

# MASSACHUSETTS AMBULANCE TRIP RECORD INFORMATION SYSTEM (MATRIS)

Effective March 19, 2009  
**MATRIS Version 1.4**

*(Supersedes Version 1.3, Effective May 1, 2008 and Version 1.2, Effective September 1, 2006)*

The Massachusetts Ambulance Trip Record Information System (**MATRIS**) is based on the National Highway Traffic Safety Administration's (NHTSA) EMS Dataset Version 2.2.1. The NHTSA Dataset was created through a consensus based national data conference of professional organizations and federal partners which included the National Association of State EMS Directors and the Trauma/EMS Systems program of the Health Resources and Services Administration's (HRSA) Maternal Child Health Bureau and is known as **NEMESIS**, the National EMS Information System.

The goal of **NEMESIS** is to provide a standard for the collection of local, state, and federal data with consistent definitions and formatting suitable to evaluate the responsiveness and effectiveness of emergency medical services. High quality data will assist EMS agencies to identify service areas that need further improvement and promote decision making, protocol refinement, and resource allocation based on solid evidence.

In attached the Massachusetts Ambulance Trip Record Information System (**MATRIS**), those data elements to be collected as part of a National EMS Database are labeled *National Element* in the upper right hand corner. The additional data elements proposed for **MATRIS** are not labeled *National Element*. The dataset includes three separate components. A Demographic Dataset provides a standardized set of definitions describing an EMS System. An EMS Dataset provides a standardized set of definitions describing an EMS event, and an XML format and definition created to promote the movement of the **NEMESIS** Version 2.2.1 uniform data elements between data systems. Please see [www.nemesis.org](http://www.nemesis.org) for more information. *(Note: MATRIS Version 1.4 with the addition of two data elements: Crew Member ID (E04\_01) and Crew Member Level (E04\_03) supersedes Version 1.3 which superseded Version 1.2 with the addition of two data elements: Tube Confirmation (E19\_13) and Destination Confirmation of Tube Placement (E19\_14).)*

Information provided in this document includes the following:

- \* Name of the Data Element
- \* Definition of the Data Element
- \* Data Type of the Data Element
- \* How to deal with missing or incomplete information
- \* The Variables associated with each Data Element
- \* What Data Elements are associated with the Data Element
- \* Whether the Data Element is part of the medical record information (Trip Report) or is a quality management Data Element to be used internally by the EMS system and protected by Peer Review.
- \* What Reports are possible through the use of the Data Element
- \* Who is responsible for collecting the Data Element
- \* How the Data Element is related to other National Data Tools such as NHTSA Version 1, NFIRS, and Utstein

# MATRIS Version 1.4

## Table of Contents

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### Demographic Dataset

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D01	Agency General Information	1
D04	Agency Configuration Information	17

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### EMS Dataset

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E01	Record Information	23
E02	Unit/ Agency Information	28
E03	Unit/ Call Information	39
E04	Unit/Personnel Information	42
E05	Times	45
E06	Patient	56
E07	Billing	67
E08	Scene	72
E09	Situation	81
E10	Situation/ Trauma	95
E11	Situation/ CPR	104
E12	Medical History	113
E14	Assessment/ Vital Signs	117
E18	Intervention/ Medication	136
E19	Intervention/ Procedure	139
E20	Disposition	146
E21	Medical Device Data	158
E22	Outcome and Linkage	164
E23	Miscellaneous	167

# *Agency General Information*

# EMS AGENCY NUMBER

D01\_01

Data Format [text]

*National Element*

## Definition

The state-assigned provider number of the responding agency

XSD Data Type *xs:string*

XSD Domain (Simple Type) *EMSAgencyNumber*

Multiple Entry Configuration No

Accepts Null No

Required in XSD Yes

Minimum Constraint 3

Maximum Constraint 15

## 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

**Data Format** [combo] multiple-choice

*National Element*

## Definition

The state in which the Agency provides services

**XSD Data Type** *xs:string*

**XSD Domain (Simple Type)** *AgencyState*

**Multiple Entry Configuration** Yes

**Accepts Null** No

**Required in XSD** Yes

**Minimum Constraint** 2

**Maximum Constraint** 2

## Field Values

- Appropriate 2 digit FIPS code

## Additional Information

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

## Uses

- Agency number (E02\_01), agency state (D01\_03), unit call sign (E02\_12), patient number (E01\_01) and date (E05\_04) combine to create a unique identifier

## Data Collector

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

## Other Associated Elements

**D01\_01** EMS Agency Number

## References to Other Databases

- NFIRS 5.0 EMS Module, Title: State

**Data Format** [combo] multiple-choice

*National Element*

## Definition

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

**XSD Data Type** *xs:string*

**XSD Domain (Simple Type)** *AgencyCounty*

**Multiple Entry Configuration** Yes

**Accepts Null** No

**Required in XSD** Yes

**Minimum Constraint** 5

**Maximum Constraint** 5

## 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

# LEVEL OF SERVICE

D01\_07

Data Format [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**      No  
**Required in XSD** Yes      **Minimum Constraint** 2      **Maximum Constraint** 30

## 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

# ORGANIZATIONAL TYPE

D01\_08

**Data Format** [combo] single-choice

*National Element*

## 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** 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

# ORGANIZATION STATUS

D01\_09

**Data Format** [combo] single-choice

*National Element*

## 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** 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

Data Format [date/time]

*National Element*

## Definition

The year to which the information pertains

**XSD Data Type** *xs:gYear*

**XSD Domain (Simple Type)** *StatisticalYear*

**Multiple Entry Configuration** Yes, via structure

**Accepts Null** No

**Required in XSD** Yes

**Minimum Constraint** 1,990

**Maximum Constraint** 2,030

XSD Structure: D01\_10, D01\_12, D01\_13, D01\_14, D01\_15, D01\_16, D01\_17, and D01\_18 are all members of D1\_10\_0 Statistical Year Structure

## Field Values

A unique value; no variable list is possible.

## Additional Information

- Format [YYYY]
- Multiple entry configuration to allow statistical data to be entered yearly
- Used to identify the year to which the data pertains

## Uses

- Associates a year with statistical data to improve reporting capabilities

## 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

**D01\_12** Total Service Size Area

**D01\_13** Total Service Area Population

**D01\_14** 911 Call Volume per Year

**D01\_15** EMS Dispatch Volume per Year

**D01\_16** EMS Transport Volume per Year

**D01\_17** EMS Patient Contact Volume per Year

**D01\_18** EMS Billable Calls per Year

**E02\_01** EMS Agency Number

# TOTAL SERVICE SIZE AREA

D01\_12

Data Format [number]

*National Element*

## Definition

The total square miles in the agency's service area

**XSD Data Type** *xs:positiveInteger*      **XSD Domain (Simple Type)** *TotalServiceSizeArea*

**Multiple Entry Configuration** Yes, via structure      **Accepts Null** Yes, but null value is blank or empty

**Required in XSD** Yes      **Minimum Constraint** 1      **Maximum Constraint** 100,000,000

XSD Structure: D01\_10, D01\_12, D01\_13, D01\_14, D01\_15, D01\_16, D01\_17, and D01\_18 are all members of D1\_10\_0 Statistical Year Structure

## Field Values

A unique value; no variable list is possible.

## Additional Information

- Multiple entry configuration to allow statistical data to be entered yearly

## Uses

- Allows data to be sorted based on an agency's service area size
- 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

<b>D01_01</b>	EMS Agency Number	<b>D01_10</b>	Statistical Year
<b>D01_13</b>	Total Service Area Population	<b>D01_14</b>	911 Call Volume per Year
<b>D01_15</b>	EMS Dispatch Volume per Year	<b>D01_16</b>	EMS Transport Volume per Year
<b>D01_17</b>	EMS Patient Contact Volume per Year	<b>D01_18</b>	EMS Billable Calls per Year

# TOTAL SERVICE AREA POPULATION

D01\_13

Data Format [number]

*National Element*

## Definition

The total population in the agency's service area based on year 2000 census data (if possible). This number does not include population changes associated with daily work flow or seasonal movements

**XSD Data Type** *xs:positiveInteger*      **XSD Domain (Simple Type)** *TotalServiceAreaPopulation*  
**Multiple Entry Configuration**    Yes, via structure      **Accepts Null**      Yes, but null value is blank or empty  
**Required in XSD** **Yes**      **Minimum Constraint** **1**      **Maximum Constraint** **100,000,000**  
XSD Structure: D01\_10, D01\_12, D01\_13, D01\_14, D01\_15, D01\_16, D01\_17, and D01\_18 are all members of D1\_10\_0 Statistical Year Structure

## Field Values

A unique value; no variable list is possible.

## Additional Information

- Baseline data should be taken from the 2000 Census data if possible
- Multiple entry configuration to allow statistical data to be entered yearly

## Uses

- Allows data to be sorted based on an agency's service area population
- 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

<b>D01_01</b> EMS Agency Number	<b>D01_10</b> Statistical Year
<b>D01_12</b> Total Service Size Area	<b>D01_14</b> 911 Call Volume per Year
<b>D01_15</b> EMS Dispatch Volume per Year	<b>D01_16</b> EMS Transport Volume per Year
<b>D01_17</b> EMS Patient Contact Volume per Year	<b>D01_18</b> EMS Billable Calls per Year

# 911 CALL VOLUME PER YEAR

D01\_14

Data Format [number]

*National Element*

## Definition

The number of 911 EMS calls for the calendar year

**XSD Data Type** *xs:positiveInteger*      **XSD Domain (Simple Type)** *CallVolumeYear911*

**Multiple Entry Configuration** Yes, via structure      **Accepts Null** Yes, but null value is blank or empty

**Required in XSD** Yes      **Minimum Constraint** 1      **Maximum Constraint** 100,000,000

XSD Structure: D01\_10, D01\_12, D01\_13, D01\_14, D01\_15, D01\_16, D01\_17, and D01\_18 are all members of D1\_10\_0 Statistical Year Structure

## Field Values

A unique value; no variable list is possible.

## Additional Information

- Multiple entry configuration to allow statistical data to be entered yearly

## Uses

- Allows data to be sorted based on an agency's 911 call volume per year
- 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

<b>D01_01</b> EMS Agency Number	<b>D01_10</b> Statistical Year
<b>D01_12</b> Total Service Size Area	<b>D01_13</b> Total Service Area Population
<b>D01_15</b> EMS Dispatch Volume per Year	<b>D01_16</b> EMS Transport Volume per Year
<b>D01_17</b> EMS Patient Contact Volume per Year	<b>D01_18</b> EMS Billable Calls per Year

# EMS DISPATCH VOLUME PER YEAR

D01\_15

Data Format [number]

*National Element*

## Definition

The number of EMS dispatches for the calendar year

**XSD Data Type** *xs:positiveInteger*      **XSD Domain (Simple Type)** *EMSDispatchVolumeYear*

**Multiple Entry Configuration** Yes, via structure      **Accepts Null** Yes, but null value is blank or empty

**Required in XSD** Yes      **Minimum Constraint** 1      **Maximum Constraint** 100,000,000

XSD Structure: D01\_10, D01\_12, D01\_13, D01\_14, D01\_15, D01\_16, D01\_17, and D01\_18 are all members of D1\_10\_0 Statistical Year Structure

## Field Values

A unique value; no variable list is possible.

## Additional Information

- Multiple entry configuration to allow statistical data to be entered yearly

## Uses

- Allows data to be sorted based on an agency's Dispatch volume per year
- 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

<b>D01_01</b> EMS Agency Number	<b>D01_10</b> Statistical Year
<b>D01_12</b> Total Service Size Area	<b>D01_13</b> Total Service Area Population
<b>D01_14</b> 911 Call Volume per Year	<b>D01_16</b> EMS Transport Volume per Year
<b>D01_17</b> EMS Patient Contact Volume per Year	<b>D01_18</b> EMS Billable Calls per Year

# EMS TRANSPORT VOLUME PER YEAR

D01\_16

Data Format [number]

*National Element*

## Definition

The number of EMS transports for the calendar year

**XSD Data Type** *xs:positiveInteger*      **XSD Domain (Simple Type)** *EMSTransportVolumeYear*

**Multiple Entry Configuration** Yes, via structure      **Accepts Null** Yes, but null value is blank or empty

**Required in XSD** Yes      **Minimum Constraint** 1      **Maximum Constraint** 100,000,000

XSD Structure: D01\_10, D01\_12, D01\_13, D01\_14, D01\_15, D01\_16, D01\_17, and D01\_18 are all members of D1\_10\_0 Statistical Year Structure

## Field Values

A unique value; no variable list is possible.

## Additional Information

- Multiple entry configuration to allow statistical data to be entered yearly

## Uses

- Allows data to be sorted based on an agency's Transport volume per year
- 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

<b>D01_01</b> EMS Agency Number	<b>D01_10</b> Statistical Year
<b>D01_12</b> Total Service Size Area	<b>D01_13</b> Total Service Area Population
<b>D01_14</b> 911 Call Volume per Year	<b>D01_15</b> EMS Dispatch Volume per Year
<b>D01_17</b> EMS Patient Contact Volume per Year	<b>D01_18</b> EMS Billable Calls per Year

# EMS PATIENT CONTACT VOLUME PER YEAR

D01\_17

**Data Format** [number]

*National Element*

## Definition

The number of EMS patient contacts for that calendar year

**XSD Data Type** *xs:positiveInteger*

**XSD Domain (Simple Type)** *EMSPatientContactVolumeYear*

**Multiple Entry Configuration** Yes, via structure

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

**Required in XSD** Yes

**Minimum Constraint** 1

**Maximum Constraint** 100,000,000

XSD Structure: D01\_10, D01\_12, D01\_13, D01\_14, D01\_15, D01\_16, D01\_17, and D01\_18 are all members of D1\_10\_0 Statistical Year Structure

## Field Values

A unique value; no variable list is possible.

## Additional Information

- Multiple entry configuration to allow statistical data to be entered yearly

## Uses

- Allows data to be sorted based on an agency's Patient Contact volume per year
- 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

**D01\_10** Statistical Year

**D01\_12** Total Service Size Area

**D01\_13** Total Service Area Population

**D01\_14** 911 Call Volume per Year

**D01\_15** EMS Dispatch Volume per Year

**D01\_16** EMS Transport Volume per Year

**D01\_18** EMS Billable Calls per Year

Data Format [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** No

**Required in XSD** Yes

## Field Values

**5900** GMT-11:00 Midway Island, Samoa

**5910** GMT-10:00 Hawaii

**5920** GMT-09:00 Alaska

**5930** GMT-08:00 Pacific Time

**5940** GMT-07:00 Mountain Time

**5950** GMT-06:00 Central Time

**5960** GMT-05:00 Eastern Time

**5970** GMT-04:00 Atlantic Time

## Uses

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

## Data Collector

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

## Other Associated Elements

**D01\_01** EMS Agency Number

Data Format [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** Yes

**Required in XSD** Yes

**Minimum Constraint** 3

**Maximum Constraint** 10

## Field Values

-25 Not Applicable

-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

# *Agency Configuration Information*

**Data Format** [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** 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

- |  |  |
|--|--|
| <b>89.820</b> 12 Lead ECG                            | <b>93.930</b> Airway-Bagged                                    |
| <b>93.931</b> Airway-BVM                             | <b>97.230</b> Airway-Change Tracheostomy Tube                  |
| <b>98.130</b> Airway-Cleared                         | <b>96.051</b> Airway-Combitube                                 |
| <b>93.900</b> Airway-CPAP                            | <b>96.030</b> Airway-EOA/EGTA                                  |
| <b>96.991</b> Airway-Intubation Confirm CO2          | <b>96.992</b> Airway-Intubation Confirm Esophageal Bulb        |
| <b>96.052</b> Airway-Laryngeal Mask                  | <b>96.010</b> Airway-Nasal                                     |
| <b>96.041</b> Airway-Nasotracheal Intubation         | <b>93.940</b> Airway-Nebulizer Treatment                       |
| <b>31.110</b> Airway-Needle Cricothyrotomy           | <b>96.020</b> Airway-Oral                                      |
| <b>96.040</b> Airway-Orotracheal Intubation          | <b>96.790</b> Airway-PEEP                                      |
| <b>96.042</b> Airway-Rapid Sequence Induction        | <b>93.910</b> Airway-Respirator Operation (BLS)                |
| <b>98.150</b> Airway-Suctioning                      | <b>31.120</b> Airway-Surgical Cricothyrotomy                   |
| <b>96.700</b> Airway-Ventilator Operation            | <b>96.701</b> Airway-Ventilator with PEEP                      |
| <b>38.910</b> Arterial Access-Blood Draw             | <b>89.610</b> Arterial Line Maintenance                        |
| <b>89.700</b> Assessment-Adult                       | <b>89.701</b> Assessment-Pediatric                             |
| <b>38.995</b> Blood Glucose Analysis                 | <b>89.391</b> Capnography                                      |
| <b>89.510</b> Cardiac Monitor                        | <b>99.624</b> Cardiac Pacing-External                          |
| <b>99.626</b> Cardiac Pacing-Transvenous             | <b>99.623</b> Cardioversion                                    |
| <b>99.640</b> Carotid Massage                        | <b>34.041</b> Chest Decompression                              |
| <b>34.042</b> Chest Tube Placement                   | <b>73.590</b> Childbirth                                       |
| <b>1.181</b> CNS Catheter-Epidural Maintenance       | <b>1.182</b> CNS Catheter-Intraventricular Maintenance         |
| <b>99.600</b> CPR                                    | <b>99.601</b> CPR by External Automated Device                 |
| <b>86.280</b> Decontamination                        | <b>99.621</b> Defibrillation-Automated (AED)                   |
| <b>99.622</b> Defibrillation-Manual                  | <b>99.625</b> Defibrillation-Placement for Monitoring/Analysis |
| <b>100.200</b> Extrication                           | <b>99.290</b> Injections-SQ/IM                                 |
| <b>37.611</b> Intra-Aortic Balloon Pump              | <b>93.580</b> MAST   |
| <b>96.070</b> Nasogastric Tube Insertion             | <b>89.590</b> Orthostatic Blood Pressure Measurement           |
| <b>89.702</b> Pain Measurement                       | <b>89.392</b> Pulse Oximetry                                   |
| <b>100.100</b> Rescue                                | <b>99.841</b> Restraints-Pharmacological                       |
| <b>99.842</b> Restraints-Physical                    | <b>93.591</b> Spinal Immobilization                            |
| <b>93.540</b> Splinting-Basic                        | <b>93.450</b> Splinting-Traction                               |
| <b>89.703</b> Temperature Measurement                | <b>89.704</b> Thrombolytic Screen                              |
| <b>57.940</b> Urinary Catheterization                | <b>38.990</b> Venous Access-Blood Draw                         |
| <b>89.620</b> Venous Access-Central Line Maintenance | <b>39.997</b> Venous Access-Discontinue                        |
| <b>38.991</b> Venous Access-Existing Catheter        | <b>38.993</b> Venous Access-External Jugular Line              |
| <b>38.992</b> Venous Access-Extremity                | <b>38.994</b> Venous Access-Femoral Line                       |
| <b>39.995</b> Venous Access-Internal Jugular Line    | <b>41.920</b> Venous Access-Intraosseous Adult                 |

**41.921** Venous Access-Intraosseous Pediatric  
**89.640** Venous Access-Swan Ganz Maintenance

**39.996** Venous Access-Subclavian Line  
**93.057** Wound Care

### Additional Information

- A multiple-entry configuration with Personnel Level Permitted to use the Procedure (D04\_05)
- If local systems have procedures which are not listed in the current values, additional procedures may be added using CPT codes from the ICD-9 standard. The CPT code should be stored and passed via the XML. This will allow expansion of the list to formally add new procedures over time
- Used to create a list box for Procedure (E19\_03)

### Uses

- Allows data to be sorted based on an agency's Procedure capabilities
- Provides descriptive information when combined with an EMS Agency's Billing Status
- Used to create a list box for Response to Procedure (E19\_08)

### Data Collector

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

### Other Associated Elements

**D01\_01** EMS Agency Number

**D04\_05** Personnel Level Permitted to Use the Procedure

### References in NHTSA Version 1

Desirable Element 58 Time of First CPR  
Desirable Element 63 Time of First Defibrillatory Shock  
Essential Element 78 Procedure or Treatment Name

### References to Other Databases

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

# MEDICATIONS GIVEN

D04\_06

**Data Format** [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**                      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; no variable list is possible.

## Additional Information

- At this time a national drug index or coding scheme, which would allow for a single code to be assigned to a single drug, does not exist
- The Drug List may contain any generic or trade name of a drug approved by the FDA and administered by EMS. The medication is stored and passed via XML in a text format
- Used to create a list box for Medication Given (E18\_03) and Prior Aid (E09\_01)

## Uses

- Allows data to be sorted based on an agency's Medication capabilities
- Could be used to create a list box for Medication Given (E18\_03) and Prior Aid (E09\_01)
- Provides descriptive information when combined with an EMS Agency's Billing Status

## Data Collector

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

## Other Associated Elements

**D01\_01** EMS Agency Number    **D04\_07** Personnel Level Permitted to Use the Medication

## References in NHTSA Version 1

Essential Element 80 Medication Name

## References to Other Databases

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

# DESTINATION FACILITY NUMBER

D04\_14

Data Format [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**                      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  
-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

<b>D01_01</b> EMS Agency Number	<b>D04_13</b> Other Destinations
<b>D04_15</b> Destination Type	<b>E00</b> Common Null Values

# DESTINATION TYPE

D04\_15

**Data Format** [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**                      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	7280 Hospital
7290 Medical Office/Clinic	7300 Morgue
7320 Nursing Home	7330 Other
7340 Other EMS Responder (air)	7350 Other EMS Responder (ground)
7360 Police/Jail	

## 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

# *Record Information*

# PATIENT CARE REPORT NUMBER

E01\_01

Data Format [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** 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

Data Format [text]

*National Element*

## 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** 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

# SOFTWARE NAME

E01\_03

Data Format [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** 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

# SOFTWARE VERSION

E01\_04

Data Format [text]

*National Element*

## Definition

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

XSD Data Type *xs:string*

XSD Domain (Simple Type) *SoftwareVersion*

Multiple Entry Configuration No

Accepts Null 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

# *Unit/ Agency Information*

# EMS AGENCY NUMBER

E02\_01

Data Format [text]

*National Element*

## Definition

The state-assigned provider number of the responding agency

**XSD Data Type** *xs:string*

**XSD Domain (Simple Type)** *EMSAgencyNumber*

**Multiple Entry Configuration** No

**Accepts Null** No

**Required in XSD** Yes

**Minimum Constraint** 3

**Maximum Constraint** 15

## Field Values

A unique value; no variable list is possible.

## Additional Information

- Not Nullable. A unique value must be provided to create a unique record ID within a database
- Same as EMS Agency Number (D01\_01)

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Agency number (E02\_01), agency state (D01\_03), unit call sign (E02\_12), patient number (E01\_01) and date (E05\_04) combine to create a unique identifier
- Allows data to be sorted by the EMS Agency
- Important for grouping and comparing EMS Agencies in Benchmarking and Quality Management
- When linked to D01\_02 provides the Agency name on the EMS Medical Record: Patient Care Report

## Data Collector

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

## Other Associated Elements

E01\_01 Patient Care Report Number

## References to Other Databases

- NFIRS 5.0 EMS Module; Title: FDID; State assigned Fire Department ID number

# TYPE OF SERVICE REQUESTED

E02\_04

**Data Format** [combo] single-choice

*National Element*

## Definition

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

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

**XSD Domain (Simple Type)** *TypeOfServiceRequested*

**Multiple Entry Configuration** No

**Accepts Null** No

**Required in XSD** Yes

## Field Values

**30** 911 Response (Scene)

**35** Intercept

**40** Interfacility Transfer

**45** Medical Transport

**50** Mutual Aid

**55** Standby

## 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

# PRIMARY ROLE OF THE UNIT

E02\_05

**Data Format** [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)** *PrimaryRollOfTheUnit*

**Multiple Entry Configuration** No

**Accepts Null** No

**Required in XSD** Yes

## Field Values

60 Non-Transport

65 Rescue

70 Supervisor

75 Transport

## 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

# TYPE OF DISPATCH DELAY

E02\_06

**Data Format** [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** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-10 Not Known

80 Caller (Uncooperative)

90 Language Barrier

100 No Units Available

110 Other

120 Technical Failure (Computer, Phone etc.)

-15 Not Reporting

-5 Not Available

85 High Call Volume

95 Location (Inability to Obtain)

105 None

115 Scene Safety (Not Secure for EMS)

## 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

# TYPE OF RESPONSE DELAY

E02\_07

**Data Format** [combo] multiple-choice

*National Element*

## Definition

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

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

**XSD Domain (Simple Type)** *TypeOfResponseDelay*

**Multiple Entry Configuration** Yes

**Accepts Null** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-10 Not Known

125 Crowd

135 Distance

145 HazMat

155 Other

165 Staff Delay

175 Vehicle Crash

185 Weather

-15 Not Reporting

-5 Not Available

130 Directions

140 Diversion

150 None

160 Safety

170 Traffic

180 Vehicle Failure

## Uses

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

## Data Collector

- EMS personnel

## Other Associated Elements

**E00** Common Null Values

**E01\_01** Patient Care Report Number

## References in NHTSA Version 1

Desirable Element 56 Factors Affecting EMS Delivery of Care

# TYPE OF SCENE DELAY

E02\_08

**Data Format** [combo] multiple-choice

*National Element*

## 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** Yes

**Required in XSD** Yes

## Field Values

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

## Uses

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

## Data Collector

- EMS personnel

## Other Associated Elements

**E00** Common Null Values

**E01\_01** Patient Care Report Number

## References in NHTSA Version 1

Desirable Element 56 Factors Affecting EMS Delivery of Care

# TYPE OF TRANSPORT DELAY

E02\_09

**Data Format** [combo] multiple-choice

*National Element*

## 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** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-10 Not Known

265 Crowd

275 Distance

285 HazMat

295 Other

305 Staff Delay

315 Vehicle Crash

325 Weather

-15 Not Reporting

-5 Not Available

270 Directions

280 Diversion

290 None

300 Safety

310 Traffic

320 Vehicle Failure

## 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

# TYPE OF TURN-AROUND DELAY

E02\_10

**Data Format** [combo] multiple-choice

*National Element*

## 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** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-10 Not Known

330 Clean-up

340 Documentation

350 Equipment Failure

360 None

370 Staff Delay

-15 Not Reporting

-5 Not Available

335 Decontamination

345 ED Overcrowding

355 Equipment Replenishment

365 Other

375 Vehicle Failure

## Uses

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

## Data Collector

- EMS personnel

## Other Associated Elements

**E00** Common Null Values

**E01\_01** Patient Care Report Number

# EMS UNIT CALL SIGN (RADIO NUMBER)

E02\_12

**Data Format** [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** No

**Required in XSD** Yes

**Minimum Constraint** 2

**Maximum Constraint** 15

## Field Values

- Relevant Value for Data Element & Patient Care

## 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

# RESPONSE MODE TO SCENE

E02\_20

Data Format [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 No

Required in XSD Yes

## Field Values

380 Initial Lights and Sirens, Downgraded to No Lights or Sirens

385 Initial No Lights or Sirens, Upgraded to Lights and Sirens

390 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

# *Unit/ Call Information*

# COMPLAINT REPORTED BY DISPATCH

E03\_01

**Data Format** [combo] single-choice

*National Element*

## 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** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-10 Not Known

400 Abdominal Pain

410 Animal Bite

420 Back Pain

430 Burns

440 Cardiac Arrest

450 Choking

460 Diabetic Problem

470 Electrocutation

480 Fall Victim

490 Heart Problems

500 Hemorrhage/Laceration

510 Ingestion/Poisoning

520 Psychiatric Problem

530 Stab/Gunshot Wound

540 Traffic Accident

550 Unconscious/Fainting

560 Transfer/Interfacility/Palliative Care

-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)

## 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 Type

# EMD PERFORMED

E03\_02

**Data Format** [combo] single-choice

*National Element*

## Definition

Indication of whether EMD was performed for this EMS event.

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

**XSD Domain (Simple Type)** *EMDPerformed*

**Multiple Entry Configuration** No

**Accepts Null** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-15 Not Reporting

-10 Not Known

-5 Not Available

0 No

570 Yes, With Pre-Arrival Instructions

575 Yes, Without Pre-Arrival Instructions

## Uses

- 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

# *Unit/Personnel Information*

# CREW MEMBER ID

E04\_01

Data [text]

## Definition

The State Certification/Licensure ID number assigned to the crew member

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

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

## Additional Information

- A multiple entry configuration to allow all crew members to be entered
- Linked to State/Licensure ID Number (D07\_02)
- List box created from the State/ Licensure ID Number (D07\_02) which could display the Personnel's Names as associated with D08\_01, D08\_02, and D08\_03 for easy data entry

## 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      **E01\_01**    Patient Care Report Number  
**E04\_02**    Crew Member Role      **E04\_03**    Crew Member Level

## References in NHTSA Version 1

Essential    Element 26      Crew Member One Number  
Essential    Element 27      Crew Member Two Number  
Desirable    Element 28      Crew Member Three Number

**Data** [combo] single-choice

## Definition

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

**XSD Data Type** *xs:string/integer*      **XSD Domain (Simple Type)** *CrewMemberLevel*  
**Multiple Entry Configuration** Yes, via structure      **Accepts Null Values** Yes

**Required in XSD** No

XSD Structure: E04\_01, E04\_02, E04\_03 are all members of the E04 Unit Personnel Information structure

## Field Values

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

<b>E00</b> Common Null Values	<b>E01_01</b> Patient Care Report Number
<b>E04_01</b> Crew Member ID	<b>E04_02</b> Crew Member Role

## References in NHTSA Version 1

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

## References to Other Databases

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

# *Times*

# PSAP CALL DATE/TIME

E05\_02

**Data Format** [date/time]

*National Element*

## Definition

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

**XSD Data Type** *xs:dateTime*

**XSD Domain (Simple Type)** *DateTime*

**Multiple Entry Configuration** No

**Accepts Null**

Yes, but null value is blank or empty

**Required in XSD** Yes

**Minimum Constraint** 1,990

**Maximum Constraint** 2,030

## Field Values

- Relevant Value for Data Element & Patient Care

## 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

# UNIT NOTIFIED BY DISPATCH DATE/TIME

E05\_04

**Data Format** [date/time]

*National Element*

## Definition

The date the responding unit was notified by dispatch

**XSD Data Type** *xs:dateTime*

**XSD Domain (Simple Type)** *DateTime*

**Multiple Entry Configuration** No

**Accepts Null** No

**Required in XSD** Yes

**Minimum Constraint** 1,990

**Maximum Constraint** 2,030

## Field Values

- Relevant Value for Data Element & Patient Care

## 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

# UNIT EN ROUTE DATE/TIME

E05\_05

**Data Format** [date/time]

*National Element*

## 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**

Yes, but null value is blank or empty

**Required in XSD** Yes

**Minimum Constraint** 1,990

**Maximum Constraint** 2,030

## Field Values

- Relevant Value for Data Element & Patient Care

## 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

# UNIT ARRIVED ON SCENE DATE/TIME

E05\_06

**Data Format** [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**

Yes, but null value is blank or empty

**Required in XSD** Yes

**Minimum Constraint** 1,990

**Maximum Constraint** 2,030

## Field Values

- Relevant Value for Data Element & Patient Care

## 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

# ARRIVED AT PATIENT DATE/TIME

E05\_07

**Data Format** [date/time]

*National Element*

## Definition

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

**XSD Data Type** *xs:dateTime*

**XSD Domain (Simple Type)** *DateTime*

**Multiple Entry Configuration** No

**Accepts Null**

Yes, but null value is blank or empty

**Required in XSD** Yes

**Minimum Constraint** 1,990

**Maximum Constraint** 2,030

## Field Values

- Relevant Value for Data Element & Patient Care

## 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.

# TRANSFER OF PATIENT CARE DATE/TIME

E05\_08

**Data Format** [date/time]

## Definition

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

**XSD Data Type** *xs:dateTime*

**XSD Domain (Simple Type)** *DateTime*

**Multiple Entry Configuration** No

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

**Required in XSD** No

**Minimum Constraint** 1,990

**Maximum Constraint** 2,030

## Field Values

- Relevant Value for Data Element & Patient Care

## 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 patient to another EMS agency.

# UNIT LEFT SCENE DATE/TIME

E05\_09

**Data Format** [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**

Yes, but null value is blank or empty

**Required in XSD** Yes

**Minimum Constraint** 1,990

**Maximum Constraint** 2,030

## Field Values

- Relevant Value for Data Element & Patient Care

## 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

# PATIENT ARRIVED AT DESTINATION DATE/TIME

E05\_10

**Data Format** [date/time]

*National Element*

## Definition

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

**XSD Data Type** *xs:dateTime*

**XSD Domain (Simple Type)** *DateTime*

**Multiple Entry Configuration** No

**Accepts Null**

Yes, but null value is blank or empty

**Required in XSD** Yes

**Minimum Constraint** 1,990

**Maximum Constraint** 2,030

## Field Values

- Relevant Value for Data Element & Patient Care

## 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

# UNIT BACK IN SERVICE DATE/TIME

E05\_11

**Data Format** [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** No

**Required in XSD** Yes

**Minimum Constraint** 1,990 **Maximum Constraint** 2,030

## Field Values

- Relevant Value for Data Element & Patient Care

## 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

# UNIT BACK AT HOME LOCATION DATE/TIME

E05\_13

**Data Format** [date/time]

*National Element*

## Definition

The date/time the responding unit was back in their service area. In agencies who utilized Agency Status Management, home location means the service area as assigned through the agency status management protocol.

**XSD Data Type** *xs:dateTime*

**XSD Domain (Simple Type)** *DateTime*

**Multiple Entry Configuration** No

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

**Required in XSD** Yes

**Minimum Constraint** 1,990

**Maximum Constraint** 2,030

## Field Values

- Relevant Value for Data Element & Patient Care

## 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 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

# ***Patient***

# PATIENT'S HOME ADDRESS

E06\_04

Data Format [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 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

-10 Not Known

-5 Not Available

- Relevant Value for Data Element & Patient Care

## 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

# PATIENT'S HOME CITY

E06\_05

**Data Format** [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** 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

-10 Not Known

-5 Not Available

- Relevant Value for Data Element & Patient Care

## 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

**E01\_01** Patient Care Report Number

**E06\_01** Last Name

**E06\_04** Patient's Home Address

**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 34 City of Residence

# PATIENT'S HOME STATE

E06\_07

**Data Format** [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** 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

-10 Not Known

-5 Not Available

- Relevant Value for Data Element & Patient Care

## 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

**E01\_01** Patient Care Report Number

**E06\_01** Last Name

**E06\_04** Patient's Home Address

**E06\_05** Patient's Home City

**E06\_06** Patient's Home County

**E06\_08** Patient's Home Zip Code

## References in NHTSA Version 1

Desirable Element 36 State of Residence

# PATIENT'S HOME ZIP CODE

E06\_08

Data Format [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 Yes

Required in XSD Yes

Minimum Constraint 2

Maximum Constraint 10

XSD Structure: E06\_04, E06\_05, E06\_07, E06\_08 are all members of the E06\_04\_0 Patient Address Structure

## Field Values

-25 Not Applicable

-15 Not Reporting

-10 Not Known

-5 Not Available

- Relevant Value for Data Element & Patient Care

## 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

E01\_01 Patient Care Report Number

E06\_01 Last Name

E06\_04 Patient's Home Address

E06\_05 Patient's Home City

E06\_06 Patient's Home County

E06\_07 Patient's Home State

## References in NHTSA Version 1

Essential Element 37 Zip Code of Residence

# GENDER

E06\_11

**Data Format** [combo] single-choice

*National Element*

## Definition

The patient's gender

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

**XSD Domain (Simple Type)** *Gender*

**Multiple Entry Configuration** No

**Accepts Null** 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

**Data Format** [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** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-15 Not Reporting

-10 Not Known

-5 Not Available

660 American Indian or Alaska Native

665 Asian

670 Black or African American

675 Native Hawaiian or Other Pacific Islander

680 White

685 Other Race

## Uses

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

## Data Collector

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

## Other Associated Elements

E00 Common Null Values

E01\_01 Patient Care Report Number

E06\_01 Last Name

## References in NHTSA Version 1

Essential Element 43 Race/Ethnicity

## References to Other Databases

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

# ETHNICITY

E06\_13

**Data Format** [combo] single-choice

*National Element*

## Definition

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

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

**XSD Domain (Simple Type)** *Ethnicity*

**Multiple Entry Configuration** No

**Accepts Null** Yes

**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

**Data Format** [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**

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**

- Relevant Value for Data Element & Patient Care

**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.

# AGE UNITS

E06\_15

**Data Format** [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** Yes

**Required in XSD** Yes

XSD Structure: E06\_14 and E06\_15 are members of the E06\_14\_0 Patient's Age Structure

## Field Values

-25 Not Applicable

-15 Not Reporting

-10 Not Known

-5 Not Available

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

**E01\_01** Patient Care Report Number

**E06\_14** Age

## References in NHTSA Version 1

Desirable Element 41 Age

# DATE OF BIRTH

E06\_16

**Data Format** [date]

## Definition

The patient's date of birth

**XSD Data Type** *xs:date*

**XSD Domain (Simple Type)** *DateOfBirth*

**Multiple Entry Configuration** No

**Accepts Null** No

**Required in XSD** No

**Minimum Constraint** 1,890 **Maximum Constraint** 2,030

## Field Values

- Relevant Value for Data Element & Patient Care

## 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.

# ***Billing***

# PRIMARY METHOD OF PAYMENT

E07\_01

Data Format [combo] single-choice

*National Element*

## 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 Yes

Required in XSD Yes

## Field Values

-25 Not Applicable

-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

**Data Format** [combo] single-choice

*National Element*

## Definition

The CMS service level for this EMS encounter.

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

**XSD Domain (Simple Type)** *CMSServiceLevel*

**Multiple Entry Configuration** No

**Accepts Null** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-10 Not Known

990 BLS

1000 ALS, Level 1

1010 ALS, Level 2

1020 Specialty Care Transport

1030 Rotary Wing (Helicopter)

-15 Not Reporting

-5 Not Available

995 BLS, Emergency

1005 ALS, Level 1 Emergency

1015 Paramedic Intercept

1025 Fixed Wing (Airplane)

## Uses

- Allows data to be quantified and described based on the CMS Service Level
- Allows data to be sorted based on the CMS Service Level
- 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

**Data Format** [combo] multiple-choice

*National Element*

## Definition

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** 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   |
| -10 Not Known  | -5 Not Available  |
| <b>8001</b> Severe Abdominal Pain (ALS-789.00)                                     | <b>8002</b> Abdominal Pain (ALS-789.00)                                       |
| <b>8003</b> Abnormal Cardiac Rhythm/Cardiac Dysrhythmia (ALS-427.9)                | <b>8004</b> Abnormal Skin Signs (ALS-780.8)                                   |
| <b>8005</b> Abnormal Vital Signs (ALS-796.4)                                       | <b>8006</b> Allergic Reaction (ALS-995.0)                                     |
| <b>8007</b> Allergic Reaction (BLS-692.9)  | <b>8008</b> Blood Glucose (ALS-790.21)  |
| <b>8009</b> Respiratory Arrest (ALS-799.1)   | <b>8010</b> Difficulty Breathing (ALS-786.05)                                 |
| <b>8011</b> Cardiac Arrest-Resuscitation in Progress (ALS-427.5)                   | <b>8012</b> Chest Pain (non-traumatic) (ALS-786.50)                           |
| <b>8013</b> Choking Episode (ALS-784.9)  | <b>8014</b> Cold Exposure (ALS-991.6)   |
| <b>8015</b> Cold Exposure (BLS-991.9)  | <b>8016</b> Altered Level of Consciousness (non-traumatic) (ALS-780.01)       |
| <b>8017</b> Convulsions/Seizures (ALS-780.39)                                      | <b>8018</b> Eye Symptoms (non-traumatic) (BLS-379.90)                         |
| <b>8019</b> Non Traumatic Headache (ALS-437.9)                                     | <b>8020</b> Cardiac Symptoms other than Chest Pain (palpitations) (ALS-785.1) |
| <b>8021</b> Cardiac Symptoms other than Chest Pain (atypical pain) (ALS-536.2)     | <b>8022</b> Heat Exposure (ALS-992.5)   |
| <b>8023</b> Heat Exposure (BLS-992.2)  | <b>8024</b> Hemorrhage (ALS-459.0)  |
| <b>8025</b> Infectious Diseases requiring Isolation/Public Health Risk (BLS-038.9) | <b>8026</b> Hazmat Exposure (ALS-987.9)                                       |
| <b>8027</b> Medical Device Failure (ALS-996.0)                                     | <b>8028</b> Medical Device Failure (BLS-996.3)                                |
| <b>8029</b> Neurologic Distress (ALS-436.0)  | <b>8030</b> Pain (Severe) (ALS-780.99)  |
| <b>8031</b> Back Pain (non-traumatic possible cardiac or vascular) (ALS-724.5)     | <b>8032</b> Back Pain (non-traumatic with neurologic symptoms) (ALS-724.9)    |
| <b>8033</b> Poisons (all routes) (ALS-977.9)                                       | <b>8034</b> Alcohol Intoxication or Drug Overdose (BLS-305.0)                 |
| <b>8035</b> Severe Alcohol Intoxication (ALS-977.3)                                | <b>8036</b> Post-Operative Procedure Complications (BLS-998.9)                |
| <b>8037</b> Pregnancy Complication/Childbirth/Labor (ALS-650.0)                    | <b>8038</b> Psychiatric/Behavioral (abnormal mental status) (ALS-292.9)       |
| <b>8039</b> Psychiatric/Behavioral (threat to self or others) (BLS-298.9)          | <b>8040</b> Sick Person-Fever (BLS-036.9)                                     |
| <b>8041</b> Severe Dehydration (ALS-787.01)  | <b>8042</b> Unconscious/Syncope/Dizziness (ALS-780.02)                        |
| <b>8043</b> Major Trauma (ALS-959.8)   | <b>8044</b> Other Trauma (need for monitor or airway) (ALS-518.5)             |
| <b>8045</b> Other Trauma (major bleeding) (ALS-958.2)                              | <b>8046</b> Other Trauma (fracture/dislocation) (BLS-829.0)                   |
| <b>8047</b> Other Trauma (penetrating extremity) (BLS-880.0)                       | <b>8048</b> Other Trauma (amputation digits) (BLS-886.0)                      |
| <b>8049</b> Other Trauma (amputation other) (ALS-887.4)                            | <b>8050</b> Other Trauma (suspected internal injuries) (ALS-869.0)            |
| <b>8051</b> Burns-Major (ALS-949.3)  | <b>8052</b> Burns-Minor (BLS-949.2)   |
| <b>8053</b> Animal Bites/Sting/Envenomation (ALS-989.5)                            | <b>8054</b> Animal Bites/Sting/Envenomation (BLS-879.8)                       |
| <b>8055</b> Lightning (ALS-994.0)  | <b>8056</b> Electrocution (ALS-994.8)   |

- 8057** Near Drowning (ALS-994.1)
- 8059** Sexual Assault (major injuries) (ALS-995.83)
- 8061** Cardiac/Hemodynamic Monitoring Required (ALS-428.9)
- 8063** IV Meds Required (ALS-No ICD code provided)
- 8065** Suctioning/Oxygen/IV fluids required (BLS-496.0)
- 8067** Third Party Assistance/Attendant Required (BLS-496.0)
- 8069** Patient Safety (monitoring required) (BLS-293.1)
- 8071** Patient Safety (risk of falling off stretcher) (BLS-781.3)
- 8073** Special Handling (orthopedic device required) (BLS-907.2)

- 8058** Eye Injuries (BLS-921.9)
- 8060** Sexual Assault (minor injuries) (BLS-995.8)
- 8062** Advanced Airway Management (ALS-518.81)
- 8064** Chemical Restraint (ALS-293.0)
- 8066** Airway Control/Positioning Required (BLS-786.09)
- 8068** Patient Safety (restraints required) (BLS-298.9)
- 8070** Patient Safety (seclusion required) (BLS-298.8)
- 8072** Special Handling (Isolation) (BLS-041.9)
- 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

<b>E00</b>	Common Null Values	<b>E01_01</b>	Patient Care Report Number
<b>E07_36</b>	ICD-9 Code for the Condition Code Number	<b>E07_37</b>	Condition Code Modifier

# ***Scene***

# NUMBER OF PATIENTS AT SCENE

E08\_05

**Data Format** [combo] single-choice

*National Element*

## Definition

Indicator of how many total patients were at the scene

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

**XSD Domain (Simple Type)** *NumberOfPatientsAtScene*

**Multiple Entry Configuration** No

**Accepts Null** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-15 Not Reporting

-10 Not Known

-5 Not Available

1120 None

1125 Single

1130 Multiple

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the number of patients associated with the event and resources required
- Allows data to describe the number of EMS events with multiple patient encounters

## 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: Number of Patients; The total number of patients.

# MASS CASUALTY INCIDENT

E08\_06

**Data Format** [combo] single-choice

*National Element*

## Definition

Indicator if this event would be considered a mass casualty incident (overwhelmed existing EMS resources)

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

**XSD Domain (Simple Type)** *YesNoValues*

**Multiple Entry Configuration** No

**Accepts Null** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-15 Not Reporting

-10 Not Known

-5 Not Available

0 No

1 Yes

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on a Mass Casualty Event
- Allows data to describe the number of EMS events which were declared a mass casualty event and is connected with disaster and domestic preparedness

## Data Collector

- EMS personnel

## Other Associated Elements

**E00** Common Null Values

**E01\_01** Patient Care Report Number

# INCIDENT LOCATION TYPE

E08\_07

**Data Format** [combo] single-choice

*National Element*

## 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** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-15 Not Reporting

-10 Not Known

-5 Not Available

1135 Home/Residence

1140 Farm

1145 Mine or Quarry

1150 Industrial Place and Premises

1155 Place of Recreation or Sport

1160 Street or Highway

1165 Public Building (schools, gov. offices)

1170 Trade or service (business, bars, restaurants, etc)

1175 Health Care Facility (clinic, hospital, nursing home)

1180 Residential Institution (Nursing Home, jail/prison)

1185 Lake, River, Ocean

1190 Other Location

## 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

# SCENE GPS LOCATION

E08\_10

**Data Format** [text]

## Definition

The GPS coordinates associated with the Scene.

<b>XSD Data Type</b>	<i>xs:decimal</i>	<b>XSD Domain (Simple Type)</b>	<i>GPSLocation</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	No
<b>Required in XSD</b>	No		

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

## Field Values

- Relevant Value for Data Element & Patient Care

## 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

<b>E01_01</b> Patient Care Report Number	<b>E08_07</b> Incident Location Type
--	--------------------------------------

# INCIDENT ADDRESS

E08\_11

Data Format [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 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

-10 Not Known

-5 Not Available

- Relevant Value for Data Element & Patient Care

## Uses

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

## Data Collector

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

## Other Associated Elements

E00 Common Null Values

E01\_01 Patient Care Report Number

E08\_07 Incident Location Type

E08\_12 Incident City

E08\_14 Incident State

E08\_15 Incident ZIP Code

## References in NHTSA Version 1

Essential Element 01 Incident Address

**Data Format** [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** 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

-10 Not Known

-5 Not Available

- Relevant Value for Data Element & Patient Care

## 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

**E01\_01** Patient Care Report Number

**E08\_07** Incident Location Type

**E08\_11** Incident Address

**E08\_14** Incident State

**E08\_15** Incident ZIP Code

## References in NHTSA Version 1

Essential Element 02 Incident City

**Data Format** [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** 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

-10 Not Known

-5 Not Available

- Relevant Value for Data Element & Patient Care

## 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

**E01\_01** Patient Care Report Number

**E08\_07** Incident Location Type

**E08\_11** Incident Address

**E08\_12** Incident City

**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

# INCIDENT ZIP CODE

E08\_15

Data Format [text]

*National Element*

## Definition

The ZIP code of the incident location

XSD Data Type *xs:string*

XSD Domain (Simple Type) *Zip*

Multiple Entry Configuration No

Accepts Null Yes

Required in XSD Yes

Minimum Constraint 2

Maximum Constraint 10

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

- Relevant Value for Data Element & Patient Care

## Uses

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

## Data Collector

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

## Other Associated Elements

E00 Common Null Values

E01\_01 Patient Care Report Number

E08\_07 Incident Location Type

E08\_11 Incident Address

E08\_12 Incident City

E08\_14 Incident State

# ***Situation***



# PRIOR AID PERFORMED BY

E09\_02

**Data Format** [combo] multiple-choice

*National Element*

## Definition

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

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

**XSD Domain (Simple Type)** *PriorAidPerformedBy*

**Multiple Entry Configuration** Yes

**Accepts Null** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-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

## Section E09 Situation

*MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

Page 83 of 168

# OUTCOME OF THE PRIOR AID

E09\_03

Data Format [combo] single-choice

*National Element*

## Definition

What was the outcome or result of the care performed prior to the arrival of the unit?

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *OutcomeOfPriorAid*

Multiple Entry Configuration No

Accepts Null Yes

Required in XSD Yes

## Field Values

-25 Not Applicable

-15 Not Reporting

-10 Not Known

-5 Not Available

1220 Improved

1225 Unchanged

1230 Worse

## Uses

- Allows data to be sorted based on the perceived outcome which resulted from specific prior aid 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

## Section E09 Situation

*MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

Page 84 of 168

# POSSIBLE INJURY

E09\_04

**Data Format** [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** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-15 Not Reporting

-10 Not Known

-5 Not Available

0 No

1 Yes

## Additional Information

- Can be used to determine which records should have Section E10: Situation/ Trauma completed. If Injury Present (E09\_04) is "Yes", Section E10 should be completed
- Possible Injury (E09\_04), Chief Complaint Anatomic Location (E09\_11), Chief Complaint Organ System (E09\_12), and Primary Symptom (E09\_13) are required to calculate the Reason for Encounter

## Uses

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

## Data Collector

- EMS personnel

## Other Associated Elements

**E00** Common Null Values

**E01\_01** Patient Care Report Number

# CHIEF COMPLAINT

E09\_05

Data [text]

## Definition

The statement of the problem by the patient or the history provider in one or two words

<b>XSD Data Type</b> <i>xs:string</i>	<b>XSD Domain (Simple Type)</b> <i>ChiefComplaintNarrative</i>
<b>Multiple Entry Configuration</b> No	<b>Accepts Null Values</b> Yes
<b>Required in XSD</b> No	<b>Minimum Constraint</b> 2 <b>Maximum Constraint</b> 50

## Field Values

- |                    |  |
|--------------------|--|
| -25 Not Applicable | -20 Not Recorded                                 |
| -15 Not Reporting  | -10 Not Known                                    |
| -5 Not Available   | • Relevant Value for Data Element & Patient Care |

## Uses

- Allows data to be sorted based on the use of EMS Chief Complaint
- Allows data to describe EMS services delivered based on the EMS patient's chief complaint
- Important for an EMS Medical Record

## Data Collector

- EMS personnel

## Other Associated Elements

**E00** Common Null Values **E01\_01** Patient Care Report Number

## References in NHTSA Version 1

Desirable Element 48 Chief Complaint

# DURATION OF CHIEF COMPLAINT

E09\_06

Data [number]

## Definition

The time duration of the chief complaint

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

**XSD Domain (Simple Type)** *DurationOfChiefComplaint*

**Multiple Entry Configuration** No

**Accepts Null Values**No

**Required in XSD** No

**Minimum Constraint** 1

**Maximum Constraint** 360

XSD Structure: E09\_06 and E09\_07 are members of E09\_06\_0 Duration of Chief Complaint Structure

## Field Values

- Relevant Value for Data Element & Patient Care

## Uses

- Important for an EMS Medical Record
- Important to evaluate clinical conditions which are time dependant such as MI or Stroke to determine appropriate EMS care

## Data Collector

- EMS personnel

## Other Associated Elements

**E01\_01** Patient Care Report Number

**E09\_05** Chief Complaint

**E09\_07** Time Units of Duration of Chief Complaint

# TIME UNITS OF DURATION OF CHIEF COMPLAINT

E09\_07

**Data** [combo] single-choice

## Definition

The time units of the duration of the patient's chief complaint

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

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

**Required in XSD** No

XSD Structure: E09\_06 and E09\_07 are members of E09\_06\_0 Duration of Chief Complaint Structure

## Field Values

**1235** Seconds

**1245** Hours

**1255** Weeks

**1265** Years

**1240** Minutes

**1250** Days

**1260** Months

- Relevant Value for Data Element & Patient Care

## Uses

- Important for an EMS Medical Record
- Important to evaluate clinical conditions which are time dependant such as MI or Stroke to determine appropriate EMS care

## Data Collector

- EMS personnel

## Other Associated Elements

**E01\_01** Patient Care Report Number

**E09\_06** Duration of Chief Complaint

**E09\_05** Chief Complaint

# CHIEF COMPLAINT ANATOMIC LOCATION

E09\_11

Data Format [combo] single-choice

*National Element*

## Definition

The primary anatomic location of the chief complaint as identified by EMS personnel

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *ComplaintAnatomicLocation*

Multiple Entry Configuration No

Accepts Null Yes

Required in XSD Yes

## Field Values

-25 Not Applicable

-15 Not Reporting

-10 Not Known

-5 Not Available

1305 Abdomen

1310 Back

1315 Chest

1320 Extremity-Lower

1325 Extremity-Upper

1330 General/Global

1335 Genitalia

1340 Head

1345 Neck

## 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 complaint location
- Allows data to describe the patient's complaint location
- 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

## Section E09 Situation

*MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

Page 89 of 168

# CHIEF COMPLAINT ORGAN SYSTEM

E09\_12

Data Format [combo] single-choice

*National Element*

## Definition

The primary organ system of the patient injured or medically affected. This is to be completed by EMS personnel with a minimum of an EMT-Paramedic level of credentialing.

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *ComplaintOrganSystem*

Multiple Entry Configuration No

Accepts Null Yes

Required in XSD Yes

## Field Values

-25 Not Applicable

-10 Not Known

1350 Cardiovascular

1360 Endocrine/Metabolic

1370 Global

1380 OB/Gyn

1390 Pulmonary

1400 Skin

-15 Not Reporting

-5 Not Available

1355 CNS/Neuro

1365 GI

1375 Musculoskeletal

1385 Psych

1395 Renal

## 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
- This data element is to be completed by EMS personnel at the EMT-Paramedic level or higher

## Uses

- A component of the EMS Medical Record: Patient Care Report
- 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

## Section E09 Situation

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# PRIMARY SYMPTOM

E09\_13

Data Format [combo] single-choice

*National Element*

## 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 Yes

Required in XSD Yes

## Field Values

-25 Not Applicable	-15 Not Reporting
-10 Not Known	-5 Not Available
1405 Bleeding	1410 Breathing Problem
1415 Change in responsiveness	1420 Choking
1425 Death	1430 Device/Equipment Problem
1435 Diarrhea	1440 Drainage/Discharge
1445 Fever	1450 Malaise
1455 Mass/Lesion	1460 Mental/Psych
1465 Nausea/Vomiting	1470 None
1475 Pain	1480 Palpitations
1485 Rash/Itching	1490 Swelling
1495 Transport Only	1500 Weakness
1505 Wound	

## 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

# OTHER ASSOCIATED SYMPTOMS

E09\_14

**Data Format** [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** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable	-15 Not Reporting
-10 Not Known	-5 Not Available
1510 Bleeding	1515 Breathing Problem
1520 Change in responsiveness	1525 Choking
1530 Death	1535 Device/Equipment Problem
1540 Diarrhea	1545 Drainage/Discharge
1550 Fever	1555 Malaise
1560 Mass/Lesion	1565 Mental/Psych
1570 Nausea/Vomiting	1575 None
1580 Pain	1585 Palpitations
1590 Rash/Itching	1595 Swelling
1600 Transport Only	1605 Weakness
1610 Wound	

## 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

# PROVIDERS PRIMARY IMPRESSION

E09\_15

Data Format [combo] single-choice

*National Element*

## 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**      Yes  
**Required in XSD** Yes

## Field Values

-25	Not Applicable	-15	Not Reporting
-10	Not Known	-5	Not Available
1615	789.00- Abdominal pain / problems	1620	519.80- Airway obstruction
1625	995.30- Allergic reaction	1630	780.09- Altered level of consciousness
1635	312.90- Behavioral / psychiatric disorder	1640	427.50- Cardiac arrest
1645	427.90- Cardiac rhythm disturbance	1650	786.50- Chest pain / discomfort
1655	250.90- Diabetic symptoms (hypoglycemia)	1660	994.80- Electrocutation
1665	780.60- Hyperthermia	1670	780.90- Hypothermia
1675	785.59- Hypovolemia / shock	1680	987.90- Inhalation injury (toxic gas)
1685	798.99- Obvious death	1690	977.90- Poisoning / drug ingestion
1695	659.90- Pregnancy / OB delivery	1700	786.09- Respiratory distress
1705	799.10- Respiratory arrest	1710	780.30- Seizure
1715	959.90- Sexual assault / rape	1720	987.90- Smoke inhalation
1725	989.50- Stings / venomous bites	1730	436.00- Stroke / CVA
1735	780.20- Syncope / fainting	1740	959.90- Traumatic injury
1745	623.80- Vaginal hemorrhage		

## 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, Electrocutation = 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

## Section E09      Situation

Page 93 of 168

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# PROVIDER'S SECONDARY IMPRESSION

E09\_16

**Data Format** [combo] single-choice

*National Element*

## Definition

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

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

**XSD Domain (Simple Type)** *ProvidersSecondaryImpression*

**Multiple Entry Configuration** No

**Accepts Null** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-10 Not Known

1750 789.00- Abdominal pain / problems

1760 995.30- Allergic reaction

1770 312.90- Behavioral / psychiatric disorder

1780 427.90- Cardiac rhythm disturbance

1790 250.90- Diabetic symptoms (hypoglycemia)

1800 780.60- Hyperthermia

1810 785.59- Hypovolemia / shock

1820 798.99- Obvious death

1830 659.90- Pregnancy / OB delivery

1840 799.10- Respiratory arrest

1850 959.90- Sexual assault / rape

1860 989.50- Stings / venomous bites

1870 780.20- Syncope / fainting

1880 623.80- Vaginal hemorrhage

-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- Electrocution

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

## 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

# *Situation/ Trauma*

# CAUSE OF INJURY

E10\_01

Data Format [combo] single-choice

*National Element*

## 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 Yes

Required in XSD Yes

## Field Values

-25 Not Applicable	-15 Not Reporting
-10 Not Known	-5 Not Available
9500 Aircraft related accident (E84X.0)	9505 Bicycle Accident (E826.0)
9510 Bites (E906.0)	9515 Chemical poisoning (E86X.0)
9520 Child battering (E967.0)	9525 Drowning (E910.0)
9530 Drug poisoning (E85X.0)	9535 Electrocutation (non-lightning) (E925.0)
9540 Excessive Cold (E901.0)	9545 Excessive Heat (E900.0)
9550 Falls (E88X.0)	9555 Fire and Flames (E89X.0)
9560 Firearm assault (E965.0)	9565 Firearm injury (accidental) (E985.0)
9570 Firearm self inflicted (E955.0)	9575 Lightning (E907.0)
9580 Machinery accidents (E919.0)	9585 Mechanical Suffocation (E913.0)
9590 Motor Vehicle non-traffic accident (E82X.0)	9595 Motor Vehicle traffic accident (E81X.0)
9600 Motorcycle Accident (E81X.1)	9605 Non-Motorized Vehicle Accident (E848.0)
9610 Pedestrian traffic accident (E814.0)	9615 Radiation exposure (E926.0)
9620 Rape (E960.1)	9625 Smoke Inhalation (E89X.2)
9630 Stabbing/Cutting Accidental (E986.0)	9635 Stabbing/Cutting Assault (E966.0)
9640 Struck by Blunt/Thrown Object (E968.2)	9645 Venomous stings (plants, animals) (E905.0)
9650 Water Transport accident (E83X.0)	

## 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

- NFIRS 5.0 EMS Module; Title: Cause of Illness/Injury; The immediate cause or condition responsible for the injury or illness; Pick-List: Chemical Exposure = 10, Drug Poisoning = 11, Fall = 12, Aircraft Related = 13, Bite, Includes Animal Bites = 14, Bicycle Accident = 15, Building Collapse/Construction Accident = 16, Drowning = 17, Electrical Shock = 18, Cold = 19, Heat = 20, 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

## Section E10 Situation/Trauma

Page 96 of 168

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# MECHANISM OF INJURY

E10\_03

**Data Format** [combo] multiple-choice

## Definition

The mechanism of the event which caused the injury.

<b>XSD Data Type</b> <i>xs:integer</i>	<b>XSD Domain (Simple Type)</b> <i>MechanismOfInjury</i>
<b>Multiple Entry Configuration</b> Yes	<b>Accepts Null</b> Yes
<b>Required in XSD</b> No	

## Field Values

-25 Not Applicable	-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

<b>E00</b> Common Null Values	<b>E01_01</b> Patient Care Report Number
-------------------------------	--

# VEHICULAR INJURY INDICATORS

E10\_04

**Data Format** [combo] multiple-choice

## Definition

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

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

## Field Values

-25 Not Applicable	-10 Not Known
-5 Not Available	2055 Dash Deformity
2060 DOA Same Vehicle	2065 Ejection
2070 Fire	2075 Rollover/Roof Deformity
2080 Side Post Deformity	2085 Space Intrusion >1 foot
2090 Steering Wheel Deformity	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

# AREA OF THE VEHICLE IMPACTED BY THE COLLISION

E10\_05

**Data Format** [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**      Yes  
**Required in XSD** No

## Field Values

-25 Not Applicable	-10 Not Known
-5 Not Available	2100 Center Front
2105 Center Rear	2110 Left Front
2115 Left Rear	2120 Left Side
2125 Right Front	2130 Right Rear
2135 Right Side	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

# SEAT ROW LOCATION OF PATIENT IN VEHICLE

E10\_06

**Data Format** [text]

## Definition

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

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

**XSD Domain (Simple Type)** *SeatRowLocation*

**Multiple Entry Configuration** No

**Accepts Null** No

**Required in XSD** No

**Minimum Constraint** 1

**Maximum Constraint** 15

XSD Structure: E10\_06 and E10\_07 are members of E10\_06\_0 Position of Patient Structure

## Field Values

- Relevant Value for Data Element & Patient Care
- 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

# POSITION OF PATIENT IN THE SEAT OF THE VEHICLE

E10\_07

**Data Format** [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** 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

-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

# USE OF OCCUPANT SAFETY EQUIPMENT

E10\_08

**Data Format** [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** Yes

**Required in XSD** No

## Field Values

-25 Not Applicable

-5 Not Available

2175 Eye Protection

2185 Lap Belt

2190 Other

2200 Protective Clothing

2210 Shoulder Belt

-10 Not Known

2170 Child Restraint

2180 Helmet Worn

2187 None

2195 Personal Floatation Device

2205 Protective Non-Clothing Gear

## 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

# AIRBAG DEPLOYMENT

E10\_09

**Data Format** [combo] multiple-choice

## Definition

Indication of Airbag deployment during the motor vehicle crash.

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

**XSD Domain (Simple Type)** *AirbagDeployment*

**Multiple Entry Configuration** Yes

**Accepts Null** Yes

**Required in XSD** No

## Field Values

-25 Not Applicable

-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

# ***Situation/ CPR***

# CARDIAC ARREST

E11\_01

**Data Format** [combo] single-choice

*National Element*

## Definition

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

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

**XSD Domain (Simple Type)** *CardiacArrest*

**Multiple Entry Configuration** No

**Accepts Null** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-15 Not Reporting

-10 Not Known

-5 Not Available

0 No

2240 Yes, Prior to EMS Arrival

2245 Yes, After EMS Arrival

## Additional Information

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

## Uses

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

## Data Collector

- EMS personnel

## Other Associated Elements

**E00** Common Null Values

**E01\_01** Patient Care Report Number

## References to Other Databases

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

# CARDIAC ARREST ETIOLOGY

E11\_02

**Data Format** [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** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-15 Not Reporting

-10 Not Known

-5 Not Available

2250 Presumed Cardiac

2255 Trauma

2260 Drowning

2265 Respiratory

2270 Electrocutation

2275 Other

## 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

# RESUSCITATION ATTEMPTED

E11\_03

**Data Format** [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** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-15 Not Reporting

-10 Not Known

-5 Not Available

2280 Attempted Defibrillation

2285 Attempted Ventilation

2290 Initiated Chest Compressions

2295 Not Attempted-Considered Futile

2300 Not Attempted-DNR Orders

2305 Not Attempted-Signs of Circulation

## Additional Information

- Complete only if Cardiac Arrest (E11\_01) is “Yes”

## Uses

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

## Data Collector

- EMS personnel if Cardiac Arrest (E11\_01) is answered Yes

## Other Associated Elements

**E00** Common Null Values

**E01\_01** Patient Care Report Number

## References to Other Databases

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

# ARREST WITNESSED BY

E11\_04

**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

<b>-25</b> Not Applicable	<b>-20</b> Not Recorded
<b>-15</b> Not Reporting	<b>-10</b> Not Known
<b>-5</b> Not Available	<b>2310</b> Witnessed by Healthcare Provider
<b>2315</b> Witnessed by Lay Person	<b>2320</b> 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

# FIRST MONITORED RHYTHM OF THE PATIENT

E11\_05

**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	-20 Not Recorded
-15 Not Reporting	-10 Not Known
-5 Not Available	2325 Asystole
2330 Bradycardia	2335 Normal Sinus Rhythm
2340 Other	2345 PEA
2350 Unknown AED Non-Shockable Rhythm	2355 Unknown AED Shockable Rhythm
2360 Ventricular Fibrillation	2365 Ventricular Tachycardia

## 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 Rh

# ANY RETURN OF SPONTANEOUS CIRCULATION

E11\_06

**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	-20 Not Recorded
-15 Not Reporting	-10 Not Known
-5 Not Available	0 No
2370 Yes, Prior to ED Arrival Only	2375 Yes, Prior to ED Arrival and at the ED

## Additional Information

- Complete only if Cardiac Arrest (E11\_01) is “Yes”

## Uses

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

## Data Collector

- EMS personnel if Cardiac Arrest (E11\_01) is answered Yes

## Other Associated Elements

**E00** Common Null Values      **E01\_01** Patient Care Report Number

## References in NHTSA Version 1

Desirable Element 64 Return of Spontaneous Circulation

## References to Other Databases

- **UTSTEIN** Title: Any Return of Spontaneous Circulation (ROSC); [combo] Yes = Y, No = No, U = Unknown

# REASON CPR DISCONTINUED

E11\_10

**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

# CARDIAC RHYTHM ON ARRIVAL AT DESTINATION

E11\_11

**Data** [combo] multiple-choice

## Definition

The patient's cardiac rhythm upon delivery or transfer to the destination

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

## Field Values

<b>-25</b> Not Applicable	<b>-20</b> Not Recorded
<b>-15</b> Not Reporting	<b>-10</b> Not Known
<b>-5</b> Not Available	<b>2455</b> 12 Lead ECG-Anterior Ischemia
<b>2460</b> 12 Lead ECG-Inferior Ischemia	<b>2465</b> 12 Lead ECG-Lateral Ischemia
<b>2470</b> Agonal/Idioventricular	<b>2475</b> Artifact
<b>2480</b> Asystole	<b>2485</b> Atrial Fibrillation/Flutter
<b>2490</b> AV Block-1st Degree	<b>2495</b> AV Block-2nd Degree-Type 1
<b>2500</b> AV Block-2nd Degree-Type 2	<b>2505</b> AV Block-3rd Degree
<b>2510</b> Junctional	<b>2515</b> Left Bundle Branch Block
<b>2520</b> Normal Sinus Rhythm	<b>2525</b> Other
<b>2530</b> Paced Rhythm	<b>2535</b> PEA
<b>2540</b> Premature Atrial Contractions	<b>2545</b> Premature Ventricular Contractions
<b>2550</b> Right Bundle Branch Block	<b>2555</b> Sinus Arrhythmia
<b>2560</b> Sinus Bradycardia	<b>2565</b> Sinus Tachycardia
<b>2570</b> Supraventricular Tachycardia	<b>2575</b> Torsades De Points
<b>2580</b> Unknown AED Non-Shockable Rhythm	<b>2585</b> Unknown AED Shockable Rhythm
<b>2590</b> Ventricular Fibrillation	<b>2595</b> Ventricular Tachycardia

## Additional Information

- Complete only if Cardiac Arrest (E11\_01) is "Yes"
- This data point could be completed by documentation of the final rhythm in the Vital Signs Section (E14) with the appropriate time

## 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

## References in NHTSA Version 1

Desirable    Element 67      Rhythm at Destination

# *Medical History*

# BARRIERS TO PATIENT CARE

E12\_01

**Data Format** [combo] multiple-choice

*National Element*

## Definition

Indication of whether or not there were any patient specific barriers to serving the patient at the scene

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

**XSD Domain (Simple Type)** *BarriersToPatientCare*

**Multiple Entry Configuration** Yes

**Accepts Null** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-15 Not Reporting

-10 Not Known

-5 Not Available

2600 Developmentally Impaired

2605 Hearing Impaired

2610 Language

2615 None

2620 Physically Impaired

2625 Physically Restrained

2630 Speech Impaired

2635 Unattended or Unsupervised (including minors)

2640 Unconscious

## 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

**E00** 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

# MEDICATION ALLERGIES

E12\_08

**Data** [combo] multiple-choice

## Definition

The patient's medication allergies

**XSD Data Type** *xs:string*

**XSD Domain (Simple Type)** *MedicationAllergies*

**Multiple Entry Configuration** Yes

**Accepts Null Values** Yes

**Required in XSD** No

**Minimum Constraint** 2

**Maximum Constraint** 30

## Field Values

-25 Not Applicable

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

• Relevant Value for Data Element & Patient Care

• NKDA (No Known Drug Allergies)

## 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

# MEDICAL/SURGICAL HISTORY

E12\_10

**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

- Relevant Value for Data Element & Patient Care

## Additional Information

- A Medical/Surgical History list should be created to serve as a listbox which can contain any ICD-9 coded diagnosis or procedure
- The field should store the values of the ICD-9 codes since CMS has not adopted ICD-10 level codes at the time of this document

## Uses

- Part of an EMS Medical Record

## Data Collector

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

## Other Associated Elements

**E00** Common Null Values

**E01\_01** Patient Care Report Number

**E06\_01** Last Name

## References in NHTSA Version 1

Essential Element 51 Pre-Existing Condition

# CURRENT MEDICATIONS

E12\_14

**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

- Relevant Value for Data Element & Patient Care

## 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

**Data Format** [combo] multiple-choice

*National Element*

## 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** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-15 Not Reporting

-10 Not Known

-5 Not Available

2985 Smell of Alcohol on Breath

2990 Patient Admits to Alcohol Use

2995 Patient Admits to Drug Use

3000 Alcohol and/or Drug Paraphernalia at Scene

## 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

# *Assessment/ Vital Signs*

# DATE/TIME VITAL SIGNS TAKEN

E14\_01

**Data Format** [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** Yes, but null value is blank or empty

**Required in XSD** No

**Minimum Constraint** 1,990

**Maximum Constraint** 2,030

XSD Structure: Each element in section E14 is associated with a E14\_01 Date/Time

## Field Values

- Relevant Value for Data Element & Patient Care

## 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

**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)** *CardiacRhythm*  
**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 in section E14 is associated with a E14\_01 Date/Time

## Field Values

<b>-25</b> Not Applicable	<b>-20</b> Not Recorded
<b>-15</b> Not Reporting	<b>-10</b> Not Known
<b>-5</b> Not Available	<b>3005</b> 12 Lead ECG-Anterior Ischemia
<b>3010</b> 12 Lead ECG-Inferior Ischemia	<b>3015</b> 12 Lead ECG-Lateral Ischemia
<b>3020</b> Agonal/Idioventricular	<b>3025</b> Artifact
<b>3030</b> Asystole	<b>3035</b> Atrial Fibrillation/Flutter
<b>3040</b> AV Block-1st Degree	<b>3045</b> AV Block-2nd Degree-Type 1
<b>3050</b> AV Block-2nd Degree-Type 2	<b>3055</b> AV Block-3rd Degree
<b>3060</b> Junctional	<b>3065</b> Left Bundle Branch Block
<b>3070</b> Normal Sinus Rhythm	<b>3075</b> Other
<b>3080</b> Paced Rhythm	<b>3085</b> PEA
<b>3090</b> Premature Atrial Contractions	<b>3095</b> Premature Ventricular Contractions
<b>3100</b> Right Bundle Branch Block	<b>3105</b> Sinus Arrhythmia
<b>3110</b> Sinus Bradycardia	<b>3115</b> Sinus Tachycardia
<b>3120</b> Supraventricular Tachycardia	<b>3125</b> Torsades De Points
<b>3130</b> Unknown AED Non-Shockable Rhythm	<b>3135</b> Unknown AED Shockable Rhythm
<b>3140</b> Ventricular Fibrillation	<b>3145</b> Ventricular Tachycardia

## Uses

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

## Data Collector

- EMS personnel or may be provided electronically through a medical device

## Other Associated Elements

**E00** Common Null Values      **E01\_01** Patient Care Report Number  
**E14\_01** Date/Time Vital Signs Taken

## References in NHTSA Version 1

Desirable Element 66 Initial Cardiac Rhythm

# SBP (SYSTOLIC BLOOD PRESSURE)

E14\_04

**Data Format** [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** Yes, but null value is blank or empty

**Required in XSD** No

**Minimum Constraint** 0

**Maximum Constraint** 400

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

- Relevant Value for Data Element & Patient Care

## 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

# DBP (DIASTOLIC BLOOD PRESSURE)

E14\_05

**Data Format** [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** Yes, but null value is blank or empty

**Required in XSD** No

**Minimum Constraint** 0

**Maximum Constraint** 300

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

- Relevant Value for Data Element & Patient Care

## 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\_01** Date/Time Vital Signs Taken

**E14\_04** SBP (Systolic Blood Pressure)

**E14\_06** Method of Blood Pressure Measurement

## References in NHTSA Version 1

Essential Element 71 Diastolic Blood Pressure

# PULSE RATE

E14\_07

**Data Format** [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** Yes, but null value is blank or empty

**Required in XSD** No

**Minimum Constraint** 0

**Maximum Constraint** 500

XSD Structure: Each element in section E14 is associated with a E14\_01 Date/Time

## Field Values

- Relevant Value for Data Element & Patient Care

## 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

# PULSE OXIMETRY

E14\_09

**Data Format** [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** 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

- Relevant Value for Data Element & Patient Care

## 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

# RESPIRATORY RATE

E14\_11

**Data Format** [number]

## Definition

The patient's respiratory rate expressed as a number per minute

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

**XSD Domain (Simple Type)** *RespiratoryRate*

**Multiple Entry Configuration** Yes, via structure

**Accepts Null** 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

- Relevant Value for Data Element & Patient Care

## 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

# GLASGOW COMA SCORE-EYE

E14\_15

**Data Format** [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** Yes, but null value is blank or empty

**Required in XSD** No

**Minimum Constraint** 1

**Maximum Constraint** 4

XSD Structure: (1) Each element in section E14 is associated with a E14\_01 Date/Time. (2) E14\_15, E14\_16, E14\_17, and E14\_18 are all members of E14\_15\_0 GCS Score Structure

## Field Values

- 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

**Data Format** [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** Yes, but null value is blank or empty

**Required in XSD** No

**Minimum Constraint** 1

**Maximum Constraint** 5

XSD Structure: (1) Each element in section E14 is associated with a E14\_01 Date/Time. (2) E14\_15, E14\_16, E14\_17, and E14\_18 are all members of E14\_15\_0 GCS Score Structure

## Field Values

- Patients 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 appropriately
- 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
- 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 speech
- 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

<b>E01_01</b> Patient Care Report Number	<b>E14_01</b> Date/Time Vital Signs Taken
<b>E14_15</b> Glasgow Coma Score-Eye	<b>E14_17</b> Glasgow Coma Score-Motor
<b>E14_18</b> Glasgow Coma Score-Qualifier	<b>E14_19</b> 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

**Data Format** [number]

## Definition

The patient's Glasgow Coma Score Motor

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

**XSD Domain (Simple Type)** *GCSMotor*

**Multiple Entry Configuration** Yes, via structure

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

**Required in XSD** No

**Minimum Constraint** 1

**Maximum Constraint** 6

XSD Structure: (1) Each element in section E14 is associated with a E14\_01 Date/Time. (2) E14\_15, E14\_16, E14\_17, and E14\_18 are all members of E14\_15\_0 GCS Score Structure

## Field Values

- Patients up to 5 years: 1 = None
- Patients >5 years: 1 = None
- Patients up to 5 years: 2 = Extensor posturing in response to painful stimulation
- Patients >5 years: 2 = Extensor posturing in response to painful stimulation
- Patients up to 5 years: 3 = Flexor posturing in response to painful stimulation
- Patients >5 years: 3 = Flexor posturing in response to painful stimulation
- Patients up to 5 years: 4 = General withdrawal in response to painful stimulation
- Patients >5 years: 4 = General withdrawal in response to painful stimulation
- Patients up to 5 years: 5 = Localization of painful stimulation
- Patients >5 years: 5 = Localization of painful stimulation
- Patients up to 5 years: 6 = Spontaneous appropriate motor responses
- Patients >5 years: 6 = Obeys commands with 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

<b>E01_01</b> Patient Care Report Number	<b>E14_01</b> Date/Time Vital Signs Taken
<b>E14_15</b> Glasgow Coma Score-Eye	<b>E14_16</b> Glasgow Coma Score-Verbal
<b>E14_18</b> Glasgow Coma Score-Qualifier	<b>E14_19</b> 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

**Data Format** [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** Yes

**Required in XSD** No

XSD Structure: (1) Each element in section E14 is associated with a E14\_01 Date/Time. (2) E14\_15, E14\_16, E14\_17, and E14\_18 are all members of E14\_15\_0 GCS Score Structure

## Field Values

-25 Not Applicable

-5 Not Available

-10 Not Known

3210 Initial GCS has legitimate values without interventions such as intubation and sedation

3215 Patient Chemically Sedated

3225 Patient Intubated and Chemically Paralyzed

3220 Patient Intubated

## 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

# TOTAL GLASGOW COMA SCORE

E14\_19

**Data Format** [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** Yes, but null value is blank or empty

**Required in XSD** No

**Minimum Constraint** 1

**Maximum Constraint** 15

XSD Structure: Each element in section E14 is associated with a E14\_01 Date/Time

## Field Values

- Relevant Value for Data Element & Patient Care

## Additional Information

- Calculated from Glasgow Coma Score-Eye (E14\_15), Glasgow Coma Score-Verbal (E14\_16), and Glasgow Coma Score-Motor (E14\_17)

## Uses

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

## Data Collector

- EMS personnel but could be auto-generated based on the information entered into an electronic patient care report

## Other Associated Elements

**E01\_01** Patient Care Report Number

**E14\_01** Date/Time Vital Signs Taken

**E14\_15** Glasgow Coma Score-Eye

**E14\_16** Glasgow Coma Score-Verbal

**E14\_17** Glasgow Coma Score-Motor

**E14\_18** Glasgow Coma Score-Qualifier

## References in NHTSA Version 1

Desirable Element 76 Glasgow Coma Score (Total)

# LEVEL OF RESPONSIVENESS

E14\_22

**Data Format** [combo] single-choice

## Definition

The patients level of responsiveness

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

**Multiple Entry Configuration** Yes, via structure      **Accepts Null** Yes

**Required in XSD** No

XSD Structure: Each element in section E14 is associated with a E14\_01 Date/Time

## Field Values

-25 Not Applicable	-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	E01_01	Patient Care Report Number
E14_01	Date/Time Vital Signs Taken		

# PAIN SCALE

E14\_23

**Data Format** [number]

## Definition

The patient's indication of pain from a scale of 0 –10.

<b>XSD Data Type</b>	<i>xs:integer</i>	<b>XSD Domain (Simple)</b>	<i>PainScale</i>
<b>Multiple Entry Configuration</b>	Yes, via structure	<b>Accepts Null Values</b>	Yes, but null value is blank or empty
<b>Required in</b>	No	<b>Minimum Constraint</b>	0
		<b>Maximum Constraint</b>	10

XSD Structure: Each element in section E14 is associated with a E14\_01 Date/Time

## Field Values

- Relevant Value for Data Element & Patient Care

## 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

**Section E14 Assessment/ Vital Signs**

# STROKE SCALE

E14\_24

**Data Format** [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** Yes

**Required in XSD** No

XSD Structure: Each element in section E14 is associated with a E14\_01 Date/Time

## Field Values

-25 Not Applicable

-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

E01\_01 Patient Care Report Number

E14\_01 Date/Time Vital Signs Taken

# REVISED TRAUMA SCORE

E14\_27

**Data Format** [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**

Yes, but null value is blank or empty

**Required in XSD** No

**Minimum Constraint** 0

**Maximum Constraint** 12

XSD Structure: Each element in section E14 is associated with a E14\_01 Date/Time

## Field Values

- Relevant Value for Data Element & Patient Care

## 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

# *Intervention/ Medication*

# MEDICATION GIVEN

E18\_03

Data [combo] single-choice

*National Element*

## Definition

The medication given to the patient

**XSD Data Type** *xs:string*

**XSD Domain (Simple Type)** *MedicationsGiven*

**Multiple Entry Configuration** Yes, via structure

**Accepts Null Values** Yes

**Required in XSD** Yes

**Minimum Constraint** 2

**Maximum Constraint** 30

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

## Field Values

-25 Not Applicable

-15 Not Reporting

-5 Not Available

-20 Not Recorded

-10 Not Known

- Relevant Value for Data Element & Patient Care

## 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\_04** Medication Administered Route

**E18\_06** Medication Dosage Units

**E18\_08** Medication Complication

**E18\_10** Medication Authorization

**E01\_01** Patient Care Report Number

**E18\_02** Medication Administered Prior to this Units  
EMS Care

**E18\_05** Medication Dosage

**E18\_07** Response to Medication

**E18\_09** Medication Crew Member ID

**E18\_11** Medication Authorizing Physician

## References in NHTSA Version 1

Essential Element 80 Medication Name

## References to Other Databases

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

# MEDICATION COMPLICATION

E18\_08

**Data Format** [combo] multiple-choice

*National Element*

## Definition

Any complication (abnormal effect on the patient) associated with the administration of the medication to the patient by EMS

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

**XSD Domain (Simple Type)** *MedicationComplication*

**Multiple Entry Configuration** (1) Yes, via structure. (2) Yes **Accepts Null** Yes  
for each E14\_01 Date/Time

**Required in XSD** Yes

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
4390 None	4395 Altered Mental Status
4400 Apnea	4405 Bleeding
4410 Bradycardia	4415 Diarrhea
4420 Extravasation	4425 Hypertension
4430 Hyperthermia	4435 Hypotension
4440 Hypoxia	4445 Injury
4450 Itching/Urticaria	4455 Nausea
4460 Other	4465 Respiratory Distress
4470 Tachycardia	4475 Vomiting

## Uses

- Allows data to be sorted based on medication complication
- Allows data to describe medication complications which occur as a result of EMS treatment
- 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

<b>E00</b> Common Null Values	<b>E01_01</b> Patient Care Report Number
<b>E18_01</b> Date/Time Medication Administered	<b>E18_02</b> Medication Administered Prior to this Units EMS Care
<b>E18_03</b> Medication Given	<b>E18_04</b> Medication Administered Route
<b>E18_05</b> Medication Dosage	<b>E18_06</b> Medication Dosage Units
<b>E18_07</b> Response to Medication	<b>E18_09</b> Medication Crew Member ID
<b>E18_10</b> Medication Authorization	<b>E18_11</b> Medication Authorizing Physician

# ***Intervention/ Procedure***

**Data Format** [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** 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

- Relevant Value for Data Element & Patient Care

**Additional Information**

- List created from Procedures (D04\_04)

**Uses**

- Allows data to be sorted based on the medical treatment
- Allows data to describe the procedures which are performed by EMS
- Part of an EMS Medical Record
- Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Data Collector**

- EMS personnel

**Other Associated Elements**

**E00** Common Null Values

**E01\_01** Patient Care Report Number

**E19\_01** Date/Time Procedure Performed Successfully

**E19\_02** Procedure Performed Prior to this Units EMS Care

**E19\_04** Size of Procedure Equipment

**E19\_05** Number of Procedure Attempts

**E19\_06** Procedure Successful

**E19\_07** Procedure Complication

**E19\_08** Response to Procedure

**E19\_09** Procedure Crew Members ID

**E19\_10** Procedure Authorization

**E19\_11** Procedure Authorizing Physician

**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, Extrication = 13, Intubation (EGTA) = 14, Intubation (ET) = 15, IO/IV Therapy = 16, Medications Therapy = 17, Oxygen Therapy = 18, Obstetrical Care/Delivery = 19, Pre-Arrival Instruction = 20, Restrained Patient = 21, Spinal Immobilization = 22, Splinted Extremities = 23, Suction/Aspirate = 24, Other Procedure = 00, No Treatment = NN
- **UTSTEIN** Arrest after arrival of EMS could be documented by CPR or Defibrillation performed along with the Cardiac Arrest datapoint.; [text] Value or

# NUMBER OF PROCEDURE ATTEMPTS

E19\_05

Data Format [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 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

-15 Not Reporting

-10 Not Known

-5 Not Available

- Relevant Value for Data Element & Patient Care

## 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

**Data Format** [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**

Yes

**Required in XSD** Yes

XSD Structure: Data Elements E19\_01 through E19\_11 are all members of E19\_01\_0 Procedure Structure

**Field Values**

-25 Not Applicable

-15 Not Reporting

-10 Not Known

-5 Not Available

0 No

1 Yes

**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

**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\_05** Number of Procedure Attempts

**E19\_07** Procedure Complication

**E19\_08** Response to Procedure

**E19\_09** Procedure Crew Members ID

**E19\_10** Procedure Authorization

**E19\_11** Procedure Authorizing Physician

# PROCEDURE COMPLICATION

E19\_07

**Data Format** [combo] multiple-choice

*National Element*

## Definition

Any complication associated with the performance of the procedure on the patient

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

**XSD Domain (Simple Type)** *ProcedureComplication*

**Multiple Entry Configuration** (1) Yes, via structure. (2) Yes  
**Accepts Null** Yes  
for each E14\_01 Date/Time

**Required in XSD** Yes

XSD Structure: Data Elements E19\_01 through E19\_11 are all members of E19\_01\_0 Procedure Structure

## Field Values

-25 Not Applicable	-15 Not Reporting
-10 Not Known	-5 Not Available
4500 None	4505 Altered Mental Status
4510 Apnea	4515 Bleeding
4520 Bradycardia	4525 Diarrhea
4530 Esophageal Intubation-immediately	4535 Esophageal Intubation-other
4540 Extravasation	4545 Hypertension
4550 Hyperthermia	4555 Hypotension
4560 Hypoxia	4565 Injury
4570 Itching/Urticaria	4575 Nausea
4580 Other	4585 Respiratory Distress
4590 Tachycardia	4595 Vomiting

## Uses

- Allows data to be sorted based on procedure complication
- Allows data to describe procedure complications which occur as a result of EMS treatment as part of a federal initiative to identify and reduce medical errors
- 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

<b>E00</b> Common Null Values	<b>E01_01</b> Patient Care Report Number
<b>E19_01</b> Date/Time Procedure Performed Successfully	<b>E19_02</b> Procedure Performed Prior to this Units EMS Care
<b>E19_03</b> Procedure	<b>E19_04</b> Size of Procedure Equipment
<b>E19_05</b> Number of Procedure Attempts	<b>E19_06</b> Procedure Successful
<b>E19_08</b> Response to Procedure	<b>E19_09</b> Procedure Crew Members ID
<b>E19_10</b> Procedure Authorization	<b>E19_11</b> Procedure Authorizing Physician

## Section E19 Intervention/ Procedure

Page 143 of 168

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# TUBE CONFIRMATION

E19\_13

**Data** [combo] multiple-choice

## Definition

Endotracheal Tube placement verification at the time the airway procedure was done

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

**XSD Domain (Simple Type)** *TubeConfirmation*

**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

4735 Auscultation of Bilateral Breath Sounds

4740 Colorimetric 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

# DESTINATION CONFIRMATION OF TUBE PLACEMENT

E19\_14

**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	-20 Not Recorded
-15 Not Reporting	-10 Not Known
-5 Not Available	4775 Auscultation of Bilateral Breath Sounds
4780 Colormetric CO2 Detector Confirmation	4785 Digital CO2 Confirmation
4790 Esophageal Bulb Aspiration confirmation	4795 Negative Auscultation of the Epigastrium
4800 Visualization of the Chest Rising with ventilation	4805 Visualization of Tube Passing Through the Cords
4810 Waveform CO2 Confirmation	

## Additional Information

- Associated with Procedure (E19\_03) if Airway Procedure leads to Intubation

## Uses

- Part of an EMS Medical Record
- Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

## Data Collector

- EMS personnel

## Other Associated Elements

**E00**    Common Null Values      **E01\_01**    Patient Care Report Number  
**E19\_03**    Procedure

# *Disposition*

# DESTINATION/TRANSFERRED TO, NAME

E20\_01

**Data Format** [text]

## Definition

The destination the patient was delivered or transferred to

**XSD Data Type** *xs:string*

**XSD Domain (Simple Type)** *DestinationTransferredToID*

**Multiple Entry Configuration** No

**Accepts Null** Yes

**Required in XSD** No

**Minimum Constraint** 2

**Maximum Constraint** 50

## Field Values

-25 Not Applicable

-10 Not Known

-5 Not Available

- Relevant Value for Data Element & Patient Care

## 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

**E01\_01** Patient Care Report Number

**E20\_02** Destination/Transferred To, Code

# DESTINATION/TRANSFERRED TO, CODE

E20\_02

**Data Format** [text]

## Definition

The code of the destination the patient was delivered or transferred to, if present and available

<b>XSD Data Type</b>	<i>xs:string</i>	<b>XSD Domain (Simple Type)</b>	<i>DestinationTransferredToCode</i>
<b>Multiple Entry Configuration</b>	No	<b>Accepts Null</b>	Yes
<b>Required in XSD</b>	No	<b>Minimum Constraint</b>	2
		<b>Maximum Constraint</b>	50

## Field Values

- |                    |  |
|--------------------|--|
| -25 Not Applicable | -10 Not Known                                    |
| -5 Not Available   | • Relevant Value for Data Element & Patient Care |

## 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

<b>E00</b>	Common Null Values	<b>E01_01</b>	Patient Care Report Number
<b>E20_01</b>	Destination/Transferred To, Name		

# DESTINATION STREET ADDRESS

E20\_03

Data Format [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 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

-10 Not Known

-5 Not Available

- Relevant Value for Data Element & Patient Care

## 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

## Section E20 Disposition

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# DESTINATION CITY

E20\_04

**Data Format** [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** 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

-10 Not Known

-5 Not Available

- Relevant Value for Data Element & Patient Care

## 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

## Section E20 Disposition

Page 150 of 168

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# DESTINATION STATE

E20\_05

**Data Format** [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** 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

-10 Not Known

-5 Not Available

- Relevant Value for Data Element & Patient Care

## Additional Information

- 2 digit FIPS numeric code (Not State abbreviation)
- Could be filled in from Destination Zip Code (E20\_07)

## Uses

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

## Data Collector

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

## Other Associated Elements

**E00** Common Null Values

**E01\_01** Patient Care Report Number

**E20\_01** Destination/Transferred To, Name

**E20\_03** Destination Street Address

**E20\_04** Destination City

**E20\_07** Destination Zip Code

## Section E20 Disposition

Page 151 of 168

# DESTINATION ZIP CODE

E20\_07

Data Format [text]

*National Element*

## Definition

The destination zip code in which the patient was delivered or transferred to

XSD Data Type *xs:string*

XSD Domain (Simple Type) *Zip*

Multiple Entry Configuration No

Accepts Null Yes

Required in XSD Yes

Minimum Constraint 2

Maximum Constraint 10

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

- Relevant Value for Data Element & Patient Care

## 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

## Section E20 Disposition

Page 152 of 168

MATRIS Version 1.4 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# DESTINATION GPS LOCATION

E20\_08

**Data Format** [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** No

**Required in XSD** No

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

## Field Values

- Relevant Value for Data Element & Patient Care

## 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

# INCIDENT/PATIENT DISPOSITION

E20\_10

**Data Format** [combo] single-choice

*National Element*

## 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** No

**Required in XSD** Yes

## Field Values

**4815** Cancelled

**4820** Dead at Scene

**4825** No Patient Found

**4830** No Treatment Required

**4835** Patient Refused Care

**4840** Treated and Released

**4845** Treated, Transferred Care

**4850** Treated, Transported by EMS

**4855** Treated, Transported by Law Enforcement

**4860** Treated, Transported by Private Vehicle

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the EMS disposition
- Allows data to describe EMS patient's disposition

## Data Collector

- EMS personnel

## Other Associated Elements

**E01\_01** Patient Care Report Number

## References in NHTSA Version 1

Essential Element 47 Incident/Patient Disposition

## References to Other Databases

- **NFIRS 5.0** EMS Module; Title: Disposition; Pick-List: FD Transport to Emergency Care Facility (ECF) = 1, Non-FD Transport = 2, Non-FD Transport with FD Attendant = 3, Non-Emergency Transfer = 4, Other = O, Not Transported under EMS = N

# TRANSPORT MODE FROM SCENE

E20\_14

**Data Format** [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** 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

4965 Lights and Sirens

4970 No Lights or 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

# REASON FOR CHOOSING DESTINATION

E20\_16

**Data Format** [combo] single-choice

*National Element*

## 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** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-10 Not Known

4990 Closest Facility (none below)

5000 Family Choice

5010 Law Enforcement Choice

5020 Other

5030 Patient's Physicians Choice

5040 Specialty Resource Center

-15 Not Reporting

-5 Not Available

4995 Diversion

5005 Insurance Status

5015 On-Line Medical Direction

5025 Patient Choice

5035 Protocol

## 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 Determinatio

# TYPE OF DESTINATION

E20\_17

**Data Format** [combo] single-choice

*National Element*

## 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** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-15 Not Reporting

-10 Not Known

-5 Not Available

5045 Home

5050 Hospital

5055 Medical Office/Clinic

5060 Morgue

5065 Nursing Home

5070 Other

5075 Other EMS Responder (air)

5080 Other EMS Responder (ground)

5085 Police/Jail

## 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

# *Medical Device Data*

# WAVEFORM GRAPHIC TYPE

E21\_03

**Data** [text]

## Definition

The type of waveform file stored in Waveform Graphic (E21.4)

<b>XSD Data Type</b> <i>xs:integer</i>	<b>XSD Domain (Simple Type)</b> <i>WaveformGraphicType</i>
<b>Multiple Entry Configuration</b> Yes, as associated with E21_01 Date/Time	<b>Accepts Null Values</b> No

## Required in XSD No

XSD Structure: (1) Each element in 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\_02** Medical Device Event Name

**E21\_01** Event Date/Time  
**E21\_04** Waveform Graphic

# WAVEFORM GRAPHIC

E21\_04

**Data** [binary]

## Definition

The graphic waveform file in a PDF or JPG format.

**XSD Data Type** *xs:base64Binary*      **XSD Domain (Simple Type)** *WaveformGraphic*

**Multiple Entry Configuration** Yes, as associated with E21\_01 Date/Time      **Accepts Null Values**No

## Required in XSD No

XSD Structure: (1) Each element in 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

- Relevant Value for Data Element & Patient Care

## 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

**Data Format** [text]

## Definition

The mode of operation the device is operating in during the defibrillation, pacing, or rhythm analysis by the device (if appropriate for the event)

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

**Multiple Entry Configuration**    Yes, via structure                      **Accepts Null**                      No

**Required in XSD** No

XSD Structure: (1) Each element in section E21 is associated with a E21\_01 Date/Time.

## Field Values

- |                         |                        |
|-------------------------|------------------------|
| <b>5210</b> Automated   | <b>5215</b> Manual     |
| <b>5220</b> Advisory    | <b>5225</b> Demand     |
| <b>5230</b> Sensing     | <b>5235</b> Mid-Stream |
| <b>5240</b> Side-Stream |                        |

## Additional Information

- Associated with Event Date/Time (E21\_01) and only if appropriate for the Medical Device Event (E21\_02)

## Uses

- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

## Data Collector

- Medical device and electronically transmitted to the EMS database for further use

## Other Associated Elements

<b>E01_01</b> Patient Care Report Number	<b>E21_01</b> Event Date/Time
<b>E21_02</b> Medical Device Event Name	

# ECG LEAD

E21\_06

**Data Format** [text]

## Definition

The lead or source which the medical device used to obtain the rhythm (if appropriate for the event)

**XSD Data Type** *xs:integer*                      **XSD Domain (Simple Type)** *ECGLead*  
**Multiple Entry Configuration**    Yes, via structure                      **Accepts Null**                      No

**Required in XSD** No

XSD Structure: (1) Each element in section E21 is associated with a E21\_01 Date/Time.

## Field Values

5245 I	5250 II
5255 III	5260 AVR
5265 AVL	5270 AVF
5275 V1	5280 V2
5285 V3	5290 V4
5295 V5	5300 V6
5305 Paddle	

## 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		

**Data** [text]

## Definition

The interpretation of the rhythm by the device (if appropriate for the event)

**XSD Data Type** *xs:string*                      **XSD Domain (Simple Type)** *ECGInterpretation*  
**Multiple Entry Configuration**    Yes, via structure                      **Accepts Null Values**No  
**Required in XSD** No                      **Minimum Constraint** 1                      **Maximum Constraint** 2,000  
XSD Structure: (1) Each element in section E21 is associated with a E21\_01 Date/Time.

## Field Values

- Relevant Value for Data Element & Patient Care

## 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

# *Outcome and Linkage*

# EMERGENCY DEPARTMENT DISPOSITION

E22\_01

**Data Format** [combo] single-choice

*National Element*

## Definition

The known disposition of the patient from the Emergency Department (ED)

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

**XSD Domain (Simple Type)** *EmergencyDepartmentDisposition*

**Multiple Entry Configuration** No

**Accepts Null** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-15 Not Reporting

-10 Not Known

-5 Not Available

5335 Admitted to Hospital Floor

5340 Admitted to Hospital ICU

5345 Death

5350 Not Applicable (Not Transported to ED)

5355 Released

5360 Transferred

## Uses

- Allows data to be sorted based on the EMS patient outcome
- Allows data to describe EMS patient outcome

## Data Collector

- EMS Agency: Could be collected by EMS Administration or electronically provided through linkage with hospital databases

## Other Associated Elements

**E00** Common Null Values

**E01\_01** Patient Care Report Number

# HOSPITAL DISPOSITION

E22\_02

**Data Format** [combo] single-choice

*National Element*

## Definition

Indication of how the patient was dispositioned from the hospital, if admitted.

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

**XSD Domain (Simple Type)** *HospitalDisposition*

**Multiple Entry Configuration** No

**Accepts Null** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-15 Not Reporting

-10 Not Known

-5 Not Available

5365 Death

5370 Discharged

5375 Transfer to Hospital

5380 Transfer to Nursing Home

5385 Transfer to Other

5390 Transfer to Rehabilitation Facility

## Uses

- Allows data to be sorted based on the EMS patient outcome
- Allows data to describe EMS patient outcome

## Data Collector

- EMS Agency: Could be collected by EMS Administration or electronically provided through linkage with hospital databases

## Other Associated Elements

**E00** Common Null Values

**E01\_01** Patient Care Report Number

## References to Other Databases

- **UTSTEIN** Title: Survived Event to ED/ICU; Admitted to ED, Admitted to ICU

# *Miscellaneous*

# SUSPECTED INTENTIONAL, OR UNINTENTIONAL DISASTER

E23\_04

**Data Format** [combo] multiple-choice

## Definition

Suspicion of the listed multi-casualty or domestic terrorism causes.

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

**XSD Domain (Simple Type)** *SuspectedIntentionalOrUnintentionalDisaster*

**Multiple Entry Configuration** Yes

**Accepts Null** Yes

**Required in XSD** No

## Field Values

-25 Not Applicable

-10 Not Known

-5 Not Available

5470 Biologic Agent

5475 Building Failure

5480 Chemical Agent

5485 Explosive Device

5490 Fire

5495 Hostage Event

5500 Mass Gathering

5505 Nuclear Agent

5510 Radioactive Device

5515 Secondary Destructive Device

5520 Shooting/Sniper

5525 Vehicular

5530 Weather

## Uses

- May assist in the tracking and identification of Disaster or Terrorism related events

## Data Collector

- EMS personnel

## Other Associated Elements

**E00** Common Null Values

**E01\_01** Patient Care Report Number

# ***Index to MATRIS***

***Version 1.4***

<b>Data Element</b>	<b>NEMSIS Number</b>	<b>Page</b>
911 Call Volume per Year	D01_14	11
AED, Pacing, or CO2 Mode	E21_05	159
Age	E06_14	64
Age Units	E06_15	66
Airbag Deployment	E10_09	104
Alcohol/Drug Use Indicators	E12_19	118
Any Return of Spontaneous Circulation	E11_06	120
Area of the Vehicle impacted by the collision	E10_05	99
Arrest Witnessed by	E11_04	108
Arrived at Patient Date/Time	E05_07	50
Barriers to Patient Care	E12_01	114
Cardiac Arrest	E11_01	105
Cardiac Arrest Etiology	E11_02	106
Cardiac Rhythm	E14_03	121
Cardiac Rhythm on Arrival at Destination	E11_11	112
Cause of Injury	E10_01	96
Chief Complaint	E09_05	86
Chief Complaint Anatomic Location	E09_11	89
Chief Complaint Organ System	E09_12	90
CMS Service Level	E07_34	69
Complaint Reported by Dispatch	E03_01	40
Condition Code Number	E07_35	70
Crew Member ID	E04_01	43
Crew Member Level	E04_03	44
Current Medications	E12_14	117
Date of Birth	E06_16	69
Date/Time Vital Signs Taken	E14_01	120
DBP (Diastolic Blood Pressure)	E14_05	123
Destination City	E20_04	150
Destination Confirmation of Tube Placement	E19_14	145
Destination Facility Number	D04_14	21
Destination GPS Location	E20_08	153
Destination State	E20_05	151
Destination Street Address	E20_03	149
Destination Type	D04_15	22
Destination Zip Code	E20_07	152
Destination/Transferred To, Code	E20_02	148
Destination/Transferred To, Name	E20_01	147
Duration of Chief Complaint	E09_06	87
ECG Interpretation	E21_07	161
ECG Lead	E21_06	160
EMD Performed	E03_02	41
Emergency Department Disposition	E22_01	163
EMS Agency County	D01_04	4
EMS Agency Number	D01_01	2
EMS Agency Number	E02_01	29
EMS Agency State	D01_03	3
EMS Agency Time Zone	D01_19	15
EMS Dispatch Volume per Year	D01_15	12

<b>Data Element</b>	<b>NEMSIS Number</b>	<b>Page</b>
EMS Patient Contact Volume per Year	D01_17	14
EMS Transport Volume per Year	D01_16	13
EMS Unit Call Sign (Radio Number)	E02_12	37
Ethnicity	E06_13	63
First Monitored Rhythm of the Patient	E11_05	109
Gender	E06_11	61
Glasgow Coma Score-Eye	E14_15	127
Glasgow Coma Score-Motor	E14_17	129
Glasgow Coma Score-Qualifier	E14_18	130
Glasgow Coma Score-Verbal	E14_16	128
Hospital Disposition	E22_02	166
Incident Address	E08_11	77
Incident City	E08_12	78
Incident Location Type	E08_07	75
Incident State	E08_14	79
Incident ZIP Code	E08_15	80
Incident/Patient Disposition	E20_10	154
Level of Responsiveness	E14_22	132
Level of Service	D01_07	5
Mass Casualty Incident	E08_06	74
Mechanism of Injury	E10_03	97
Medical/Surgical History	E12_10	117
Medication Allergies	E12_08	115
Medication Complication	E18_08	138
Medication Given	E18_03	137
Medications Given	D04_06	20
National Provider Identifier	D01_21	16
Number of Patients at Scene	E08_05	73
Number of Procedure Attempts	E19_05	141
Organization Status	D01_09	7
Organizational Type	D01_08	6
Other Associated Symptoms	E09_14	92
Outcome of the Prior Aid	E09_03	84
Patient Arrived at Destination Date/Time	E05_10	53
Patient Care Report Number	E01_01	24
Patient's Home Address	E06_04	57
Patient's Home City	E06_05	58
Patient's Home State	E06_07	59
Patient's Home Zip Code	E06_08	60
Position of Patient in the Seat of the Vehicle	E10_07	101
Possible Injury	E09_04	85
Primary Method of Payment	E07_01	68
Primary Role of the Unit	E02_05	31
Primary Symptom	E09_13	91
Prior Aid	E09_01	82
Prior Aid Performed by	E09_02	83
Procedure	E19_03	140
Procedure Complication	E19_07	143
Procedure Successful	E19_06	142
Procedures	D04_04	18

<b>Data Element</b>	<b>NEMSIS Number</b>	<b>Page</b>
Provider's Primary Impression	E09_15	93
Provider's Secondary Impression	E09_16	94
PSAP Call Date/Time	E05_02	46
Pulse Oximetry	E14_09	125
Pulse Rate	E14_07	124
Race	E06_12	62
Reason CPR Discontinued	E11_10	111
Reason for Choosing Destination	E20_16	157
Respiratory Rate	E14_11	127
Response Mode to Scene	E02_20	38
Resuscitation Attempted	E11_03	107
Revised Trauma Score	E14_27	135
SBP (Systolic Blood Pressure)	E14_04	122
Scene GPS Location	E08_10	73
Seat Row Location of Patient in Vehicle	E10_06	97
Software Creator	E01_02	25
Software Name	E01_03	26
Software Version	E01_04	27
Statistical Year	D01_10	8
Stroke Scale	E14_24	134
Suspected Intentional, or Unintentional Disaster	E23_04	166
Time Units of Duration of Chief Complaint	E09_07	88
Total Glasgow Coma Score	E14_19	131
Total Service Area Population	D01_13	10
Total Service Size Area	D01_12	9
Transfer of Patient Care Date/Time	E05_08	48
Transport Mode from Scene	E20_14	155
Tube Confirmation	E19_13	144
Type of Destination	E20_17	158
Type of Dispatch Delay	E02_06	32
Type of Response Delay	E02_07	33
Type of Scene Delay	E02_08	34
Type of Service Requested	E02_04	30
Type of Transport Delay	E02_09	35
Type of Turn-Around Delay	E02_10	36
Unit Arrived on Scene Date/Time	E05_06	49
Unit Back at Home Location Date/Time	E05_13	55
Unit Back in Service Date/Time	E05_11	54
Unit En Route Date/Time	E05_05	48
Unit Left Scene Date/Time	E05_09	52
Unit Notified by Dispatch Date/Time	E05_04	47
Use of Occupant Safety Equipment	E10_08	102
Vehicular Injury Indicators	E10_04	98

