>
</tr>
<tr>
<td>45</td>
<td>Medical Transport</td>
</tr>
<tr>
<td>55</td>
<td>Standby</td>
</tr>
</tbody>
</table>

### AZ-PIERS Additional Field Value

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>410000</td>
<td>Interfacility Transfer (Unscheduled)</td>
</tr>
<tr>
<td>410001</td>
<td>Flagdown/Walk-in Emergent</td>
</tr>
<tr>
<td>410002</td>
<td>Flagdown/Walk-in Non-emergent</td>
</tr>
</tbody>
</table>

### 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
PRIMARY ROLE OF THE UNIT

Data [combo] single-choice

National Element

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>411000</th>
<th>ALS Ground Transport</th>
</tr>
</thead>
<tbody>
<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

**National Element**

**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
-15  Not Reporting
-10  Not Known
-5   Not Available
85   High Call Volume
95   Location (Inability to Obtain)
105  None
115  Scene Safety (Not Secure for EMS)
120  Technical Failure (Computer, Phone etc.)

80   Caller (Uncooperative)
90   Language Barrier
100  No Units Available
110  Other

**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**

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:**

**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>
<th>XSD Domain (Simple Type)</th>
<th>TypeOfResponseDelay</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>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**
- 25 Not Applicable
- 15 Not Reporting
- 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**
| 413000 | Train |
| 413011 | Gated Community or Prison (Location Entry Delay) |

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

**Data Collector**
- EMS personnel

**Other Associated Elements**

**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

Data: [combo] multiple-choice

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

200 Distance
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 to 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
-5 Not Available
270 Directions
280 Diversion
290 None
300 Safety
310 Traffic
320 Vehicle Failure
20 - Not Recorded
10 - Not Known
265 Crowd
275 Distance
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
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 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  -20 Not Recorded
-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
E0  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

Data [combo] single-choice

Definition
The unique physical vehicle number of the responding unit

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

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

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
Section E03

Unit/ Call Information
COMPLAINT REPORTED BY DISPATCH

Data [combo] single-choice

Definition The complaint dispatch reported to the responding unit.

XSD Data Type xs:integer 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)

AZ-PIERS Additional Field Value

435000 Assault - Sexual
435001 Intercept
435002 Medical Alarm
435003 Medical Transport
435004 Other
435005 Overdose
435006 Pain
435007 Standby

435008 Auto vs. Pedestrian
435009 Machine/equipment Injury
435010 Respiratory Arrest
435011 Altered Mental Status
435012 Invalid Assist/Lifting Assist
435013 Fire Standby
435014 HAZMAT Standby

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

ARIZONA REQUIRED
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  -20 Not Recorded
-15 Not Reporting  -10 Not Known
-5 Not Available  580 Driver
585 Primary Patient Caregiver  590 Secondary Patient Caregiver
595 Third Patient Caregiver  600 Other

AZ-PIERS Additional Field Value

<table>
<thead>
<tr>
<th>Field Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>445000</td>
<td>Fire Company</td>
</tr>
<tr>
<td>445001</td>
<td>First Responder</td>
</tr>
<tr>
<td>445002</td>
<td>Pilot</td>
</tr>
<tr>
<td>445003</td>
<td>Ride Along</td>
</tr>
<tr>
<td>445006</td>
<td>FD Ambulance Medic</td>
</tr>
<tr>
<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

<table>
<thead>
<tr>
<th>Field Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E00</td>
<td>Common Null Values</td>
</tr>
<tr>
<td>E04_01</td>
<td>Crew Member ID</td>
</tr>
<tr>
<td>E01_01</td>
<td>Patient Care Report Number</td>
</tr>
<tr>
<td>E04_03</td>
<td>Crew Member Level</td>
</tr>
</tbody>
</table>

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
XSD 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
635 Student
640 Other Healthcare Professional
645 Other Non-Healthcare Professional
6090 EMT-Basic
6100 EMT-Intermediate
6110 EMT-Paramedic
6111 Nurse
6112 Physician
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
E04_02 Crew Member Role
E01_01 Patient Care Report 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
INCIDENT OR ONSET DATE/ TIME

E05_01

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
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:
  ○ “If time of symptom onset unknown, when was the person last known symptom free in 24 hour format”

ARIZONA REQUIRED
**PSAP CALL DATE/TIME**

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

<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>

<table>
<thead>
<tr>
<th>Required in XSD</th>
<th>Yes</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Minimum Constraint</th>
<th>1,990</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Constraint</td>
<td>2,030</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:dateTime</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSD Domain</td>
<td>DateTime</td>
</tr>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</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>1,990</td>
</tr>
<tr>
<td>Maximum Constraint</td>
<td>2,030</td>
</tr>
</tbody>
</table>

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

Data [date/time] National Element E05_05

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

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 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

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 14 Time of Arrival at Scene

ARIZONA REQUIRED
ARRIVED AT PATIENT DATE/TIME

Data [date/time]

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

XSD Data Type xs:dateTime
XSD Domain (Simple Type) DateTime
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
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

Data [date/time]  National Element

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

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 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**

**XSD Data Type** datetime

**XSD Domain (Simple Type)**

**Multiple Entry Configuration** No

**Accepts Null Values** Yes

**Required in XSD**

**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

Property: Data
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
Accepts Null Values: Yes, but null value is blank or empty

Multiple Entry Configuration: 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 17 Time of Arrival at Destination

ARIZONA REQUIRED
**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**

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

**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** — An acceptable alternate method of recording this time can be accomplished by recording the Procedure (E19_03) value of Contacted Receiving Hospital (154127) and the corresponding time.
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
UNIT CANCELLED DATE/TIME

Data [date/time]

Definition
The date/time if the unit’s call was cancelled

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
● Allows for reports to be generated better evaluating EMS response and usage patterns

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

Other Associated Elements
E01_01 Patient Care Report Number

Optional
Patient
LAST NAME

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  -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
E06_01 Last Name
E01_01 Patient Care Report Number
E06_03 Middle Initial/Name

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

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**

**E06_05**

**Data**  [combo] single-choice

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

**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: E06_04, E06_05, 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  
---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

**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
-20 Not Recorded
-15 Not Reporting
-10 Not Known
-05 Not Available

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
E01_01 Patient Care Report Number
E06_01 Last Name
E06_05 Patient's Home City
E06_07 Patient's Home State
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
-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
- E01_01 Patient Care Report Number
- E06_04 Patient's Home Address
- E06_06 Patient's Home County

References in NHTSA Version 1
Desirable Element 36 State of Residence

ARIZONA REQUIRED
PATIENT'S HOME ZIP CODE

Data [text] National Element

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
-----0 Not Available
-20 Not Recorded
-10 Not Known

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

E01_01 Patient Care Report Number
E06_04 Patient's Home Address
E06_06 Patient's Home County

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
-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, but null value is blank or empty
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

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  E01_01  Patient Care Report Number
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

National Element

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
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

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

Required in XSD Yes

Field Values
-25 Not Applicable
-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

Field Values

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**

**Data**  
[combo] single-choice

**National Element**

**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  
-20 Not Recorded

-15 Not Reporting  
-10 Not Known

---5 Not Available  
700 Hours

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
- E01_01 Patient Care Report Number

**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 Yes, but null value is blank or empty
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 (required only for billed patient records)
STATE ISSUING DRIVER'S LICENSE

E06_18

**Data**
[combo] single-choice

**Definition**
The state that issued the driver's license

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:string</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSD Domain (Simple Type)</td>
<td>State</td>
</tr>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</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>3</td>
</tr>
</tbody>
</table>

XSD Structure: E06_18 and E06_19 are members of the E06_19_0 Patient's Drivers License Structure

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

**Additional Information**
- 2 digit FIPS Code

**Uses**
- Can provide linkage back to DMV databases for additional patient and event information
- Form of identification to allow verification of the patient's identify and contact information

**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_19 Driver's License Number

Optional
**DATA**

**Definition**

The patient's driver's license number

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

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

**Required in XSD**  No  **Minimum Constraint**  1  **Maximum Constraint**  30

XSD Structure:  E06_18 and E06_19 are members of the E06_19_0 Patient's Drivers License Structure

**Field Values**

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

**Uses**

- Can provide linkage back to DMV databases for additional patient and event information
- Form of identification to allow verification of the patient’s identity and contact information

**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_18</td>
<td>State Issuing Driver's License</td>
</tr>
</tbody>
</table>

Optional
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
**XSD Structure:**  E07_35, E07_36 are members of E07_35_0 Condition Codes Structure

**Field Values**

-25 Not Applicable
-15 Not Reporting
-20 Not Recorded
-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/ Syncpe/ 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 Electrocution (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)
8071 Severe Dehydration (ALS-787.01)
8073 Major Trauma (ALS-959.8)
8075 Other Trauma (major bleeding) (ALS-958.2)
8077 Other Trauma (penetrating extremity) (BLS-880.0)
8079 Other Trauma (amputation other) (ALS-887.4)
8081 Burns-Major (ALS-949.3)
8083 Animal Bites/Sting/Envenomation (ALS-989.5)
8085 Lightning (ALS-994.0)
8087 Near Drowning (ALS-994.1)
8089 Sexual Assault (major injuries) (ALS-995.83)
8091 Cardiac/Hemodynamic Monitoring Required (ALS-428.9)
8093 IV Medications Required (ALS-No ICD code provided)
8095 Suctioning/Oxygen/IV fluids required (BLS-496.0)
8097 Third Party Assistance/Attendant Required (BLS-496.0)
8099 Patient Safety (monitoring required) (BLS-293.1)
8070 Patient Safety (seclusion required) (BLS-298.8)
8071 Patient Safety (risk of falling off stretcher) (BLS-781.3)
8072 Special Handling (Isolation) (BLS-041.9)
8073 Special Handling (orthopedic device required) (BLS-907.2)
8074 Special Handling (positioning required) (BLS-719.45)

**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
-15 Not Reporting
-10 Not Known
-5 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
E07_35 Condition Code Number
E01_01 Patient Care Report Number
E07_37 Condition Code Modifier

Optional
### Condition Code Modifier

**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>
<th>XSD Domain (Simple Type)</th>
<th>AirAmbulanceModifier</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  
-10  Not Known  
-5  Not Available  
1035  A-Interfacility Transport (requires higher level of care)  
1036  B-Interfacility Transport (service not available)  
1037  C-ALS Response to BLS Patient  
1038  D-Medically Necessary Transport (Not Nearest Facility)  
1039  E-BLS Transport of ALS Patient  
1040  F-Emergency Trauma Dispatch Condition Code (patient is BLS)  
1041  Air-A-Long Distance  
1042  Air-B-Traffic Precludes Ground Transport  
1043  Air-C-Time Precludes Ground Transport  
1044  Air-D-Pick up Point not Accessible by Ground Transport

#### 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**
Scene
INCIDENT LOCATION TYPE

Data [combo] single-choice

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

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
E01_01 Patient Care Report Number

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**

The GPS coordinates associated with the Scene.

**Definition**

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

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  
-15 Not Reporting  
-5 Not Available
-20 Not Recorded  
-10 Not Known

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_12 Incident City
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)

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: 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
● 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

Data (combo) single-choice

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 an 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)

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: 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
-05 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
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

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:string</th>
<th>XSD Domain (Simple Type)</th>
<th>Zip</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>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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
-05 Not Available
-20 Not Recorded

**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
- E08_07 Incident Location Type
- E08_12 Incident City
- E01_01 Patient Care Report Number
- E08_11 Incident Address
- E08_14 Incident State

**ARIZONA REQUIRED**
Received From Agency ID

**Arizona Element**

**Data**

**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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<th>XSD Data Type</th>
<th>XSD Domain (Simple Type)</th>
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<th>Multiple Entry Configuration</th>
<th>Accepts Null Values</th>
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<tbody>
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**Field Values**

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

-20 Not Recorded

**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**

**PRIOR AID**

**Data** [combo] multiple-choice

**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  
-15 Not Reporting  
-5 Not Available  
-20 Not Recorded  
-10 Not Known

**AZ-PIERS Additional Values - Medications**

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<td>426</td>
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156013 | DuoNeb (0.5 Atrovent/3.0 Albuterol) | 9396 | Oxygen by Nasal Cannula
156005 | Enoxaparin | 910 | Oxygen
441 | Epinephrine 1:10,000 | 438 | Oxygen by Nebulizer
440 | Epinephrine 1:1000 | 439 | Oxygen by Positive Pressure Device
418 | Epi-Pen Adult | 411 | Oxytocin (Pitocin)
419 | Epi-Pen Junior | 433 | Phenylephrine HCl (Neo-Sympine)
407 | Eptifibatide (Integrilin) | 434 | Phenytoin (Dilantin)
430 | Esmolol HCl (Brevibloc) | 435 | Potassium CI
141 | Etomidate | 156019 | Pralidoxime (2-PAM, Systemic)
325 | Fentanyl | 64 | Procainamide
413 | Flumazenil (Romazicon) | 415 | Prochlorperazine (Compazine)
132 | Furosemide (Lasix) | 403 | Promethazine HCl (Phenergan)
231 | Glucagon | 521 | Proparacaine (Alcaine)
156023 | Glucose (Oral) | 402 | Racemic Epinephrine
408 | Glutose | 172 | Reactose
156016 | Granisetron HCL (Kytril) | 410 | Rocuronium Bromide (Zemuron)
414 | Haloperidol (Haldol) | 151 | Sodium bicarbonate
51 | Heparin | 156020 | Sodium Nitrate (Cyanide Kit)
437 | Hurricaine Spray | 156021 | Sodium Thiosulfate (Cyanide Kit)
431 | Hydralazine (Apresoline) | 41 | Succinylcholine (Anectine)
409 | Hydromorphone (Dilaudid) | 156006 | Tenecteplase
156017 | Ibuprofen (Advil, Motrin) | 32 | Terbutaline (Brethine)
412 | Insulin | 156007 | Tetracaine
201 | Ipecac | 39 | Thiamine
67 | Isoproterenol | 406 | Tirofiban HCL (Aggrastat)
432 | Ketamine | 401 | Vasopressin
38 | Ketorolac (Toradol) | 66 | Verapamil (Isoptin)

**AZ-PIERS Additional Values – Procedures**

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<th>NEMSIS Code</th>
<th>AZ-PIERS Code</th>
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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
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
1200 Law Enforcement
1205 Lay Person
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

E09_04

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
  1 Yes
  0 No

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  
**Accepts Null Values** Yes  
**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**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>567000</td>
<td>Abdominal Pain</td>
</tr>
<tr>
<td>567001</td>
<td>Back Pain</td>
</tr>
<tr>
<td>567002</td>
<td>Bright Red Blood in Stool</td>
</tr>
<tr>
<td>567003</td>
<td>CardioRespiratory Arrest</td>
</tr>
<tr>
<td>567004</td>
<td>Chest Pain</td>
</tr>
<tr>
<td>567005</td>
<td>Dizziness</td>
</tr>
<tr>
<td>567006</td>
<td>Ear Pain</td>
</tr>
<tr>
<td>567007</td>
<td>Eye Pain</td>
</tr>
<tr>
<td>567008</td>
<td>Other</td>
</tr>
<tr>
<td>567009</td>
<td>Paralysis</td>
</tr>
<tr>
<td>567010</td>
<td>Seizure/Convulsions</td>
</tr>
<tr>
<td>567011</td>
<td>Syncope</td>
</tr>
<tr>
<td>567012</td>
<td>Unresponsive/Unconscious</td>
</tr>
<tr>
<td>567013</td>
<td>Vaginal Hemorrhage</td>
</tr>
<tr>
<td>567014</td>
<td>Dark/Tarry Stool (Melena)</td>
</tr>
<tr>
<td>567015</td>
<td>Headache</td>
</tr>
<tr>
<td>567016</td>
<td>Visual Impairment or Loss of Vision</td>
</tr>
<tr>
<td>567017</td>
<td>Cough</td>
</tr>
<tr>
<td>567018</td>
<td>Orthostatic Hypotension</td>
</tr>
<tr>
<td>567019</td>
<td>Headache w/ Photophobia</td>
</tr>
<tr>
<td>567020</td>
<td>Hematemesis</td>
</tr>
<tr>
<td>567021</td>
<td>Aphasia</td>
</tr>
<tr>
<td>567022</td>
<td>Anxiety</td>
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<tr>
<td>567024</td>
<td>Hives</td>
</tr>
<tr>
<td>567025</td>
<td>Indigestion</td>
</tr>
<tr>
<td>567026</td>
<td>Lethargic</td>
</tr>
<tr>
<td>567027</td>
<td>Pain - Extremity</td>
</tr>
<tr>
<td>567028</td>
<td>Pain - Flank</td>
</tr>
<tr>
<td>567029</td>
<td>Pain - Neck</td>
</tr>
<tr>
<td>567030</td>
<td>Wheezing</td>
</tr>
<tr>
<td>567037</td>
<td>Obstetrics - Contractions</td>
</tr>
<tr>
<td>567038</td>
<td>Constipation</td>
</tr>
<tr>
<td>567039</td>
<td>Loss of Appetite</td>
</tr>
<tr>
<td>567040</td>
<td>Change in Stool Color</td>
</tr>
</tbody>
</table>

**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**
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

National Element

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>
<th>Code</th>
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</tr>
<tr>
<td>568003</td>
<td>CardioRespiratory Arrest</td>
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<tr>
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<tr>
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</tr>
<tr>
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</tr>
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<td>568016</td>
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</tr>
</tbody>
</table>

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.

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
Data [combo] single-choice

**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**

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

-20 Not Recorded
-10 Not Known

1615 789.00- Abdominal pain / problems
1625 995.30- Allergic reaction
1635 312.90- Behavioral / psychiatric disorder
1645 427.90- Cardiac rhythm disturbance
1655 250.90- Diabetic symptoms (hypoglycemia)
1665 780.60- Hyperthermia
1675 785.59- Hypovolemia / shock
1685 798.99- Obvious death
1695 659.90- Pregnancy / OB delivery
1705 799.10- Respiratory arrest
1715 959.90- Sexual assault / rape
1725 989.50- Stings / venomous bites
1735 780.20- Syncope / fainting
1745 623.80- Vaginal hemorrhage

**AZ-PIERS Additional Values**

569000 Abdominal Aortic Aneurysm
569001 Asthma
569002 Bowel Obstruction
569003 Cancer
569004 CHF (Congestive Heart Failure)
569005 TIA (Transient Ischemic Attack)
569006 Dehydration
569007 Diabetic Hyperglycemia
569008 ETOH Abuse
569009 G.I. Bleed
569010 Headache
569011 Heat Exhaustion/Stroke
569012 Hypertension
569013 Hypotension
569014 OB/Delivery
569015 Other
569016 Other Abdominal/GI Problem
569017 Other Cardiovascular Problem
569018 Other CNS Problem
569019 Other Endocrine/Metabolic Problem
569021 Other GU Problems
569022 Other Illness/Injury
569023 Other OB/Gyn
569024 Pain
569025 Substance/Drug Abuse
569026 Toxic Exposure
569027 Unconscious
569028 Unknown Problem
569029 Sepsis
569030 COPD (Emphysema/Chronic Bronchitis)
569031 General Malaise
569032 Weakness
569033 No Apparent Illness/Injury
569034 Fever
569035 Nausea/Vomiting (Unknown Etiology)
569036 Patient Assist Only
569037 Back Pain (Non-Traumatic)
569038 Diarrhea
569039 Migraine
569040 Epistaxis (Non-Traumatic)
569070 Pneumonia
569274 Displaced Fracture: Closed
569275 Displaced Fracture: Open
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**

**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).

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>XSD Domain (Simple Type)</th>
<th>ProvidersSecondaryImpression</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>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**
-25 Not Applicable
-15 Not Reporting
-5 Not Available
1755 519.80- Airway obstruction
1765 780.09- Altered level of consciousness
1775 427.50- Cardiac arrest
1785 786.50- Chest pain / discomfort
1795 994.80- Electrocuton
1805 780.90- Hypothermia
1815 987.90- Inhalation injury (toxic gas)
1825 977.90- Poisoning / drug ingestion
1835 786.09- Respiratory distress
1845 780.30- Seizure
1855 987.90- Smoke inhalation
1865 436.00- Stroke / CVA
1875 959.90- Traumatic injury

**AZ-PIERS Additional Values**
570000 Abdominal Aortic Aneurysm
570001 Asthma
570002 Bowel Obstruction
570003 Cancer
570004 CHF (Congestive Heart Failure)
570005 TIA (Transient Ischemic Attack)
570006 Dehydration
570007 Diabetic Hyperglycemia
570008 ETOH Abuse
570009 G.I. Bleed
570010 Headache
570011 Heat Exhaustion/Stroke
570012 Hypertension
570013 Hypotension
570014 OB/Delivery
570015 Other
570016 Other Abdominal/GI Problem
570017 Other Cardiovascular Problem
570018 Other CNS Problem
570019 Other Endocrine/Metabolic Problem
570021 Other GU Problems
570022 Other Illness/Injury
570023 Other OB/Gyn
570024 Pain
570025 Substance Drug Abuse
570026 Toxic Exposure
570027 Unconscious
570028 Unknown Problem
570029 Sepsis
570030 COPD (Emphysema/Chronic Bronchitis)
570031 General Malaise
570032 Weakness
570033 No Apparent Illness/Injury
570034 Fever
570035 Nausea/Vomiting (Unknown Etiology)
570036 Patient Assist Only
570037 Back Pain (Non-Traumatic)
570038 Diarrhea
570039 Migraine
570040 Epistaxis (Non-Traumatic)
570207 Pneumonia
570274 Displaced Fracture: Closed
570275 Displaced Fracture: Open
**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

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 Applicable  -20 Not Recorded
-15 Not Reporting  -10 Not Known
-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 Venemous stings (plants, animals) (E905.0)

AZ-PIERS Additional Values

<table>
<thead>
<tr>
<th>AZ-PIERS Additional Values</th>
<th>AZ-PIERS Additional Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>580000 Assault</td>
<td>580009 Other Injury</td>
</tr>
<tr>
<td>580001 ATV Rider</td>
<td>580010 Overexertion</td>
</tr>
<tr>
<td>580002 Caught in/between Objects</td>
<td>580012 Snowmobile Accident</td>
</tr>
<tr>
<td>580003 Cut/Pierce</td>
<td>580014 Struck by or Against</td>
</tr>
<tr>
<td>580004 Explosion</td>
<td>580015 Unarmed Fight/Brawl</td>
</tr>
<tr>
<td>580005 Foreign body entering eye/orifice</td>
<td>580017 Motor Vehicle vs Large Animal</td>
</tr>
<tr>
<td>580006 Hot Object/Substance</td>
<td>580019 Neglect/Malnutrition</td>
</tr>
<tr>
<td>580007 Motor Vehicle vs Pedestrian Accident</td>
<td>580020 Housing/Dangerous Condition</td>
</tr>
</tbody>
</table>

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
E00 Common Null Values  E01_01 Patient Care Report Number

References in NHTSA Version 1
Essential  Element 49  Cause of Injury

References to Other Databases
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  -20  Not Recorded
-15  Not Reporting  -10  Not Known
-5  Not Available  2020  Intentional, Other (Assaulted)
2025  Intentional, Self  2030  Unintentional

AZ-PIERS Additional Values

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 -20 Not Recorded
-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

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>XSD Domain (Simple Type)</th>
<th>VehicularInjuryIndicators</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
-10 Not Known
-5 Not Available
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

E10_05

Data  [combo] multiple-choice

Definition
The area or location of impact on the vehicle

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

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

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSD Domain (Simple Type)</td>
<td>SeatRowLocation</td>
</tr>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</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>1</td>
</tr>
<tr>
<td>Maximum Constraint</td>
<td>50</td>
</tr>
</tbody>
</table>

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

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

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

**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
2170 Child Restraint
2180 Helmet Worn
2185 Lap Belt
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.

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

**Required in XSD**  
No

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

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>XSD Domain (Simple Type)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required in XSD</td>
<td>No</td>
</tr>
</tbody>
</table>

**Multiple Entry Configuration** No

**Accepts Null Values** Yes

**Field Values**
-25 Not Applicable
-15 Not Reporting
-5 Not Available
-40 Not Known
960006 ATV
960000 Car
960003 Semi
960010 SUV – Compact
960011 SUV – Midsize
960002 Van
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

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>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></td>
</tr>
</tbody>
</table>

Field Values

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

-25 Not Applicable: 310001 Amputation proximal to wrist or ankle
-20 Not Recorded: 310003 BSA < 10%
-10 Not Known: 310007 GCS improving
-5 Not Available: 310009 Minor Injuries
-20 Not Recorded: 310011 Other single system injury
-10 Not Known: 310013 Penetrating injuries to extremities
-5 Not Available: 310015 PTS
-20 Not Recorded: 310017 Two or more proximal long bone fractures
-10 Not Known: 310019 Mechanism: Death of same car occupant
-5 Not Available: 310021 Mechanism: Heavy extrication time (>20 minutes)
-20 Not Recorded: 310023 Comorbid: Bleeding disorder or on anti-coagulants
-10 Not Known: 310024 Comorbid: Cardiac/respiratory disease, diabetes, cirrhosis, or morbid obesity
-5 Not Available: 310025 Comorbid: Pregnancy
-20 Not Recorded: 310026 Comorbid: Immunosuppressed
-10 Not Known: 310027 Comorbid: Presence of intoxicants
-5 Not Available: 310028 Comorbid: Paramedic discretion
-20 Not Recorded: 310029 Comorbid: Other (specify in narrative)
-10 Not Known: 310031 High Energy: Pedestrian hit at 20 mph or thrown 15 feet
-5 Not Available: 310032 High Energy: Rollover
-20 Not Recorded: 310033 High Energy: MC, ATV, Bicycle crash
-10 Not Known: 310034 High Energy: Impact / Significant intrusion
-5 Not Available: 310035 Hemorrhage from a Great Vessel
-20 Not Recorded: 310036 Multiple Victims
-10 Not Known: 310037 Drowning or Near Drowning
-5 Not Available: 310038 Hypothermic with Core Temp

Uses

Data Collector

Other Associated Elements

Optional
Section E11

Situation/ CPR
CARDIAC ARREST

Data  [combo] single-choice

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

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

E11_02

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

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
-15 Not Reporting
-5 Not Available
-20 Not Recorded
-10 Not Known
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
-20 Not Recorded
-10 Not Known
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  Accepts Null Values  Yes
Required in XSD  No

Field Values
-25 Not Applicable
-15 Not Reporting
-5 Not Available
2330 Bradycardia
2340 Other
2350 Unknown AED Non-Shockable Rhythm
2360 Ventricular Fibrillation

AZ-PIERS Additional Values
604000  Paced Rhythm

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
E00  Common Null Values  E01_01  Patient Care Report Number

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
-20  Not Recorded
-10  Not Known
2380  No
2375  Yes, Prior to ED Arrival and at the ED

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

- 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
ESTIMATED TIME OF ARREST PRIOR TO EMS ARRIVAL

Data [combo] single-choice

Definition
The length of time the patient was down (estimated) before the responding unit arrived at the patient

XSD Data Type xs:integer XSD Domain (Simple Type) EstimatedTimeOfArrestPriorToEMS
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 2390 >20 Minutes
2395 15-20 Minutes 2400 10-15 Minutes
2405 8-10 Minutes 2410 6-8 Minutes
2415 4-6 Minutes 2420 2-4 Minutes
2425 0-2 Minutes

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
**DATE/TIME RESUSCITATION DISCONTINUED**

**E11_09**

**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  -20 Not Recorded
-15 Not Reporting  -10 Not Known
-5 Not Available  2430 DNR
2435 Medical Control Order  2440 Obvious Signs of Death
2445 Protocol/Policy Requirements Completed  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.

NISE Prefix 320

Compatible with E23_11 & E23_09

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

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

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>
<th>XSD Domain (Simple Type)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
</tr>
</tbody>
</table>

Required in XSD

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

-20 Not Recorded

-15 Not Reporting
-10 Not Known
-5 Not Available
0 No

ARIZONA REQUIRED

Uses
Data Collector

Other Associated Elements

ARIZONA REQUIRED
**BARRIERS TO PATIENT CARE**

**E12_01**

**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

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

**Required in XSD**  
Yes

**Field Values**

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

2605  Hearing Impaired
2615  None
2625  Physically Restrained
2635  Unattended or Unsupervised (including minors)

-20  Not Recorded
-10  Not Known

2600  Developmentally Impaired
2610  Language
2620  Physically Impaired
2630  Speech Impaired
2640  Unconscious

**AZ-PIERS Additional Values**

<table>
<thead>
<tr>
<th>620000</th>
<th>Combative patient</th>
</tr>
</thead>
</table>

| 620000 | Obesity |

**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**

E0  Common Null Values

**E01_01**  
Patient Care Report Number

**References in NHTSA Version 1**

Desirable Element 56  
Factors Affecting EMS Delivery of Care

**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**
**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**
ENVIRONMENTAL/ FOOD ALLERGIES

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
-20 Not Recorded
-15 Not Reporting
-10 Not Known
-5 Not Available
2675 Insect Sting
2680 Food Allergy
2685 Latex
2690 Chemical
2695 Other
2700 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
E00  Common Null Values  E01_01  Patient Care Report Number
E06_01  Last Name

ARIZONA REQUIRED
**MEDICAL/SURGICAL HISTORY**

**Data**  
[combo or text] multiple-choice

**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
- E06_01 Last Name
- E01_01 Patient Care Report Number

**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>
</tr>
</thead>
<tbody>
<tr>
<td>XSD Domain (Simple Type)</td>
<td>MedicalHistoryObtainedFrom</td>
</tr>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</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
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
- E01_01 Patient Care Report Number
- E06_01 Last Name

Optional
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

Field Values

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
-15 Not Reporting
-10 Not Known
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
-15 Not Reporting
-10 Not Known
-5 Not Available
-20 Not Recorded

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
Assessment/ Vital Signs
DATE/TIME VITAL SIGNS TAKEN

Data [date/time]

Definition
Date/Time Vital Signs Taken

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: 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

E14_02

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
-5 Not Available
1 Yes

-20 Not Recorded
-10 Not Known
0 No

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
E14_01 Date/Time Vital Signs Taken

E01_01 Patient Care Report Number

ARIZONA REQUIRED
CARDIAC RHYTHM

Data [combo] multiple-choice

Definition
The initial cardiac rhythm of the patient as interpreted by EMS personnel

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

Multiple Entry Configuration (1) Yes, via structure. (2) Yes for each E14_01 Date/Time
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
-10 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

AZ-PIERS Additional 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
E00 Common Null Values
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_01  Date/Time Vital Signs Taken  
E14_05  DBP (Diastolic Blood Pressure)  
E14_06  Method of Blood Pressure Measurement

References in NHTSA Version 1  
Essential  
Element  
70  
Systolic Blood Pressure

ARIZONA REQUIRED
Data: [number]

**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 in 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

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
XSD Structure: Each element is section E14 is associated with a E14_01 Date/Time

Multiple Entry Configuration Yes, via structure
Accepts Null Values Yes, but null value is blank or empty
Minimum Constraint 0
Maximum Constraint 100

Required in XSD No

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
-15 Not Reporting
-5 Not Available
3190 Labored
3200 Absent

3185 Normal
3195 Fatigued
3205 Not Assessed

AZ-PIERS Additional Values

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</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

E01_01 Patient Care Report Number

References in NHTSA Version 1
Desirable Element 69 Respiratory Effort

ARIZONA REQUIRED
End-tidal or Other CO2 Level
(Also called “CARBON DIOXIDE”)

Data [number]

**Definition**
The patient’s end-tidal or other CO2 level.

- **XSD Data Type**: xs:integer
- **XSD Domain (Simple Type)**: CO2
- **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 in 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 Stoke 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_01 Date/Time Vital Signs Taken
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
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  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_01  Date/Time Vital Signs Taken
E14_15  Glasgow Coma Score-Eye  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  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 Score.

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 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 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
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_16 Glasgow Coma Score-Verbal
E14_19 Total Glasgow Coma Score
E01_01 Patient Care Report Number
E14_15 Glasgow Coma Score-Eye
E14_17 Glasgow Coma Score-Motor

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 is 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_15  Glasgow Coma Score-Eye
E14_17  Glasgow Coma Score-Motor
E14_01  Date/Time Vital Signs Taken
E14_16  Glasgow Coma Score-Verbal
E14_18  Glasgow Coma Score-Qualifier

References in NHTSA Version 1
Desirable  Element 76  Glasgow Coma Score (Total)

ARIZONA REQUIRED
TEMPERATURE E14_20

Data [number]

Definition
The patient's body temperature in degrees celsius/centigrade.

XSD Data Type xs:decimal XSD Domain (Simple Type) BodyTemperature
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
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 an E14_01 Date/Time

Field Values
-25 Not Applicable
-20 Not Recorded
-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 is 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  
3275 Cincinnati Stroke Scale Negative  
3280 Cincinnati Stroke Scale Non-conclusive  
3285 Cincinnati Stroke Scale Positive  
3290 LA Stroke Scale Negative  
3295 LA Stroke Scale Non-conclusive  
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**
- E00 Common Null Values  
- E14_01 Date/Time Vital Signs Taken

**ARIZONA REQUIRED**
**Stroke Scale Speech**

**Data** int (null)

**Definition**

**NISE Prefix** 350

**NOT Compatible with E23_11 & E23_09**

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

**Field Values**

-25 Not Applicable

-15 Not Reporting

-5 Not Available

-20 Not Recorded

-10 Not Known

350001 Normal

350002 Abnormal

**Uses**

**Data Collector**

**Other Associated Elements**

**Additional Information** Unavailable for 3rd party software users.

**Optional**

- Important for Stroke Patients and Potential Stroke Patients.
Stroke Scale Facial Droop

Data int (null)

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>
<th>Required in XSD</th>
<th>Accepts Null Values</th>
<th>Multiple Entry Configuration</th>
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<tbody>
<tr>
<td>int (null)</td>
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<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

Field Values

-25 Not Applicable
-15 Not Reporting
-5 Not Available
351000 Abnormal
351001 Normal
-20 Not Recorded
-10 Not Known

Uses

Data Collector

Other Associated Elements

Additional Information Unavailable for 3rd party software users.

Optional

- Important for Stroke Patients and Potential Stroke Patients.
Stroke Scale Arm Drift

Data int (null)

Arizona Element

NI SE Prefix 352

NOT Compatible with E23_11 & E23_09

XSD Data Type int (null) XSD Domain (Simple Type)
Multiple Entry Configuration No 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
352001 Normal
352002 Abnormal

Uses
Data Collector
Other Associated Elements

Additional Information Unavailable for 3rd party software users.

Optional
- Important for Stroke Patients and Potential Stroke Patients.
APGAR

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 in 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

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

**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** 12

XSD Structure: Each element is section E14 is associated with a E14_01 Date/Time

**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
Assessment/ Injury
NHTSA INJURY MATRIX EXTERNAL/SKIN

Data [combo] multiple-choice

Definition
Type of injury identified and associated with the external body/Skin (including burns)

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/bruising

AZ-PIERS Additional Values
695000 Abrasions
695001 Avulsion
695002 Crepitus
695003 Deformity
695004 Ecchymosis
695005 Foreign Body
695006 Pain/tenderness
695007 Burn Redness
695008 Burn Blistering
695009 Burn Charring
695010 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 HEAD**

**Data**  
[combo] multiple-choice

**Definition**  
Type of injury identified and associated with the Head (excluding face, neck, cervical spine, and ear)

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<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>
</tbody>
</table>

**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
3320 Amputation
3330 Bleeding Uncontrolled
3340 Crush
3350 Gunshot
3360 Pain without swelling/bruising
3370 Soft Tissue Swelling/bruising

**AZ-PIERS Additional Values**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>696000</td>
<td>Abrasions</td>
</tr>
<tr>
<td>696001</td>
<td>Avulsion</td>
</tr>
<tr>
<td>696002</td>
<td>Crepitus</td>
</tr>
<tr>
<td>696003</td>
<td>Deformity</td>
</tr>
<tr>
<td>696004</td>
<td>Ecchymosis</td>
</tr>
<tr>
<td>696005</td>
<td>Foreign Body</td>
</tr>
<tr>
<td>696006</td>
<td>Pain/tenderness</td>
</tr>
<tr>
<td>696007</td>
<td>Burn Redness</td>
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<tr>
<td>696008</td>
<td>Burn Blistering</td>
</tr>
<tr>
<td>696009</td>
<td>Burn Charring</td>
</tr>
<tr>
<td>696010</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>Code</th>
<th>Description</th>
</tr>
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<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

**ARIZONA REQUIRED**
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  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
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

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
698000 Abrasions
698001 Avulsion
698002 Crepitus
698003 Deformity
698004 Ecchymosis
698005 Foreign Body

AZ-PIERS Additional Values
698006 Pain/tenderness
698007 Burn Redness
698008 Burn Blistering
698009 Burn Charring
698010 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 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

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
-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
700000 Abrasions
700001 Avulsion
700002 Crepitus
700003 Deformity
700004 Ecchymosis
700005 Foreign Body
700006 Pain/tenderness
700007 Burn Redness
700008 Burn Blistering
700009 Burn Charring
700010 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

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
-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
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
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/Brusing

AZ-PIERS Additional Values

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<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
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<tr>
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<tr>
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<td>Crepitus</td>
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<tr>
<td>702003</td>
<td>Deformity</td>
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<td>702004</td>
<td>Ecchymosis</td>
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<td>702005</td>
<td>Foreign Body</td>
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<td>Burn Redness</td>
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<td>702009</td>
<td>Burn Charring</td>
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<td>702010</td>
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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

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/Bruising

AZ-PIERS Additional Values

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<thead>
<tr>
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<th>Description</th>
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<td>Crepitus</td>
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<td>Burn White/Waxy</td>
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<td>703011</td>
<td>Priapism</td>
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</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 LOWER EXTREMITIES

**Data**
[combo] multiple-choice

**Definition**
Type of injury identified and associated with the Lower Extremities

<table>
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<tr>
<th>XSD Data Type</th>
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<td>Yes</td>
<td><strong>Accepts Null Values</strong></td>
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</tr>
<tr>
<td><strong>Required in XSD</strong></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**
| 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 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
-5  Not Available
-20  Not Recorded
-40  Not Known
3320  Amputation
3330  Bleeding Uncontrolled
3340  Crush
3350  Gunshot
3360  Pain without swelling/bruising
3370  Soft Tissue Swelling/Bruiising

AZ-PIERS Additional Values

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<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
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<td>705001</td>
<td>Avulsion</td>
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<td>Crepitus</td>
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<td>705009</td>
<td>Burn Charring</td>
</tr>
<tr>
<td>705010</td>
<td>Burn White/Waxy</td>
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</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
Assessment/ Exam
Data [number]

Definition
The patient’s body weight in kilograms, either measured or estimated

<table>
<thead>
<tr>
<th>XSD Data Type</th>
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<td>Maximum Constraint</td>
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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

Data 
[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_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_16 Extremities-Right Upper Assessment 
E16_17 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
SKIN ASSESSMENT

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
-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

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
**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
-10 Not Known
-5 Not Available

-20 Not Recorded
-3500 Normal
3505 Not Done
3510 JVD
3515 Strider
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**

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<td>Back Lumbar/Sacral Assessment</td>
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<tr>
<td>E16_23</td>
<td>Mental Status Assessment</td>
</tr>
</tbody>
</table>

Optional
CHEST/ LUNGS ASSESSMENT

Definition
The assessment of the patient's chest on examination

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

Field Values
-25 Not Applicable
-15 Not Reporting
-10 Not Known
0 Normal
3 Normal BS
3535 Not Done
3540 Accessory Muscles
3545 Decreased BS-Left
3550 Decreased BS-Right
3555 Flail Segment-Left
3560 Flail Segment-Right
3565 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

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
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
-15 Not Reporting
-10 Not Known
-5 Not Available
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  E01_01 Patient Care Report Number
E16_03 Date/Time of Assessment  E16_05 Head/Face Assessment
E16_06 Neck Assessment  E16_07 Chest/Lungs 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-Left 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
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                 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
E00 Common Null Values  E16_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_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 LOWER ASSESSMENT

Data [combo] multiple-choice

Definition
The assessment of the patient's left lower abdomen on examination

XSD Data Type xs:integer
XSD Domain (Simple Type) AbdomenLowerLeftAssessment
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
3645 Normal
3650 Not Done
3655 Distention
3660 Guarding
3665 Mass
3670 Tenderness

AZ-PIERS Additional Values

| 723000 | Rebound Tenderness |
| 723001 | Rash |

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_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_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 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
-15 Not Reporting
-5 Not Available
3680 Not Done
3690 Guarding
3700 Tenderness
3675 Normal
3685 Distention

AZ-PIERS Additional Values

<table>
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<tr>
<th>Value</th>
<th>Description</th>
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<tr>
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<td>Rebound Tenderness</td>
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</tr>
<tr>
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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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<tr>
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<td>Neurological Assessment</td>
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</table>

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
-20 Not Recorded
3705 Normal
3710 Not Done
3715 Distention
3720 Guarding
3725 Mass
3730 Tenderness

**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
- E01_01  Patient Care Report Number
- E01_04  Skin Assessment
- E16_03  Date/Time of 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_23  Mental Status Assessment
- E16_24  Neurological Assessment

Optional
GU ASSESSMENT

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
-5 Not Available
-20 Not Recorded
-10 Not Known
-5 Not Available
3735 Normal
3740 Not Done
3745 Crowning
3750 Genital Injury
3755 Tenderness
3760 Unstable

AZ-PIERS Additional Values

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<tr>
<td>726003</td>
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<tr>
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<td>726005</td>
<td>Blood from Vagina</td>
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<tr>
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<td>Blood from Penis</td>
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<td>726007</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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Optional
BACK CERVICAL ASSESSMENT

**Data**  [combo] multiple-choice

**Definition**
The assessment of the patient's back-cervical on examination

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

**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**

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<td>Not Reporting</td>
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<tr>
<td>-10</td>
<td>Not Known</td>
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<td>-5</td>
<td>Not Available</td>
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<td>Normal</td>
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<td>3770</td>
<td>Not Done</td>
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<tr>
<td>3775</td>
<td>Pain to ROM</td>
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<td>3780</td>
<td>Tender Para-spinous</td>
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<td>3785</td>
<td>Tender Spinous Process</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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</table>

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
- `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_16` Back Lumbar/Sacral Assessment
- `E16_18` Extremities-Right Lower Assessment
- `E16_20` Extremities-Left Lower Assessment
- `E16_22` Eyes-Left Assessment
- `E16_24` Neurological Assessment

Optional
Definition
The assessment of the patient's back-lumbar/sacral on examination

XSD Data Type \( \text{x}:\text{integer} \)  XSD Domain (Simple Type) \( \text{BackLumbarSacralAssessment} \)
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
- 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_18  Extremities-Right Lower Assessment
- E16_20  Extremities-Left Lower Assessment
- E16_22  Eyes-Right Assessment
- E16_24  Neurological Assessment

Optional
EXTREMITIES-RIGHT UPPER ASSESSMENT

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  -20 Not Recorded
-15 Not Reporting  -10 Not Known
-5 Not Available  3840 Normal
3845 Not Done  3850 Abnormal Pulse
3855 Abnormal Sensation  3860 Edema
3865 Tenderness  3870 Weakness

AZ-PIERS Additional Values

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<th>Description</th>
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<td>Abnormal C.M.S.</td>
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<td>Absent Pulse</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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Optional
EXTREMITIES-RIGHT LOWER ASSESSMENT

Data [combo] multiple-choice

Definition
The assessment of the patient's right lower extremities on examination

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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
3880 Not Done
3890 Abnormal Sensation
3900 Tenderness

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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</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_19</td>
<td>Extremities-Left Upper Assessment</td>
</tr>
<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
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
<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>732000</td>
<td>Cold Extremity</td>
</tr>
<tr>
<td>732001</td>
<td>+ C.M.S.</td>
</tr>
<tr>
<td>732002</td>
<td>Abnormal C.M.S.</td>
</tr>
<tr>
<td>732003</td>
<td>Absent Pulse</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
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_20 Extremities-Left Lower Assessment E16_21 Eyes-Left Assessment
E16_22 Eyes-Right 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
-15 Not Reporting
-5 Not Available
3950 Not Done
3960 Abnormal Sensation
3970 Tenderness

-20 Not Recorded
-10 Not Known
3945 Normal
3955 Abnormal Pulse
3965 Edema
3975 Weakness

AZ-PIERS Additional Values
733000 Cold Extremity
733001 + C.M.S.
733002 Abnormal C.M.S.
733003 Absent Pulse

Additional Information
- Associated in Database schema to Date/Time (E16_03) to allow multiple assessments
- 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_22 Eyes-Right Assessment
E16_24 Neurological Assessment

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

## 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
- 3980 Not Done
3985 2-mm
3995 4-mm
4005 6-mm
4015 Blind
4025 Non-Reactive

## 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>
<tr>
<td>734004</td>
<td>8 mm or &gt;</td>
</tr>
<tr>
<td>734005</td>
<td>Cataract(s) Present</td>
</tr>
<tr>
<td>734006</td>
<td>Glaucoma Present</td>
</tr>
<tr>
<td>734007</td>
<td>Pupil Deformity from Surgery/Injury</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
- 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_22 Eyes-Right Assessment
- E16_24 Neurological Assessment

## 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
-5 Not Available
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
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_24 Neurological Assessment

E01_01 Patient Care Report Number
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_23 Mental Status 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  
-15 Not Reporting  
-10 Not Known  
-5 Not Available  
4080 Normal  
4085 Not Done  
4090 Combative  
4095 Confused  
4100 Hallucinations  
4105 Oriented-Person  
4110 Oriented-Place  
4115 Oriented-Time  
4120 Unresponsive

**AZ-PIERS Additional Values**

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>736000</td>
<td>Responsive to Verbal Stimuli</td>
</tr>
<tr>
<td>736001</td>
<td>Responsive to Painful Stimuli</td>
</tr>
<tr>
<td>736002</td>
<td>Oriented-Events</td>
</tr>
<tr>
<td>736003</td>
<td>Usually Confused</td>
</tr>
<tr>
<td>736004</td>
<td>Incoherent</td>
</tr>
<tr>
<td>736005</td>
<td>Intermittent Consciousness</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>Element</th>
<th>Description</th>
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<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_21</td>
<td>Eyes-Left 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_22</td>
<td>Eyes-Right Assessment</td>
</tr>
</tbody>
</table>

**ARIZONA REQUIRED**
- Important for Stroke Patients and Potential Stroke Patients.
NEUROLOGICAL ASSESSMENT

Definition
The assessment of the patient's neurological status on examination

XSD Data Type \(\text{xs:integer}\)
XSD Domain (Simple Type) \(\text{NeurologicalAssessment}\)

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
4125 Normal
4130 Not Done
4135 Abnormal Gait
4140 Facial Droop
4145 Seizures
4150 Speech Normal
4155 Speech Slurring
4160 Tremors
4165 Weakness-Left Sided
4170 Weakness-Right Sided

AZ-PIERS Additional Values

<table>
<thead>
<tr>
<th>737000</th>
<th>Decorticate Posturing</th>
</tr>
</thead>
<tbody>
<tr>
<td>737001</td>
<td>Decerebrate Posturing</td>
</tr>
<tr>
<td>737002</td>
<td>Aphasic</td>
</tr>
<tr>
<td>737003</td>
<td>Postictal</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>E00</th>
<th>Common Null Values</th>
</tr>
</thead>
<tbody>
<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_21</td>
<td>Eyes-Left Assessment</td>
</tr>
<tr>
<td>E16_23</td>
<td>Mental Status Assessment</td>
</tr>
</tbody>
</table>

| E01_01 | Patient Care Report Number |
| 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 |

ARIZONA REQUIRED
- Important for Stroke Patients and Potential Stroke Patients.
Intervention
PROTOCOLS USED

E17_01

Data [combo] multiple-choice

Definition
The protocol used by EMS personnel to direct the clinical care of the patient

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

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
E00 Common Null Values
E01_01 Patient Care Report Number

Optional
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

Data [combo] single-choice

Definition
Indicates that the medication administration which is documented was administered prior to this EMS unit’s care.

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

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
**MEDICATION GIVEN**

**Data**  
[combo] single-choice

<table>
<thead>
<tr>
<th>National Element</th>
</tr>
</thead>
<tbody>
<tr>
<td>E18_03</td>
</tr>
</tbody>
</table>

**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  
-10 Not Known  
-5 Not Available

**AZ-PIERS Medication Values**

<table>
<thead>
<tr>
<th>AZ-PIERS Value</th>
<th>Medication</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Amyl Nitrate</td>
</tr>
<tr>
<td>8</td>
<td>Bumetanide (Bumex)</td>
</tr>
<tr>
<td>10</td>
<td>Calcium Gluconate</td>
</tr>
<tr>
<td>11</td>
<td>Diphenhydramine (Benadryl)</td>
</tr>
<tr>
<td>12</td>
<td>Dexamethasone (Decadron)</td>
</tr>
<tr>
<td>16</td>
<td>Dopamine</td>
</tr>
<tr>
<td>21</td>
<td>Atropine Sulfate</td>
</tr>
<tr>
<td>24</td>
<td>Lorazepam (Ativan)</td>
</tr>
<tr>
<td>27</td>
<td>Meperidine (Demerol)</td>
</tr>
<tr>
<td>28</td>
<td>Metaproterenol (Alupent)</td>
</tr>
<tr>
<td>30</td>
<td>Metoclopramide (Reglan)</td>
</tr>
<tr>
<td>31</td>
<td>Albuterol Sulfate</td>
</tr>
<tr>
<td>32</td>
<td>Terbutaline (Brethine)</td>
</tr>
<tr>
<td>33</td>
<td>Nifedipine (Adalat, Procardia)</td>
</tr>
<tr>
<td>38</td>
<td>Ketorolac (Toradol)</td>
</tr>
<tr>
<td>39</td>
<td>Thiamine</td>
</tr>
<tr>
<td>41</td>
<td>Succinylcholine (Anectine)</td>
</tr>
<tr>
<td>42</td>
<td>Neostigmine</td>
</tr>
<tr>
<td>51</td>
<td>Heparin</td>
</tr>
<tr>
<td>60</td>
<td>Atrovent (Ipratropium Bromide)</td>
</tr>
<tr>
<td>61</td>
<td>Adenosine</td>
</tr>
<tr>
<td>62</td>
<td>Bretylium Tosylate</td>
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<td>63</td>
<td>Lidocaine</td>
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<td>Procainamide</td>
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<td>65</td>
<td>Amiodorone (Cordarone)</td>
</tr>
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<td>66</td>
<td>Verapamil (Isoptin)</td>
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<td>67</td>
<td>Isoproterenol</td>
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<tr>
<td>68</td>
<td>Nitroprusside</td>
</tr>
<tr>
<td>72</td>
<td>Nitroglycerin</td>
</tr>
<tr>
<td>81</td>
<td>Aspirin (ASA)</td>
</tr>
<tr>
<td>92</td>
<td>Morphine Sulfate</td>
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<tr>
<td>93</td>
<td>Nubain</td>
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**AZ-PIERS Medication Values (Continued)**

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<thead>
<tr>
<th>AZ-PIERS Value</th>
<th>Medication</th>
</tr>
</thead>
<tbody>
<tr>
<td>94</td>
<td>Insulin</td>
</tr>
<tr>
<td>412</td>
<td>Flumazenil (Romazicon)</td>
</tr>
<tr>
<td>413</td>
<td>Haloperidol (Haldol)</td>
</tr>
<tr>
<td>414</td>
<td>Prochlorperazine (Compazine)</td>
</tr>
<tr>
<td>415</td>
<td>Mark 1 Kit</td>
</tr>
<tr>
<td>417</td>
<td>IV Antibiotics</td>
</tr>
<tr>
<td>418</td>
<td>Epi-Pen Adult</td>
</tr>
<tr>
<td>419</td>
<td>Epi-Pen Junior</td>
</tr>
<tr>
<td>425</td>
<td>Ondansetron (Zofran)</td>
</tr>
<tr>
<td>426</td>
<td>Other Cardiac Drug</td>
</tr>
<tr>
<td>427</td>
<td>Other CNS Drug</td>
</tr>
<tr>
<td>428</td>
<td>Other Autonomic Nervous System Drug</td>
</tr>
<tr>
<td>429</td>
<td>Other Respiratory Drug</td>
</tr>
<tr>
<td>430</td>
<td>Esmolol HCl (Brevibloc)</td>
</tr>
<tr>
<td>431</td>
<td>Hydralazine (Apresoline)</td>
</tr>
<tr>
<td>432</td>
<td>Ketamine</td>
</tr>
<tr>
<td>433</td>
<td>Phenytoin (Dilantin)</td>
</tr>
<tr>
<td>435</td>
<td>Potassium Cl</td>
</tr>
<tr>
<td>436</td>
<td>Diutiazem (Cardizem)</td>
</tr>
<tr>
<td>437</td>
<td>Hurricane Spray</td>
</tr>
<tr>
<td>438</td>
<td>Oxygen by Nebulizer</td>
</tr>
<tr>
<td>439</td>
<td>Oxygen by Positive Pressure Device</td>
</tr>
<tr>
<td>440</td>
<td>Epinephrine 1:1000</td>
</tr>
<tr>
<td>441</td>
<td>Epinephrine 1:10,000</td>
</tr>
<tr>
<td>521</td>
<td>Proparacaine (Alcaine)</td>
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<tr>
<td>605</td>
<td>Oxygen</td>
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<tr>
<td>9396</td>
<td>Oxygen by Nasal Cannula</td>
</tr>
<tr>
<td>9397</td>
<td>Oxygen by Mask</td>
</tr>
<tr>
<td>9398</td>
<td>Oxygen (non-rebreather mask)</td>
</tr>
<tr>
<td>12360</td>
<td>Oxygen by Blow By</td>
</tr>
<tr>
<td>156000</td>
<td>Alteplase</td>
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<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>101</td>
<td>Naloxone (Narcan)</td>
</tr>
<tr>
<td>111</td>
<td>Charcoal, activated</td>
</tr>
<tr>
<td>121</td>
<td>Diazepam (Valium)</td>
</tr>
<tr>
<td>122</td>
<td>Midazolam (Versed)</td>
</tr>
<tr>
<td>131</td>
<td>Magnesium Sulfate</td>
</tr>
<tr>
<td>132</td>
<td>Furosemide (Lasix)</td>
</tr>
<tr>
<td>141</td>
<td>Etomidate</td>
</tr>
<tr>
<td>142</td>
<td>Droperidol (Inapsine)</td>
</tr>
<tr>
<td>143</td>
<td>Nitronox (Nitrous Oxide)</td>
</tr>
<tr>
<td>151</td>
<td>Sodium bicarbonate</td>
</tr>
<tr>
<td>161</td>
<td>Calcium Chloride</td>
</tr>
<tr>
<td>163</td>
<td>Labetolol</td>
</tr>
<tr>
<td>171</td>
<td>Dextrose 50% (D50)</td>
</tr>
<tr>
<td>172</td>
<td>Reactose</td>
</tr>
<tr>
<td>182</td>
<td>Mannitol (Osmiotrol)</td>
</tr>
<tr>
<td>201</td>
<td>Ipecac</td>
</tr>
<tr>
<td>222</td>
<td>Methylprednisolone (Solu-Medrol)</td>
</tr>
<tr>
<td>231</td>
<td>Glucagon</td>
</tr>
<tr>
<td>300</td>
<td>Dobutamine</td>
</tr>
<tr>
<td>325</td>
<td>Fentanyl</td>
</tr>
<tr>
<td>350</td>
<td>Metoprolol (Lopressor)</td>
</tr>
<tr>
<td>400</td>
<td>Vecuronium (Norcuron)</td>
</tr>
<tr>
<td>401</td>
<td>Vasopressin</td>
</tr>
<tr>
<td>402</td>
<td>Racemic Epinephrine</td>
</tr>
<tr>
<td>403</td>
<td>Promethazine HCL (Phenergan)</td>
</tr>
<tr>
<td>404</td>
<td>Normal Saline</td>
</tr>
<tr>
<td>405</td>
<td>Abciximab (Reopro)</td>
</tr>
<tr>
<td>406</td>
<td>Tirofiban HCL (Aggrastat)</td>
</tr>
<tr>
<td>407</td>
<td>Eptifibatide (Integrilin)</td>
</tr>
<tr>
<td>408</td>
<td>Glucose</td>
</tr>
<tr>
<td>409</td>
<td>Hydromorphone (Dilaudid)</td>
</tr>
<tr>
<td>410</td>
<td>Rocuronium Bromide (Zemuron)</td>
</tr>
<tr>
<td>411</td>
<td>Oxytocin (Pitocin)</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
- 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 (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
**Definition**

The route that the medication was administered to the patient.

**XSD Data Type**  
xs:integer

**XSD Domain (Simple Type)**  
MedicationAdministeredRoute

**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**

<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>4180</td>
<td>Gastrostomy tube</td>
</tr>
<tr>
<td>4190</td>
<td>Intramuscular</td>
</tr>
<tr>
<td>4200</td>
<td>Intraocular</td>
</tr>
<tr>
<td>4210</td>
<td>Nasal</td>
</tr>
<tr>
<td>4220</td>
<td>Nasogastric</td>
</tr>
<tr>
<td>4230</td>
<td>Oral</td>
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<tr>
<td>4240</td>
<td>Otic</td>
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<tr>
<td>4250</td>
<td>Rectal</td>
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<tr>
<td>4260</td>
<td>Sublingual</td>
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<td>4270</td>
<td>Tracheostomy</td>
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<td>4280</td>
<td>Urethral</td>
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<tr>
<td>4290</td>
<td>Wound</td>
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<td>-10</td>
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</tr>
<tr>
<td>4175</td>
<td>Endotracheal tube</td>
</tr>
<tr>
<td>4185</td>
<td>Inhalation</td>
</tr>
<tr>
<td>4191</td>
<td>Intraosseous</td>
</tr>
<tr>
<td>4205</td>
<td>Intravenous</td>
</tr>
<tr>
<td>4215</td>
<td>Nasal prongs</td>
</tr>
<tr>
<td>4225</td>
<td>Ophthalmic</td>
</tr>
<tr>
<td>4235</td>
<td>Other/miscellaneous</td>
</tr>
<tr>
<td>4245</td>
<td>Re-breather mask</td>
</tr>
<tr>
<td>4255</td>
<td>Subcutaneous</td>
</tr>
<tr>
<td>4265</td>
<td>Topical</td>
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<tr>
<td>4275</td>
<td>Transdermal</td>
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<tr>
<td>4285</td>
<td>Ventimask</td>
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</table>

**AZ-PI ERS Additional Values**

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>753000</td>
<td>Inhalation via Nebulizer</td>
</tr>
<tr>
<td>753001</td>
<td>Intravenous Pump</td>
</tr>
</tbody>
</table>

**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 Unit's EMS Care
- E18_04 Medication Dosage
- E18_07 Response to Medication
- E18_09 Medication Crew Member ID
- E18_11 Medication Authorizing Physician

**References to Other Databases**

- DEEDS

**ARIZONA REQUIRED**
**MEDICATION DOSAGE**

**Data**  
[number]

**Definition**  
The dose or amount of medication given to the patient

- **XSD Data Type**: xs:decimal  
- **XSD Domain (Simple Type)**: MedicationDosage
- **Multiple Entry Configuration**: Yes, via structure  
- **Accepts Null Values**: No
- **Required in XSD**: No  
- **Minimum Constraint**: 0  
- **Maximum Constraint**: 1,000,000

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**

**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_04** Medication Administered Route  
- **E18_07** Response to Medication  
- **E18_09** Medication Crew Member ID  
- **E18_11** Medication Authorizing Physician

- **E18_03** Medication Given  
- **E18_06** Medication Dosage Units  
- **E18_08** Medication Complication  
- **E18_10** Medication Authorization

**ARIZONA REQUIRED**
**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**

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<thead>
<tr>
<th>Value</th>
<th>Description</th>
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<tbody>
<tr>
<td>4295</td>
<td>GMS</td>
</tr>
<tr>
<td>4305</td>
<td>IU</td>
</tr>
<tr>
<td>4315</td>
<td>L/MIN</td>
</tr>
<tr>
<td>4325</td>
<td>LPM</td>
</tr>
<tr>
<td>4335</td>
<td>MCG/KG/MIN</td>
</tr>
<tr>
<td>4345</td>
<td>MG</td>
</tr>
<tr>
<td>4355</td>
<td>ML</td>
</tr>
<tr>
<td>4365</td>
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</tr>
<tr>
<td>4300</td>
<td>Inches</td>
</tr>
<tr>
<td>4310</td>
<td>KVO (TKO)</td>
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<tr>
<td>4320</td>
<td>LITERS</td>
</tr>
<tr>
<td>4330</td>
<td>MCG</td>
</tr>
<tr>
<td>4340</td>
<td>MEQ</td>
</tr>
<tr>
<td>4350</td>
<td>MG/KG/MIN</td>
</tr>
<tr>
<td>4360</td>
<td>ML/HR</td>
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<tr>
<td>4370</td>
<td>Puffs</td>
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**AZ-PIERS Additional Values**

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<tr>
<td>755000</td>
<td>gtts (Drops)</td>
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<tr>
<td>755001</td>
<td>MG/MIN</td>
</tr>
<tr>
<td>755002</td>
<td>MCG/MIN</td>
</tr>
<tr>
<td>755003</td>
<td>Units/HR</td>
</tr>
<tr>
<td>755004</td>
<td>Minutes</td>
</tr>
<tr>
<td>755007</td>
<td>Rapid Infusion</td>
</tr>
<tr>
<td>755008</td>
<td>Lock/Flush</td>
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</table>

**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_01 Date/Time Medication Administered
- E18_02 Medication Administered Prior to this Units
- E18_03 Medication Given
- E18_04 Medication Administered Route
- E18_05 Medication Dosage
- E18_06 Response to Medication
- E18_07 Medication Crew Member ID
- E18_08 Medication Complication
- E18_09 Medication Authorization
- E18_10 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`

**Accepts Null Values** | Yes

**Required in XSD** | No

**Multiple Entry Configuration** | Yes, via structure

**XSD Structure**
All data elements section E18 are members of the E18 Medication Structure

**Field Values**

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>-20</td>
<td>Not Recorded</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>4375</td>
<td>Improved</td>
</tr>
<tr>
<td>4380</td>
<td>Unchanged</td>
</tr>
<tr>
<td>4385</td>
<td>Worse</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**

<table>
<thead>
<tr>
<th>E00</th>
<th>Common Null Values</th>
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</thead>
<tbody>
<tr>
<td>E18_01</td>
<td>Date/Time Medication Administered</td>
</tr>
<tr>
<td>E18_02</td>
<td>Medication Administered Prior to this Units EMS Care</td>
</tr>
<tr>
<td>E18_03</td>
<td>Medication Given</td>
</tr>
<tr>
<td>E18_04</td>
<td>Medication Administered Route</td>
</tr>
<tr>
<td>E18_05</td>
<td>Medication Dosage</td>
</tr>
<tr>
<td>E18_06</td>
<td>Medication Dosage Units</td>
</tr>
<tr>
<td>E18_08</td>
<td>Medication Complication</td>
</tr>
<tr>
<td>E18_09</td>
<td>Medication Crew Member ID</td>
</tr>
<tr>
<td>E18_10</td>
<td>Medication Authorization</td>
</tr>
<tr>
<td>E18_11</td>
<td>Medication Authorizing Physician</td>
</tr>
</tbody>
</table>

**Arizona Required**
Section E19

Intervention/ Procedure
**DATE/ TIME PROCEDURE PERFORMED SUCCESSFULLY**

**E19_01**

**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**

<table>
<thead>
<tr>
<th>E01_01</th>
<th>Patient Care Report Number</th>
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<tbody>
<tr>
<td>E19_01</td>
<td>Procedure Performed Prior to this Units</td>
</tr>
<tr>
<td>E19_02</td>
<td>EMS Care</td>
</tr>
<tr>
<td>E19_03</td>
<td>Procedure</td>
</tr>
<tr>
<td>E19_04</td>
<td>Size of Procedure Equipment</td>
</tr>
<tr>
<td>E19_05</td>
<td>Number of Procedure Attempts</td>
</tr>
<tr>
<td>E19_06</td>
<td>Procedure Successful</td>
</tr>
<tr>
<td>E19_07</td>
<td>Procedure Complication</td>
</tr>
<tr>
<td>E19_08</td>
<td>Response to Procedure</td>
</tr>
<tr>
<td>E19_09</td>
<td>Procedure Crew Members ID</td>
</tr>
<tr>
<td>E19_10</td>
<td>Procedure Authorization</td>
</tr>
<tr>
<td>E19_11</td>
<td>Procedure Authorizing Physician</td>
</tr>
<tr>
<td>E19_12</td>
<td>Successful IV Site</td>
</tr>
<tr>
<td>E19_13</td>
<td>Tube Confirmation</td>
</tr>
<tr>
<td>E19_14</td>
<td>Destination Confirmation of Tube Placement</td>
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</table>

**References in NHTSA Version 1**

<table>
<thead>
<tr>
<th>Desirable</th>
<th>Element 58</th>
<th>Time of First CPR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Desirable</td>
<td>Element 63</td>
<td>Time of First Defibrillatory Shock</td>
</tr>
</tbody>
</table>

**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.

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

**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**

**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
-10 Not Known
-5 Not Available

**AZ-PIERS Procedure Values**

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**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**

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<td>Size of Procedure Equipment</td>
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**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), Manual = 07, Chest/Abdominal Thrust = 08, CPR = 09, Cricothyroidotomy = 10, Defibrillation by AED = 11, EKG Monitoring = 12, Extircation = 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

NOTE:
- Procedures (D04_04) (the source list for Procedures E19_03) has had the value “Contacted Receiving Hospital” (Code 154127) added to the value’s list. This is an alternative way for agencies to collect the required variable “Receiving Hospital Contacted Date/time” (IT5_71) as it would not require custom variable creation by 3rd party vendors but would allow the description of the action and the date/time to be recorded. Agencies must fill in either IT5_71 time or Procedures E19_03 with “Contacted Receiving Hospital” for all stroke and STEMI patients.

Code: 154127 Description: Contacted Receiving Hospital

- If you use ImageTrend via ADHS (not as a stand-alone ImageTrend service), this value should now be available to you.
- If you have a stand-alone ImageTrend service, or a 3rd party vendor PLEASE CONTACT THEM TO ADD THIS VALUE and ask them to map it over.
- If you have any ImageTrend (via ADHS or Stand-alone) you should already have the custom date/time variable “Receiving Hospital Contacted Date/Time” (IT5_71) and can still continue to use this variable.
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

NEMSI S 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

Data [combo] single-choice

National Element

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
-5 Not Available
1 Yes
-20 Not Recorded
-10 Not Known
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_03 Procedure
E19_05 Number of Procedure Attempts
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_04 Size of Procedure Equipment
E19_07 Procedure Complication
E19_09 Procedure Crew Members ID
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

**Definition**

The patient’s response to the procedure

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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

4600 Improved
4605 Unchanged

**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**
TUBE CONFIRMATION

Data: [combo] multiple-choice

Definition:
Endotracheal Tube placement verification at the time the airway procedure was done.

XSD Data Type: xs:integer
XSD Domain: TubeConfirmation

Multiple Entry Configuration: Yes
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
4740 Colormetric CO2 Detector Confirmation
4745 Digital CO2 Confirmation
4750 Esophageal Bulb Aspiration confirmation
4755 Negative Auscultation of the Epigastrium
4760 Visualization of the Chest Rising with ventilation
4765 Visualization of Tube Passing Through the Cords
4770 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
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
-5 Not Available
-20 Not Recorded
-10 Not Known
4775 Auscultation of Bilateral Breath Sounds
4780 Colometric CO2 Detector Confirmation
4785 Digital CO2 Confirmation
4790 Esophageal Bulb Aspiration confirmation
4795 Negative Auscultation of the Epigastrum
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

**Data**

**Arizona Element**

**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>Accepts Null Values</td>
</tr>
<tr>
<td>No</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

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:string</th>
<th>XSD Domain (Simple Type)</th>
<th>DestinationTransferredToID</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>Maximum Constraint</td>
<td>50</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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**

**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
-15 Not Reporting
-5 Not Available

**-20 Not Recorded**

**-10 Not-Known**

**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_04** Destination City
- **E20_05** Destination State
- **E20_07** Destination Zip Code

**ARIZONA REQUIRED**
DESTINATION CITY

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  -20 Not Recorded
-15 Not Reporting  -10 Not Known
-5 Not Available

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  E01_01 Patient Care Report Number
E20_01 Destination/Transferred To, Name  E20_03 Destination Street Address
E20_05 Destination State  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
-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
- E20_01 Destination/Transferred To, Name
- E20_04 Destination City

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  
-20 Not Recorded
-15 Not Reporting  
-10 Not Known
-5 Not Available

**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**
- 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 E20_07

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.

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

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 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 Accepts Null Values No

Required in XSD Yes

Field Values

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<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>
<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, Transported by EMS</td>
</tr>
<tr>
<td>4860</td>
<td>Treated, Transported by Private Vehicle</td>
</tr>
</tbody>
</table>

AZ-PIERS Additional Values

<table>
<thead>
<tr>
<th>Code</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>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>804005</td>
<td>Treated, Transported by EMS (ALS)</td>
</tr>
<tr>
<td>804006</td>
<td>Treated, Transported 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

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</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 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
-15 Not Reporting
-5 Not Available
4895 Fowlers
4905 Prone
4915 Sitting
4925 Other

4890 Car Seat
4900 Lateral
4910 Semi-Fowlers
4920 Supine

AZ-PI ERS 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

Optional
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
-15 Not Reporting
-10 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
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
4995 Diversion 4990 Closest Facility (none below)
5005 Insurance Status 5000 Family Choice
5015 On-Line Medical Direction 5010 Law Enforcement Choice
5025 Patient Choice 5020 Other
5035 Protocol 5030 Patient's Physicians Choice
5040 Specialty Resource Center

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) TypeOfDestination
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)
7270 Home
7290 Medical Office/Clinic
7320 Nursing Home
7340 Other EMS Responder (air)
7360 Police/Jail

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 E01_01 Patient Care Report Number
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 is section E21 is associated with a 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
**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
- 5105 Analysis (Button Pressed)
- 5100 CO2
- 5110 Date Transmitted
- 5115 Defibrillation
- 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
WAVEFORM GRAPHIC TYPE

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
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 E21_01 Date/Time
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) 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
E01_01 Patient Care Report Number  E21_01 Event Date/Time
E21_02 Medical Device Event Name  E21_03 Waveform Graphic Type

Optional
**AED, PACING, OR CO2 MODE**

**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)

**XSD Data Type**  xs:integer
**XSD Domain (Simple Type)**  AEDPacingOrCO2Mode

**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**
- 5210 Automated
- 5220 Advisory
- 5230 Sensing
- 5240 Side-Stream
- 5215 Manual
- 5225 Demand
- 5235 Mid-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)

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

XSD Structure: (1) Each element is section E21 is associated with a E21_01 Date/Time.

**Field Values**

- 5245 I
- 5255 III
- 5265 AVL
- 5275 V1
- 5285 V3
- 5295 V5
- 5305 Paddle

**AZ-PI ERS Additional Values**

<table>
<thead>
<tr>
<th>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**

- E01_01 Patient Care Report Number
- E21_01 Event Date/Time
- E21_02 Medical Device Event Name

Optional
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
**TYPE OF SHOCK**

**Data** [text]

**Definition**
The energy form used by the device for the defibrillation (if appropriate for the event)

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>XSD Domain (Simple Type)</th>
<th>TypeOfShock</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**

| 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**

<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
**SHOCK OR PACING ENERGY**

**Data** [number]

**Definition**
The energy used for the shock or pacing event (if appropriate for the event)

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:decimal</th>
<th>XSD Domain (Simple Type)</th>
<th>ShockOrPacingEnergy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes, via structure</td>
<td>Accepts Null Values</td>
<td>No</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>No</td>
<td>Minimum Constraint</td>
<td>1</td>
</tr>
<tr>
<td>Maximum Constraint</td>
<td>9,000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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
<table>
<thead>
<tr>
<th><strong>Definition</strong></th>
<th>The heart rate electronically obtained by the device (if appropriate for the event)</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>PulseRate</td>
</tr>
<tr>
<td><strong>Multiple Entry Configuration</strong></td>
<td>Yes, via structure</td>
</tr>
<tr>
<td><strong>Accepts Null Values</strong></td>
<td>No</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>500</td>
</tr>
</tbody>
</table>

XSD Structure: (1) Each element in 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
E01_01 Patient Care Report Number
E21_01 Event Date/Time
E21_02 Medical Device Event Name

Optional
**Data**

[number]

**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 DIASTOLIC 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

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
E01_01 Patient Care Report Number
E21_02 Medical Device Event Name
E21_01 Event Date/Time
E21_19 Device CO2, etCO2, or Invasive Pressure Monitor Units

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
5325 % Volume

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
**RESEARCH SURVEY FIELD TITLE**

Data: [text]

**Definition**
A customizable field to be used by local agencies for additional documentation or research.

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:string</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSD Domain (Simple Type)</td>
<td>ResearchTitle</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>30</td>
</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
ABDOMEN LEFT LOWER ASSESSMENT
ABDOMEN LEFT UPPER ASSESSMENT
ABDOMEN RIGHT LOWER ASSESSMENT
ABDOMEN RIGHT UPPER ASSESSMENT
AED, PACING, OR CO2 MODE
AGE
AGE UNITS
AGENCY CONTACT ZIP CODE
AIRBAG DEPLOYMENT
ALCOHOL/DRUG USE INDICATORS
ANY RETURN OF SPONTANEOUS CIRCULATION
APGAR
AREA OF THE VEHICLE IMPACTED BY THE COLLISION
ARREST WITNESSED BY
ARRIVED AT PATIENT DATE/TIME
BACK CERVICAL ASSESSMENT
BACK LUMBAR/ SACRAL ASSESSMENT
BACK THORACIC ASSESSMENT
BARRIERS TO PATIENT CARE
BILLING STATUS
BLOOD GLUCOSE LEVEL
CARDIAC ARREST
CARDIAC ARREST ETIOLOGY
CARDIAC RHYTHM
CAUSE OF INJURY
CHEST/LUNGS ASSESSMENT
COMMON NULL VALUES
COMPLAINT REPORTED BY DISPATCH
CONDITION CODE MODIFIER
CONDITION CODE NUMBER
CREW MEMBER LEVEL
CREW MEMBER ROLE
CURRENT MEDICATIONS
DATE OF BIRTH
DATE/TIME MEDICATION ADMINISTERED
DATE/TIME OF ASSESSMENT
DATE/TIME PROCEDURE PERFORMED SUCCESSFULLY
DATE/TIME RESUSCITATION DISCONTINUED
DATE/TIME VITAL SIGNS TAKEN
DBP (DIASTOLIC BLOOD PRESSURE)
DESTINATION CITY
DESTINATION CONFIRMATION OF TUBE PLACEMENT
DESTINATION COUNTY
DESTINATION FACILITY NUMBER
DESTINATION GPS LOCATION
DESTINATION STATE
DESTINATION STREET ADDRESS
DESTINATION TYPE
<table>
<thead>
<tr>
<th>Incident Address</th>
<th>99</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incident City</td>
<td>100</td>
</tr>
<tr>
<td>Incident County</td>
<td>101</td>
</tr>
<tr>
<td>Incident Location Type</td>
<td>96</td>
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<tr>
<td>Incident Number</td>
<td>40</td>
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<tr>
<td>Incident Onset Date/Time</td>
<td>57</td>
</tr>
<tr>
<td>Incident State</td>
<td>102</td>
</tr>
<tr>
<td>Incident Zip Code</td>
<td>103</td>
</tr>
<tr>
<td>Incident/Patient Disposition</td>
<td>253</td>
</tr>
<tr>
<td>Intent of the Injury</td>
<td>124</td>
</tr>
<tr>
<td>Last Name</td>
<td>72</td>
</tr>
<tr>
<td>Level of Responsiveness</td>
<td>175</td>
</tr>
<tr>
<td>Level of Service</td>
<td>8</td>
</tr>
<tr>
<td>Mechanism of Injury</td>
<td>125</td>
</tr>
<tr>
<td>Medical Device Event Name</td>
<td>126</td>
</tr>
<tr>
<td>Medical History Obtained From</td>
<td>152</td>
</tr>
<tr>
<td>Medical/Surgical History</td>
<td>151</td>
</tr>
<tr>
<td>Medical Condition Number Administered Prior to This Unit's EMS Care</td>
<td>223</td>
</tr>
<tr>
<td>Medical Condition Number Administered Route</td>
<td>227</td>
</tr>
<tr>
<td>Medical Condition Number Allergies</td>
<td>149</td>
</tr>
<tr>
<td>Medical Condition Number Dosage</td>
<td>228</td>
</tr>
<tr>
<td>Medical Condition Number Dosage Units</td>
<td>229</td>
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<tr>
<td>Medical Condition Number Given</td>
<td>224</td>
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<tr>
<td>Medical Condition Number Given</td>
<td>20</td>
</tr>
<tr>
<td>Mental Status Assessment</td>
<td>217</td>
</tr>
<tr>
<td>Motor Vehicle Type</td>
<td>133</td>
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<tr>
<td>National Provider Identifier</td>
<td>13</td>
</tr>
<tr>
<td>Neck Assessment</td>
<td>200</td>
</tr>
<tr>
<td>Neurological Assessment</td>
<td>218</td>
</tr>
<tr>
<td>Nhtsa Injury Matrix Abdomen</td>
<td>189</td>
</tr>
<tr>
<td>Nhtsa Injury Matrix External/Skin</td>
<td>184</td>
</tr>
<tr>
<td>Nhtsa Injury Matrix Face</td>
<td>186</td>
</tr>
<tr>
<td>Nhtsa Injury Matrix Head</td>
<td>185</td>
</tr>
<tr>
<td>Nhtsa Injury Matrix Lower Extremities</td>
<td>193</td>
</tr>
<tr>
<td>Nhtsa Injury Matrix Neck</td>
<td>187</td>
</tr>
<tr>
<td>Nhtsa Injury Matrix Pelvis</td>
<td>192</td>
</tr>
<tr>
<td>Nhtsa Injury Matrix Spine</td>
<td>190</td>
</tr>
<tr>
<td>Nhtsa Injury Matrix Thorax</td>
<td>188</td>
</tr>
<tr>
<td>Nhtsa Injury Matrix Unspecified</td>
<td>194</td>
</tr>
<tr>
<td>Nhtsa Injury Matrix Upper Extremities</td>
<td>191</td>
</tr>
<tr>
<td>Number of Procedure Attempts</td>
<td>238</td>
</tr>
<tr>
<td>Obtained Prior To This Unit's EMS Care</td>
<td>159</td>
</tr>
<tr>
<td>Organization Status</td>
<td>10</td>
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<td>Organizational Type</td>
<td>9</td>
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<tr>
<td>Other Associated Symptoms</td>
<td>114</td>
</tr>
<tr>
<td>Other Destinations</td>
<td>28</td>
</tr>
<tr>
<td>Pacing Rate</td>
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<tr>
<td>Pain Scale</td>
<td>176</td>
</tr>
<tr>
<td>Patient Arrived At Destination Date/Time</td>
<td>67</td>
</tr>
</tbody>
</table>