

National
Emergency
Medical
Services
Information
System



Pennsylvania Version
of

NEMESIS

NHTSA Version 2.2.1

Data Dictionary

Funded by
National Highway Traffic Safety Administration (NHTSA)
EMS Division

WWW.NEMESIS.ORG

www.health.state.pa.us/ems

National EMS Information Agency Project (NEMSIS)
www.nemsis.org

In 1994, Version 1 of the National Highway Traffic Safety Administration's Uniform PreHospital EMS Dataset was created through a consensus based national data conference. The NHTSA Version 1 EMS dataset has been acknowledged as the national standard for the EMS industry. The Version 2.2.1 dataset was also created through a national consensus process to update and revise this standard.

The NHTSA EMS Uniform PreHospital Dataset, Version 2.2.1 is composed of 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. The third component of the Version 2.2.1 standard is an XML format and definition created to promote the movement of the Version 2.2.1 data elements between data systems.

Any implementation of the NHTSA Version 2.2.1 dataset must include the use of the Demographic dataset, EMS dataset, and XML standard. This document provides over 400 definitions which can be implemented by an EMS system. The National EMS Information System Initiative (NEMSIS) serves to provide technical assistance for the implementation of the dataset. National data elements are defined which should be collected by a National EMS Database but additional data elements should be considered for use at the state and local levels depending on each state or local EMS systems need. The goal of NEMSIS is to establish an EMS data system at the local, state, and national levels. Please see www.nemsis.org for more information.

Information provided in this document includes the following:

- * Name of the Data Element
- * Definition of the Data Element
- * Data Type of the Data Element (many data elements have comments provided to assist in the implementation of a database schema and the NHTSA Version 2 XML standard)
- * How to deal with missing or incomplete information (See Missing Data or Null Values below)
- * The Variables associated with each Data Element
- * What Data Elements are associated with the Data Element (for example Date/Time Medication Administered is associated with each Medication Given Data Element)
- * Whether the Data Element is part of the Data Elements to be collected in the National EMS Database (NDB)
- * Whether the Data Element is part of the medical record information (Patient Care 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

The Pennsylvania Bureau of EMS requires all Patient Care Record (PCR) Vendors to become NEMSIS Gold compliant prior to seeking approval as a Pennsylvania Approved vendor. Currently the 153 NEMSIS elements listed must be forwarded to the Regional EMS Council where the ambulance is based. For additional information visit the Bureau internet site listed above.

**NHTSA Uniform Pre-Hospital Emergency Medical Services (EMS) Dataset
Version 2.2.1 (2006)**

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Agency General Information

EMS AGENCY NUMBER (Affiliate Number)

D01_01

Data [text]

National Element

Definition

The state-assigned provider number of the responding agency

XSD Data Type <i>xs:string</i>	XSD Domain (Simple Type) <i>EMSAgencyNumber</i>
Multiple Entry Configuration No	Accepts Null Values No
Required in XSD Yes	Minimum Constraint 5 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

Requirements: Records should have a valid Affiliate Number approved by the Pennsylvania Bureau Of EMS. Records with invalid affiliate numbers will be rejected by the system.

Data [combo] multiple-choice

National Element

Definition

The state in which the Agency provides services

XSD Data Type *xs:string*

XSD Domain (Simple Type) *AgencyState*

Multiple Entry Configuration Yes

Accepts Null Values No

Required in XSD Yes

Minimum Constraint 2

Maximum Constraint 2

Field Values

- Appropriate 2 digit FIPS code

Additional Information

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

Uses

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

Data Collector

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

Other Associated Elements

D01_01 EMS Agency Number

References to Other Databases

- NFIRS 5.0 EMS Module, Title: State

Requirements: EMS Agency State FIPS Code should be recorded to distinguish state data from others in the national database.
--

Data [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 Values 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

Requirements: EMS Agency County (5 Digit County FIPS Code) should be recorded to distinguish county data from others in the national database. Invalid or missing element will be rejected.

LEVEL OF SERVICE

D01_07

Data [combo] single-choice

National Element

Definition

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

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

Field Values

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

Additional Information

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

Uses

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

Data Collector

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

Other Associated Elements

D01_01 EMS Agency Number

References in NHTSA Version 1

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

References to Other Databases

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

Requirements: Records should have one Level Of Service for the responding crew. Missing or invalid Level of Service will be rejected. In a tiered response system, this is the highest level of service which could be sent to any specific call.

ORGANIZATIONAL TYPE

D01_08

Data [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 Values No

Required in XSD Yes

Field Values

5810 Community, Non-Profit

5820 Fire Department

5830 Governmental, Non-Fire

5840 Hospital

5850 Private, Non_Hospital

5860 Tribal

Uses

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

Data Collector

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

Other Associated Elements

D01_01 EMS Agency Number

Requirements: Database should have Organizational Type for each record, otherwise the record will be rejected. Also, invalid characters for any record will be rejected.

ORGANIZATION STATUS

D01_09

Data [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 Values No

Required in XSD Yes

Field Values

5870 Mixed

5880 Non-Volunteer

5890 Volunteer

Uses

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

Data Collector

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

Other Associated Elements

D01_01 EMS Agency Number

Requirements: Database should have Organizational Status for each record, otherwise the record will be rejected. Also, invalid characters for any record will be rejected.

STATISTICAL YEAR

D01_10

Data [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 Values 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

Requirements: Database should have Statistical Year for each record, otherwise the record will be rejected. Also, invalid characters for any record will be rejected. Format should be as stated above.

TOTAL SERVICE SIZE AREA

D01_12

Data [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 Values** 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

D01_01 EMS Agency Number	D01_10 Statistical Year
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

Requirements: Database should have Total Service Size Area, otherwise the record will be rejected. Also, invalid characters for any record will be rejected.

TOTAL SERVICE AREA POPULATION

D01_13

Data [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 Values** 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

Requirements: Database should have Total Service Area Population, otherwise the record will be rejected. Also, invalid characters for any record will be rejected.

911 CALL VOLUME PER YEAR

D01_14

Data [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 Values** 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

D01_01 EMS Agency Number	D01_10 Statistical Year
D01_12 Total Service Size Area	D01_13 Total Service Area Population
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

Requirements: Database should have 911 Call Volume Per Year, otherwise the database will be rejected. Also, invalid characters for any record will be rejected.

EMS DISPATCH VOLUME PER YEAR

D01_15

Data [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 Values** 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

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_16 EMS Transport Volume per Year
D01_17 EMS Patient Contact Volume per Year	D01_18 EMS Billable Calls per Year

Requirements: Database should have EMS Dispatch Volume Per Year, otherwise database will be rejected. Also, invalid characters for any record will be rejected.

EMS TRANSPORT VOLUME PER YEAR

D01_16

Data [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 Values** 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

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_17 EMS Patient Contact Volume per Year	D01_18 EMS Billable Calls per Year

Requirements: Database should have EMS Transport Volume Per Year, otherwise database will be rejected. Also, invalid characters for any record will be rejected.

EMS PATIENT CONTACT VOLUME PER YEAR

D01_17

Data [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 Values** 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

Requirements: Database should have EMS Patient Contact Volume Per Year, otherwise database will be rejected. Also, invalid characters for any record will be rejected.

EMS AGENCY TIME ZONE

D01_19

Data [text]

National Element

Definition

The time zone for the EMS Agency

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *EMSAgencyTimeZone*

Multiple Entry Configuration No

Accepts Null Values No

Required in XSD Yes

Field Values

5900 GMT-11:00 Midway Island, Samoa

5910 GMT-10:00 Hawaii

5920 GMT-09:00 Alaska

5930 GMT-08:00 Pacific Time

5940 GMT-07:00 Mountain Time

5950 GMT-06:00 Central Time

5960 GMT-05:00 Eastern Time

5970 GMT-04:00 Atlantic Time

Uses

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

Data Collector

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

Other Associated Elements

D01_01 EMS Agency Number

Requirements: Database should have EMS Agency Time Zone, otherwise the database will be rejected. Times are to be submitted using Greenwich Meantime. Also, invalid characters for any record will be rejected.

NATIONAL PROVIDER IDENTIFIER

D01_21

Data [text]

National Element

Definition

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

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

Field Values

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

Additional Information

- The National Provider Identifier is associated with the EMS agency number

Uses

- Important for HIPAA related transactions such as electronic claims processing

Data Collector

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

Other Associated Elements

D01_01 EMS Agency Number

Requirements: Database should have National Provider Identifier, otherwise a Null Value will be accepted. Also, invalid characters for any record will be rejected.

Agency Contact Information

AGENCY CONTACT ZIP CODE

D02_07

Data [text]

National Element

Definition

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

XSD Data Type *xs:string*

XSD Domain (Simple Type) *DemographicZip*

Multiple Entry Configuration No

Accepts Null Values No

Required in XSD Yes

Minimum Constraint 5

Maximum Constraint 10

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

Field Values

A unique value; no variable list is possible.

Additional Information

- Can be a 5 or 9 digit Zip Code

Uses

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

Data Collector

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

Other Associated Elements

D01_01 EMS Agency Number

D02_04 Agency Contact Address

D02_05 Agency Contact City

D02_06 Agency Contact State

Requirements: Database should have Agency Contact Zip Code, otherwise the database will be rejected. Also, invalid characters for any record will be rejected.

Agency Configuration Information

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

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

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

39.996 Venous Access-Subclavian Line
93.057 Wound Care

Additional Information

- A multiple-entry configuration with Personnel Level Permitted to use the Procedure (D04_05)
- If local systems have procedures which are not listed in the current values, additional procedures may be added using CPT codes from the ICD-9 standard. The CPT code should be stored and passed via the XML. This will allow expansion of the list to formally add new procedures over time
- Used to create a list box for Procedure (E19_03)

Uses

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

Data Collector

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

Other Associated Elements

D01_01 EMS Agency Number

D04_05 Personnel Level Permitted to Use the Procedure

References in NHTSA Version 1

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

References to Other Databases

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

Requirements: Database should have Procedures listing. Any invalid characters for any record will be rejected.

MEDICATIONS GIVEN

D04_06

Data [text] multiple-entry

Definition

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

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

Field Values

A unique value; 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

Requirements: Database should have Medications from list provided by Pa BEMS. Any invalid characters for any record will be rejected.

Data [text] multiple-entry

Definition

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

XSD Data Type *xs:string* **XSD Domain (Simple Type)** *DemographicProtocolsUsed*
Multiple Entry Configuration Yes, via structure **Accepts Null Values** **No**
Required in XSD **No** **Minimum Constraint** **2** **Maximum Constraint** **30**
XSD Structure: D04_08 and D04_09 are members of D04_08_0 Demographic Protocol Structure
XSD Attributes: Status (Active or In-active) and Date are included as attributes

Field Values

- | | |
|--|--|
| 6720 Abdominal Pain | 6730 Airway |
| 6740 Airway-Failed | 6760 Airway-RSI |
| 6770 Allergic Reaction/Anaphylaxis | 6780 Altered Mental Status |
| 6785 AltitudeSickness | 6790 Asystole |
| 6791 Atrial Fibrillation | 6800 Back Pain |
| 6810 Behavioral | 6820 Bites and Envenomations |
| 6830 Bradycardia | 6840 Burns |
| 6850 Cardiac Arrest | 6860 Cardiac Chest Pain |
| 6870 Childbirth/Labor | 6875 Cold Exposure |
| 6880 Dental Problems | 6881 Device Malfunction |
| 6885 Diarrhea | 6890 Drowning/Near Drowning |
| 6892 Diving Emergencies | 6900 Electrical Injuries |
| 6910 Epistaxis | 6911 Exposure-Airway Irritants |
| 6912 Exposure-Biological/Infectious | 6913 Exposure-Blistering Agents |
| 6914 Exposure-Cyanide | 6915 Exposure-Nerve Agents |
| 6916 Exposure-Radiologic Agents | 6917 Exposure-Riot Control Agents |
| 6920 Extremity Trauma | 6925 Eye Trauma |
| 6930 Fever | 6935 Gynecologic Emergencies |
| 6940 Head Trauma | 6945 Hyperglycemia |
| 6950 Hypertension | 6960 Hyperthermia |
| 6965 Hypoglycemia | 6970 Hypotension/Shock (Non-Trauma) |
| 6980 Hypothermia | 6990 IV Access |
| 7000 Trauma-Multisystem | 7010 Newly Born |
| 7020 Obstetrical Emergencies | 7030 Overdose/Toxic Ingestion |
| 7040 Pain Control | 7130 Post Resuscitation |
| 7140 Pulmonary Edema | 7150 Pulseless Electrical Activity |
| 7160 Respiratory Distress | 7170 Seizure |
| 7175 Spinal Cord Trauma | 7180 Spinal Immobilization |
| 7190 Supraventricular Tachycardia | 7200 Stroke/TIA |
| 7210 Syncope | 7214 Trauma-Arrest |
| 7215 Trauma-Amputation | 7220 Universal Patient Care |
| 7230 Ventricular Fibrillation | 7232 Ventricular Ectopy |
| 7240 Ventricular Tachycardia | 7251 Vomiting |

Additional Information

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

- If local systems have protocols which are not listed in the current values, additional protocols may be added as a text name. The text value should be stored and passed via the XML. This will allow expansion of the list to formally add new procedures over time. Please map all existing protocols to these coded protocol subjects as much as possible.

Uses

- Allows data to be sorted based on an agency's Protocols
- Could be used to create a list box for Protocols Used (E17_01)
- Provides description of EMS Agency's capabilities
- 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_09 Personnel Level Permitted to Use the Protocol

Requirements: Database should have a Protocol field. Any invalid characters for any record will be rejected.

HOSPITALS SERVED

D04_11

Data [text] multiple-entry

Definition

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

XSD Data Type *xs:string* **XSD Domain (Simple Type)** *FacilityName*
Multiple Entry Configuration Yes, via structure **Accepts Null Values** No
Required in XSD No **Minimum Constraint** 2 **Maximum Constraint** 50
XSD Structure: D04_11 and D04_12 are members of D04_11_0 Hospitals Served Structure

Field Values

A unique value; no variable list is possible.

Additional Information

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

Uses

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

Data Collector

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

Other Associated Elements

D01_01 EMS Agency Number **D04_12** Hospital Facility Number

Requirements: Database should have a Hospitals Served for each record, if applicable. A Null Value will be accepted. Any invalid characters for any record will be rejected.

HOSPITAL FACILITY NUMBER

D04_12

Data [text]

Definition

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

XSD Data Type *xs:string* **XSD Domain (Simple Type)** *FacilityNumber*
Multiple Entry Configuration Yes, via structure **Accepts Null Values** Yes
Required in XSD No **Minimum Constraint** 2 **Maximum Constraint** 30
XSD Structure: D04_11 and D04_12 are members of D04_11_0 Hospitals Served Structure

Field Values

A unique value; no variable list is possible.

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

Additional Information

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

Uses

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

Data Collector

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

Other Associated Elements

D01_01 EMS Agency Number	D04_11 Hospitals Served
E00 Common Null Values	

Requirements: Database should have a Hospital Facility Number for each record, if applicable. A Null Value will be accepted. Any invalid characters for any record will be rejected.

Common EMS Values

COMMON NULL VALUES

E00

Data [combo] single-choice

Definition

These values are to be used in each of the Demographic and EMS Data Elements described in this document which have been defined to accept the E00 Null Values. Please include these variables in the implementation of the NHTSA Version 2 Dataset.

Field Values

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

-20 Not Recorded
-10 Not Known

Additional Information

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

Requirements: It is a goal to have accurate and complete documentation for each element; however, there may be instances the data element does not contain any value. If this occurs the system should be able to accept any of the Null Values.

Record Information

PATIENT CARE REPORT NUMBER

E01_01

Data [text]

National Element

Definition

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

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

Field Values

A unique value; no variable list is possible.

Additional Information

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

Uses

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

Data Collector

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

Other Associated Elements

E01_01 Patient Care Report Number

References in NHTSA Version 1

Desirable Element 23 Patient Care Record Number

References to Other Databases

- NFIRS 5.0 EMS Module; Title: Patient Number; Unique Number

Requirements: Records should have a Patient Care Report Number. This is the lithocode which would be a unique identifier or ID for each record within an ambulance service. This unique ID will not change even when changes are made within the record. Lithocodes are not to be duplicated, otherwise the system will reject the record(s) involved.

Data [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 Values No

Required in XSD Yes

Minimum Constraint 3

Maximum Constraint 30

Field Values

A unique value; no variable list is possible.

Uses

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

Data Collector

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

Other Associated Elements

E01_01 Patient Care Report Number

Requirements: Records should have a Software Creator entry based on a Silver or Gold compliant NEMSIS specification. Records with invalid characters will be rejected.

SOFTWARE NAME

E01_03

Data [text]

National Element

Definition

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

XSD Data Type *xs:string*

XSD Domain (Simple Type) *SoftwareName*

Multiple Entry Configuration No

Accepts Null Values No

Required in XSD Yes

Minimum Constraint 3

Maximum Constraint 30

Field Values

A unique value; no variable list is possible.

Uses

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

Data Collector

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

Other Associated Elements

E01_01 Patient Care Report Number

Requirements: Records should have a Software Name entry based on a Silver or Gold compliant NEMSIS specification. Records with invalid characters will be rejected.

SOFTWARE VERSION

E01_04

Data [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 Values No

Required in XSD Yes

Minimum Constraint 3

Maximum Constraint 30

Field Values

A unique value; no variable list is possible.

Uses

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

Data Collector

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

Other Associated Elements

E01_01 Patient Care Report Number

Requirements: Records should have a Software Version field based on a Silver or Gold compliant NEMSIS specification. Records with invalid characters will be rejected.

Unit/ Agency Information

EMS AGENCY NUMBER

E02_01

Data [text]

National Element

Definition

The state-assigned provider number of the responding agency

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

Field Values

A unique value; no variable list is possible.

Additional Information

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

Uses

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

Data Collector

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

Other Associated Elements

E01_01 Patient Care Report Number

References to Other Databases

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

Requirements: Records should have an EMS Agency Number (affiliate number), which would be a unique identifier or ID for each record from the approved Pa EMS list. This unique ID will not change even when changes are made within the record. The ID cannot be duplicated, otherwise the system will reject the record(s) involved.

INCIDENT NUMBER

E02_02

Data [text]

Definition

The incident number assigned by the 911 Dispatch System

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

Field Values

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

Uses

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

Data Collector

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

Other Associated Elements

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

References in NHTSA Version 1

Essential Element 21 Incident Number

References to Other Databases

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

Requirements: If Incident Number is not available then a Null Value will be accepted; however, records with invalid characters will be rejected.

TYPE OF SERVICE REQUESTED

E02_04

Data [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 Values 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

Requirements: Each record should have a Type Of Service Requested field. Records with invalid characters will be rejected.

911 Response (Scene) - Emergent or immediate response to an incident location, regardless of method of notification (for example, 911, direct dial, walk-in, or flagging down)

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

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

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

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

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

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

Requirements: Each record should have a Primary Role Of The Unit. Records with invalid characters will be rejected.

Non-transport - The unit's role in this incident is to provide EMS care but is not intended to provide transport.

Rescue - The unit's role in this incident is to provide rescue services.

Supervisor - The unit's role in this incident is as a supervisor.

Transport - The unit's role in this incident is to provide transportation of the patient even if no transport happened.

TYPE OF DISPATCH DELAY

E02_06

Data [combo] multiple-choice

National Element

Definition

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

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *TypeOfDispatchDelay*

Multiple Entry Configuration Yes

Accepts Null Values Yes

Required in XSD Yes

Field Values

-25 Not Applicable

-15 Not Reporting

-5 Not Available

85 High Call Volume

95 Location (Inability to Obtain)

105 None

115 Scene Safety (Not Secure for EMS)

-20 Not Recorded

-10 Not Known

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

Requirements: Each record should have a Type Of Dispatch Delay. A Null Value will be accepted. Records with invalid characters will be rejected.

Caller Uncooperative – Caller uncooperative (i.e. does not answer questions.)

High Call Volume – High call volume in the dispatch center caused delayed notification of the EMS unit.

Language Barrier – Difficulty communicating with the caller because of language problems.

Location (Inability to Obtain) – Inability to determine where to dispatch the EMS unit.

No Units Available – Lack of available EMS units.

None – Use if the dispatch of the EMS unit was not delayed.

Other – Dispatch was delayed for reasons not listed here.

Scene Safety (Not Secure for EMS) – Notification of the EMS unit was delayed in dispatch because the scene was unsafe.

Technical Failure (Computer, Phone, etc.) – Failure of phones, computers, radios, or other technical failure.

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

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

125 Crowd

130 Directions

135 Distance

140 Diversion

145 HazMat

150 None

155 Other

160 Safety

165 Staff Delay

170 Traffic

175 Vehicle Crash

180 Vehicle Failure

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

Requirements: Each record should have a Type Of Response Delay. A Null Value will be accepted. Records with invalid characters will be rejected.

The EMS unit's arrival at the scene was delayed by:

Crowd – Crowds.

Directions – Bad or inadequate directions, or if the unit got lost en route.

Distance – A long distance to the scene from the unit's location when dispatched.

Diversion – Diversion of the initially dispatched unit to another incident.

HazMat – Hazardous Material danger.

None – Use if the arrival of the EMS unit at the scene was not delayed.

Other – Other reasons not listed here.

Safety – Scene safety issues not related to crowds or HazMat.

Staff Delay – Issues arising with crew members ability to respond.

Traffic – Heavy traffic.

Vehicle Crash – EMS unit was involved in a crash.

Vehicle Failure – EMS unit mechanical reasons (i.e., ambulance did not start, flat tire, etc.)

Weather – Bad weather.

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 <i>xs:integer</i>	XSD Domain (Simple Type) <i>TypeOfSceneDelay</i>
Multiple Entry Configuration Yes	Accepts Null Values Yes
Required in XSD Yes	

Field Values

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

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

E00 Common Null Values	E01_01 Patient Care Report Number
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References in NHTSA Version 1

Desirable Element 56 Factors Affecting EMS Delivery of Care

Requirements: Each record should have a Type Of Scene Delay. A Null Value will be accepted. Records with invalid characters will be rejected.

Access to patient or total time on scene was extended because of:

Crowd – Crowds.

Directions – Bad or inadequate directions resulting in the crew having difficulty finding the patient.

Distance – Distance between the ambulance and the patient.

Diversion – Need to find receiving hospital not on diversion before departing the scene.

Extrication > 20 Min. – Extrication of patient that took longer than 20 minutes.

HazMat – Hazardous Material danger.

Language Barrier – Difficulty communicating with the patient or bystanders because of language problems.

None – Use if the total scene time was not extended.

Other – Any other factor not described here.

Safety – Scene safety issues not related to crowds or HazMat.

Staff Delay – Total scene time issues arising with crew members.

Traffic – Traffic conditions.

Vehicle Crash – EMS unit was involved in a crash.

Vehicle Failure – EMS unit had mechanical reasons (i.e., ambulance did not start, flat tire, etc.)

Weather – Bad weather.

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

Requirements: Each record should have a Type Of Transport Delay. A Null Value will be accepted. Records with invalid characters will be rejected.

The EMS unit's arrival at the destination was delayed by:

Crowd – Crowds.

Directions – Bad or inadequate directions, or if the unit got lost en route.

Distance – A long distance to the destination from the scene.

Diversion – Diversion of the transporting unit to a different receiving hospital.

HazMat – Hazardous Material danger.

None – Use if the arrival of the EMS unit at the destination was not delayed.

Other – Other reasons not listed here.

Safety – Transport safety issues not related to crowds or HazMat.

Staff Delay – Issues arising with crew members ability to transport.

Traffic – Heavy traffic.

Vehicle Crash – EMS unit was involved in a crash .

Vehicle Failure – EMS unit mechanical reasons (i.e., ambulance did not start, flat tire, etc.)

Weather – Bad weather.

TYPE OF TURN-AROUND DELAY

E02_10

Data [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 Values** Yes
Required in XSD Yes

Field Values

-25 Not Applicable	-20 Not Recorded
-15 Not Reporting	-10 Not Known
-5 Not Available	330 Clean-up
335 Decontamination	340 Documentation
345 ED Overcrowding	350 Equipment Failure
355 Equipment Replenishment	360 None
365 Other	370 Staff Delay
375 Vehicle Failure	

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

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

Requirements: Each record should have a Type Of Turn-Around Delay. A Null Value will be accepted. Records with invalid characters will be rejected.

Turn-around time was delayed because of:

Clean-up – EMS unit clean up takes longer than normal.

Decontamination – EMS unit decontamination.

Documentation – Patient care documentation takes longer than normal.

ED Over-crowding – Over-crowding in the hospital emergency department.

Equipment Failure – Equipment Failure with the exception of the EMS unit.

Equipment Replacement – Re-supply of the EMS unit takes longer than normal.

None – There were no delays in returning to service.

Other – Any other reason not listed here.

Staff Delay – Issues arising with crew members.

Vehicle Failure – EMS unit mechanical reasons (i.e., ambulance did not start, flat tire, etc.)

EMS UNIT CALL SIGN (Decal Number)

E02_12

Data [combo] single-choice

National Element

Definition

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

XSD Data Type *xs:string*

XSD Domain (Simple Type) *EMSUnitCallSign*

Multiple Entry Configuration No

Accepts Null Values No

Required in XSD Yes

Minimum Constraint 2

Maximum Constraint 15

Field Values

Additional Information

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

Uses

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

Data Collector

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

Other Associated Elements

E01_01 Patient Care Report Number

Requirements: Each record should have a EMS Unit Call Sign (Vehicle Decal Number) entry. Records with invalid characters will be rejected.

RESPONSE MODE TO SCENE

E02_20

Data [combo] single-choice

National Element

Definition

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

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *ResponseModeToScene*

Multiple Entry Configuration No

Accepts Null Values No

Required in XSD Yes

Field Values

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

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

390 Lights and Sirens

395 No Lights or Sirens

Uses

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

Data Collector

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

Other Associated Elements

E01_01 Patient Care Report Number

References in NHTSA Version 1

Essential Element 19 Lights and Sirens to Scene

Requirements: Each record should have a Response Mode To Scene entry. Records with invalid characters will be rejected.

Unit/ Call Information

COMPLAINT REPORTED BY DISPATCH

E03_01

Data [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 Values Yes

Required in XSD Yes

Field Values

-25 Not Applicable	-20 Not Recorded
-15 Not Reporting	-10 Not Known
-5 Not Available	400 Abdominal Pain
405 Allergies	410 Animal Bite
415 Assault	420 Back Pain
425 Breathing Problem	430 Burns
435 CO Poisoning/Hazmat	440 Cardiac Arrest
445 Chest Pain	450 Choking
455 Convulsions/Seizure	460 Diabetic Problem
465 Drowning	470 Electrocutation
475 Eye Problem	480 Fall Victim
485 Headache	490 Heart Problems
495 Heat/Cold Exposure	500 Hemorrhage/Laceration
505 Industrial Accident/Inaccessible Incident/Other Entrapments (non-vehicle)	510 Ingestion/Poisoning
515 Pregnancy/Childbirth	520 Psychiatric Problem
525 Sick Person	530 Stab/Gunshot Wound
535 Stroke/CVA	540 Traffic Accident
545 Traumatic Injury	550 Unconscious/Fainting
555 Unknown Problem Man Down	560 Transfer/Interfacility/Palliative Care
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 Types

Requirements: Each record should have a Complaint Reported By Dispatch entry. A Null Value will be accepted. Records with invalid characters will be rejected.

EMD PERFORMED

E03_02

Data [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 Values Yes

Required in XSD Yes

Field Values

-25 Not Applicable

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

0 No

570 Yes, With Pre-Arrival Instructions

575 Yes, Without Pre-Arrival Instructions

Uses

- Allows data to be sorted by the Dispatch Complaint
- Allows data to describe Patient Complaint as reported by Dispatch

Data Collector

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

Other Associated Elements

E00 Common Null Values

E01_01 Patient Care Report Number

Requirements: Each record should have an EMD Performed entry. A Null Value will be acceptable. Records with invalid characters will be rejected.

No – EMD was not performed for this incident.

Yes, with Pre-Arrival Instructions – EMD was performed for this incident and the caller was given instructions on how to provide treatment (CPR, bleeding control, etc.) for the patient.

Yes, without Pre-Arrival Instructions – EMD was performed for this incident but no treatment instructions were given.

-5 – Common Value – Not Available – Used when EMD is not available in the provider’s primary service area. (If your dispatchers never provide EMD, this will always be the correct value).

-10 – Common Value – Not Known – Used when the EMS provider’s Do Not Know if EMD service was provided for this incident.

Unit/ Personnel Information

CREW MEMBER ID

E04_01

Data [text]

Definition

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

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

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

Field Values

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

Additional Information

- A multiple entry configuration to allow all crew members to be entered
- Linked to State/Licensure ID Number (D07_02)
- List box created from the State/ Licensure ID Number (D07_02) which could display the Personnel's Names as associated with D08_01, D08_02, and D08_03 for easy data entry

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

E00 Common Null Values	E01_01 Patient Care Report Number
E04_02 Crew Member Role	E04_03 Crew Member Level

References in NHTSA Version 1

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

Requirements: Each record should have at least one Crew Member ID entry. The ID could be Arabic numerals (i.e. 0, 1,9) or the basic Latin alphabets (i.e. A, B, C, D....Z). Records with invalid ID characters will be rejected. Examples of invalid characters are: blanks, !, *, &, @, ?, ", /

CREW MEMBER ROLE

E04_02

Data [combo] single-choice

Definition

The role of the crew member during transport of this call.

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

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *CrewMemberRole*

Multiple Entry Configuration Yes, via structure

Accepts Null Values Yes

Required in XSD No

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

Field Values

-25 Not Applicable

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

580 Driver

585 Primary Patient Caregiver

590 Secondary Patient Caregiver

595 Third Patient Caregiver

600 Other

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

Requirements: Records should have at least a Crew Member Role of Primary Patient Care Giver entry. Any additional Crew Member should be assigned their respective role(s) and recorded accordingly. Records with invalid characters will be rejected.

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: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

E00 Common Null Values	E01_01 Patient Care Report Number
E04_01 Crew Member ID	E04_02 Crew Member Role

References in NHTSA Version 1

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

References to Other Databases

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

Requirements: Each record should have at least one Crew Member Level entry. Entries for Physicians and Nurses are those with Pennsylvania EMS certification/credentials, otherwise the entries should be made under Other Healthcare Professional. Records with invalid entries will be rejected.

Times

PSAP CALL DATE/TIME

E05_02

Data [date/time]

National Element

Definition

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

XSD Data Type *xs:dateTime*

XSD Domain (Simple Type) *DateTime*

Multiple Entry Configuration No
empty

Accepts Null Values Yes, but null value is blank or

Required in XSD Yes

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

Field Values

Additional Information

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

Uses

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

Data Collector

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

Other Associated Elements

E01_01 Patient Care Report Number

References in NHTSA Version 1

Essential Element 08 Date Incident Reported

Essential Element 09 Time Incident Reported

References to Other Databases

- NFIRS 5.0 EMS Module; Title: Incident Date; The date the Fire Department received the incident alarm

Requirements: Each record should have PSAP Call Date/Time. Date format should be YYYYMMDD. Times are to be submitted using Greenwich Meantime. Time format should be HHMM. Records with invalid characters will be rejected.

DISPATCH NOTIFIED DATE/TIME

E05_03

Data [date/time]

Definition

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

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

Field Values

Additional Information

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

Uses

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

Data Collector

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

Other Associated Elements

E01_01 Patient Care Report Number

References in NHTSA Version 1

Essential Element 10 Time Dispatch Notified

Requirements: Each record should have Dispatch Notified Date/Time. Date format should be YYYYMMDD. Times are to be submitted using Greenwich Meantime. Time format should be HHMM. Records with invalid characters will be rejected.

UNIT NOTIFIED BY DISPATCH DATE/TIME

E05_04

Data [date/time]

National Element

Definition

The date the responding unit was notified by dispatch

XSD Data Type *xs:dateTime*

XSD Domain (Simple Type) *DateTime*

Multiple Entry Configuration No

Accepts Null Values No

Required in XSD Yes

Minimum Constraint 1,990 Maximum Constraint 2,030

Field Values

Additional Information

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

Uses

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

Data Collector

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

Other Associated Elements

E01_01 Patient Care Report Number

References in NHTSA Version 1

Essential Element 11 Date Unit Notified

Essential Element 12 Time Unit Notified

Requirements: Each record should have Unit Notified By Dispatch Date/Time. Date format should be YYYYMMDD. Times are to be submitted using Greenwich Meantime. Time format should be HHMM. Records with invalid characters will be rejected.

UNIT EN ROUTE DATE/TIME

E05_05

Data [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 Values Yes, but null value is blank or empty

Required in XSD Yes

Minimum Constraint 1,990 Maximum Constraint 2,030

Field Values

Additional Information

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

Uses

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

Data Collector

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

Other Associated Elements

E01_01 Patient Care Report Number

References in NHTSA Version 1

Essential Element 13 Time Unit Responding

Requirements: Each record should have Unit En-Route Date/Time. Date format should be YYYYMMDD. Times are to be submitted using Greenwich Meantime. Time format should be HHMM. Records with invalid characters will be rejected.

UNIT ARRIVED ON SCENE DATE/TIME

E05_06

Data [date/time]

National Element

Definition

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

XSD Data Type *xs:dateTime*

XSD Domain (Simple Type) *DateTime*

Multiple Entry Configuration No

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

Required in XSD Yes

Minimum Constraint 1,990 Maximum Constraint 2,030

Field Values

Additional Information

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

Uses

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

Data Collector

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

Other Associated Elements

E01_01 Patient Care Report Number

References in NHTSA Version 1

Essential Element 14 Time of Arrival at Scene

Requirements: Each record should have Unit Arrived On Scene Date/Time. Date format should be YYYYMMDD. Times are to be submitted using Greenwich Meantime. Time format should be HHMM. Records with invalid characters will be rejected.

ARRIVED AT PATIENT DATE/TIME

E05_07

Data [date/time]

National Element

Definition

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

XSD Data Type *xs:dateTime*

XSD Domain (Simple Type) *DateTime*

Multiple Entry Configuration No
empty

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

Required in XSD Yes

Minimum Constraint 1,990 Maximum Constraint 2,030

Field Values

Additional Information

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

Uses

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

Data Collector

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

Other Associated Elements

E01_01 Patient Care Report Number

References in NHTSA Version 1

Essential Element 15 Time of Arrival at Patient

References to Other Databases

- NFIRS 5.0 EMS Module; Title: Date/Time Arrived; The date and time fire fighters arrived at the patient.

Requirements: Each record should have Arrived At Patient Date/Time. Date format should be YYYYMMDD. Times are to be submitted using Greenwich Meantime. Time format should be HHMM. Records with invalid characters will be rejected.

UNIT LEFT SCENE DATE/TIME

E05_09

Data [date/time]

National Element

Definition

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

XSD Data Type *xs:dateTime*

XSD Domain (Simple Type) *DateTime*

Multiple Entry Configuration No

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

Required in XSD Yes

Minimum Constraint 1,990 Maximum Constraint 2,030

Field Values

Additional Information

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

Uses

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

Data Collector

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

Other Associated Elements

E01_01 Patient Care Report Number

References in NHTSA Version 1

Essential Element 16 Time Unit Left Scene

Requirements: Each record should have Unit Left Scene Date/Time. Date format should be YYYYMMDD. Times are to be submitted using Greenwich Meantime. Time format should be HHMM. Records with invalid characters will be rejected.

PATIENT ARRIVED AT DESTINATION DATE/TIME

E05_10

Data [date/time]

National Element

Definition

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

XSD Data Type *xs:dateTime*

XSD Domain (Simple Type) *DateTime*

Multiple Entry Configuration No

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

Required in XSD Yes

Minimum Constraint 1,990

Maximum Constraint 2,030

Field Values

Additional Information

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

Uses

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

Data Collector

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

Other Associated Elements

E01_01 Patient Care Report Number

References in NHTSA Version 1

Essential Element 17 Time of Arrival at Destination

Requirements: Each record should have Patient Arrived At Destination Date/Time. Date format should be YYYYMMDD. Times are to be submitted using Greenwich Meantime. Time format should be HHMM. Records with invalid characters will be rejected.

UNIT BACK IN SERVICE DATE/TIME

E05_11

Data [date/time]

National Element

Definition

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

XSD Data Type *xs:dateTime*

XSD Domain (Simple Type) *DateTime*

Multiple Entry Configuration No

Accepts Null Values No

Required in XSD Yes

Minimum Constraint 1,990 Maximum Constraint 2,030

Field Values

Additional Information

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

Uses

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

Data Collector

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

Other Associated Elements

E01_01 Patient Care Report Number

References in NHTSA Version 1

Essential Element 18 Time Back in Service

Requirements: Each record should have Unit Back In Service Date/Time. Date format should be YYYYMMDD. Times are to be submitted using Greenwich Meantime. Time format should be HHMM. Records with invalid characters will be rejected.

UNIT BACK AT HOME LOCATION DATE/TIME

E05_13

Data [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 Values Yes, but null value is blank or empty

Required in XSD Yes

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

Field Values

Additional Information

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

Uses

- 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

Requirements: Each record should have Unit Back At Home Location Date/Time. Date format should be YYYYMMDD. Times are to be submitted using Greenwich Meantime. Time format should be HHMM. Records with invalid characters will be rejected.

Patient

PATIENT'S HOME ZIP CODE

E06_08

Data [text]

National Element

Definition

The patient's home ZIP code of residence

XSD Data Type *xs:string*

XSD Domain (Simple Type) *Zip*

Multiple Entry Configuration No

Accepts Null Values Yes

Required in XSD Yes

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

-10 Not Known

-5 Not Available

Additional Information

- Can be stored as a 5 or 9 digit code

Uses

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

Data Collector

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

Other Associated Elements

E00 Common Null Values

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

Requirements: Each record should have Patient's Home Zip Code if appropriate, as determined by the EMSPIC navigation document. A Null Value will be accepted if there is no information to report.

GENDER

E06_11

Data [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 Values Yes

Required in XSD Yes

Field Values

-25 Not Applicable

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

650 Male

655 Female

Uses

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

Data Collector

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

Other Associated Elements

E00 Common Null Values

E01_01 Patient Care Report Number

E06_01 Last Name

References in NHTSA Version 1

Essential Element 42 Gender

References to Other Databases

- NFIRS 5.0 EMS Module; Title: Gender; Pick-List: Male = 1, Female = 2

Requirements: Each record should have a Gender entry. Records with invalid characters will be rejected.

Data [combo] single-choice

*National Element***Definition**

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

XSD Data Type *xs:integer***XSD Domain (Simple Type)** *Race***Multiple Entry Configuration** No**Accepts Null Values** Yes**Required in XSD** Yes**Field Values****-25** Not Applicable**-20** Not Recorded**-15** Not Reporting**-10** Not Known**-5** Not Available**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

Requirements: Each record should have a Race entry if appropriate, as determined by the EMSPIC navigation document. A Null Value will be accepted. Records with invalid characters will be rejected.

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

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

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

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

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

Other race - Includes all other responses not included in the "White", "Black or African American", "American Indian and Alaska Native", "Asian" and "Native Hawaiian or Other Pacific Islander" race categories described above.

ETHNICITY

E06_13

Data [combo] single-choice

National Element

Definition

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

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *Ethnicity*

Multiple Entry Configuration No

Accepts Null Values Yes

Required in XSD Yes

Field Values

-25 Not Applicable

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

690 Hispanic or Latino

695 Not Hispanic or Latino

Uses

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

Data Collector

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

Other Associated Elements

E00 Common Null Values

E01_01 Patient Care Report Number

E06_01 Last Name

References in NHTSA Version 1

Essential Element 43 Race/Ethnicity

References to Other Databases

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

Requirements: Each record should have an Ethnicity entry if appropriate, as determined by the EMSPIC navigation document. A Null Value will be accepted. Records with invalid characters will be rejected.

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

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

AGE

E06_14

Data [number]

National Element

Definition

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

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *Age*

Multiple Entry Configuration No

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

Required in XSD Yes

Minimum Constraint 1

Maximum Constraint 120

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

Field Values

Additional Information

- Could be calculated from Date of Birth (E06_16)

Uses

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

Data Collector

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

Other Associated Elements

E01_01 Patient Care Report Number

E06_01 Last Name

E06_15 Age Units

References in NHTSA Version 1

Desirable Element 41 Age

References to Other Databases

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

Requirements: Each record should have an entry for Age. A Null Value will be accepted. Records with invalid characters will be rejected.

Further Element Guidance: Calculated from Date of Birth; if DOB not available, ask age; if not possible approximate age.

AGE UNITS

E06_15

Data [combo] single-choice

National Element

Definition

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

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *AgeUnits*

Multiple Entry Configuration No

Accepts Null Values Yes

Required in XSD Yes

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

Field Values

-25 Not Applicable

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

700 Hours

705 Days

710 Months

715 Years

Uses

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

Data Collector

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

Other Associated Elements

E00 Common Null Values

E01_01 Patient Care Report Number

E06_14 Age

References in NHTSA Version 1

Desirable Element 41 Age

Requirements: Each record should have Age Units if appropriate, as determined by the EMSPIC navigation document. A Null Value will be accepted. Records with invalid characters will be rejected.

DATE OF BIRTH

E06_16

Data [date]

Definition

The patient's date of birth

XSD Data Type *xs:date*

XSD Domain (Simple Type) *DateOfBirth*

Multiple Entry Configuration No

Accepts Null Values No

Required in XSD Yes

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

Field Values

Uses

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

Data Collector

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

Other Associated Elements

E01_01 Patient Care Report Number

E06_01 Last Name

References in NHTSA Version 1

Essential Element 40 Date of Birth

References to Other Databases

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

Requirements: Each record should have a Date Of Birth entry if appropriate, as determined by the EMSPIC navigation document. A Null Value will be accepted.

Billing

PRIMARY METHOD OF PAYMENT

E07_01

Data [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 Values** Yes
Required in XSD Yes

Field Values

-25 Not Applicable	-20 Not Recorded
-15 Not Reporting	-10 Not Known
-5 Not Available	720 Insurance
725 Medicaid	730 Medicare
735 Not Billed (for any reason)	740 Other Government
745 Self Pay	750 Workers Compensation

Uses

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

Data Collector

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

Other Associated Elements

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

Requirements: Each record should have Primary Method Of Payment entry. Records with invalid characters will be rejected.

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

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

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

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

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

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

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

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

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

WORK-RELATED

E07_15

Data [combo] single-choice

Definition

Indication of whether or not the injury is work related.

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *YesNoValues*

Multiple Entry Configuration No

Accepts Null Values Yes

Required in XSD No

Field Values

-25 Not Applicable

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

0 No

1 Yes

Additional Information

- If work related this data point is associated with Patient's Occupational Industry (E07_16) and Patient's Occupation (E07_17)

Uses

- Can be used to better describe injuries along with the Injury specific data
- Key component of an EMS Medical Record for billing

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

Requirements: Each record should have a Work-Related entry. A Null Value will be accepted. Records with invalid characters will be rejected.

Data [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 Values** Yes
Required in XSD Yes

Field Values

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

Requirements: Each record should have CMS Service Level. A Null Value will be accepted. Records with invalid characters will be rejected.

Basic Life Support (BLS) - Basic life support (BLS) is transportation by ground ambulance vehicle and the provision of medically necessary supplies and services, including BLS ambulance services as defined by the State. The ambulance must be staffed by an individual who is qualified in accordance with State and local laws as an emergency medical technician-basic (EMT-Basic). These laws may vary from State to State or within a State. For example, only in some jurisdictions is an EMT-Basic permitted to operate limited equipment onboard the vehicle, assist more qualified personnel in performing assessments and interventions, and establish a peripheral intravenous (IV) line.

Basic Life Support (BLS) - Emergency - When medically necessary, the provision of BLS services, as specified above, in the context of an emergency response. An emergency response is one that, at the time the ambulance provider or supplier is called, it responds immediately. An immediate response is one in which the ambulance provider/supplier begins as quickly as possible to take the steps necessary to respond to the call.

Advanced Life Support, Level 1 (ALS1) - Advanced life support, level 1 (ALS1) is the transportation by ground ambulance vehicle and the provision of medically necessary supplies and services including the provision of an ALS assessment or at least one ALS intervention. An advanced life support (ALS) assessment is an assessment performed by an ALS crew as part of an emergency response that was necessary because the patient's reported condition at the time of dispatch was such that only an ALS crew was qualified to perform the assessment. An ALS assessment does not necessarily result in a determination that the patient requires an ALS level of service. An advanced life support (ALS) intervention is a procedure that is in accordance with State and local laws, required to be done by an emergency medical technician-intermediate (EMT-Intermediate) or EMT-Paramedic.

Advanced Life Support, Level 1 (ALS1) - Emergency - When medically necessary, the provision of ALS1 services, as specified above, in the context of an emergency response. An emergency response is one that, at the time the ambulance provider or supplier is called, it responds immediately. An immediate response is one in which the ambulance provider/supplier begins as quickly as possible to take the steps necessary to respond to the call.

Advanced Life Support, Level 2 (ALS2) - Advanced life support, level 2 (ALS2) is the transportation by ground ambulance vehicle and the provision of medically necessary supplies and services including (1) at least three separate administrations of one or more medications by intravenous push/bolus or by continuous infusion (excluding crystalloid fluids) or (2) ground ambulance transport, medically necessary supplies and services, and the provision of at least one of the ALS2 procedures listed below: a. Manual defibrillation/cardioversion; b. Endotracheal intubation; c. Central venous line; d. Cardiac pacing; e. Chest decompression; f. Surgical airway; or g. Intraosseous line.

Paramedic Intercept (PI) - Paramedic Intercept services are ALS services provided by an entity that does not provide the ambulance transport. This type of service is most often provided for an emergency ambulance transport in which a local volunteer ambulance that can provide only basic life support (BLS) level of service is dispatched to transport a patient. If the patient needs ALS services such as EKG monitoring, chest decompression, or I.V. therapy, another entity dispatches a paramedic to meet the BLS ambulance at the scene or once the ambulance is on the way to the hospital. The ALS paramedics then provide services to the patient. This tiered approach to life saving is cost effective in many areas because most volunteer ambulances do not charge for their services and one paramedic service can cover many communities. Prior to March 1, 1999, Medicare payment could be made for these services, but only when the claim was submitted by the entity that actually furnished the ambulance transport. Payment could not be made directly to the intercept service provider. In those areas where State laws prohibit volunteer ambulances from billing Medicare and other health insurance, the intercept service could not receive payment for treating a Medicare beneficiary and was forced to bill the beneficiary for the entire service. Paramedic intercept services furnished on or after March 1, 1999, may be payable separate from the ambulance transport, subject to the requirements specified below. The intercept service(s) is:

- Furnished in a rural area;
- Furnished under a contract with one or more volunteer ambulance services; and,
- Medically necessary based on the condition of the beneficiary receiving the ambulance service.

In addition, the volunteer ambulance service involved must:

- Meet the program's certification requirements for furnishing ambulance services;
- Furnish services only at the BLS level at the time of the intercept; and,
- Be prohibited by State law from billing anyone for any service.

Finally, the entity furnishing the ALS paramedic intercept service must:

- Meet the program's certification requirements for furnishing ALS services, and,
- Bill all recipients who receive ALS paramedic intercept services from the entity, regardless of whether or not those recipients are Medicare beneficiaries.

For purposes of the paramedic intercept benefit, a rural area is an area that is designated as rural by a State law or regulation or any area outside of a Metropolitan Statistical Area or in New England, outside a New England County Metropolitan Area as defined by the Office of Management and Budget. The current list of these areas is periodically published in the Federal Register.

Specialty Care Transport (SCT) - Specialty care transport (SCT) is the interfacility transportation of a critically injured or ill beneficiary by a ground ambulance vehicle, including the provision of medically necessary supplies and services, at a level of service beyond the scope of the EMT-Paramedic. SCT is necessary when a beneficiary's condition requires ongoing care that must be furnished by one or more health professionals in an appropriate specialty area, for example, emergency or critical care nursing, emergency medicine, respiratory care, cardiovascular care, or a paramedic with additional training. The EMT-Paramedic level of care is set by each State. Care above that level that is medically necessary and that is furnished at a level of service above the EMT-Paramedic level of care is considered SCT. That is to say, if EMT-Paramedics - without specialty care certification or qualification - are permitted to furnish a given service in a State, then that service does not qualify for SCT. The phrase "EMT-Paramedic with additional training" recognizes that a State may permit a person who is not only certified as an EMT-Paramedic, but who also has successfully completed additional education as determined by the State in furnishing higher level medical services required by critically ill or critically injured patients, to furnish a level of service that otherwise would require a health professional in an appropriate specialty care area (for example, a nurse) to provide. "Additional training" means the specific additional training that a State requires a paramedic to complete in order to qualify to furnish specialty care to a critically ill or injured patient during an SCT.

Fixed Wing (FW) Air Ambulance - Fixed Wing air ambulance is the transportation by a fixed wing aircraft that is certified by the Federal Aviation Administration (FAA) as a fixed wing air ambulance and the provision of medically necessary services and supplies.

Rotary Wing (RW) Air Ambulance - Rotor Wing air ambulance is the transportation by a helicopter that is certified by the FAA as a rotary wing ambulance, including the provision of medically necessary supplies and services.

Data [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 Values** Yes
Required in XSD Yes **Minimum Constraint** 2 **Maximum Constraint** 30
 XSD Structure: E07_35, E07_36 are members of E07_35_0 Condition Codes Structure

Field Values

- | | |
|--|---|
| -25 Not Applicable | -20 Not Recorded |
| -15 Not Reporting | -10 Not Known |
| -5 Not Available | 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) | 8057 Near Drowning (ALS-994.1) |

- 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)

- 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)

Additional Information

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

Uses

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

Data Collector

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

Other Associated Elements

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

Requirements: Each record should have a Condition Code Number. A Null Value will be accepted. Records with invalid characters will be rejected.

Scene

NUMBER OF PATIENTS AT SCENE

E08_05

Data [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 Values Yes

Required in XSD Yes

Field Values

-25 Not Applicable

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

1120 None

1125 Single

1130 Multiple

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

E00 Common Null Values

E01_01 Patient Care Report Number

References to Other Databases

- NFIRS 5.0 EMS Module; Title: Number of Patients; The total number of patients.

Requirements: Each record should have a Number Of Patients At Scene entry. A Null Value will be accepted. Records with invalid characters will be rejected.

MASS CASUALTY INCIDENT

E08_06

Data [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 Values Yes

Required in XSD Yes

Field Values

-25 Not Applicable

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

0 No

1 Yes

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

E00 Common Null Values

E01_01 Patient Care Report Number

Requirements: Each record should have a Mass Casualty Incident. A Null Value will be accepted. Records with invalid characters will be rejected.

Yes - Indicator if this event would be considered a Mass Casualty Incident (anything overwhelming existing EMS resources).

- A mass casualty incident is defined as an event which generates more patients at one time than locally available resources can manage using routine procedures or resulting in a number of victims large enough to disrupt the normal course of emergency and health care services and would require additional non-routine assistance.

INCIDENT LOCATION TYPE

E08_07

Data [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 Values Yes

Required in XSD Yes

Field Values

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

Additional Information

- Based on ICD-9

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

E00 Common Null Values

E01_01 Patient Care Report Number

References in NHTSA Version 1

Essential Element 05 Location Type

References to Other Databases

- UTSTEIN Title: Location of Arrest: Out of Hospital; Same as NHTSA E-Codes

Requirements: Each record should have an Incident Location Type entry. A Null Value will be accepted. Records with invalid characters will be rejected.

Home / Residence - Any home, apartment, or residence (not just the patient's home). Includes the yard, driveway, garage, pool, garden, or walk of a home, apartment, or residence. Excludes assisting living facilities.

Farm – A place of agriculture, except for a farmhouse, Includes land under cultivation and non-residential farm buildings.

Mine or Quarry – Includes sand pits, gravel pits, iron ore pits, and tunnels under construction.

Industrial Place and Premises – A place where things are made or are being built, includes construction sites, factories, warehouses, industrial plants, docks, and railway yards.

Place of Recreation or Sport – Includes amusement parks, public parks and playgrounds, sports fields/courts/courses, sports stadiums, skating rinks, gymnasiums, swimming pools, waterparks, and resorts.

Street or Highway – Any public street, road, highway, or avenue including boulevards, sidewalks and ditches.

Public Building (schools, government offices) – Any publicly owned building and its grounds, including schools and government offices.

Trade or Service (business, bars, restaurants, etc.) – Any privately owned building used for business and open to the public. Includes bars, restaurants, office buildings, churches, stores, bus/railway stations. Excludes health care facilities.

Health Care Facility (clinic, hospital) – A place where health care is delivered, includes, clinics, doctor's offices, and hospitals.

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

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

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

INCIDENT CITY

E08_12

Data [combo] single-choice

Definition

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

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

Field Values

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

Additional Information

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

Uses

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

Data Collector

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

Other Associated Elements

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

References in NHTSA Version 1

Essential Element 02 Incident City

Requirements: Each record should have an Incident City FIPS code. The City FIPS code must be from the Pa EMS approved list. If the State FIPS code is "42" then the Incident City FIPS code entry must be entered. A Null Value will be accepted when the State FIPS code is not "42". Records with invalid characters will be rejected.

INCIDENT COUNTY

E08_13

Data [combo] single-choice

Definition

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

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

Field Values

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

Additional Information

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

Uses

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

Data Collector

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

Other Associated Elements

E00 Common Null Values	E01_01 Patient Care Report Number
E08_07 Incident Location Type	

References in NHTSA Version 1

Essential Element 03 Incident County

Requirements: Each record should have an Incident County FIPS code. The County FIPS code must be from the Pa EMS approved list. If the State FIPS code is "42" then the Incident County FIPS code entry must be between 001 and 133. A Null Value will be accepted when the State FIPS code is not "42". Records with invalid characters will be rejected.

INCIDENT STATE

E08_14

Data [combo] single-choice

Definition

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

XSD Data Type *xs:string*

XSD Domain (Simple Type) *State*

Multiple Entry Configuration No

Accepts Null Values Yes

Required in XSD Yes

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

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

Additional Information

- 2 digit FIPS numeric code (Not State abbreviation)
- Could be filled in from 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

Requirements: Each record should have an Incident State FIPS code. The State FIPS code must be between "01" and "78". A Null Value will be rejected. Records with invalid characters will be rejected.

INCIDENT ZIP CODE

E08_15

Data [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 Values 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

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

Uses

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

Data Collector

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

Other Associated Elements

E00 Common Null Values

E01_01 Patient Care Report Number

E08_07 Incident Location Type

E08_11 Incident Address

E08_12 Incident City

E08_14 Incident State

Requirements: Each record should have an Incident Zip Code entry. Records with invalid characters will be rejected.

Situation

Data [combo] multiple-choice

National Element

Definition

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

XSD Data Type <i>xs:string</i>	XSD Domain (Simple Type) <i>PriorAid</i>
Multiple Entry Configuration Yes	Accepts Null Values Yes
Required in XSD Yes	Minimum Constraint 2 Maximum Constraint 30

Field Values

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

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
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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

Requirements: Each record should have Prior Aid. A Null Value will be accepted. Records with invalid characters will be rejected.

PRIOR AID PERFORMED BY

E09_02

Data [combo] multiple-choice

National Element

Definition

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

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *PriorAidPerformedBy*

Multiple Entry Configuration Yes

Accepts Null Values Yes

Required in XSD Yes

Field Values

-25 Not Applicable

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

1195 EMS Provider

1200 Law Enforcement

1205 Lay Person

1210 Other Healthcare Provider

1215 Patient

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

E00 Common Null Values

E01_01 Patient Care Report Number

Requirements: Each record should have Prior Aid Performed By. A Null Value will be accepted. Records with invalid characters will be rejected.

EMS Provider – Any dispatched responder who provides pre-hospital medical care.

Law Enforcement - Primary role is not to provide pre-hospital medical care.

Lay Person -

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

Patient – Person needing emergency medical services treatment or transportation.

OUTCOME OF THE PRIOR AID

E09_03

Data [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 Values Yes

Required in XSD Yes

Field Values

-25 Not Applicable

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

1220 Improved

1225 Unchanged

1230 Worse

Uses

- Allows data to be sorted based on the perceived outcome which resulted from specific prior aid received by the patient
- Allows data to describe aid which was provided prior to EMS arrival
- Used as a Quality Management tool to evaluate Bystander and First Responder involvement

Data Collector

- EMS personnel

Other Associated Elements

E00 Common Null Values

E01_01 Patient Care Report Number

Requirements: Each record should have an Outcome Of The Prior Aid entry. A Null Value will be accepted. Records with invalid characters will be rejected.

POSSIBLE INJURY

E09_04

Data [combo] single-choice

National Element

Definition

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

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *YesNoValues*

Multiple Entry Configuration No

Accepts Null Values Yes

Required in XSD Yes

Field Values

-25 Not Applicable

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

0 No

1 Yes

Additional Information

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

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

E00 Common Null Values

E01_01 Patient Care Report Number

Requirements: Each record should have a Possible Injury entry. A Null Value will be accepted. Records with invalid characters will be rejected.

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

Field Values

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

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
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References in NHTSA Version 1

Desirable Element 48 Chief Complaint

Requirements: Each record involving a patient should have Chief Complaint. A Null Value will be accepted. Records with invalid characters will be rejected.

CHIEF COMPLAINT ANATOMIC LOCATION

E09_11

Data [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 Values Yes

Required in XSD Yes

Field Values

-25 Not Applicable

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

1305 Abdomen

1310 Back

1315 Chest

1320 Extremity-Lower

1325 Extremity-Upper

1330 General/Global

1335 Genitalia

1340 Head

1345 Neck

Additional Information

- Possible Injury (E09_04), Chief Complaint Anatomic Location (E09_11), Chief Complaint Organ System (E09_12), and Primary Symptom (E09_13) are required to calculate the Reason for Encounter

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

E00 Common Null Values

E01_01 Patient Care Report Number

Requirements: Each record should have Chief Complaint Anatomic Location. A Null Value will be accepted. Records with invalid characters will be rejected.

CHIEF COMPLAINT ORGAN SYSTEM

E09_12

Data [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 Values** Yes
Required in XSD Yes

Field Values

-25 Not Applicable	-20 Not Recorded
-15 Not Reporting	-10 Not Known
-5 Not Available	1350 Cardiovascular
1355 CNS/Neuro	1360 Endocrine/Metabolic
1365 GI	1370 Global
1375 Musculoskeletal	1380 OB/Gyn
1385 Psych	1390 Pulmonary
1395 Renal	1400 Skin

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

Requirements: Each record should have Chief Complaint Organ System. A Null Value will be accepted. Records with invalid characters will be rejected.

Cardiovascular – Heart, Arteries, Veins

CNS / Neuro – Brain , Spinal Cord, Nerves

Endocrine / Metabolic – Diabetes, Thyroid, Liver

GI / Abdomen – Mouth, Esophagus, Stomach, Intestines

Global – Other Organs and Systems or Multiple Organs and Systems

Musculoskeletal / Injury – Muscles, Bones, Joints, Tendons, Ligaments, Cartilage

OB / GYN – Female Reproductive System

Psychiatric / Behavioral – Mental, Emotional, Behavioral

Respiratory – Lungs, Trachea, Airway

Renal / GU Problems – Kidneys, Male Reproductive System

Skin –

PRIMARY SYMPTOM

E09_13

Data [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 Values Yes

Required in XSD Yes

Field Values

-25 Not Applicable	-20 Not Recorded
-15 Not Reporting	-10 Not Known
-5 Not Available	1405 Bleeding
1410 Breathing Problem	1415 Change in responsiveness
1420 Choking	1425 Death
1430 Device/Equipment Problem	1435 Diarrhea
1440 Drainage/Discharge	1445 Fever
1450 Malaise	1455 Mass/Lesion
1460 Mental/Psych	1465 Nausea/Vomiting
1470 None	1475 Pain
1480 Palpitations	1485 Rash/Itching
1490 Swelling	1495 Transport Only
1500 Weakness	1505 Wound

Additional Information

- Possible Injury (E09_04), Chief Complaint Anatomic Location (E09_11), Chief Complaint Organ System (E09_12), and Primary Symptom (E09_13) are required to calculate the Reason for Encounter

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

E00 Common Null Values

E01_01 Patient Care Report Number

References in NHTSA Version 1

Essential Element 52 Signs and Symptoms Present

Requirements: Each record involving a patient should have a Primary Symptom entry. A Null Value will be accepted. Records with invalid characters will be rejected.

Bleeding – Active, Inactive, Internal or External.

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

Malaise – General non-specific feeling of illness.

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

OTHER ASSOCIATED SYMPTOMS

E09_14

Data [combo] multiple-choice

National Element

Definition

Other symptoms identified by the patient or observed by EMS personnel

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

Field Values

-25 Not Applicable	-20 Not Recorded
-15 Not Reporting	-10 Not Known
-5 Not Available	1510 Bleeding
1515 Breathing Problem	1520 Change in responsiveness
1525 Choking	1530 Death
1535 Device/Equipment Problem	1540 Diarrhea
1545 Drainage/Discharge	1550 Fever
1555 Malaise	1560 Mass/Lesion
1565 Mental/Psych	1570 Nausea/Vomiting
1575 None	1580 Pain
1585 Palpitations	1590 Rash/Itching
1595 Swelling	1600 Transport Only
1605 Weakness	1610 Wound

Additional Information

- This data element is used for Bioterrorism Syndromic Surveillance

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

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

References in NHTSA Version 1

Essential Element 52 Signs and Symptoms Present

Requirements: Each record involving a patient should have Other Associated Symptoms. A Null Value will be accepted. Records with invalid characters will be rejected.

PROVIDERS PRIMARY IMPRESSION

E09_15

Data [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 Values** Yes
Required in XSD Yes

Field Values

-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	1615	789.00- Abdominal pain / problems
1620	519.80- Airway obstruction	1625	995.30- Allergic reaction
1630	780.09- Altered level of consciousness	1635	312.90- Behavioral / psychiatric disorder
1640	427.50- Cardiac arrest	1645	427.90- Cardiac rhythm disturbance
1650	786.50- Chest pain / discomfort	1655	250.90- Diabetic symptoms (hypoglycemia)
1660	994.80- Electrocutation	1665	780.60- Hyperthermia
1670	780.90- Hypothermia	1675	785.59- Hypovolemia / shock
1680	987.90- Inhalation injury (toxic gas)	1685	798.99- Obvious death
1690	977.90- Poisoning / drug ingestion	1695	659.90- Pregnancy / OB delivery
1700	786.09- Respiratory distress	1705	799.10- Respiratory arrest
1710	780.30- Seizure	1715	959.90- Sexual assault / rape
1720	987.90- Smoke inhalation	1725	989.50- Stings / venomous bites
1730	436.00- Stroke / CVA	1735	780.20- Syncope / fainting
1740	959.90- Traumatic injury	1745	623.80- Vaginal hemorrhage

Additional Information

- ICD-9 Codes were retained over ICD-10 due to CMS's continued use of ICD-9 in the EMS Condition Codes

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

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

References in NHTSA Version 1

Essential Element 50 Providers Impression

References to Other Databases

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

Requirements: Each record involving a patient should have Provider's Primary Impression. A Null Value will be accepted. Records with invalid characters will be rejected.

PROVIDER'S SECONDARY IMPRESSION

E09_16

Data [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 Values** Yes
Required in XSD Yes

Field Values

-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	1750	789.00- Abdominal pain / problems
1755	519.80- Airway obstruction	1760	995.30- Allergic reaction
1765	780.09- Altered level of consciousness	1770	312.90- Behavioral / psychiatric disorder
1775	427.50- Cardiac arrest	1780	427.90- Cardiac rhythm disturbance
1785	786.50- Chest pain / discomfort	1790	250.90- Diabetic symptoms (hypoglycemia)
1795	994.80- Electrocutation	1800	780.60- Hyperthermia
1805	780.90- Hypothermia	1810	785.59- Hypovolemia / shock
1815	987.90- Inhalation injury (toxic gas)	1820	798.99- Obvious death
1825	977.90- Poisoning / drug ingestion	1830	659.90- Pregnancy / OB delivery
1835	786.09- Respiratory distress	1840	799.10- Respiratory arrest
1845	780.30- Seizure	1850	959.90- Sexual assault / rape
1855	987.90- Smoke inhalation	1860	989.50- Stings / venomous bites
1865	436.00- Stroke / CVA	1870	780.20- Syncope / fainting
1875	959.90- Traumatic injury	1880	623.80- Vaginal hemorrhage

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

Requirements: Each record involving a patient should have Provider's Secondary Impression. A Null Value will be accepted. Records with invalid characters will be rejected.

Situation/ Trauma

CAUSE OF INJURY

E10_01

Data [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 Values Yes

Required in XSD Yes

Field Values

-25 Not Applicable	-20 Not Recorded
-15 Not Reporting	-10 Not Known
-5 Not Available	1885 Bites (E906.0)
9500 Aircraft related accident (E84X.0)	9505 Bicycle Accident (E826.0)
9515 Chemical poisoning (E86X.0)	9520 Child battering (E967.0)
9525 Drowning (E910.0)	9530 Drug poisoning (E85X.0)
9535 Electrocution (non-lightning) (E925.0)	9540 Excessive Cold (E901.0)
9545 Excessive Heat (E900.0)	9550 Falls (E88X.0)
9555 Fire and Flames (E89X.0)	9560 Firearm assault (E965.0)
9565 Firearm injury (accidental) (E985.0)	9570 Firearm self inflicted (E955.0)
9575 Lightning (E907.0)	9580 Machinery accidents (E919.0)
9585 Mechanical Suffocation (E913.0)	9590 Motor Vehicle non-traffic accident (E82X.0)
9595 Motor Vehicle traffic accident (E81X.0)	9600 Motorcycle Accident (E81X.1)
9605 Non-Motorized Vehicle Accident (E848.0)	9610 Pedestrian traffic accident (E814.0)
9615 Radiation exposure (E926.0)	9620 Rape (E960.1)
9625 Smoke Inhalation (E89X.2)	9630 Stabbing/Cutting Accidental (E986.0)
9635 Stabbing/Cutting Assault (E966.0)	9640 Struck by Blunt/Thrown Object (E968.2)
9645 Venomous stings (plants, animals) (E905.0)	9650 Water Transport accident (E83X.0)

Additional Information

- Complete only if Possible Injury (E09_04) is "Yes"
- ICD-9 Codes were retained over ICD-10 due to CMS's continued use of ICD-9 in the EMS Condition Codes

Uses

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

Data Collector

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

Other Associated Elements

E00 Common Null Values

E01_01 Patient Care Report Number

References in NHTSA Version 1

Essential Element 49 Cause of Injury

References to Other Databases

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

Requirements: If E09_04 = "Yes" then each record should have a Cause Of Injury entry. A Null Value will be accepted. Records with invalid characters will be rejected.

INTENT OF THE INJURY

E10_02

Data [combo] single-choice

Definition

The intent of the individual inflicting the injury

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *IntentOfInjury*

Multiple Entry Configuration No

Accepts Null Values Yes

Required in XSD No

Field Values

-25 Not Applicable

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

2020 Intentional, Other (Assaulted)

2025 Intentional, Self

2030 Unintentional

Additional Information

- Complete only if Possible Injury (E09_04) is "Yes"

Uses

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

Data Collector

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

Other Associated Elements

E00 Common Null Values

E01_01 Patient Care Report Number

References in NHTSA Version 1

Desirable Element 54 Injury Intent

References to Other Databases

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

Requirements: If E09_04 = "Yes" then record should have an Intent Of The Injury entry. A Null Value will be accepted. Records with invalid characters will be rejected.

VEHICULAR INJURY INDICATORS

E10_04

Data [combo] multiple-choice

Definition

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

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

Field Values

-25 Not Applicable	-20 Not Recorded
-15 Not Reporting	-10 Not Known
-5 Not Available	2055 Dash Deformity
2060 DOA Same Vehicle	2065 Ejection
2070 Fire	2075 Rollover/Roof Deformity
2080 Side Post Deformity	2085 Space Intrusion >1 foot
2090 Steering Wheel Deformity	2095 Windshield Spider/Star

Additional Information

- Complete only if Possible Injury (E09_04) is "Yes"

Uses

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

Data Collector

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

Other Associated Elements

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

Requirements: If E09_04 = "Yes" then record should have a Vehicle Injury Indicators entry. A Null Value will be accepted. Records with invalid characters will be rejected.

USE OF OCCUPANT SAFETY EQUIPMENT

E10_08

Data [combo] multiple-choice

Definition

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

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

Field Values

-25 Not Applicable	-20 Not Recorded
-15 Not Reporting	-10 Not Known
-5 Not Available	2170 Child Restraint
2175 Eye Protection	2180 Helmet Worn
2185 Lap Belt	2187 None
2190 Other	2195 Personal Floatation Device
2200 Protective Clothing	2205 Protective Non-Clothing Gear
2210 Shoulder Belt	

Additional Information

- Complete only if Possible Injury (E09_04) is "Yes"

Uses

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

Data Collector

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

Other Associated Elements

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

References in NHTSA Version 1

Essential Element 55 Safety Equipment

References to Other Databases

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

Requirements: If E09_04 = "Yes" then record should have a Use Of Occupant Safety Equipment entry. A Null Value will be accepted. Records with invalid characters will be rejected.

AIRBAG DEPLOYMENT

E10_09

Data [combo] multiple-choice

Definition

Indication of Airbag deployment during the motor vehicle crash.

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *AirbagDeployment*

Multiple Entry Configuration Yes

Accepts Null Values Yes

Required in XSD No

Field Values

-25 Not Applicable

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

2215 No Airbag Present

2220 No Airbag Deployed

2225 Airbag Deployed Front

2230 Airbag Deployed Side

2235 Airbag Deployed Other (knee, airbelt, etc.)

Additional Information

- Complete only if Possible Injury (E09_04) is "Yes"

Uses

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

Data Collector

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

Other Associated Elements

E00 Common Null Values

E01_01 Patient Care Report Number

References in NHTSA Version 1

Essential Element 55 Safety Equipment

References to Other Databases

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

Requirements: If 09_04 = "Yes" then record an Airbag Deployment entry, as determined by the EMSPIC navigation document. A Null value will be accepted. Records with invalid characters will be rejected.

HEIGHT OF FALL

E10_10

Data [number]

Definition

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

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

Field Values

Additional Information

- Complete only if Possible Injury (E09_04) is "Yes"

Uses

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

Data Collector

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

Other Associated Elements

E01_01 Patient Care Report Number

Requirements: If E09_04 = "Yes" then record a Height Of Fall entry if appropriate, as determined by the EMSPIC navigation document. Records with invalid characters will be rejected.

Situation/ CPR

CARDIAC ARREST

E11_01

Data [combo] single-choice

National Element

Definition

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

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *CardiacArrest*

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

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

Requirements: Enter record for Cardiac Arrest if appropriate, as determined by the EMSPIC navigation document. A Null Value will be accepted. Records with invalid characters will be rejected.

CARDIAC ARREST ETIOLOGY

E11_02

Data [combo] single-choice

National Element

Definition

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

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *CardiacArrestEtiology*

Multiple Entry Configuration No

Accepts Null Values Yes

Required in XSD Yes

Field Values

-25 Not Applicable

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

2250 Presumed Cardiac

2255 Trauma

2260 Drowning

2265 Respiratory

2270 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

Requirements: If E11_01 = "Yes" then record a Cardiac Arrest Etiology entry. A Null Value will be accepted. Records with invalid characters will be rejected.

RESUSCITATION ATTEMPTED

E11_03

Data [combo] multiple-choice

National Element

Definition

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

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

Field Values

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

Additional Information

- Complete only if Cardiac Arrest (E11_01) is "Yes"

Uses

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

Data Collector

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

Other Associated Elements

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

References to Other Databases

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

Requirements: If E11_01 = "Yes" then record a Resuscitation Attempted entry. A Null Value will be accepted. Records with invalid characters will be rejected.

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

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

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

Requirements: If E11_01="Yes" then record an Arrest Witness By entry. A Null Value will be accepted. Records with invalid characters will be rejected.

FIRST MONITORED RHYTHM OF THE PATIENT

E11_05

Data [combo] single-choice

Definition

Documentation of what the first monitored rhythm which was noted

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

Field Values

-25 Not Applicable	-20 Not Recorded
-15 Not Reporting	-10 Not Known
-5 Not Available	2325 Asystole
2330 Bradycardia	2335 Normal Sinus Rhythm
2340 Other	2345 PEA
2350 Unknown AED Non-Shockable Rhythm	2355 Unknown AED Shockable Rhythm
2360 Ventricular Fibrillation	2365 Ventricular Tachycardia

Additional Information

- Complete only if Cardiac Arrest (E11_01) is "Yes"

Uses

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

Data Collector

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

Other Associated Elements

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

References to Other Databases

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

Requirements: If E11_01= "Yes" then record a First Monitored Rhythm Of The Patient entry, as determined by the EMSPIC navigation document. A Null Value will be accepted. Records with invalid characters will be rejected.

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

Requirements: If E11_01= "Yes" then record a Cardiac Rhythm On Arrival At Destination entry, as determined by the EMSPIC navigation document. A Null Value will be acceptable. Records with invalid characters will be rejected.

Medical History

BARRIERS TO PATIENT CARE

E12_01

Data [combo] multiple-choice

National Element

Definition

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

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

Field Values

-25 Not Applicable	-20 Not Recorded
-15 Not Reporting	-10 Not Known
-5 Not Available	2600 Developmentally Impaired
2605 Hearing Impaired	2610 Language
2615 None	2620 Physically Impaired
2625 Physically Restrained	2630 Speech Impaired
2635 Unattended or Unsupervised (including minors)	2640 Unconscious

Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on any barriers to patient care
- Allows data to describe any barriers to care within the EMS agency which is important to many federal initiatives

Data Collector

- EMS personnel

Other Associated Elements

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

References in NHTSA Version 1

Desirable Element 56 Factors Affecting EMS Delivery of Care

References to Other Databases

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

Requirements: Each record should have Barriers To Patient Care. A Null Value will be accepted. Records with invalid characters will be rejected.

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

Requirements: Enter record for Medication Allergies if medication is administered. A Null Value will be accepted if there is no information to report. Records with invalid characters will be rejected.

MEDICAL/SURGICAL HISTORY

E12_10

Data [combo or text] multiple-choice

Definition

The patient's pre-existing medical and surgery history of the patient

XSD Data Type *xs:string*

XSD Domain (Simple Type) *MedicalSurgicalHistory*

Multiple Entry Configuration Yes

Accepts Null Values Yes

Required in XSD No

Minimum Constraint 2

Maximum Constraint 30

Field Values

-25 Not Applicable

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

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

Requirements: Enter record for Medical/Surgical History if medication is administered. A Null Value will be accepted if there is no information to report. Records with invalid characters will be rejected.

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

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

Requirements: Enter record for Current Medications if medication is administered. A Null Value will be accepted if there is no information to report. Records with invalid characters will be rejected.

ALCOHOL/DRUG USE INDICATORS

E12_19

Data [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 Values** Yes
Required in XSD Yes

Field Values

-25 Not Applicable	-20 Not Recorded
-15 Not Reporting	-10 Not Known
-5 Not Available	2985 Smell of Alcohol on Breath
2990 Patient Admits to Alcohol Use	2995 Patient Admits to Drug Use
3000 Alcohol and/or Drug Paraphernalia at Scene	3001 None

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

Requirements: Each record should have Alcohol/Drug Use Indicators if appropriate, as determined by the EMSPIC navigation document. A Null Value will be acceptable. Records with invalid characters will be rejected.

Narrative

RUN REPORT NARRATIVE

E13_01

Data [text]

Definition

The narrative of the run report

XSD Data Type <i>xs:string</i>	XSD Domain (Simple Type) <i>RunReportNarrative</i>
Multiple Entry Configuration No	Accepts Null Values Yes
Required in XSD No	Minimum Constraint 2 Maximum Constraint 4,000

Field Values

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

Additional Information

- Large capacity text field such as a “memo” or equivalent

Uses

- Part of an EMS Medical Record

Data Collector

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

Other Associated Elements

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

Requirements: A Null Value will be accepted if there is no information to narrate. Field limited to 8000 characters.

Assessment/ Vital Signs

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) Yes for each E14_01 Date/Time
Accepts Null Values Yes

Required in XSD No

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

Field Values

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

Requirements: Enter record for Cardiac Rhythm if appropriate, as determined by the EMSPIC navigation document. A Null Value will be acceptable. Records with invalid characters will be rejected.

SBP (SYSTOLIC BLOOD PRESSURE)

E14_04

Data [number]

Definition

The patient's systolic blood pressure

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *SBP*

Multiple Entry Configuration Yes, via structure

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

Required in XSD No

Minimum Constraint 0

Maximum Constraint 400

XSD Structure: (1) Each element in section E14 is associated with a E14_01 Date/Time. (2) E14_04, E14_05, and E14_06 are all members of E14_04_0 Blood Pressure Structure

Field Values

Additional Information

- Could be collected from Device 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

Requirements: Enter record for Systolic Blood Pressure if appropriate, as determined by the EMSPIC navigation document. A Null Value will be acceptable. Records with invalid characters will be rejected.

DBP (DIASTOLIC BLOOD PRESSURE)

E14_05

Data [number]

Definition

The patient's diastolic blood pressure

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *DBP*

Multiple Entry Configuration Yes, via structure

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

Required in XSD No

Minimum Constraint 0

Maximum Constraint 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

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

Requirements: Enter record for Diastolic Blood Pressure if appropriate, as determined by the EMSPIC navigation document. A Null Value will be acceptable. Records with invalid characters will be rejected.

METHOD OF BLOOD PRESSURE MEASUREMENT

E14_06

Data [combo] single-choice

Definition

Indication of method of blood pressure procedure.

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

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

Required in XSD No

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

3150 Arterial Line

3155 Automated Cuff

3160 Manual Cuff

3165 Palpated Cuff

3170 Venous Line

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_05 DBP (Diastolic Blood Pressure)

Requirements: Enter record for Method Of Blood Pressure Measurement based on either Systolic or Diastolic Blood Pressure entry. A Null Value will be accepted. Records with invalid characters will be rejected.

PULSE RATE

E14_07

Data [number]

Definition

The patient's pulse rate, palpated or auscultated, expressed as a number per minute

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *PulseRate*

Multiple Entry Configuration Yes, via structure
empty

Accepts Null Values Yes, but null value is blank or

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

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

Requirements: Enter record for Pulse Rate if appropriate, as determined by the EMSPIC navigation document. A Null Value will be accepted. Records with invalid characters will be rejected.

ELECTRONIC MONITOR RATE

E14_08

Data [number]

Definition

The patient's heart rate as recorded by an electronic monitoring device (ECG, pulse oximetry, etc.)

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *ElectricMonitorRate*

Multiple Entry Configuration Yes, via structure
empty

Accepts Null Values Yes, but null value is blank or

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

Additional Information

- Could be collected from Device Heart Rate (E21_12)

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

Requirements: Enter record for Electronic Monitor Rate if appropriate, as determined by the EMSPIC navigation document. A Null Value will be accepted. Records with invalid characters will be rejected.

RESPIRATORY RATE

E14_11

Data [number]

Definition

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

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *RespiratoryRate*

Multiple Entry Configuration Yes, via structure

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

Required in XSD No

Minimum Constraint 0

Maximum Constraint 100

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

Field Values

Additional Information

- Could be collected from Device Respiratory Rate (E21_16)

Uses

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

Data Collector

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

Other Associated Elements

E01_01 Patient Care Report Number

E14_01 Date/Time Vital Signs Taken

References in NHTSA Version 1

Essential Element 68 Respiratory Rate

Requirements: Enter record for Respiratory Rate if appropriate, as determined by the EMSPIC navigation document. A Null Value will be accepted if there is no information to report. Records with invalid characters will be rejected.

GLASGOW COMA SCORE-EYE

E14_15

Data [number]

Definition

The patient's Glasgow Coma Score Eye opening

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *GCSEye*

Multiple Entry Configuration Yes, via structure

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

Required in XSD No

Minimum Constraint 1

Maximum Constraint 4

XSD Structure: (1) Each element in section E14 is associated with a E14_01 Date/Time. (2) E14_15, E14_16, E14_17, and E14_18 are all members of E14_15_0 GCS Score Structure

Field Values

- For All Age Groups: 1 = Does Not Open Eyes
- For All Age Groups: 2 = Opens Eyes to painful stimulation
- For All Age Groups: 3 = Opens Eyes to verbal stimulation
- For All Age Groups: 4 = Opens Eyes spontaneously

Additional Information

- Can be configured as a single choice list box

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

E01_01 Patient Care Report Number

E14_01 Date/Time Vital Signs Taken

E14_16 Glasgow Coma Score-Verbal

E14_17 Glasgow Coma Score-Motor

E14_18 Glasgow Coma Score-Qualifier

E14_19 Total Glasgow Coma Score

References in NHTSA Version 1

Essential Element 73 Glasgow Eye Opening Component

Requirements: Enter record for Glasgow Coma Score-Eye if appropriate, as determined by the EMSPIC navigation document. A Null Value will be accepted if there is no information to report. Records with invalid characters will be rejected.

GLASGOW COMA SCORE-VERBAL

E14_16

Data [number]

Definition

The patient's Glasgow Coma Score Verbal

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *GCSVerbal*

Multiple Entry Configuration Yes, via structure

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

Required in XSD No

Minimum Constraint 1

Maximum Constraint 5

XSD Structure: (1) Each element in section E14 is associated with a E14_01 Date/Time. (2) E14_15, E14_16, E14_17, and E14_18 are all members of E14_15_0 GCS Score Structure

Field Values

- Patients 0-23 months: 1 = None
- Patients 0-23 months: 2 = Persistent cry
- Patients 0-23 months: 3 = Inappropriate cry
- Patients 0-23 months: 4 = Cries, inconsolable
- Patients 0-23 months: 5 = Smiles, coos, cries appropriately
- Patients 2-5 years: 1 = None
- Patients 2-5 years: 2 = Grunts
- Patients 2-5 years: 3 = Cries and/or screams
- Patients 2-5 years: 4 = Inappropriate words
- Patients 2-5 years: 5 = Appropriate words
- Patients >5 years: 1 = None
- Patients >5 years: 2 = Non-specified sounds
- Patients >5 years: 3 = Inappropriate words
- Patients >5 years: 4 = Confused conversation or
- Patients >5 years: 5 = Oriented and appropriate speech

Additional Information

- Can be configured as a single choice list box

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

E01_01 Patient Care Report Number

E14_01 Date/Time Vital Signs Taken

E14_15 Glasgow Coma Score-Eye

E14_17 Glasgow Coma Score-Motor

E14_18 Glasgow Coma Score-Qualifier

E14_19 Total Glasgow Coma Score

References in NHTSA Version 1

Essential Element 74a Glasgow Verbal Component For patients >5 years

Essential Element 74b Glasgow Verbal Component For patients 2-5 years

Essential Element 74c Glasgow Verbal Component for patients 0-23 months

Requirements: Enter record for Glasgow Coma Score-Verbal if appropriate, as determined by the EMSPIC navigation document. A Null Value will be accepted if there is no information to report.

GLASGOW COMA SCORE-MOTOR

E14_17

Data [number]

Definition

The patient's Glasgow Coma Score Motor

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *GCSMotor*

Multiple Entry Configuration Yes, via structure

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

Required in XSD No

Minimum Constraint 1

Maximum Constraint 6

XSD Structure: (1) Each element in section E14 is associated with a E14_01 Date/Time. (2) E14_15, E14_16, E14_17, and E14_18 are all members of E14_15_0 GCS Score Structure

Field Values

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

Additional Information

- Can be configured as a single choice list box

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

E01_01 Patient Care Report Number

E14_01 Date/Time Vital Signs Taken

E14_15 Glasgow Coma Score-Eye

E14_16 Glasgow Coma Score-Verbal

E14_18 Glasgow Coma Score-Qualifier

E14_19 Total Glasgow Coma Score

References in NHTSA Version 1

Essential Element 75a Glasgow Motor Component For patients >5 years

Essential Element 75b Glasgow Motor Component For patients up to 5 years

Requirements: Enter record for Glasgow Coma Score-Motor if appropriate, as determined by the EMSPIC navigation document. A Null Value will be accepted if there is no information to report.

REVISED TRAUMA SCORE

E14_27

Data [number]

Definition

The patient's Revised Trauma Score

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *RTS*

Multiple Entry Configuration Yes, via structure

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

Required in XSD No

Minimum Constraint 0

Maximum Constraint 12

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

Field Values

Additional Information

- Calculated based on 3 components
- Can be auto-calculated from Respiratory Rate (E14_11), Systolic Blood Pressure (E14_04), and Total GCS (E14_19), if all three components are documented at the same Time (E14_01)
- Neurological Component: 4 = Glasgow coma score 13 - 15, 3 = Glasgow coma score 9 - 12, 2 = Glasgow coma score 6 - 8, 1 = Glasgow coma score 4 - 5, 0 = Glasgow coma score 3
- Respiratory Rate Component: 4 = 10 - 29 per minute, 3 = >29 per minute, 2 = 6 - 9 per minute, 1 = 1 - 5 per minute, 0 = None spontaneous
- Systolic Blood Pressure Component: 4 = >89 mm Hg, 3 = 76 - 89 mm Hg, 2 = 50 - 75 mm Hg, 1 = 1 - 49 mm Hg, 0 = No pulse

Uses

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

Data Collector

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

Other Associated Elements

E01_01 Patient Care Report Number

E14_01 Date/Time Vital Signs Taken

References in NHTSA Version 1

Desirable Element 77 Revised Trauma Score

Requirements: Enter Revised Trauma Score if appropriate, as determined by the EMSPIC navigation document. A Null Value will be accepted if there is no information to report.

PEDIATRIC TRAUMA SCORE

E14_28

Data [number]

Definition

The Trauma Score for patients age 12 and under

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *PediatricTraumaScore*

Multiple Entry Configuration Yes, via structure
empty

Accepts Null Values Yes, but null value is blank or

Required in XSD No

Minimum Constraint -6

Maximum Constraint 12

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

Field Values

Additional Information

- Age 12 and Under
- Calculated by adding the appropriate response for each of the 5 components below:
- Can be auto-calculated if programming logic is used to confirm all 5 components
- Component Airway: 2 = Normal, 1 = Maintainable, -1 = Un-maintainable or Intubated
- Component CNS: 2 = Awake, 1 = Altered Mental Status/Obtunded, -1 = Coma/Abnormal Flexion
- Component Open Wounds: 2 = None, 1 = Minor, -1 = Major/Penetrating
- Component Size: 2 = >20 kg, 1 = 10 – 20 kg, -1 = <10 kg
- Component Skeletal Injury: 2 = None, 1 = Closed Fracture, -1 = Open/Multiple Fractures
- Component Systolic Blood Pressure: 2 = > 90 mmHg (or palpable pulse at wrist), 1 = 50–90 mmHg (or palpable pulse at groin), -1 = < 50 mmHg (or no pulse palpable)

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

Requirements: Enter Pediatric Trauma Score if appropriate, as determined by the EMSPIC navigation document. A Null Value will be accepted if there is no information to report.

Assessment/ Injury

NHTSA INJURY MATRIX EXTERNAL/SKIN

E15_01

Data [combo] multiple-choice

Definition

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

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

Field Values

-25 Not Applicable	-20 Not Recorded
-15 Not Reporting	-10 Not Known
-5 Not Available	3320 Amputation
3325 Bleeding Controlled	3330 Bleeding Uncontrolled
3335 Burn	3340 Crush
3345 Dislocation Fracture	3350 Gunshot
3355 Laceration	3360 Pain without swelling/bruising
3365 Puncture/stab	3370 Soft Tissue Swelling/Bruising

Additional Information

- Blunt Injury Removed from NHTSA 1.0

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

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

References in NHTSA Version 1

Essential Element 53 Injury Description

References to Other Databases

- **NFIRS 5.0** EMS Module; Title: Body Site of Injury; Describes parts of the body where injuries occurred.; Pick-List (limited to 5 max body parts): Head = 1, Neck and Shoulder = 2, Thorax, Includes Chest and Back, Excludes Spine = 3, Abdomen = 4, Spine = 5, Upper Extremities = 6, Lower Extremities = 7, Internal = 8, Multiple Body Parts = 9, No Body Site of Injury = N
- **NFIRS 5.0** EMS Module; Title: Injury Type; Describes the primary injuries sustained by a patient for each part of the body.; Pick-List: Amputation = 10, Blunt Injury = 11, Burn = 12, Crush = 13, Dislocation/Fracture = 14, Gunshot = 15, Laceration = 16, Pain Without Swelling = 17, Puncture/Stab = 18, Soft Tissue Swelling = 19, Other Injury Type = 00

Requirements: Enter NHTSA Injury Matrix External/Skin if appropriate, as determined by the EMSPIC navigation document. A Null Value will be accepted if there is no information to report. Records with invalid characters will be rejected.

NHTSA INJURY MATRIX HEAD

E15_02

Data [combo] multiple-choice

Definition

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

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *NHTSAInjuryMatrix*

Multiple Entry Configuration Yes

Accepts Null Values Yes

Required in XSD No

Field Values

-25 Not Applicable

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

3320 Amputation

3325 Bleeding Controlled

3330 Bleeding Uncontrolled

3335 Burn

3340 Crush

3345 Dislocation Fracture

3350 Gunshot

3355 Laceration

3360 Pain without swelling/bruising

3365 Puncture/stab

3370 Soft Tissue Swelling/Bruising

Additional Information

- Blunt Injury Removed from NHTSA 1.0

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

E00 Common Null Values

E01_01 Patient Care Report Number

References in NHTSA Version 1

Essential Element 53 Injury Description

Requirements: Enter NHTSA Injury Matrix Head if appropriate, as determined by the EMSPIC navigation document. A Null Value will be accepted if there is no information to report. Records with invalid characters will be rejected.

NHTSA INJURY MATRIX FACE

E15_03

Data [combo] multiple-choice

Definition

Type of injury identified and associated with the Face (including ear)

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *NHTSAInjuryMatrix*

Multiple Entry Configuration Yes

Accepts Null Values Yes

Required in XSD No

Field Values

-25 Not Applicable

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

3320 Amputation

3325 Bleeding Controlled

3330 Bleeding Uncontrolled

3335 Burn

3340 Crush

3345 Dislocation Fracture

3350 Gunshot

3355 Laceration

3360 Pain without swelling/bruising

3365 Puncture/stab

3370 Soft Tissue Swelling/Bruising

Additional Information

- Blunt Injury Removed from NHTSA 1.0

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

E00 Common Null Values

E01_01 Patient Care Report Number

References in NHTSA Version 1

Essential Element 53 Injury Description

Requirements: Enter NHTSA Injury Matrix Face if appropriate, as determined by the EMSPIC navigation document. A Null Value will be accepted if there is no information to report. Records with invalid characters will be rejected.

NHTSA INJURY MATRIX NECK

E15_04

Data [combo] multiple-choice

Definition

Type of injury identified and associated with the Neck

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

Field Values

-25 Not Applicable	-20 Not Recorded
-15 Not Reporting	-10 Not Known
-5 Not Available	3320 Amputation
3325 Bleeding Controlled	3330 Bleeding Uncontrolled
3335 Burn	3340 Crush
3345 Dislocation Fracture	3350 Gunshot
3355 Laceration	3360 Pain without swelling/bruising
3365 Puncture/stab	3370 Soft Tissue Swelling/Bruising

Additional Information

- Blunt Injury Removed from NHTSA 1.0

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

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

References in NHTSA Version 1

Essential Element 53 Injury Description

References to Other Databases

- **NFIRS 5.0** EMS Module; Title: Body Site of Injury; Describes parts of the body where injuries occurred.; Pick-List (limited to 5 max body parts): Head = 1, Neck and Shoulder = 2, Thorax, Includes Chest and Back, Excludes Spine = 3, Abdomen = 4, Spine = 5, Upper Extremities = 6, Lower Extremities = 7, Internal = 8, Multiple Body Parts = 9, No Body Site of Injury = N
- **NFIRS 5.0** EMS Module; Title: Injury Type; Describes the primary injuries sustained by a patient for each part of the body.; Pick-List: Amputation = 10, Blunt Injury = 11, Burn = 12, Crush = 13, Dislocation/Fracture = 14, Gunshot = 15, Laceration = 16, Pain Without Swelling = 17, Puncture/Stab = 18, Soft Tissue Swelling = 19, Other Injury Type = 00

Requirements: Enter NHTSA Injury Matrix Neck if appropriate, as determined by the EMSPIC navigation document. A Null Value will be accepted if there is no information to report. Records with invalid characters will be rejected.

NHTSA INJURY MATRIX THORAX

E15_05

Data [combo] multiple-choice

Definition

Type of injury identified and associated with the Thorax (excluding the thoracic spine)

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *NHTSAInjuryMatrix*

Multiple Entry Configuration Yes

Accepts Null Values Yes

Required in XSD No

Field Values

-25 Not Applicable

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

3320 Amputation

3325 Bleeding Controlled

3330 Bleeding Uncontrolled

3335 Burn

3340 Crush

3345 Dislocation Fracture

3350 Gunshot

3355 Laceration

3360 Pain without swelling/bruising

3365 Puncture/stab

3370 Soft Tissue Swelling/Bruising

Additional Information

- Blunt Injury Removed from NHTSA 1.0

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

E00 Common Null Values

E01_01 Patient Care Report Number

References in NHTSA Version 1

Essential Element 53 Injury Description

References to Other Databases

- **NFIRS 5.0** EMS Module; Title: Body Site of Injury; Describes parts of the body where injuries occurred; Pick-List (limited to 5 max body parts): Head = 1, Neck and Shoulder = 2, Thorax, Includes Chest and Back, Excludes Spine = 3, Abdomen = 4, Spine = 5, Upper Extremities = 6, Lower Extremities = 7, Internal = 8, Multiple Body Parts = 9, No Body Site of Injury = N
- **NFIRS 5.0** EMS Module; Title: Injury Type; Describes the primary injuries sustained by a patient for each part of the body.; Pick-List: Amputation = 10, Blunt Injury = 11, Burn = 12, Crush = 13, Dislocation/Fracture = 14, Gunshot = 15, Laceration = 16, Pain Without Swelling = 17, Puncture/Stab = 18, Soft Tissue Swelling = 19, Other Injury Type = 00

Requirements: Enter NHTSA Injury Matrix Thorax if appropriate, as determined by the EMSPIC navigation document. A Null Value will be accepted if there is no information to report. Records with invalid characters will be rejected.

NHTSA INJURY MATRIX ABDOMEN

E15_06

Data [combo] multiple-choice

Definition

Type of injury identified and associated with the Abdomen (excluding the lumbar spine)

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *NHTSAInjuryMatrix*

Multiple Entry Configuration Yes

Accepts Null Values Yes

Required in XSD No

Field Values

-25 Not Applicable

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

3320 Amputation

3325 Bleeding Controlled

3330 Bleeding Uncontrolled

3335 Burn

3340 Crush

3345 Dislocation Fracture

3350 Gunshot

3355 Laceration

3360 Pain without swelling/bruising

3365 Puncture/stab

3370 Soft Tissue Swelling/Bruising

Additional Information

- Blunt Injury Removed from NHTSA 1.0

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

E00 Common Null Values

E01_01 Patient Care Report Number

References in NHTSA Version 1

Essential Element 53 Injury Description

References to Other Databases

- **NFIRS 5.0** EMS Module; Title: Body Site of Injury; Describes parts of the body where injuries occurred.; Pick-List (limited to 5 max body parts): Head = 1, Neck and Shoulder = 2, Thorax, Includes Chest and Back, Excludes Spine = 3, Abdomen = 4, Spine = 5, Upper Extremities = 6, Lower Extremities = 7, Internal = 8, Multiple Body Parts = 9, No Body Site of Injury = N
- **NFIRS 5.0** EMS Module; Title: Injury Type; Describes the primary injuries sustained by a patient for each part of the body.; Pick-List: Amputation = 10, Blunt Injury = 11, Burn = 12, Crush = 13, Dislocation/Fracture = 14, Gunshot = 15, Laceration = 16, Pain Without Swelling = 17, Puncture/Stab = 18, Soft Tissue Swelling = 19, Other Injury Type = 00

Requirements: Enter NHTSA Injury Matrix Abdomen if appropriate, as determined by the EMSPIC navigation document. A Null Value will be accepted if there is no information to report. Records with invalid characters will be rejected.

NHTSA INJURY MATRIX SPINE

E15_07

Data [combo] multiple-choice

Definition

Type of injury identified and associated with the Spine

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *NHTSAInjuryMatrix*

Multiple Entry Configuration Yes

Accepts Null Values Yes

Required in XSD No

Field Values

-25 Not Applicable

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

3320 Amputation

3325 Bleeding Controlled

3330 Bleeding Uncontrolled

3335 Burn

3340 Crush

3345 Dislocation Fracture

3350 Gunshot

3355 Laceration

3360 Pain without swelling/bruising

3365 Puncture/stab

3370 Soft Tissue Swelling/Bruising

Additional Information

- Blunt Injury Removed from NHTSA 1.0

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

E00 Common Null Values

E01_01 Patient Care Report Number

References in NHTSA Version 1

Essential Element 53 Injury Description

References to Other Databases

- **NFIRS 5.0** EMS Module; Title: Body Site of Injury; Describes parts of the body where injuries occurred.; Pick-List (limited to 5 max body parts): Head = 1, Neck and Shoulder = 2, Thorax, Includes Chest and Back, Excludes Spine = 3, Abdomen = 4, Spine = 5, Upper Extremities = 6, Lower Extremities = 7, Internal = 8, Multiple Body Parts = 9, No Body Site of Injury = N
- **NFIRS 5.0** EMS Module; Title: Injury Type; Describes the primary injuries sustained by a patient for each part of the body.; Pick-List: Amputation = 10, Blunt Injury = 11, Burn = 12, Crush = 13, Dislocation/Fracture = 14, Gunshot = 15, Laceration = 16, Pain Without Swelling = 17, Puncture/Stab = 18, Soft Tissue Swelling = 19, Other Injury Type = 00

Requirements: Enter NHTSA Injury Matrix Spine if appropriate, as determined by the EMSPIC navigation document. A Null Value will be accepted if there is no information to report. Records with invalid characters will be rejected.

NHTSA INJURY MATRIX UPPER EXTREMITIES

E15_08

Data [combo] multiple-choice

Definition

Type of injury identified and associated with the Upper Extremities

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *NHTSAInjuryMatrix*

Multiple Entry Configuration Yes

Accepts Null Values Yes

Required in XSD No

Field Values

-25 Not Applicable

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

3320 Amputation

3325 Bleeding Controlled

3330 Bleeding Uncontrolled

3335 Burn

3340 Crush

3345 Dislocation Fracture

3350 Gunshot

3355 Laceration

3360 Pain without swelling/bruising

3365 Puncture/stab

3370 Soft Tissue Swelling/Bruising

Additional Information

- Blunt Injury Removed from NHTSA 1.0

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

E00 Common Null Values

E01_01 Patient Care Report Number

References in NHTSA Version 1

Essential Element 53 Injury Description

References to Other Databases

- **NFIRS 5.0** EMS Module; Title: Body Site of Injury; Describes parts of the body where injuries occurred.; Pick-List (limited to 5 max body parts): Head = 1, Neck and Shoulder = 2, Thorax, Includes Chest and Back, Excludes Spine = 3, Abdomen = 4, Spine = 5, Upper Extremities = 6, Lower Extremities = 7, Internal = 8, Multiple Body Parts = 9, No Body Site of Injury = N
- **NFIRS 5.0** EMS Module; Title: Injury Type; Describes the primary injuries sustained by a patient for each part of the body.; Pick-List: Amputation = 10, Blunt Injury = 11, Burn = 12, Crush = 13, Dislocation/Fracture = 14, Gunshot = 15, Laceration = 16, Pain Without Swelling = 17, Puncture/Stab = 18, Soft Tissue Swelling = 19, Other Injury Type = 00

Requirements: Enter NHTSA Injury Matrix Upper Extremities if appropriate, as determined by the EMSPIC navigation document. A Null Value will be accepted if there is no information to report. Records with invalid characters will be rejected.

NHTSA INJURY MATRIX PELVIS

E15_09

Data [combo] multiple-choice

Definition

Type of injury identified and associated with the Pelvis

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

Field Values

-25 Not Applicable	-20 Not Recorded
-15 Not Reporting	-10 Not Known
-5 Not Available	3320 Amputation
3325 Bleeding Controlled	3330 Bleeding Uncontrolled
3335 Burn	3340 Crush
3345 Dislocation Fracture	3350 Gunshot
3355 Laceration	3360 Pain without swelling/bruising
3365 Puncture/stab	3370 Soft Tissue Swelling/Bruising

Additional Information

- Blunt Injury Removed from NHTSA 1.0

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

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

References in NHTSA Version 1

Essential Element 53 Injury Description

References to Other Databases

- **NFIRS 5.0** EMS Module; Title: Body Site of Injury; Describes parts of the body where injuries occurred.; Pick-List (limited to 5 max body parts): Head = 1, Neck and Shoulder = 2, Thorax, Includes Chest and Back, Excludes Spine = 3, Abdomen = 4, Spine = 5, Upper Extremities = 6, Lower Extremities = 7, Internal = 8, Multiple Body Parts = 9, No Body Site of Injury = N
- **NFIRS 5.0** EMS Module; Title: Injury Type; Describes the primary injuries sustained by a patient for each part of the body.; Pick-List: Amputation = 10, Blunt Injury = 11, Burn = 12, Crush = 13, Dislocation/Fracture = 14, Gunshot = 15, Laceration = 16, Pain Without Swelling = 17, Puncture/Stab = 18, Soft Tissue Swelling = 19, Other Injury Type = 00

Requirements: Enter NHTSA Injury Matrix Pelvis if appropriate, as determined by the EMSPIC navigation document. A Null Value will be accepted if there is no information to report. Records with invalid characters will be rejected.

NHTSA INJURY MATRIX LOWER EXTREMITIES

E15_10

Data [combo] multiple-choice

Definition

Type of injury identified and associated with the Lower Extremities

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

Field Values

-25 Not Applicable	-20 Not Recorded
-15 Not Reporting	-10 Not Known
-5 Not Available	3320 Amputation
3325 Bleeding Controlled	3330 Bleeding Uncontrolled
3335 Burn	3340 Crush
3345 Dislocation Fracture	3350 Gunshot
3355 Laceration	3360 Pain without swelling/bruising
3365 Puncture/stab	3370 Soft Tissue Swelling/Bruising

Additional Information

- Blunt Injury Removed from NHTSA 1.0

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

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

References in NHTSA Version 1

Essential Element 53 Injury Description

References to Other Databases

- **NFIRS 5.0** EMS Module; Title: Body Site of Injury; Describes parts of the body where injuries occurred.; Pick-List (limited to 5 max body parts): Head = 1, Neck and Shoulder = 2, Thorax, Includes Chest and Back, Excludes Spine = 3, Abdomen = 4, Spine = 5, Upper Extremities = 6, Lower Extremities = 7, Internal = 8, Multiple Body Parts = 9, No Body Site of Injury = N
- **NFIRS 5.0** EMS Module; Title: Injury Type; Describes the primary injuries sustained by a patient for each part of the body.; Pick-List: Amputation = 10, Blunt Injury = 11, Burn = 12, Crush = 13, Dislocation/Fracture = 14, Gunshot = 15, Laceration = 16, Pain Without Swelling = 17, Puncture/Stab = 18, Soft Tissue Swelling = 19, Other Injury Type = 00

Requirements: Enter NHTSA Injury Matrix Lower Extremities if appropriate, as determined by the EMSPIC navigation document. A Null Value will be accepted if there is no information to report. Records with invalid characters will be rejected.

NHTSA INJURY MATRIX UNSPECIFIED

E15_11

Data [combo] multiple-choice

Definition

Type of injury identified and associated with Unspecified

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *NHTSAInjuryMatrix*

Multiple Entry Configuration Yes

Accepts Null Values Yes

Required in XSD No

Field Values

-25 Not Applicable

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

3320 Amputation

3325 Bleeding Controlled

3330 Bleeding Uncontrolled

3335 Burn

3340 Crush

3345 Dislocation Fracture

3350 Gunshot

3355 Laceration

3360 Pain without swelling/bruising

3365 Puncture/stab

3370 Soft Tissue Swelling/Bruising

Additional Information

- Blunt Injury Removed from NHTSA 1.0

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

E00 Common Null Values

E01_01 Patient Care Report Number

References in NHTSA Version 1

Essential Element 53 Injury Description

References to Other Databases

- **NFIRS 5.0** EMS Module; Title: Body Site of Injury; Describes parts of the body where injuries occurred.; Pick-List (limited to 5 max body parts): Head = 1, Neck and Shoulder = 2, Thorax, Includes Chest and Back, Excludes Spine = 3, Abdomen = 4, Spine = 5, Upper Extremities = 6, Lower Extremities = 7, Internal = 8, Multiple Body Parts = 9, No Body Site of Injury = N
- **NFIRS 5.0** EMS Module; Title: Injury Type; Describes the primary injuries sustained by a patient for each part of the body.; Pick-List: Amputation = 10, Blunt Injury = 11, Burn = 12, Crush = 13, Dislocation/Fracture = 14, Gunshot = 15, Laceration = 16, Pain Without Swelling = 17, Puncture/Stab = 18, Soft Tissue Swelling = 19, Other Injury Type = 00

Requirements: Enter NHTSA Injury Matrix Unspecified if appropriate, as determined by the EMSPIC navigation document. A Null Value will be accepted if there is no information to report. Records with invalid characters will be rejected.

Intervention/ Medication

MEDICATION GIVEN

E18_03

Data [combo] single-choice

National Element

Definition

The medication given to the patient

XSD Data Type *xs:string*

XSD Domain (Simple Type) *MedicationsGiven*

Multiple Entry Configuration Yes, via structure

Accepts Null Values Yes

Required in XSD Yes

Minimum Constraint 2

Maximum Constraint 30

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

Field Values

-25 Not Applicable

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

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

Requirements: Each record should have a Medication Given entry if medication was given. A Null Value will be accepted. Records with invalid characters will be rejected.

MEDICATION DOSAGE

E18_05

Data [number]

Definition

The dose or amount of medication given to the patient

XSD Data Type *xs:decimal*

XSD Domain (Simple Type) *MedicationDosage*

Multiple Entry Configuration Yes, via structure

Accepts Null Values No

Required in XSD No

Minimum Constraint 0

Maximum Constraint 1,000,000

XSD Structure: (1) All data elements section E18 are members of the E18 Medication Structure. (2) E18_05 and E18_06 are members of E18_05_0 Medication Dosing Structure

Field Values

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

E01_01 Patient Care Report Number

E18_01 Date/Time Medication Administered

E18_02 Medication Administered Prior to this Units
EMS Care

E18_03 Medication Given

E18_04 Medication Administered Route

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

Requirements: Each record should have a Medication Dosage entry if medication was given. Records with invalid characters will be rejected.

MEDICATION DOSAGE UNITS

E18_06

Data [combo] single-choice

Definition

The units of medication dosage given to patient

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

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

Required in XSD No

XSD Structure: (1) All data elements section E18 are members of the E18 Medication Structure. (2) E18_05 and E18_06 are members of E18_05_0 Medication Dosing Structure

Field Values

4295 GMS	4300 Inches
4305 IU	4310 KVO (TKO)
4315 L/MIN	4320 LITERS
4325 LPM	4330 MCG
4335 MCG/KG/MIN	4340 MEQ
4345 MG	4350 MG/KG/MIN
4355 ML	4360 ML/HR
4365 Other	4370 Puffs

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

E01_01 Patient Care Report Number	E18_01 Date/Time Medication Administered
E18_02 Medication Administered Prior to this Units EMS Care	E18_03 Medication Given
E18_03 Medication Given	E18_04 Medication Administered Route
E18_05 Medication Dosage	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 to Other Databases

- DEEDS DEEDS/HL-7 Version 2.3

Requirements: Each record should have a Medication Dosage Unit entry if medication was given. Records with invalid characters will be rejected.

MEDICATION COMPLICATION

E18_08

Data [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) **Accepts Null Values** Yes

Yes for each E14_01

Date/Time

Required in XSD Yes

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

Field Values

-25 Not Applicable

-15 Not Reporting

-5 Not Available

4395 Altered Mental Status

4405 Bleeding

4415 Diarrhea

4425 Hypertension

4435 Hypotension

4445 Injury

4455 Nausea

4465 Respiratory Distress

4475 Vomiting

-20 Not Recorded

-10 Not Known

4390 None

4400 Apnea

4410 Bradycardia

4420 Extravasation

4430 Hyperthermia

4440 Hypoxia

4450 Itching/Urticaria

4460 Other

4470 Tachycardia

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

Requirements: Enter a record for Medication Complication if medication was given. A Null Value will be accepted. Records with invalid characters will be rejected.

Intervention/ Procedure

PROCEDURE PERFORMED PRIOR TO THIS UNITS EMS CARE

E19_02

Data [combo] single-choice

Definition

Indicates that the procedure which was performed and documented was performed prior to this EMS unit's care.

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

Required in XSD No

XSD Structure: Data Elements E19_01 through E19_11 are all members of E19_01_0 Procedure Structure

Field Values

-25 Not Applicable	-20 Not Recorded
-15 Not Reporting	-10 Not Known
-5 Not Available	0 No
1 Yes	

Additional Information

- If E19_02 is "Yes", the Date/Time Medication Administered (E19_01) is not required

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

E00 Common Null Values	E01_01 Patient Care Report Number
E19_01 Date/Time Procedure Performed Successfully	E19_03 Procedure
E19_04 Size of Procedure Equipment	E19_05 Number of Procedure Attempts
E19_06 Procedure Successful	E19_07 Procedure Complication
E19_08 Response to Procedure	E19_09 Procedure Crew Members ID
E19_10 Procedure Authorization	E19_11 Procedure Authorizing Physician

Requirements: Enter a record for Procedure Performed Prior To This Units EMS Care if appropriate, as determined by the EMSPIC navigation document. A Null Value will be accepted if there is no information to report. Records with invalid characters will be rejected.

Data [combo] single-choice

National Element

Definition

The procedure performed on the patient.

XSD Data Type *xs:decimal* **XSD Domain (Simple Type)** *Procedure*
Multiple Entry Configuration Yes, via structure **Accepts Null Values** Yes
Required in XSD Yes **Minimum Constraint** 0 **Maximum Constraint** 1,000
 XSD Structure: Data Elements E19_01 through E19_11 are all members of E19_01_0 Procedure Structure

Field Values

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

Additional Information

- List created from Procedures (D04_04)

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

E00 Common Null Values	E01_01 Patient Care Report Number
E19_01 Date/Time Procedure Performed Successfully	E19_02 Procedure Performed Prior to this Units EMS Care
E19_04 Size of Procedure Equipment	E19_05 Number of Procedure Attempts
E19_06 Procedure Successful	E19_07 Procedure Complication
E19_08 Response to Procedure	E19_09 Procedure Crew Members ID
E19_10 Procedure Authorization	E19_11 Procedure Authorizing Physician

References in NHTSA Version 1

- Desirable Element 58 Time of First CPR
- Desirable Element 63 Time of First Defibrillatory Shock

References to Other Databases

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

Requirements: Enter for each record a Procedure if appropriate, as determined by the EMSPIC navigation document. A Null Value will be accepted if there is no information to report. Records with invalid characters will be rejected.

NUMBER OF PROCEDURE ATTEMPTS

E19_05

Data [number]

National Element

Definition

The number of attempts taken to complete a procedure or intervention regardless of success

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *NumberOfProcedureAttempts*

Multiple Entry Configuration Yes, via structure

Accepts Null Values Yes

Required in XSD Yes

Minimum Constraint -25

Maximum Constraint 100

XSD Structure: Data Elements E19_01 through E19_11 are all members of E19_01_0 Procedure Structure

Field Values

-25 Not Applicable

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

E00 Common Null Values

E01_01 Patient Care Report Number

E19_01 Date/Time Procedure Performed Successfully

E19_02 Procedure Performed Prior to this Units EMS Care

E19_03 Procedure

E19_04 Size of Procedure Equipment

E19_06 Procedure Successful

E19_07 Procedure Complication

E19_08 Response to Procedure

E19_09 Procedure Crew Members ID

E19_10 Procedure Authorization

E19_11 Procedure Authorizing Physician

Requirements: For each record, enter the Number Of Procedure Attempts if a Procedure entry was reported. A Null Value will be accepted. Records with invalid characters will be rejected.

PROCEDURE SUCCESSFUL

E19_06

Data [combo] single-choice

National Element

Definition

Indication of whether or not the procedure performed on the patient was successful

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *YesNoValues*

Multiple Entry Configuration Yes, via structure

Accepts Null Values Yes

Required in XSD Yes

XSD Structure: Data Elements E19_01 through E19_11 are all members of E19_01_0 Procedure Structure

Field Values

-25 Not Applicable

-15 Not Reporting

-5 Not Available

1 Yes

-20 Not Recorded

-10 Not Known

0 No

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

E00 Common Null Values

E19_01 Date/Time Procedure Performed Successfully

E19_03 Procedure

E19_05 Number of Procedure Attempts

E19_08 Response to Procedure

E19_10 Procedure Authorization

E01_01 Patient Care Report Number

E19_02 Procedure Performed Prior to this Units EMS Care

E19_04 Size of Procedure Equipment

E19_07 Procedure Complication

E19_09 Procedure Crew Members ID

E19_11 Procedure Authorizing Physician

Requirements: Each record should have a Procedure Successful entry if a Procedure was reported. A Null Value will be accepted. Records with invalid characters will be rejected.

PROCEDURE COMPLICATION

E19_07

Data [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 for each E14_01 Date/Time
Accepts Null Values Yes

Required in XSD Yes

XSD Structure: Data Elements E19_01 through E19_11 are all members of E19_01_0 Procedure Structure

Field Values

-25 Not Applicable	-20 Not Recorded
-15 Not Reporting	-10 Not Known
-5 Not Available	4500 None
4505 Altered Mental Status	4510 Apnea
4515 Bleeding	4520 Bradycardia
4525 Diarrhea	4530 Esophageal Intubation-immediately
4535 Esophageal Intubation-other	4540 Extravasation
4545 Hypertension	4550 Hyperthermia
4555 Hypotension	4560 Hypoxia
4565 Injury	4570 Itching/Urticaria
4575 Nausea	4580 Other
4585 Respiratory Distress	4590 Tachycardia
4595 Vomiting	

Uses

- Allows data to be sorted based on procedure complication
- Allows data to describe procedure complications which occur as a result of EMS treatment as part of a federal initiative to identify and reduce medical errors
- Part of an EMS Medical Record
- Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector

- EMS personnel

Other Associated Elements

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_06 Procedure Successful
E19_08 Response to Procedure	E19_09 Procedure Crew Members ID
E19_10 Procedure Authorization	E19_11 Procedure Authorizing Physician

Requirements: Each record should have a Procedure Complication entry if a Procedure was reported. A Null Value will be accepted. Records with invalid characters will be rejected.

PROCEDURE AUTHORIZATION

E19_10

Data [combo] single-choice

Definition

The type of procedure authorization obtained

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

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

Required in XSD No

XSD Structure: Data Elements E19_01 through E19_11 are all members of E19_01_0 Procedure Structure

Field Values

-25 Not Applicable

-15 Not Reporting

-5 Not Available

4620 On-Scene

4630 Written Orders (Patient Specific)

-20 Not Recorded

-10 Not Known

4615 On-Line

4625 Protocol (Standing Order)

Additional Information

- Associated with Procedure Authorization (E19_11) if the value is not "Protocol"

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

E00 Common Null Values

E19_01 Date/Time Procedure Performed Successfully

E19_03 Procedure

E19_05 Number of Procedure Attempts

E19_07 Procedure Complication

E19_09 Procedure Crew Members ID

E01_01 Patient Care Report Number

E19_02 Procedure Performed Prior to this Units EMS Care

E19_04 Size of Procedure Equipment

E19_06 Procedure Successful

E19_08 Response to Procedure

E19_11 Procedure Authorizing Physician

References in NHTSA Version 1

Desirable Element 81 Treatment Authorization

Requirements: Each record should have a Procedure Authorization entry if a Procedure was reported. A Null Value will be accepted. Records with invalid characters will be rejected.

SUCCESSFUL IV SITE

E19_12

Data [combo] multiple-choice

Definition

The location of the IV site (if applicable) on the patient

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

Field Values

-25 Not Applicable	-20 Not Recorded
-15 Not Reporting	-10 Not Known
-5 Not Available	4635 Antecubital-Left
4640 Antecubital-Right	4645 External Jugular-Left
4650 External Jugular-Right	4655 Femoral-Left IV
4660 Femoral-Left Distal IO	4665 Femoral-Right IV
4670 Femoral-Right IO	4675 Forearm-Left
4680 Forearm-Right	4685 Hand-Left
4690 Hand-Right	4695 Lower Extremity-Left
4700 Lower Extremity-Right	4705 Other
4710 Scalp	4715 Sternal IO
4720 Tibia IO-Left	4725 Tibia IO-Right
4730 Umbilical	

Uses

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

Data Collector

- EMS personnel

Other Associated Elements

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

Requirements: Enter for each record Successful IV Site if appropriate, as determined by the EMSPIC navigation document. A Null Value will be accepted if there is no information to report. Records with invalid characters will be rejected.

Disposition

DESTINATION/TRANSFERRED TO, CODE

E20_02

Data [text]

Definition

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

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

Field Values

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

Additional Information

- Could be an editable single choice list box derived from Hospitals Served (D04_12) and Other Destinations (D04_14)

Uses

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

Data Collector

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

Other Associated Elements

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

Requirements: Enter for each record Destination/Transferred To Code if appropriate, as determined by the EMSPIC navigation document. A Null Value should be entered if patient was not transported. Records with invalid characters will be rejected.

DESTINATION ZIP CODE

E20_07

Data [text]

National Element

Definition

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

XSD Data Type <i>xs:string</i>	XSD Domain (Simple Type) <i>Zip</i>
Multiple Entry Configuration No	Accepts Null Values 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 | -20 Not Recorded |
| -15 Not Reporting | -10 Not Known |
| -5 Not Available | |

Additional Information

- Can be 5 or 9 digit Zip Code

Uses

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

Data Collector

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

Other Associated Elements

E00 Common Null Values	E01_01 Patient Care Report Number
E20_01 Destination/Transferred To, Name	E20_03 Destination Street Address
E20_04 Destination City	E20_05 Destination State

Requirements: Each record should have a Destination Zip Code entry. A Null Value will be accepted. Records with invalid characters will be rejected.

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

Requirements: Each record should have an Incident/Patient Disposition entry. Records with invalid characters will be rejected.

TRANSPORT MODE FROM SCENE

E20_14

Data [combo] single-choice

National Element

Definition

Indication whether or not lights and/or sirens were used on the vehicle while leaving scene

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *TransportModeFromScene*

Multiple Entry Configuration No

Accepts Null Values Yes

Required in XSD Yes

Field Values

-25 Not Applicable

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

4955 Initial Lights and Sirens, Downgraded to No Lights or Sirens

4960 Initial No Lights or Sirens, Upgraded to Lights and Sirens

4965 Lights and Sirens

4970 No Lights or Sirens

Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the transportation mode
- Allows data to describe transportation mode used by EMS

Data Collector

- EMS personnel

Other Associated Elements

E00 Common Null Values

E01_01 Patient Care Report Number

References in NHTSA Version 1

Essential Element 46 Lights and Sirens used from the Scene

Requirements: Each record should have Transport Mode From Scene. A Null Value will be accepted. Records with invalid characters will be rejected.

CONDITION OF PATIENT AT DESTINATION

E20_15

Data [combo] single-choice

Definition

The condition of the patient after care by EMS

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

Field Values

-25 Not Applicable	-20 Not Recorded
-15 Not Reporting	-10 Not Known
-5 Not Available	4975 Improved
4980 Unchanged	4985 Worse

Uses

- Outcome indicator
- Part of an EMS Medical Record
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector

- EMS personnel

Other Associated Elements

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

References to Other Databases

- **NFIRS 5.0** EMS Module; Title: Patient Status; The patient's status when transferred to another agency.; Pick-List: Improved = 1, Remained Same = 2, Worsened = 3

Requirements: Each record should have Condition Of Patient At Destination. A Null Value will be accepted. Records with invalid characters will be rejected.

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

Requirements: Each record should have a Reason For Choosing Destination entry. A Null Value will be accepted. Records with invalid characters will be rejected.

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

Requirements: Each record should have Type Of Destination. A Null Value will be accepted. Records with invalid characters will be rejected.

Outcome and Linkage

EMERGENCY DEPARTMENT DISPOSITION

E22_01

Data [combo] single-choice

National Element

Definition

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

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

Field Values

-25 Not Applicable	-20 Not Recorded
-15 Not Reporting	-10 Not Known
-5 Not Available	5335 Admitted to Hospital Floor
5340 Admitted to Hospital ICU	5345 Death
5350 Not Applicable (Not Transported to ED)	5355 Released
5360 Transferred	

Uses

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

Data Collector

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

Other Associated Elements

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

Requirements: Each record should have an Emergency Department Disposition entry. A Null Value will be accepted. Records with invalid characters will be rejected.

HOSPITAL DISPOSITION

E22_02

Data [combo] single-choice

National Element

Definition

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

XSD Data Type *xs:integer*

XSD Domain (Simple Type) *HospitalDisposition*

Multiple Entry Configuration No

Accepts Null Values Yes

Required in XSD Yes

Field Values

-25 Not Applicable

-20 Not Recorded

-15 Not Reporting

-10 Not Known

-5 Not Available

5365 Death

5370 Discharged

5375 Transfer to Hospital

5380 Transfer to Nursing Home

5385 Transfer to Other

5390 Transfer to Rehabilitation Facility

Uses

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

Data Collector

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

Other Associated Elements

E00 Common Null Values

E01_01 Patient Care Report Number

References to Other Databases

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

Requirements: Each record should have a Hospital Disposition entry. A Null Value will be accepted. Records with invalid characters will be rejected.

Miscellaneous

PERSONAL PROTECTIVE EQUIPMENT USED

E23_03

Data [combo] multiple-choice

Definition

The personal protective equipment which was used by EMS personnel during this EMS patient contact.

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

Field Values

-25 Not Applicable	-20 Not Recorded
-15 Not Reporting	-10 Not Known
-5 Not Available	5435 Eye Protection
5440 Gloves	5445 Level A Suit
5450 Level B Suit	5455 Level C Suit
5460 Mask	5465 Other

Uses

- Important for the Quality Management evaluation of personnel performance and safety initiatives
- Part of an EMS Medical Record

Data Collector

- EMS personnel

Other Associated Elements

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

Requirements: Enter for each record Personal Protective Equipment Used if appropriate, as determined by the EMSPIC navigation document. A Null Value will be accepted if there is no information to report. Records with invalid characters will be rejected.

RESEARCH SURVEY FIELD

E23_09

Data [text]

Definition

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

XSD Data Type *xs:string* **XSD Domain (Simple Type)** *ResearchField*
Multiple Entry Configuration Yes, via structure **Accepts Null Values** Yes
Required in XSD No **Minimum Constraint** 2 **Maximum Constraint** 30
XSD Structure: Elements E23_09 and E23_11 are members of E23_09_0 Research Data Structure

Field Values

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

Additional Information

- A multiple entry configuration to allow multiple Research Survey Fields

Uses

- Used by local EMS agencies to document issues which are specific to an agency or related to research or short term evaluation

Data Collector

- EMS personnel

Other Associated Elements

E00 Common Null Values **E01_01** Patient Care Report Number
E23_11 Research Survey Field Title

Requirements: Enter for each record Research Survey Field Title if appropriate, as determined by the EMSPIC navigation document. A Null Value will be accepted if there is no information to report. Records with invalid characters will be rejected.

RESEARCH SURVEY FIELD TITLE

E23_11

Data [text]

Definition

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

XSD Data Type *xs:string* **XSD Domain (Simple Type)** *ResearchTitle*
Multiple Entry Configuration Yes, via structure **Accepts Null Values** No
Required in XSD No **Minimum Constraint** 2 **Maximum Constraint** 30
XSD Structure: Elements E23_09 and E23_11 are members of E23_09_0 Research Data Structure

Field Values

Additional Information

- A multiple entry configuration to allow multiple Research Survey Fields

Uses

- Used by local EMS agencies to document issues which are specific to an agency or related to research or short term evaluation

Data Collector

- EMS personnel

Other Associated Elements

E01_01 Patient Care Report Number **E23_09** Research Survey Field

Requirements: Enter for each record Research Survey Field Title if appropriate, as determined by the EMSPIC navigation document. A Null Value will be accepted if there is no information to report. Records with invalid characters will be rejected.

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