

# MASSACHUSETTS AMBULANCE TRIP RECORD INFORMATION SYSTEM (MATRIS)

Effective October 7, 2013  
**MATRIS Version 1.6**

*(Supersedes Version 1.5 Effective December 15, 2010, Version 1.4, Effective March 19, 2009 and Version 1.3, Effective May 1, 2008)*

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 1.6 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addition of two data elements: Crew Member ID (E04\_01) and Crew Member Level (E04\_03) supersedes Version 1.3 which superseded Version 1.2 with the addition of two data elements: Tube Confirmation (E19\_13) and Destination Confirmation of Tube Placement (E19\_14).)*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 1.6

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# ***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

## Section D01 Agency General Information

MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

**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

## **Section D01**      **Agency General Information**

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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** Basic      **6100** Intermediate  
**6110** Paramedic      **6111** Critical Care

## 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

## Section D01      Agency General Information

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

## **Section D01**      **Agency General Information**

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

## **Section D01 Agency General Information**

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

**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

## **Section D01 Agency General Information**

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

## Section D01 Agency General Information

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

**D01\_01** EMS Agency Number

**D01\_10** Statistical Year

**D01\_12** Total Service Size Area

**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

## Section D01 Agency General Information

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

## Section D01 Agency General Information

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

## Section D01 Agency General Information

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

## Section D01 Agency General Information

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

## Section D01 Agency General Information

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# EMS AGENCY TIME ZONE

D01\_19

**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

## Section D01 Agency General Information

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# NATIONAL PROVIDER IDENTIFIER

D01\_21

**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

-20 Not Recorded

## 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

## Section D01 Agency General Information

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# ***Agency Configuration Information***

# PROCEDURES

D04\_04

Data [combo] multiple-choice

## Definition

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

**XSD Data Type** *xs:decimal* **XSD Domain (Simple Type)** *DemographicProcedure*  
**Multiple Entry Configuration** Yes, via structure **Accepts Null Values** No  
**Required in XSD** No **Minimum Constraint** 0 **Maximum Constraint** 1,000  
XSD Structure: D04\_04 and D04\_05 are members of D04\_04\_0 Demographic Procedure Structure

## Field Values

12 Lead ECG-Obtain	89.820	CPR-Start Rescue Breathing without Compressions	99.612
12 Lead ECG-Transmitted	89.821	CPR-Stop	99.615
Activation-Advanced Hazmat Specialty Service/Response Team	101.201	Decontamination	86.280
Activation-Fire Rehabilitation Specialty Service/Response Team	101.202	Defibrillation-Automated (AED)	99.621
Activation-Other Specialty Service/Response Team	101.203	Defibrillation-Manual	99.622
Activation-Rescue Specialty Service/Response Team	101.204	Defibrillation-Placement for Monitoring/Analysis	99.625
Activation-Social Services Notification/Referral	101.205	Escharotomy	86.090
Activation-Tactical or SWAT Specialty Service/Response Team	101.206	Extrication	100.200
Airway-Bagged (via BVMask)	93.931	Gastric Tube Insertion-Inserted Nasally	96.070
Airway-Bagged (via tube)	93.930	Gastric Tube Insertion-Inserted Orally	96.071
Airway-BiPAP	96.702	Injections-SQ/IM	99.290
Airway-Change Tracheostomy Tube	97.230	Intra-Aortic Balloon Pump Maintenance	37.611
Airway-Cleared, Opened, or Heimlich	98.130	Joint Reduction/Relocation	79.700
Airway-Combitube Blind Insertion Airway Device	96.051	Left Ventricular Assist Device Maintenance	37.612
Airway-CPAP	93.900	MAST	93.580
Airway-Direct Laryngoscopy	31.420	Orthostatic Blood Pressure Measurement	89.590
Airway-EOA/EGTA	96.030	Pain Measurement	89.702
Airway-Extubation	96.993	Patient Cooling (Cold Pack, etc.)	99.810
Airway-Foreign Body Removal	98.131	Patient Cooling-Post Resuscitation	99.811
Airway-Impedance Threshold Device	96.703	Patient Loaded	100.300
Airway-Intubation Confirm Colorimetric ETCO2	96.991	Patient Loaded-Helicopter Hot-Load	100.301
Airway-Intubation Confirm Esophageal Bulb	96.992	Patient Monitoring of Pre-existing Devices, Equipment, or Ongoing Medications	89.599
Airway-Intubation of Existing Tracheostomy Stoma	97.231	Patient Off-Loaded	100.302
Airway-King LT Blind Insertion Airway Device	96.053	Patient Off-Loaded Helicopter Hot Off-Load	100.303
Airway-Laryngeal Mask Blind Insertion Airway Device	96.052	Patient Warming (Hot Pack, etc.)	93.350
Airway-Nasal	96.010	Pericardiocentesis	37.000
Airway-Nasotracheal Intubation	96.041	Pulse Oximetry	89.392
Airway-Nebulizer Treatment	93.940	Rescue	100.100
Airway-Needle Cricothyrotomy	31.110	Restraints-Pharmacological	99.841
Airway-Oral	96.020	Restraints-Physical	99.842
Airway-Orotracheal Intubation	96.040	Specialty Center Activation-Adult Trauma	101.101
Airway-PEEP	96.790	Specialty Center Activation-Cardiac Arrest	101.103
Airway-Rapid Sequence Intubation	96.042	Specialty Center Activation-Pediatric Trauma	101.102
Airway-Respirator Operation (BLS)	93.910	Specialty Center Activation-STEMI	101.104

Airway-Suctioning	98.150	Specialty Center Activation-Stroke	101.105
Airway-Surgical Cricothyrotomy	31.120	Spinal Immobilization	93.591
Airway-Ventilator Operation	96.700	Splinting-Basic	93.540
Airway-Ventilator with PEEP	96.701	Splinting-Traction	93.450
Airway-Video Laryngoscopy	31.421	Temperature Measurement	89.703
Arterial Access-Blood Draw	38.910	Thrombolytic Screen	89.704
Arterial Line Maintenance	89.610	Urinary Catheterization	57.940
Assessment-Adult	89.700	Vagal Maneuver-Carotid Massage	99.640
Assessment-Pediatric	89.701	Vagal Maneuver-Valsalva or Other Vagal Maneuver (Not Carotid Massage)	99.641
Blood Glucose Analysis	38.995	Venous Access-Blood Draw	38.990
Capnography (CO2 Measurement)	89.391	Venous Access-Central Line Maintenance	89.620
Cardiac Monitor	89.510	Venous Access-Discontinue	39.997
Cardiac Pacing-External	99.624	Venous Access-Existing Catheter	38.991
Cardiac Pacing-Transvenous	99.626	Venous Access-External Jugular Line	38.993
Cardioversion	99.623	Venous Access-Extremity	38.992
Chest Decompression	34.041	Venous Access-Femoral Line	38.994
Chest Tube Placement	34.042	Venous Access-Internal Jugular Line	39.995
Childbirth	73.590	Venous Access-Intraosseous Adult	41.920
CNS Catheter-Epidural Maintenance	1.181	Venous Access-Intraosseous Pediatric	41.921
CNS Catheter-Intraventricular Maintenance	1.182	Venous Access-Subclavian Line	39.996
Contact Medical Control	101.500	Venous Access-Swan Ganz Maintenance	89.640
CPR by Other External Automated Device	99.601	Venous Access-Umbilical Vein Cannulation	39.998
CPR-AutoPulse Device	99.602	Wound Care-General	93.057
CPR-Mechanical Thumper Type Device	99.603	Wound Care-Hemostatic Agent	93.059
CPR-Precordial Thump Only	99.604	Wound Care-Irrigation	93.058
CPR-Start Compressions and Ventilations	99.600	Wound Care-Taser Barb Removal	93.055
CPR-Start Compressions only without Ventilation	99.611	Wound Care-Tourniquet	93.056

### 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

**Section D04 Agency Configuration Information**

*2006 NHTSA Uniform PreHospital Dataset V.2.2.1*

# 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

## Section D04 Agency Configuration Information

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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.

-15 Not Reporting

-25 Not Applicable

-20 Not Recorded

## Additional Information

- Multiple entry configuration to create a list box for Incident Facility Code (E8\_08) and Destination Transferred to Code (E20\_02)
- This field could also provide linkage to Other Destinations (D04\_13) which would allow a list box of Other Destination Names to be used instead of entering the Code directly

## Uses

- Allows data to be sorted or grouped based on the EMS transports destination type
- Could be used to create a list box (along with D04\_12) for Incident Facility Code (E08\_08) and Destination Transferred to Code (E20\_02)

## Data Collector

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

## Other Associated Elements

**D01\_01** EMS Agency Number

**D04\_13** Other Destinations

**D04\_15** Destination Type

**E00** Common Null Values

## Section D04 Agency Configuration Information

MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# 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

## Section D04 Agency Configuration Information

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# ***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

## Section E01 Record Information

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

**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

## **Section E01 Record Information**

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

## **Section E01 Record Information**

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

## Section E01 Record Information

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# ***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

## Section E02 Unit/ Agency Information

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# INCIDENT NUMBER

E02\_02

**Data** [text]

## Definition

The incident number assigned by the 911 Dispatch System.

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

**XSD Domain (Simple Type)** *IncidentNumber*

**Multiple Entry Configuration** No

**Accepts Null** Yes

**Required in XSD** No

**Minimum Constraint** 2 **Maximum Constraint** 15

## Field Values

-25 Not Applicable

-15 Not Reporting

-20 Not Recorded

## Uses

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

## Data Collector

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

## Other Associated Elements

E00 Common Null Values E01\_01 Patient Care Report Number

## References in NHTSA Version 1

Essential Element 21 Incident Number

## References to Other Databases

- NFIRS 5.0 EMS Module; Title: Incident Number; Unique number for each Incident

## Section E02 Unit/ Agency Information

MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# 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

## Section E02 Unit/ Agency Information

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# PRIMARY ROLE OF THE UNIT

E02\_05

**Data** [combo] single-choice

*National Element*

## Definition

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

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

**XSD Domain (Simple Type)** *PrimaryRollOfTheUnit*

**Multiple Entry Configuration** No

**Accepts Null Values** 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

## Section E02 Unit/ Agency Information

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

-20 Not Recorded

85 High Call Volume

95 Location (Inability to Obtain)

105 None

115 Scene Safety (Not Secure for EMS)

-15 Not Reporting

80 Caller (Uncooperative)

90 Language Barrier

100 No Units Available

110 Other

120 Technical Failure (Computer, Phone, etc.)

## Uses

- Allows data to describe the status of Dispatch issues

## Data Collector

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

## Other Associated Elements

**E00** Common Null Values

**E01\_01** Patient Care Report Number

## References in NHTSA Version 1

Desirable Element 56 Factors Affecting EMS Delivery of Care

## Section E02 Unit/ Agency Information

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# TYPE OF RESPONSE DELAY

E02\_07

**Data** [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 Values** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-15 Not Reporting

-5 Not Available

130 Directions

140 Diversion

150 None

160 Safety

170 Traffic

180 Vehicle Failure

-20 Not Recorded

-10 Not Known

125 Crowd

135 Distance

145 HazMat

155 Other

165 Staff Delay

175 Vehicle Crash

185 Weather

## 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

## Section E02 Unit/ Agency Information

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# TYPE OF SCENE DELAY

E02\_08

**Data** [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 Values** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-15 Not Reporting

-5 Not Available

195 Directions

205 Diversion

215 HazMat

225 None

235 Safety

245 Traffic

255 Vehicle Failure

-20 Not Recorded

-10 Not Known

190 Crowd

200 Distance

210 Extrication >20 min.

220 Language Barrier

230 Other

240 Staff Delay

250 Vehicle Crash

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

## **Section E02 Unit/ Agency Information**

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# TYPE OF TRANSPORT DELAY

E02\_09

**Data** [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 Values** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-15 Not Reporting

-5 Not Available

270 Directions

280 Diversion

290 None

300 Safety

310 Traffic

320 Vehicle Failure

-20 Not Recorded

-10 Not Known

265 Crowd

275 Distance

285 HazMat

295 Other

305 Staff Delay

315 Vehicle Crash

325 Weather

## 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

## Section E02 Unit/ Agency Information

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

-20 Not Recorded

335 Decontamination

345 ED Overcrowding

355 Equipment Replenishment

365 Other

375 Vehicle Failure

-15 Not Reporting

330 Clean-up

340 Documentation

350 Equipment Failure

360 None

370 Staff Delay

## 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

## Section E02 Unit/ Agency Information

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

## Section E02 Unit/ Agency Information

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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  
**390** Lights and Sirens

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

## Uses

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

## Data Collector

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

## Other Associated Elements

**E01\_01** Patient Care Report Number

## References in NHTSA Version 1

Essential Element 19 Lights and Sirens to Scene

## **Section E02 Unit/ Agency Information**

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# ***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

-20 Not Recorded

400 Abdominal Pain

410 Animal Bite

420 Back Pain (Non-Traumatic)

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/Transportation Accident

550 Unconscious/Fainting

560 Transfer/Interfacility/Palliative Care

-15 Not Reporting

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

## Section E03 Unit/ Call Information

MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# 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

-20 Not Recorded

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

## **Section E03 Unit/ Call Information**

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# ***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

## 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

## Section E04 Unit/ Personnel Information

MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# CREW MEMBER ROLE

E04\_02

**Data** [combo] single-choice

## Definition

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

**XSD Data Type** *xs:integer*      **XSD Domain (Simple Type)** *CrewMemberRole*  
**Multiple Entry Configuration** Yes, via structure      **Accepts Null Values** Yes  
**Required in XSD** No      **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	580 Driver/Pilot
585 Primary Patient Caregiver	590 Secondary Patient Caregiver
595 Third Patient Caregiver	600 Other

## 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_01	Crew Member ID	E04_03	Crew Member Level

## Section E04 Unit/ Personnel Information

MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# CREW MEMBER LEVEL

E04\_03

**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

## Section E04 Unit/ Personnel Information

MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

***Section E05***

***Times***

***Section E05 Times***

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# INCIDENT OR ONSET DATE/TIME

E05\_01

**Data Format** [date/time]

*National Element*

## Definition

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

**XSD Data Type** xs:dateTime

**XSD Domain (Simple Type)** DateTime

**Multiple Entry Configuration** No

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

**Required in XSD** No

**Minimum Constraint** 1,990

**Maximum Constraint** 2,030

## Field Values

## Additional Information

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

## Uses

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

## Data Collector

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

## Other Associated Elements

E01\_01 Patient Care Report Number

## References in NHTSA Version 1

Desirable Element 06 Onset Date

Desirable Element 07 Onset Time

## References to Other Databases

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

## Section E05 Times

MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# 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

## Section E05 Times

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

## Section E05 Times

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

## Section E05 Times

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

## Section E05 Times

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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.

## **Section E05 Times**

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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.

## Section E05 Times

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

## Section E05 Times

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

## Section E05 Times

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

## Section E05 Times

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

## Section E05 Times

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# ***Patient***

**Section E06 Patient**

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

-20 Not Recorded

-15 Not Reporting

- 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

## Section E06 Patient

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

-20 Not Recorded

-15 Not Reporting

- 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

## Section E06 Patient

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

-20 Not Recorded

-15 Not Reporting

- 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

## Section E06 Patient

MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# 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

-20 Not Recorded

-15 Not Reporting

- 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

## Section E06 Patient

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

-20 Not Recorded

-15 Not Reporting

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

## Section E06 Patient

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# RACE

E06\_12

**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

-20 Not Recorded

-15 Not Reporting

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

## Section E06 Patient

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

-20 Not Recorded

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

## Section E06 Patient

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# AGE

E06\_14

**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.

## Section E06 Patient

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

-20 Not Recorded

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

## Section E06 Patient

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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.

## Section E06 Patient

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# ***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

-20 Not Recorded

725 Medicaid

735 Not Billed (for any reason)

745 Self Pay

-15 Not Reporting

720 Insurance

730 Medicare

740 Other Government

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

## Section E07 Billing

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# CMS SERVICE LEVEL

E07\_34

**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

-15 Not Reporting

-20 Not Recorded

990 BLS

995 BLS, Emergency

1000 ALS, Level 1

1005 ALS, Level 1 Emergency

1010 ALS, Level 2

1015 Paramedic Intercept

1020 Specialty Care Transport

1025 Fixed Wing (Airplane)

1030 Rotary Wing (Helicopter)

## 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

## Section E07 Billing

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# CONDITION CODE NUMBER

E07\_35

**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  |
| -20 Not Recorded  |  |
| 8001 Severe Abdominal Pain (ALS-789.00)                                     | 8002 Abdominal Pain (ALS-789.00)                                       |
| 8003 Abnormal Cardiac Rhythm/Cardiac Dysrhythmia (ALS-427.9)                | 8004 Abnormal Skin Signs (ALS-780.8)                                   |
| 8005 Abnormal Vital Signs (ALS-796.4)                                       | 8006 Allergic Reaction (ALS-995.0)                                     |
| 8007 Allergic Reaction (BLS-692.9)  | 8008 Blood Glucose (ALS-790.21)  |
| 8009 Respiratory Arrest (ALS-799.1)   | 8010 Difficulty Breathing (ALS-786.05)                                 |
| 8011 Cardiac Arrest-Resuscitation in Progress (ALS-427.5)                   | 8012 Chest Pain (non-traumatic) (ALS-786.50)                           |
| 8013 Choking Episode (ALS-784.9)  | 8014 Cold Exposure (ALS-991.6)   |
| 8015 Cold Exposure (BLS-991.9)  | 8016 Altered Level of Consciousness (non-traumatic) (ALS-780.01)       |
| 8017 Convulsions/Seizures (ALS-780.39)                                      | 8018 Eye Symptoms (non-traumatic) (BLS-379.90)                         |
| 8019 Non Traumatic Headache (ALS-437.9)                                     | 8020 Cardiac Symptoms other than Chest Pain (palpitations) (ALS-785.1) |
| 8021 Cardiac Symptoms other than Chest Pain (atypical pain) (ALS-536.2)     | 8022 Heat Exposure (ALS-992.5)   |
| 8023 Heat Exposure (BLS-992.2)  | 8024 Hemorrhage (ALS-459.0)  |
| 8025 Infectious Diseases requiring Isolation/Public Health Risk (BLS-038.9) | 8026 Hazmat Exposure (ALS-987.9)                                       |
| 8027 Medical Device Failure (ALS-996.0)                                     | 8028 Medical Device Failure (BLS-996.3)                                |
| 8029 Neurologic Distress (ALS-436.0)  | 8030 Pain (Severe) (ALS-780.99)  |
| 8031 Back Pain (non-traumatic possible cardiac or vascular) (ALS-724.5)     | 8032 Back Pain (non-traumatic with neurologic symptoms) (ALS-724.9)    |
| 8033 Poisons (all routes) (ALS-977.9)                                       | 8034 Alcohol Intoxication or Drug Overdose (BLS-305.0)                 |
| 8035 Severe Alcohol Intoxication (ALS-977.3)                                | 8036 Post-Operative Procedure Complications (BLS-998.9)                |
| 8037 Pregnancy Complication/Childbirth/Labor (ALS-650.0)                    | 8038 Psychiatric/Behavioral (abnormal mental status) (ALS-292.9)       |
| 8039 Psychiatric/Behavioral (threat to self or others) (BLS-298.9)          | 8040 Sick Person-Fever (BLS-036.9)                                     |
| 8041 Severe Dehydration (ALS-787.01)  | 8042 Unconscious/Syncope/Dizziness (ALS-780.02)                        |
| 8043 Major Trauma (ALS-959.8)   | 8044 Other Trauma (need for monitor or airway) (ALS-518.5)             |
| 8045 Other Trauma (major bleeding) (ALS-958.2)                              | 8046 Other Trauma (fracture/dislocation) (BLS-829.0)                   |
| 8047 Other Trauma (penetrating extremity) (BLS-880.0)                       | 8048 Other Trauma (amputation digits) (BLS-886.0)                      |
| 8049 Other Trauma (amputation other) (ALS-887.4)                            | 8050 Other Trauma (suspected internal injuries) (ALS-869.0)            |
| 8051 Burns-Major (ALS-949.3)  | 8052 Burns-Minor (BLS-949.2)   |
| 8053 Animal Bites/Sting/Envenomation (ALS-989.5)                            | 8054 Animal Bites/Sting/Envenomation (BLS-879.8)                       |
| 8055 Lightning (ALS-994.0)  | 8056 Electrocution (ALS-994.8)   |

## Section E07 Billing

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

- 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

## Section E07 Billing

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# ***Scene***

***Section E08 Scene***

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

-20 Not Recorded

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.

## Section E08 Scene

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

-20 Not Recorded

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

## Section E08 Scene

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

-20 Not Recorded

1140 Farm

1145 Mine or Quarry

1155 Place of Recreation or Sport

1165 Public Building (schools, gov. offices)

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

1185 Lake, River, Ocean

-15 Not Reporting

1135 Home/Residence

1150 Industrial Place and Premises

1160 Street or Highway

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

1180 Residential Institution (Nursing Home, jail/prison)

1190 Other Location

## 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

## Section E08 Scene

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# SCENE GPS LOCATION

E08\_10

**Data Format** [text]

## Definition

The GPS coordinates associated with the Scene.

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

## Data Collector

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

## Other Associated Elements

**E01\_01** Patient Care Report Number                                      **E08\_07** Incident Location Type

## Section E08 Scene

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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
- 20 Not Recorded
- 15 Not Reporting
  - 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

## Section E08 Scene

MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

**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

-20 Not Recorded

-15 Not Reporting

- 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

**E08\_07** Incident Location Type

**E08\_14** Incident State

**E01\_01** Patient Care Report Number

**E08\_11** Incident Address

**E08\_15** Incident ZIP Code

## References in NHTSA Version 1

Essential Element 02 Incident City

## Section E08 Scene

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# INCIDENT STATE

E08\_14

**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

-15 Not Reporting

-20 Not Recorded

- 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

## Section E08 Scene

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

-20 Not Recorded

- 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

## Section E08 Scene

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# ***Situation***

# PRIOR AID

E09\_01

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

*National Element*

## Definition

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

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

**XSD Domain (Simple Type)** *PriorAid*

**Multiple Entry Configuration** Yes

**Accepts Null** Yes

**Required in XSD** Yes

**Minimum Constraint** 2

**Maximum Constraint** 30

## Field Values

-25 Not Applicable

-15 Not Reporting

-20 Not Recorded • Relevant Value for Data Element & Patient Care

## Additional Information

- List created from Procedures (D04\_04) and Medications (D04\_06)

## Uses

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

## Data Collector

- EMS personnel

## Other Associated Elements

E00 Common Null Values

E01\_01 Patient Care Report Number

## References in NHTSA Version 1

Desirable Element 58 Time of First CPR

## References to Other Databases

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

## Section E09 Situation

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

-20 Not Recorded

1195 EMS Provider

1200 First Responder

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 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

-20 Not Recorded

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 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

-20 Not Recorded

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

## Section E09 Situation

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# CHIEF COMPLAINT

E09\_05

**Data** [text]

## Definition

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

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

**XSD Domain (Simple Type)** *ChiefComplaintNarrative*

**Multiple Entry Configuration** No

**Accepts Null Values** Yes

**Required in XSD** No

**Minimum Constraint** 2

**Maximum Constraint** 50

## Field Values

-25 Not Applicable

-15 Not Reporting

-20 Not Recorded

- 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

## Section E09 Situation

MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# 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

## Section E09 Situation

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

**1240** Minutes

**1245** Hours

**1250** Days

**1255** Weeks

**1260** Months

**1265** Years

- 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\_06** Duration of Chief Complaint

## Section E09 Situation

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

-20 Not Recorded

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 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

-20 Not Recorded

1355 CNS/Neuro

1360 Endocrine/Metabolic

1370 Global

1380 OB/Gyn

1390 Pulmonary

1400 Skin

-15 Not Reporting

1350 Cardiovascular

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 1.6 (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
-20 Not Recorded	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

## Section E09 Situation

MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# 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

-20 Not Recorded

1515 Breathing Problem

1520 Change in responsiveness

1530 Obvious Signs of Death

1540 Diarrhea

1550 Fever

1560 Mass/Lesion

1570 Nausea/Vomiting

1580 Pain

1590 Rash/Itching

1600 Transport Only

1610 Wound

-15 Not Reporting

1510 Bleeding

1525 Choking

1535 Device/Equipment Problem

1545 Drainage/Discharge

1555 Malaise

1565 Mental/Psych

1575 None

1585 Palpitations

1595 Swelling

1605 Weakness

## 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

## Section E09 Situation

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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
-20	Not Recorded	1615	789.00- Abdominal pain / problems
1620	519.80- Airway obstruction	1630	780.09- Altered level of consciousness
1625	995.30- Allergic reaction	1640	427.50- Cardiac arrest
1635	312.90- Behavioral / psychiatric disorder	1650	786.50- Chest pain / discomfort
1645	427.90- Cardiac rhythm disturbance	1660	994.80- Electrocutation
1655	250.90- Diabetic symptoms (hypoglycemia)	1670	780.90- Hypothermia
1665	780.60- Hyperthermia	1680	987.90- Inhalation injury (toxic gas)
1675	785.59- Hypovolemia / shock	1690	977.90- Poisoning / drug ingestion
1685	798.99- Obvious Signs of Death	1700	786.09- Respiratory distress
1695	659.90- Pregnancy / OB delivery	1710	780.30- Seizure
1705	799.10- Respiratory arrest	1720	987.90- Smoke inhalation
1715	959.90- Sexual assault / rape	1730	436.00- Stroke / CVA
1725	989.50- Stings / venomous bites	1740	959.90- Traumatic injury
1735	780.20- Syncope / fainting		
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

MATRIS Version 1.6 (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

-20 Not Recorded

1620 519.80- Airway obstruction

1625 995.30- Allergic reaction

1635 312.90- Behavioral / psychiatric disorder

1645 427.90- Cardiac rhythm disturbance

1655 250.90- Diabetic symptoms (hypoglycemia)

1665 780.60- Hyperthermia

1675 785.59- Hypovolemia / shock

1685 798.99- Obvious Signs of Death

1695 659.90- Pregnancy / OB delivery

1705 799.10- Respiratory arrest

1715 959.90- Sexual assault / rape

1725 989.50- Stings / venomous bites

1735 780.20- Syncope / fainting

1745 623.80- Vaginal hemorrhage

-15 Not Reporting

1615 789.00- Abdominal pain / problems

1630 780.09- Altered level of consciousness

1640 427.50- Cardiac arrest

1650 786.50- Chest pain / discomfort

1660 994.80- Electrocution

1670 780.90- Hypothermia

1680 987.90- Inhalation injury (toxic gas)

1690 977.90- Poisoning / drug ingestion

1700 786.09- Respiratory distress

1710 780.30- Seizure

1720 987.90- Smoke inhalation

1730 436.00- Stroke / CVA

1740 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

## Section E09 Situation

MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# ***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
-20	Not Recorded	9500	Aircraft related accident (E84X.0)
9505	Bicycle Accident (E826.0)	9515	Chemical poisoning (E86X.0)
9510	Bites (E906.0)	9525	Drowning (E910.0)
9520	Child battering (E967.0)	9535	Electrocution (non-lightning) (E925.0)
9530	Drug poisoning (E85X.0)	9545	Excessive Heat (E900.0)
9540	Excessive Cold (E901.0)	9555	Fire and Flames (E89X.0)
9550	Falls (E88X.0)	9565	Firearm injury (accidental) (E985.0)
9560	Firearm assault (E965.0)	9575	Lightning (E907.0)
9570	Firearm self inflicted (E955.0)	9585	Mechanical Suffocation (E913.0)
9580	Machinery accidents (E919.0)	9595	Motor Vehicle traffic accident (E81X.0)
9590	Motor Vehicle non-traffic accident (E82X.0)	9605	Non-Motorized Vehicle Accident (E848.0)
9600	Motorcycle Accident (E81X.1)	9615	Radiation exposure (E926.0)
9610	Pedestrian traffic accident (E814.0)	9625	Smoke Inhalation (E89X.2)
9620	Rape (E960.1)	9635	Stabbing/Cutting Assault (E966.0)
9630	Stabbing/Cutting Accidental (E986.0)	9645	Venomous stings (plants, animals) (E905.0)
9640	Struck by Blunt/Thrown Object (E968.2)		
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, E explosives - 21, Fire and Flames - 22, Firearm = 23, Fireworks = 25, Lightning = 26, Machinery = 27, Mechanical Suffocation = 28, Motor Vehicle Accident = 29, Motor Vehicle Accident, Pedestrian = 30, Non-Traffic Vehicle (off road) Accident = 31, Physical Assault/Abuse = 32, Scalds/Other Thermal = 33, Smoke Inhalation = 34, Stabbing Assault = 35, Venomous Sting = 36, Water Transport = 37, Other Cause of Injury/Illness = 00, Unknown Cause of Injury/Illness = UU

## Section E10 Situation/ Trauma

*MATRIS Version 1.6 (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	-15 Not Reporting
-20 Not Recorded	2035 Blunt
2040 Burn	2045 Other
2050 Penetrating	

## Additional Information

- Complete only if Possible Injury (E09\_04) is “Yes”

## Uses

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

## Data Collector

- EMS personnel if Possible Injury (E09\_04) is answered Yes

## Other Associated Elements

E00 Common Null Values	E01_01 Patient Care Report Number
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## Section E10 Situation/ Trauma

MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# 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

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

## Field Values

-25 Not Applicable	-15 Not Reporting
-20 Not Recorded	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

<b>E00</b> Common Null Values	<b>E01_01</b> Patient Care Report Number
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## Section E10 Situation/ Trauma

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

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

## Field Values

-25 Not Applicable	-15 Not Reporting
-20 Not Recorded	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

<b>E00</b> Common Null Values	<b>E01_01</b> Patient Care Report Number
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## Section E10 Situation/ Trauma

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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"
- MATRIS Runform field contains 1-50

## 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

## Section E10 Situation/ Trauma

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

-20 Not Recorded

2175 Eye Protection

2185 Lap Belt

2190 Other

2200 Protective Clothing

2210 Shoulder Belt

-15 Not Reporting

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

## Section E10 Situation/ Trauma

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

-20 Not Recorded

2220 No Airbag Deployed

2230 Airbag Deployed Side

-15 Not Reporting

2215 No Airbag Present

2225 Airbag Deployed Front

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

## Section E10 Situation/ Trauma

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# ***Situation/ CPR***

**Section E11 Situation/ CPR**

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

-20 Not Recorded

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

## Section E11 Situation/ CPR

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

-20 Not Recorded

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

## Section E11 Situation/ CPR

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

-20 Not Recorded

2280 Attempted Defibrillation

2285 Attempted Ventilation

2290 Initiated Chest Compressions

2295 Not Attempted - Obvious Signs of Death

2300 Not Attempted-Comfort Care or MOLST

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

## Section E11 Situation/ CPR

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

-25 Not Applicable	-15 Not Reporting
-20 Not Recorded	2310 Witnessed by Healthcare Provider
2315 Witnessed by Lay Person	2320 Not Witnessed

## Additional Information

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

## Uses

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

## Data Collector

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

## Other Associated Elements

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

## References in NHTSA Version 1

Desirable    Element    62      Witness of Cardiac Arrest

## References to Other Databases

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

## Section E11    Situation/ CPR

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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	-15	Not Reporting
-20	Not Recorded	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

## Section E11 Situation/ CPR

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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	-15 Not Reporting
-20 Not Recorded	2380 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

## Section E11 Situation/ CPR

MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# 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

-15 Not Reporting

-20 Not Recorded

2430 Comfort Care or MOLST

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

## Section E11 Situation/ CPR

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

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

## Section E11    Situation/ CPR

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# ***Medical History***

**Section E12 Medical History**

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

-20 Not Recorded

2605 Hearing Impaired

2610 Language

2620 Physically Impaired

2630 Speech Impaired

2640 Unconscious

-15 Not Reporting

2600 Developmentally Impaired

2615 None

2625 Physically Restrained

2635 Unattended or Unsupervised (including minors)

## 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

## Section E12 Medical History

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

## 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

**E06\_01** Last Name

## Section E12 Medical History

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

-15 Not Reporting

-20 Not Recorded

- Relevant Value for Data Element & Patient Care

A list is available from OEMS

## 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

## Section E12 Medical History

MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# 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  
A list is available from OEMS

## 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

## Section E12 Medical History

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# ALCOHOL/DRUG USE INDICATORS

E12\_19

**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

-20 Not Recorded

2985 Smell of Alcoholic Beverage on Breath/About Person

2990 Patient Admits to Alcohol Use

2995 Patient Admits to Drug Use

3000 Alcohol and/or Drug Paraphernalia at Scene

3001 No Apparent Alcohol/Drug Use

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on alcohol/drug use indicators
- Allows data to describe Alcohol and Drug use within the EMS patient population

## Data Collector

- EMS personnel

## Other Associated Elements

**E00** Common Null Values

**E01\_01** Patient Care Report Number

## References in NHTSA Version 1

Essential Element 57 Suspected Alcohol/Drug Use

## References to Other Databases

- NFIRS 5.0 EMS Module; Title: Human Factors; Describes the human factors that contributed to the patient's injury; Pick-List: Asleep = 1, Unconscious = 2, Possibly Impaired by Alcohol = 3, Possibly Impaired by Other Drug or Chemical = 4, Possibly Mentally Disabled = 5, Physically Disabled = 6, Physically Restrained = 7, Unattended or Unsupervised Person, Included are too young to act = 8, None or No Human Factors = N

## Section E12 Medical History

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# ***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

## Section E14 Assessment/Vital Signs

MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# CARDIAC RHYTHM

E14\_03

**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)

**Accepts Null Values** Yes

Yes for each E14\_01

Date/Time

**Required in XSD** No

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

## Field Values

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

## Section E14 Assessment/Vital Signs

MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# 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

## Section E14 Assessment/Vital Signs

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

## Section E14 Assessment/Vital Signs

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

## Section E14 Assessment/Vital Signs

MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# 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

## Section E14 Assessment/Vital Signs

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

## Section E14 Assessment/Vital Signs

MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# 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

<b>E01_01</b> Patient Care Report Number	<b>E14_01</b> Date/Time Vital Signs Taken
<b>E14_16</b> Glasgow Coma Score-Verbal	<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 73 Glasgow Eye Opening Component

## Section E14 Assessment/Vital Signs

MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# GLASGOW COMA SCORE-VERBAL

E14\_16

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 >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
- 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

## Additional Information

- Can be configured as a single choice list box

## Uses

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

## Data Collector

- EMS personnel

## Other Associated Elements

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

## References in NHTSA Version 1

Essential	Element 74a	Glasgow Verbal Component For patients >5 years
Essential	Element 74b	Glasgow Verbal Component For patients 2-5 years
Essential	Element 74c	Glasgow Verbal Component for patients 0-23 months

## Section E14 Assessment/Vital Signs

MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# GLASGOW COMA SCORE-MOTOR

E14\_17

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

## Additional Information

- Can be configured as a single choice list box

## Uses

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

## Data Collector

- EMS personnel

## Other Associated Elements

<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

## Section E14 Assessment/Vital Signs

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# GLASGOW COMA SCORE-QUALIFIER

E14\_18

**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

-15 Not Reporting

-20 Not Recorded

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

## Section E14 Assessment/Vital Signs

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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)

## Section E14 Assessment/Vital Signs

MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# 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

-15 Not Reporting

-20 Not Recorded

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

## Section E14 Assessment/Vital Signs

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# PAIN SCALE

E14\_23

**Data Format** [number]

## Definition

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

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

**XSD Domain (Simple)**

*PainScale*

**Multiple Entry Configuration** Yes, via structure

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

**Required in** No

**Minimum Constraint** 0

**Maximum Constraint** 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**

## Section E14 Assessment/Vital Signs

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# STROKE SCALE

E14\_24

**Data** [combo] single-choice

## Definition

The patient's Los Angeles or Cincinnati Stroke Scale Results

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

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

## Field Values

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

## Section E14 Assessment/Vital Signs

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

## Section E14 Assessment/Vital Signs

MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

# ***Intervention/ Medication***

**Section E18 Intervention/Medication**

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# DATE/TIME MEDICATION ADMINISTERED

E18\_01

**Data Format** [date/time]

## Definition

The date/time medication administered to the patient

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

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

**Multiple Entry Configuration** Yes, via structure

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

**Required in XSD** No

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

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

## Field Values

## Additional Information

- If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used
- This is a multiple entry configuration which will allow multiple medication administrations to be documented

## Uses

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

## Data Collector

- EMS personnel

## Other Associated Elements

**E01\_01** Patient Care Report Number

**E18\_03** Medication Given

**E18\_05** Medication Dosage

**E18\_07** Response to Medication

**E18\_09** Medication Crew Member ID

**E18\_11** Medication Authorizing Physician

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

**E18\_04** Medication Administered Route

**E18\_06** Medication Dosage Units

**E18\_08** Medication Complication

**E18\_10** Medication Authorization

## Section E18 Intervention/Medication

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

-20 Not Recorded

- 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

**E01\_01** Patient Care Report Number

**E18\_01** Date/Time Medication Administered

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

**E18\_04** Medication Administered Route

**E18\_05** Medication Dosage

**E18\_06** Medication Dosage Units

**E18\_07** Response to Medication

**E18\_08** Medication Complication

**E18\_09** Medication Crew Member ID

**E18\_10** Medication Authorization

**E18\_11** Medication Authorizing Physician

## 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

## Section E18 Intervention/Medication

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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  
for each E14\_01 Date/Time

**Accepts Null**

Yes

**Required in XSD** Yes

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

## Field Values

-25 Not Applicable

-20 Not Recorded

4395 Altered Mental Status

4400 Apnea

4410 Bradycardia

4420 Extravasation

4430 Hyperthermia

4440 Hypoxia

4450 Itching/Urticaria

4460 Other

4470 Tachycardia

-15 Not Reporting

4390 None

4405 Bleeding

4415 Diarrhea

4425 Hypertension

4435 Hypotension

4445 Injury

4455 Nausea

4465 Respiratory Distress

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

**E00** Common Null Values

**E18\_01** Date/Time Medication Administered

**E18\_03** Medication Given

**E18\_05** Medication Dosage

**E18\_07** Response to Medication

**E18\_10** Medication Authorization

**E01\_01** Patient Care Report Number

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

**E18\_04** Medication Administered Route

**E18\_06** Medication Dosage Units

**E18\_09** Medication Crew Member ID

**E18\_11** Medication Authorizing Physician

## Section E18 Intervention/Medication

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# ***Intervention/ Procedure***

# DATE/TIME PROCEDURE PERFORMED SUCCESSFULLY

E19\_01

**Data Format** [date/time]

## Definition

The date and time the procedure was performed on the patient

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

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

**Multiple Entry Configuration** Yes, via structure

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

**Required in XSD** No

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

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

## Field Values

## Additional Information

- If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used
- This is a multiple entry configuration which will allow for multiple procedures to be documented

## Uses

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

## Data Collector

- EMS personnel

## Other Associated Elements

**E01\_01** Patient Care Report Number

**E19\_03** Procedure

**E19\_05** Number of Procedure Attempts

**E19\_07** Procedure Complication

**E19\_09** Procedure Crew Members ID

**E19\_11** Procedure Authorizing Physician

**E19\_13** Tube Confirmation Placement

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

**E19\_04** Size of Procedure Equipment

**E19\_06** Procedure Successful

**E19\_08** Response to Procedure

**E19\_10** Procedure Authorization

**E19\_12** Successful IV Site

**E19\_14** Destination Confirmation of Tube

## Section E19 Intervention/Procedure

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# PROCEDURE

E19\_03

**Data** [combo] single-choice

*National Element*

## Definition

The procedure performed on the patient.

**XSD Data Type** *xs:decimal*      **XSD Domain (Simple Type)** *Procedure*  
**Multiple Entry Configuration** Yes, via structure      **Accepts Null Values** Yes  
**Required in XSD** Yes      **Minimum Constraint** 0      **Maximum Constraint** 1,000  
XSD Structure: Data Elements E19\_01 through E19\_11 are all members of E19\_01\_0 Procedure Structure

## Field Values

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

## 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

<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_04</b> Size of Procedure Equipment	<b>E19_05</b> Number of Procedure Attempts
<b>E19_06</b> Procedure Successful	<b>E19_07</b> Procedure Complication
<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

## 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

-20 Not Recorded

• 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

## Section E19 Intervention/Procedure

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# PROCEDURE SUCCESSFUL

E19\_06

**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

-20 Not Recorded

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

## Section E19 Intervention/Procedure

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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
-20 Not Recorded	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

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# ***Disposition***

**Section E20    *Disposition***

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

-15 Not Reporting

-20 Not Recorded

- 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

## Section E20 Disposition

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

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

**XSD Domain (Simple Type)** *DestinationTransferredToCode*

**Multiple Entry Configuration** No

**Accepts Null** Yes

**Required in XSD** No

**Minimum Constraint** 2

**Maximum Constraint** 50

## Field Values

-25 Not Applicable

-15 Not Reporting

-20 Not Recorded

- 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

**E00** Common Null Values

**E01\_01** Patient Care Report Number

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

## Section E20 Disposition

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

-15 Not Reporting

-20 Not Recorded

- 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 1.6 (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

-15 Not Reporting

-20 Not Recorded

- 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

*MATRIS Version 1.6 (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

-15 Not Reporting

-20 Not Recorded

- 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

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

-20 Not Recorded

• 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

*MATRIS Version 1.6 (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

## Section E20 Disposition

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# INCIDENT/PATIENT DISPOSITION

E20\_10

**Data** [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 Values** 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

## Section E20 Disposition

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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

-20 Not Recorded

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

## Section E20 Disposition

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# REASON FOR CHOOSING DESTINATION

E20\_16

**Data** [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 Values** Yes

**Required in XSD** Yes

## Field Values

-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	4990	Closest Facility (none below)
4995	Diversion	5000	Family Choice
5005	Insurance Status	5010	Law Enforcement Choice
5015	On-Line Medical Direction	5020	Other
5025	Patient Choice	5030	Patient's Physicians Choice
5035	Protocol	5040	Specialty Resource Center

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the destination choice
- Allows data to give a reason for choosing the patient's destination which is important to document from a specialty care agency and diversion/overcrowding perspective

## Data Collector

- EMS personnel

## Other Associated Elements

**E00** Common Null Values

**E01\_01** Patient Care Report Number

## References in NHTSA Version 1

Essential Element 45 Destination Determination

## Section E20 Disposition

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# TYPE OF DESTINATION

E20\_17

**Data** [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 Values** Yes

**Required in XSD** Yes

## Field Values

-25 Not Applicable

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

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

## 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

## Section E20 Disposition

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# ***Medical Device Data***

# EVENT DATE/TIME

E21\_01

**Data Format** [date/time]

## Definition

The time of the event recorded by the device's internal clock

**XSD Data Type** *xs:datetime*

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

**Multiple Entry Configuration** Yes, via structure

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

**Required in XSD** No

**Minimum Constraint** 1,990

**Maximum Constraint** 2,030

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

## Field Values

## Additional Information

- Depending on whether this is a Procedure or a Vital Sign, this can be merged into Date/Time Vital Taken (E14\_01) or Date/Time Procedure Performed Successfully (E19\_01)
- If the date/time is electronically stored within a database or transmitted via XML as a "tick", the referenced variables may also be used
- Multiple entry configuration associated with the entire Medical Device Section (E21) to allow multiple sets of device data to be entered

## Uses

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

## Data Collector

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

## Other Associated Elements

**E01\_01** Patient Care Report Number

**E21\_01** Event Date/Time

**E21\_02** Medical Device Event Name

## Section E21 Medical Device Data

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# 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		

## Section E21 Medical Device Data

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# ECG INTERPRETATION

E21\_07

**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

## Section E21 Medical Device Data

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*

# TOTAL NUMBER OF SHOCKS

E21\_10

**Data** [number]

## Definition

The number of times the patient was defibrillated, if the patient was defibrillated during the patient encounter.

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

**XSD Domain (Simple Type)** *TotalNumberOfShocks*

**Multiple Entry Configuration** Yes, via structure

**Accepts Null Values** No

**Required in XSD** No

**Minimum Constraint** 1

**Maximum Constraint** 100

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

## Field Values

## Uses

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

## Data Collector

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

## Other Associated Elements

**E01\_01** Patient Care Report Number

**E21\_01** Event Date/Time

**E21\_02** Medical Device Event Name

## Section E21 Medical Device Data

*MATRIS Version 1.6 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)*



