**ACKNOWLEDGEMENTS**

**CURRENT MEMBERS STATE EMS DATA COMMITTEE**

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steve Andriese</td>
<td>Administrator</td>
<td>Mountain Valley EMS Agency</td>
</tr>
<tr>
<td>Linda Combs</td>
<td>Sierra Sacramento Valley EMS Agency</td>
<td></td>
</tr>
<tr>
<td>Mike Denton, RN</td>
<td>Law Enforcement</td>
<td>Lawrence Livermore National Laboratory</td>
</tr>
<tr>
<td>Leo Derevin</td>
<td>Alameda County EMS Agency</td>
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</tr>
<tr>
<td>Maureen Hasbrouk, RN, MS</td>
<td>Data System Coordinator</td>
<td>Los Angeles County EMS Agency</td>
</tr>
<tr>
<td>Leif Juliussen</td>
<td>QI Program Director</td>
<td>Milipitas Fire Department</td>
</tr>
<tr>
<td>Anne Marcotte, RN, MSN</td>
<td>Quality Management Coordinator</td>
<td>Santa Clara County EMS Agency</td>
</tr>
<tr>
<td>Karl Nobuyki</td>
<td>Disaster Services Specialist</td>
<td>Los Angeles County Fire Department</td>
</tr>
<tr>
<td>Luanne Underwood, RN</td>
<td>QI Program Director</td>
<td>Los Angeles County Fire Department</td>
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<tr>
<td>Ginger Ochs, RN</td>
<td>Quality Management Coordinator</td>
<td>San Diego Fire-Rescue Department</td>
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<tr>
<td>Cathy Ord, RN</td>
<td>EMS Director</td>
<td>Newport Beach Fire Department</td>
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<tr>
<td>Adele Pagan</td>
<td>Information Systems Analyst</td>
<td>Alameda County EMS Agency</td>
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<tr>
<td>John R. Pringle, Jr. EMT-P</td>
<td>Electronic Documentation Coordinator</td>
<td>San Diego Fire-Rescue Department</td>
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<tr>
<td>Laurent Repass, NREMT-P</td>
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<td>Ed Armitage</td>
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<tr>
<td>Todd Hatley</td>
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<td>American Medical Response</td>
</tr>
<tr>
<td>Kristy Harlan</td>
<td>QI Program Director</td>
<td>California State EMS Authority</td>
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<tr>
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<tr>
<td>David Lindberg</td>
<td>Data Systems Manager/Trauma Data Analyst</td>
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<tr>
<td>Che-Chuen Ho</td>
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<td>Julie A. Hamilton</td>
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<tr>
<td>Glen Youngblood</td>
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<tr>
<td>Cindy Wilmshurst</td>
<td>Special Projects Coordinator</td>
<td>National EMSC Data Analysis Resource Center</td>
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<tr>
<td>Bob O’Brien</td>
<td>Division Chief</td>
<td>Fremont Fire Department</td>
</tr>
<tr>
<td>Marquita Fabbri</td>
<td>California State EMS Authority</td>
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**PAST MEMBERS STATE EMS DATA COMMITTEE**

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INTRODUCTION

In 1997, at the request of the EMS Authority’s interim director and under the guidance of the California Commission on Emergency Medical Services and the EMS Authority, California’s EMS community embarked upon an aggressive and unprecedented statewide EMS planning process that culminated in the development of a first-ever State EMS Plan. EMS constituency groups joined the EMS Authority in ensuring the success of this effort.

EMS constituents as well as experts from the National Highway Transportation Safety Administration (NHTSA) identified the importance of a statewide EMS data system and the System Evaluation and Improvement Committee was formed. The data set and quality indicators required a system that would house the data. To meet the need for the creation of a statewide EMS data system, the EMS Authority sought and obtained grant funding from the California Office of Traffic Safety (OTS).

The California Emergency Medical Services Information System (CEMSIS) was designed by the EMS Authority to house and analyze data collected by the Local EMS agencies (LEMSA’s). The CEMSIS will serve as a tool for LEMSAs and EMS providers to compare their services to those provided by other LEMSAs and providers for administrative and continual quality improvement efforts. The objective of the project was to create a statewide database of EMS-based patient information and to then link that data whenever possible to data from other systems such as hospital discharge and emergency department data, to create a picture of the EMS care continuum and, ultimately, a picture of the emergency response system. The Web-based reporting system for CEMSIS was demonstrated at an EMS conference in December 2002 using scrambled EMS data.

The current EMS Data Committee is charged with the implementation of the CEMSIS system and the implementation of the developed Quality Indicators. With the release in 2004 of the NHTSA draft of a proposed National Emergency Medical Services Information System (NEMSIS) the committee expanded its scope to ensure that the needs for national data would be met by CEMSIS. In early 2005 the Mountain Valley EMS Agency operating under a Preventive Health and Safety block grant undertook the comparison of CEMSIS and NEMSIS. This document and the information herein are largely the result of this committee’s work.

The CEMSIS will provide local agencies with the data and comparative analysis tools they need to assess and improve the quality of their EMS system, including dispatch, patient care and transport. The processing of information at the state level in the CEMSIS will be for use in Strategic Planning and system evaluation.
The creation and implementation of the (CEMSIS) provides a quality improvement tool consisting of:

- A statewide database of prehospital care data;
- The establishment and maintenance of a core data set for California EMS that is based on the current standard data set (NEMSIS);
- The establishment of submission timelines for the provision of EMS data to the EMS Authority;
- A data warehouse for matching EMS prehospital data with other state and national databases (e.g., Emergency Department and Discharge data from the Office of Statewide Health Planning and Development, and death data from the Center for Vital Statistics of the Department of Health Services);
- The ability to share data among EMS provider participants;
- The ability to share data with other state contributors;
- The ability to calculate medical quality indicators based on the data elements collected for use in continual improvement of the delivery of prehospital care;
- The ability to calculate structural indicators and general statistics for use in administering EMS programs at all levels to support continuous quality improvement;
- A mechanism to formally link the data needs and quality improvement goals of the EMS Authority, LEMSAs and EMS Providers (including Emergency Departments and specialty care centers) to minimize duplication and redundancy;
- Research data for the promotion of injury prevention, public information, utilization of Automatic External Defibrillators (AEDs) and educational activities including citizen first aid and CPR programs as well as appropriate EMS access;
- Information that will formally identify the instances of multiple EMS service providers (e.g., first responder followed by transport provider) and the need for a common patient care record process.

Under the “discussion” heading for each data element is a rating of Level I, II or III. These levels provide additional information to providers as to which data elements the provider may commence collecting, based on their current data collection systems. With time and resources the goal is for all data collection to be at Level III. Below are the descriptors for each level:

- **Level I** - This level is for providers who are currently on a completely paper based system. This group is planning to follow the electronic system in the future and will start collecting the CEMSIS data elements identified as “Level I”. The data elements listed are the “core minimum” and it is expected that all providers should be able to submit these items from their current patient care report form.
• Level II - Entities at this level include all the data elements listed above, plus those marked "Level II" on the response to comment period document. These providers, as they convert to an electronic system or revise their report format, should include these additional items.

• Level III - Incorporates all items listed in the "Emergency Medical Services Data System Standards" (CEMSIS) #164. This is the top level and is for providers utilizing a totally electronic system.
INSTRUCTIONS

Title  Name of the Data Element  
Level I, II or III (Reporting Level Ranking)  

Data Format  The format should be reviewed by IT staff  

Definition  Description of what the data element will contain  

Technical Information  This section should be reviewed by IT staff. It is recommended that the IT staff go to www.nemsis.org and obtain technical information from the website. 

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

Field Values  The values or code set (variables) associated with the data element  

Data Collector  Description of who will be collecting the data  

Content  Describes the data element including some technical requirements  

Discussion  Any additional information that may be needed to explain the data element and how it may be utilized  

CEMSIS to NEMSIS Comparison  Provides explanation of whether this data element is exactly like the NEMSIS element or has been modified  

Additional Information: 
NEMSIS stands for the National Emergency Medical Services Information System. NEMSIS is the national repository that will be used to potentially store EMS data from every state in the nation. CEMSIS stands for the California Emergency Medical Services Information System and will serve as the California repository for EMS data. CEMSIS is designed to interact with NEMSIS. 

The EMS data elements are a subset of information describing a complete EMS event. This includes information which is considered important from an EMS system, EMS personnel, and an EMS patient’s perspective. The data elements within the EMS dataset provide documentation of the system performance and clinical care. Many data elements are a component of an EMS Medical Record, and the majority of the remaining data elements are important for quality management and performance improvement initiatives. 

The EMS data elements also include information associated with EMS billing and reimbursement. This information is typically completed by EMS personnel for each patient encounter, although some of the information can be obtained electronically from the dispatch center, past EMS medical records, provider billing services or medical devices.
The demographic data elements are a subset of information describing each EMS agency, EMS personnel, and important system information that is needed to generate reports at the local, state, and national level.

This information is typically completed and reviewed once per year and updated as changes for an EMS system or for any EMS personnel occur. This information is not collected with each patient encounter, but is electronically attached to each patient encounter to make the data more useful and allow more efficient documentation by EMS personnel.
Minimum Elements
LEMSA IDENTIFIER

Level I (Providers currently on a paper based system)

Data Format [combo] single choice

Definition
The unique identifier for the LEMSA that is responsible for the EMS incident.

Technical Information

<table>
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<tr>
<th>XSD Data Type</th>
<th>XSD Domain (Simple Type)</th>
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<tr>
<td>xs:integer</td>
<td>LEMSAIdentifier</td>
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Multiple Entry Configuration: No
Accepts Null Value: No

Field Values

LEMSA IDENTIFIER CODES
Alameda 011
Contra Costa 013
El Dorado 017
Imperial 025
Kern 029
Los Angeles 037
Marin 041
Merced 047
Monterey 053
Orange 059
Riverside 065
Sacramento 067
San Benito 069
San Diego 073
San Francisco 075
San Joaquin 077
San Luis Obispo 079
San Mateo 081
Santa Barbara 083
Santa Clara 085
Santa Cruz 087
Solano 095
Tuolumne 109
Ventura 111
Central California 117
Mountain-Valley 119
North Coast 121
Northern California 123
Inland Counties 125
Sierra-Sacramento Valley 127
Coastal Valleys 129
**Data Collector**
This will be collected by the LEMSA when the document is received from the provider. This is a LEMSA only issue and will be autofilled.

**Content**
This identifier must be unique within California for the Local Emergency Medical Services Agency (LEMSA). In single-county LEMSAs, it should be the standard alphanumeric California County Code. Multi-county LEMSAs will be assigned a code. This element is considered to be a technical core element (necessary for submission of record.)

**Discussion**
This identifier will be used to link information for a particular LEMSA to create a LEMSA profile.

**CEMSIS to NEMSIS Comparison**
No match
PSAP IDENTIFIER

Level III (Providers Utilizing a totally electronic system)

Data Format [text]

Definition
The unique identifier for the primary Public Safety Answering Point that answered the 9-1-1 (or other) call for the EMS Incident.

Technical Information

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

Additional Information
This element captures the identifier for the PSAP that received the request.

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

Content
This identifier should be the unique 4-character PSAP ID used by the FCC (Federal Communications Commission), if available in the LEMSA data. If the LEMSA database does not contain the FCC PSAP ID, another identifier or mechanism must be used.

Discussion
The PSAP Identifier will be used with the LEMSA Identifier and the Incident Identifier to uniquely identify the EMS incident over time. The identifier code used by the LEMSA shall be provided to the EMS Authority with PSAP information including name, location, contact information and participating EMS provider agencies.

CEMSIS to NEMSIS Comparison
No match
INCIDENT AREA

Level I (Providers currently on a paper based system)

Data Format [combo] single-choice

Definition
Description of the provider’s incident location.

Technical Information

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</table>

Field Values
To be autofilled based on zip code.

Additional Information
The variables for this element are specific to CEMSIS

Data Collector
LEMSA auto fill based on zip code.

Content
No historical content for this element. Definitions based on EMSA #101 EMS System Standards and Guidelines.

Discussion
Rural  - all census places with a population density of 7 to 50 persons per square mile; or census tracts or enumeration districts without census tracts which have a population density of 7 to 50 persons per square mile.

Urban  - all census places with a population density of 101 to 500 persons per square mile; or census tracts and enumeration districts without census tracts which have a population density of 101 to 500 persons or more per square mile.

Suburban - All census places with a population density of 51 to 100 persons per square mile; or census tracts or enumeration districts without census tracts which have a population density of 51 to 100 persons per square mile.

Wilderness - census tracts or enumeration districts without census tracts which have a population of less than seven persons per square mile.

CEMSIS to NEMSIS Comparison
No match.
CONTRIBUTING FACTORS

Level II (Providers converting to an electronic system)

Data Format [combo] single-choice

Definition
Factors that may have contributed to the seriousness of the injury and influenced triage decisions

Technical Information

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</table>

Field Values
- -25 Not Applicable
- -20 Not Recorded
- -15 Not Reporting
- -10 Not Known
- -5 Not Available
- 30 Ejection from automobile
- 35 Death in same passenger compartment
- 40 Extrication time >20 minutes
- 45 Falls >20 feet (pediatric patients > 10 feet or 2-3 x height of the child)
- 50 Rollover
- 55 Initial speed from auto crash >40 mph
- 60 Major auto deformity >20 inches
- 65 Intrusion into passenger compartment >12 inches
- 70 Auto-pedestrian/auto-bicycle injury with significant (> 20 mph) impact
- 75 Pedestrian thrown or run over
- 80 Motorcycle crash >20 mph or with (separation of rider from bike)
- 85 Age <5 or >55
- 90 Cardiac disease, respiratory disease
- 95 Insulin-dependent diabetes, cirrhosis, or morbid obesity
- 100 Pregnancy (> 20 weeks)
- 105 Immunosuppressed
- 110 Bleeding disorder or patient on anticoagulants
- 115 End stage renal disease requiring dialysis
- 120 Time sensitive extremity injury
- 125 Vehicle telemetry data consistent with increased risk of injury

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

Data Collector
EMS personnel

Content
No historical content for this element
Discussion
Adopted from “Resources for Optimal Care of the Injured Patient: 2006 Committee on Trauma, American College of Surgeons.

CEMSIS to NEMSIS Comparison
No match
DIVERSION

Level II (Providers converting to an electronic system)

**Data Format** [text]

**Definition**
The intended destination for a patient prior to diversion.

**Technical Information**

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</table>

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

**Additional Information**
Complete only if Reason for Choosing Destination (E20_16) is “Diversion”.

**Data Collector**
EMS personnel

**Content**
This identifier must be unique within California and should be the HIPAA NPI (National Provider Identifier).

**Discussion**
Local EMS agencies must provide their codes to the EMS Authority. Many providers have multiple codes which appear to be for the same service so the specific codes need to be agreed upon locally.

**CEMSI S to NEMSIS Comparison**
No match
Minimum

Elements

Elements adopted from NEMSIS
EMS AGENCY TIME ZONE

Level I (Providers currently on a paper based system)

Data Format  [text]

Definition
The time zone for the EMS Agency

Technical Information

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

Field Values
- 5900  GMT-11:00 Midway Island, Samoa
- 5920  GMT-09:00 Alaska
- 5910  GMT-10:00 Hawaii
- 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

Discussion
Allows data to be tracked in comparison to other systems and times to better correlate in any analysis. All dates/times are to be transmitted using Greenwich meantime. The time zone of the provider agency must be known to use these times appropriately.

Data Collector
To be autofilled by the Emergency Medical Services Authority.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
VEHICLE TYPE

Level III (Providers utilizing a totally electronic system)

Data Format [combo] single-choice

Definition
Vehicle type of unit (ambulance, fire, truck, etc.)

Technical Information

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

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

| Required in XSD | No |

XSD Structure: (1) Data Elements D06_01 through D06_10 are all within the Vehicle Information Structure

Field Values

- 7370 Ambulance
- 7380 ATV
- 7390 Bicycle
- 7400 Boat
- 7405 Fire Engine
- 7410 Fire Truck
- 7420 Fixed Wing
- 7430 Motorcycle
- 7440 Other
- 7450 Private Vehicle
- 7460 Quick Response Vehicle (Non-Transport Vehicle other than Fire Truck)
- 7470 Rescue
- 7480 Rotor Craft

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

Content
Vehicle Type contains character sub-fields that describe the vehicle: response classification, medical classification, and vehicle classification to which the crew member providing treatment is attached. These sub-fields must be coded using the above code.

Discussion
This character code identifies the type of vehicle that the crew member providing patient care was assigned to.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
PATIENT CARE REPORT NUMBER
Level I (Providers currently on a paper based system)

**Data Format** [text]

**Definition**
The unique number automatically assigned by the EMS provider agency or local EMS agency for
each patient care report (PCR). This is a unique number to the EMS agency.

**Technical Information**

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

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.

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

**Content**
This identifier must be unique within the LEMSA for each EMS patient for a given EMS provider
for a given EMS incident.

**Discussion**
The PCR number will be used with the Incident Number (E02_02) and the EMS Provider Agency
Number (E02_01) to uniquely identify the record of care provided to a patient by the crew
members from a particular EMS provider agency for a particular EMS incident.

**CEMSIS to NEMSIS Comparison**
This element has been determined to be equivalent to the NHTSA v2.2.1 element.
EMS PROVIDER AGENCY NUMBER
Level I (Providers currently on a paper based system)

Data Format [text]

Definition
The state-assigned provider number of the responding agency

Technical Information

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

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

Additional Information
- Same as EMS Agency Number (D01_01), an elective NEMSIS data element.
- Not nullable. A unique value must be provided to create a unique record ID within a database

Data Collector
Collected by the EMS provider agency or auto-generated by the EMS provider agency specific software.

Content
This identifier must be unique within California, and should be the HIPAA NPI (National Provider Identifier), FDID or other standard number indicator.

Discussion
This code must uniquely identify the EMS response agency (i.e., EMS provider organization) that provided one or more units in response to an EMS incident.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
INCIDENT NUMBER
Level I (Providers currently on a paper based system)

Data Format [text]

Definition
The incident number assigned by the 911 Dispatch System

Technical Information

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

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

Data Collector
9-1-1 or Dispatch Center and electronically or verbally transmitted to the EMS provider agency

Content
This identifier, when combined with the PSAP Identifier, must be unique within the Local Emergency Medical Services Agency (LEMSA) for an EMS incident over time (i.e., it must provide uniqueness in the CEMSIS database.

Discussion
The Incident Identifier will be used with the PSAP Identifier (C01_02) and the LEMSA Identifier (C01_01) to uniquely identify the EMS incident within California. This identifier may be valuable for linking EMS data with other data related to the incident.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
TYPE OF SERVICE REQUESTED

Level I (Providers currently on a paper based system)

Data Format [combo] single-choice

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

Technical Information

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

Multiple Entry Configuration No
Accepts Null No

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

Data Collector
EMS provider agency or may be electronically provided through the 9-1-1 or dispatch center

Content
A single character code for the type of EMS provided.

Discussion
This code identifies the type of service provided.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element.

Specific Definitions for each of the variables.
We have intentionally not defined the variables for Type of Service beyond what is documented. The intent of the variables is as follows:

- 911 Response = any unscheduled EMS response to a scene originating from 911 or the dispatch center
- Intercept = a response where an EMS vehicle or unit is meeting up with or intercepting with another EMS vehicle or unit already caring for a patient to either increase the level of service or resources associated with the patient care or service delivery
- Interfacility Transfer = a response or service which is involved in the movement of a patient between two healthcare facilities; this is typically two hospitals.
- Medical Transport = a response or service based on a schedule request. An example would be between a nursing home and a physician's office.
- Mutual Aid = a response or service request from an EMS agency outside of the service area
• Standby = a response or service request not associated with a specific patient scenario but associated with a high-risk event. This could be a public event, structure fire, etc.
PRIMARY ROLE OF THE UNIT

Level III (Providers utilizing a totally electronic system)

Data Format [combo] single-choice

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

Technical Information

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

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

Data Collector
EMS provider agency or may be electronically provided through the 9-1-1 or dispatch center

Content
No historical content for this element.

Discussion
There are no discussion points related to this element. This data element is a component of the EMS Medical Record: Patient Care Report. It also allows data to be sorted by the role of the responder and provides descriptive data on EMS call volume and service provided.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
TYPE OF DISPATCH DELAY

Level III (Providers utilizing a totally electronic system)

Data Format [combo] multiple-choice

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

Technical Information

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

| Multiple Entry Configuration | Yes | Accepts Null | Yes |

Required in XSD   Yes

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

Data Collector
9-1-1 or Dispatch Center and electronically or verbally transmitted to the EMS provider agency

Content
No historical content for this element.

Discussion
There are no discussion points related to this element.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
TYPE OF RESPONSE DELAY

Level III (Providers utilizing a totally electronic system)

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

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

**Technical Information**

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

**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

**Data Collector**
EMS personnel

**Content**
No historical content for this element.

**Discussion**
There are no discussion points related to this element.

**CEMSIS to NEMSIS Comparison**
This element has been determined to be equivalent to the NHTSA v2.2.1 element
TYPE OF SCENE DELAY

Level II (Providers converting to an electronic system)

Data Format [combo] multiple-choice

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

Technical Information

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

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

Data Collector
EMS personnel

Content
No historical content for this element.

Discussion
There are no discussion points related to this element.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
TYPE OF TRANSPORT DELAY
Level II (Providers converting to an electronic system)

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

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

**Technical Information**

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

Multiple Entry Configuration: Yes
Accepts Null: Yes

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

**Data Collector**
EMS personnel

**Content**
No historical content for this element.

**Discussion**
There are no discussion points related to this element.

**CEMSIS to NEMSIS Comparison**
This element has been determined to be equivalent to the NHTSA v2.2.1 element
### TYPE OF TURN-AROUND DELAY

**Level II (Providers converting to an electronic system)**

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

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

**Technical Information**

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

**Field Values**
- -25  Not Applicable
- -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 Delay

**Data Collector**
EMS personnel

**Content**
No historical content for this element.

**Discussion**
There are no discussion points related to this element.

**CEMSIS to NEMSIS Comparison**
This element has been determined to be equivalent to the NHTSA v2.2.1 element
EMS UNIT IDENTIFIER (RADIO NUMBER)
Level I (Providers currently on a paper based system)

Data Format [combo] single-choice

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.

Technical Information

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

Field Values
Relevant Value for Data Element & Patient Care

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

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

Content
No historical content for this element.

Discussion
There are no discussion points related to this element.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
RESPONSE MODE TO SCENE
Level II (Providers converting to an electronic system)

Data Format [combo] single-choice

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

Technical Information

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

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

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

Content
The code that identifies the use of lights and/or sirens in route to the incident scene.

Discussion
This field provides the data to determine the frequency with which EMS vehicles are using lights and/or sirens during response to the EMS incident scene.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
COMPLAINT REPORTED BY DISPATCH
Level III (Providers utilizing a totally electronic system)

Data Format [combo] single-choice

Definition
The complaint dispatch reported to the responding unit.

Technical Information

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

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 Electrocution
- 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
- 565 MCI (Mass Casualty Incident)
- 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 Person Down
• 560 Transfer/Interfacility/Palliative Care

**Data Collector**
9-1-1 or Dispatch Center and electronically or verbally transmitted to the EMS agency

**Content**
No historical content for this element.

**Discussion**
• 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

**CEMSIS to NEMSIS Comparison**
This element has been determined to be equivalent to the NHTSA v2.2.1 element
EMD PERFORMED

Level III (Providers utilizing a totally electronic system)

Data Format [combo] single-choice

Definition
Indication of whether EMD was performed for this EMS event.

Technical Information

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

Multiple Entry Configuration No Accepts Null 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

Data Collector
9-1-1 or Dispatch Center and electronically or verbally transmitted to the EMS provider agency

Content
No historical content for this element.

Discussion
EMD as defined in the EMS Authority’s document “Emergency Medical Services Dispatch Program Guidelines” EMSA #132, states: Emergency Medical Dispatch (EMD) shall mean the reception, evaluation, processing and provision of dispatch life support; management of requests for emergency medical assistance; and participation in ongoing evaluation and improvement of the emergency medical dispatch process.”

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
CREW MEMBER LEVEL
Level III (Providers utilizing a totally electronic system)

Data Format [combo] single-choice

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

Technical Information

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>XSD Domain (Simple Type)</th>
<th>CrewMemberLevel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes, via structure</td>
<td>Accepts Null</td>
<td>Yes</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>No</td>
<td>XSD Structure: E04_01, E04_02, E04_03 are all members of the E04 Unit Personnel Information structure</td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- -25 Not Applicable
- -20 Not Recorded
- -15 Not Reporting
- -10 Not Known
- -5 Not Available
- 6120 First Responder
- 6090 EMT Basic (EMT-I)
- 6100 EMT Intermediate (EMT-II)
- 6110 EMT Paramedic (EMT-P)
- 6111 Nurse
- 640 Other Healthcare Professional
- 645 Other Non-Healthcare Professional
- 6112 Physician
- 6115 Public Safety (including volunteer)
- 635 Student

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). Note: These are elective NEMSIS data elements.

Data Collector
EMS personnel

Content
This data element will be used at the state level in computing general statistics (e.g., the percentage of responses involving each level). This element is connected with data element DO6_O3 (Vehicle Type).
**Discussion**
This data element is used to determine the level of care that was available on the EMS responder team. This data element and the Vehicle Type will identify the type of EMS capability that was available.

**CEMSIS to NEMSIS Comparison**
This element has been determined to be equivalent to the NHTSA v2.2.1 element.
PSAP CALL DATE/TIME
Level III (Providers utilizing a totally electronic system)

**Data Format** [date/time]

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

**Technical Information**

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:dateTime</th>
<th>XSD Domain (Simple Type)</th>
<th>DateTime</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null</td>
<td>Yes, but null value is blank or empty</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Minimum Constraint</td>
<td>1,990</td>
</tr>
</tbody>
</table>

**Field Values**
Relevant Value for Data Element & Patient Care

**Data Collector**
9-1-1 or Dispatch Center and electronically or verbally transmitted to the EMS provider agency

**Content**
No historical content for this element.

**Discussion**
- 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.

**CEMSIS to NEMSIS Comparison**
This element has been determined to be equivalent to the NHTSA v2.2.1 element
DISPATCH NOTIFIED DATE/TIME

Level II (Providers converting to an electronic system)

Data Format [date/time]

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

Technical Information

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

Field Values
Relevant Value for Data Element & Patient Care

Data Collector
9-1-1 or Dispatch Center and electronically or verbally transmitted to the EMS provider agency

Content
The hour, minute, and second that the incident was first reported to the EMS Response Agency dispatcher. Midnight is ‘000000’ and begins the day.

Discussion
Ideally, this will be recorded automatically in Pacific Standard or Daylight Time by a CAD or AVL system using ‘universal time’ from a GPS receiver. It should be obtained electronically, if possible, from the PSAP or secondary answering point.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
UNIT NOTIFIED BY DISPATCH DATE/TIME
Level I (Providers currently on a paper based system)

Data Format [date/time]

Definition
The date the responding unit was notified by dispatch

Technical Information

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:dateTime</th>
<th>XSD Domain (Simple Type)</th>
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</thead>
<tbody>
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<td>Accepts Null</td>
<td>No</td>
</tr>
</tbody>
</table>

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

Field Values
Relevant Value for Data Element & Patient Care

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

Data Collector
9-1-1 or Dispatch Center and electronically or verbally transmitted to the EMS provider agency

Content
The hour, minute, and second that the incident was first reported to the EMS response unit. Midnight is ‘000000’ and begins the day.

Discussion
Ideally, this will be recorded automatically in Pacific Standard or Daylight Time by a CAD or AVL system using ‘universal time’ from a GPS receiver. It should be obtained electronically, if possible, from the secondary answering point.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
UNIT EN ROUTE DATE/TIME
Level I (Providers currently on a paper based system)

Data Format [date/time]

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

Technical Information

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:dateTime</th>
<th>XSD Domain (Simple Type)</th>
<th>DateTime</th>
</tr>
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<td>Accepts Null</td>
<td>Yes, but null value is blank or empty</td>
</tr>
<tr>
<td>Required in XSD</td>
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<td>Minimum Constraint</td>
<td>1,990</td>
</tr>
<tr>
<td>Maximum Constraint</td>
<td>2,030</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
Relevant Value for Data Element & Patient Care

Data Collector
9-1-1 or Dispatch Center and electronically or verbally transmitted to the EMS provider agency

Content
The hour, minute, and second that the EMS response unit began to move to the incident scene. Midnight is '000000' and begins the day.

Discussion
Ideally, this will be recorded automatically in Pacific Standard or Daylight Time by a CAD or AVL system using 'universal time' from a GPS receiver. It should be obtained electronically, if possible, from the secondary answering point.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
UNIT ARRIVED ON SCENE DATE/TIME
Level I (Providers currently on a paper based system)

**Data Format** [date/time]

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

**Technical Information**

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:dateTime</th>
<th>XSD Domain (Simple Type)</th>
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</tr>
</thead>
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<td>Accepts Null</td>
<td>Yes, but null value is blank or empty</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Minimum Constraint</td>
<td>1,990</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Maximum Constraint</td>
<td>2,030</td>
</tr>
</tbody>
</table>

**Field Values**
Relevant Value for Data Element & Patient Care

**Data Collector**
9-1-1 or Dispatch Center and electronically or verbally transmitted to the EMS provider agency

**Content**
The hour, minute, and second that the EMS response unit stopped moving (i.e., ‘wheels stopped rolling’ at the last place at the scene before patient assessment began). Midnight is ‘000000’ and begins the day.

**Discussion**
Ideally, this will be recorded automatically in Pacific Standard or Daylight Time by a CAD or AVL system using ‘coordinated universal time’ from a GPS receiver. It should be obtained electronically, if possible, from the secondary answering point.

**CEMSIS to NEMSIS Comparison**
This element has been determined to be equivalent to the NHTSA v2.2.1 element
ARRIVED AT PATIENT DATE/TIME

Level II (Providers converting to an electronic system)

Data Format [date/time]

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

Technical Information

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:dateTime</th>
<th>XSD Domain (Simple Type)</th>
<th>DateTime</th>
</tr>
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</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Minimum Constraint</td>
<td>1,990</td>
</tr>
</tbody>
</table>

Field Values
Relevant Value for Data Element & Patient Care

Data Collector
9-1-1 or Dispatch Center and electronically or verbally transmitted to the EMS provider agency

Content
The hour, minute, and second that the first EMS responder arrived at the patient's side and began assessing the patient's condition. Midnight is '000000' and begins the day. Use the default of '00' for seconds when necessary.

Discussion
Ideally, this is the time of arrival at the patient in Pacific Standard or Daylight Time as recorded using 'coordinated universal time' from a GPS receiver in a Personal Digital Assistant or other electronic device. It should be obtained electronically.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
UNIT LEFT SCENE DATE/TIME
Level I (Providers currently on a paper based system)

Data Format [date/time]

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

Technical Information
<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:dateTime</th>
<th>XSD Domain (Simple Type)</th>
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</tr>
</thead>
<tbody>
<tr>
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<td>Accepts Null Yes</td>
<td>Yes, but null value is blank or empty</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Minimum Constraint 1,990</td>
<td>Maximum Constraint 2,030</td>
</tr>
</tbody>
</table>

Field Values
Relevant Value for Data Element & Patient Care

Data Collector
9-1-1 or Dispatch Center and electronically or verbally transmitted to the EMS provider agency

Content
The hour, minute, and second that the EMS response unit started moving from the scene to its destination (i.e., ‘wheels rolling’ to the hospital or transfer point). Midnight is ‘000000’ and begins the day.

Discussion
This time should be obtained from Computer Aided Dispatch (CAD) data, if possible. Although an observed time from PCR Data is acceptable for this field, if any ‘upstream times’ in the EMS response were determined using GPS universal time, it may result in inaccurate data.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
PATIENT ARRIVED AT DESTINATION DATE/TIME
Level I (Providers currently on a paper based system)

Data Format [date/time]

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

Technical Information

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:dateTime</th>
<th>XSD Domain (Simple Type)</th>
<th>DateTime</th>
</tr>
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<tr>
<td>Required in XSD</td>
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<td>Minimum Constraint</td>
<td>1,990</td>
</tr>
</tbody>
</table>

Field Values
Relevant Value for Data Element & Patient Care

Data Collector
9-1-1 or Dispatch Center and electronically or verbally transmitted to the EMS provider agency

Content
The hour, minute, and second that the EMS response unit stopped moving at its destination (i.e., ‘wheels stopped rolling’ at the hospital or transfer point). Midnight is ‘000000’ and begins the day.

Discussion
This time should be obtained from Computer Aided Dispatch (CAD) data, if possible. Although an observed time from PCR Data is acceptable for this field, if any ‘upstream times’ in the EMS response were determined using GPS universal time, it may result in inaccurate data. Permits calculation of the time period from scene departure to destination arrival.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
UNIT BACK IN SERVICE DATE/TIME
Level II (Providers converting to an electronic system)

Data Format [date/time]

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

Technical Information

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:dateTime</th>
<th>XSD Domain (Simple Type)</th>
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<tr>
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<td>Accepts Null</td>
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</tr>
<tr>
<td>Required in XSD</td>
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<td>Minimum Constraint</td>
<td>1,990</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Maximum Constraint</td>
<td>2,030</td>
</tr>
</tbody>
</table>

Field Values
Relevant Value for Data Element & Patient Care

Data Collector
9-1-1 or Dispatch Center and electronically or verbally transmitted to the EMS provider agency

Content
The hour, minute, and second that the EMS response unit is ready for the next call

Discussion
This time represents the time when a unit is ready and available to respond to the next request for service.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
UNIT BACK AT HOME LOCATION DATE/TIME

Data Format [date/time]

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

Technical Information

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:dateTime</th>
<th>XSD Domain (Simple Type)</th>
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</tr>
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<td>Yes, but null value is blank or empty</td>
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<tr>
<td>Required in XSD</td>
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<td>Minimum Constraint</td>
<td>1,990</td>
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<td>2,030</td>
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<td></td>
</tr>
</tbody>
</table>

Field Values
Relevant Value for Data Element & Patient Care

Data Collector
9-1-1 or Dispatch Center and electronically or verbally transmitted to the EMS agency

Content
No historical content for this element.

Discussion
There are no discussion points related to this element.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
LAST NAME

Level II (Providers converting to an electronic system)

Data Format [text]

Definition
The patient's last (family) name

Technical Information

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:string</th>
<th>XSD Domain (Simple Type)</th>
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<tr>
<td>Required in XSD</td>
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<tr>
<td>Maximum Constraint</td>
<td>20</td>
<td></td>
<td></td>
</tr>
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</table>

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

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

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

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

Content
“Not Known” is used when the patient name is not known.

Discussion
This data element will be encrypted, stored separately and removed from the CEMSIS database after probabilistic matching. No patient identifying information will be available from CEMSIS.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
PATIENT'S HOME ZIP CODE
Level II (Providers converting to an electronic system)

Data Format [text]

Definition
The patient's home ZIP code of residence

Technical Information

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

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

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

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

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

Content
This field will be coded using the 5 or 9 digit postal zip code.

Discussion
Provides the postal zip code of the patient's residence.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
PARTIAL SOCIAL SECURITY NUMBER
Level II (Providers converting to an electronic system)

Data Format [number]

Definition
The patient's partial social security number

Technical Information

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:string</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSD Domain (Simple Type)</td>
<td>SocialSecurityNumber</td>
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<tr>
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<tr>
<td>Accepts Null</td>
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<td>Required in XSD</td>
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<td>Minimum Constraint</td>
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<tr>
<td>Maximum Constraint</td>
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</tbody>
</table>

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

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

Content
Document the last 5 digits of the patient’s Social Security Number (SSN) when it is available.

Discussion
When provided, the SSN will be encrypted, stored separately and purged from the CEMSIS database after probabilistic matching. No patient identifying information will be available from the CEMSIS.

CEMSIS to NEMSIS Comparison
The CEMSIS data element is a partial match to NEMSIS v2.2.1 but will allow data transmittal to NEMSIS
GENDER
Level I (Providers currently on a paper based system)

Data Format [combo] single-choice

Definition
The patient's gender

Technical Information

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

Multiple Entry Configuration
No

Field Values
- -25 Not Applicable
- -20 Not Recorded
- -15 Not Reporting
- -10 Not Known
- -5 Not Available
- 650 Male
- 655 Female

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

Content
The character code will reflect female or male.

Discussion
This data element is valuable for linkage to other files, and permits reporting of epidemiologic information by gender.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
**RACE**

*Level II (Providers converting to an electronic system)*

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

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

**Technical Information**

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

**Multiple Entry Configuration** No

**Accepts Null** 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
- 685 Other Race
- 675 Native Hawaiian or Other Pacific Islander
- 680 White

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

**Content**
No historical content for this element.

**Discussion**
There are no discussion points related to this element.

**CEMSIS to NEMSIS Comparison**
This element has been determined to be equivalent to the NHTSA v2.2.1 element
ETHNICITY
Level II (Providers converting to an electronic system)

Data Format [combo] single-choice

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

Technical Information

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

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

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

Content
No historical content for this element.

Discussion
There are no discussion points related to this element.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
AGE
Level I (Providers currently on a paper based system)

Data Format [number]

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

Technical Information

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>XSD Domain (Simple Type)</th>
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XSD Structure: E06_14 and E06_15 are members of the E06_14_0 Patient’s Age Structure

Field Values
Relevant Value for Data Element & Patient Care

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

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

Content
Patient’s age in years, months, or days.

Discussion
Patient’s age is reported in years, months, days or hours. If the patient is < 1 day old the age is reported in hours; if the patient is < 1 month old, the age is reported in days; if the patient is a child that is ≥ 1 month old but < 2 years old, the age is reported in months. For patients ≥ 2 years old, the age is reported in years.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
AGE UNITS

Level I (Providers currently on a paper based system)

Data Format [combo] single-choice

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

Technical Information

<table>
<thead>
<tr>
<th>XSD Data Type</th>
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</tr>
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</table>

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

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

Content
The character will reflect Year, Month, Day, or Hour.

Discussion
Patient’s age is reported in years, months, days or hours as follows: If the patient is < one day old, the age is reported in hours; If the patient is a less than one month old infant, the age is reported in days; If the patient is a child that is at ≥ 1 month old but < than 2 years old, the age is reported in months.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
DATE OF BIRTH
Level I (Providers currently on a paper based system)

Data Format [date]

Definition
The patient's date of birth

Technical Information

<table>
<thead>
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<th>XSD Data Type</th>
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</thead>
<tbody>
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Multiple Entry Configuration No
Accepts Null No

Required in XSD No
Minimum Constraint 1,890
Maximum Constraint 2,030

Field Values
Relevant Value for Data Element & Patient Care

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

Content
Day, month and year of the patient’s birth.

Discussion
The date of birth (DOB) should be from the most reliable source available to the EMS responder
(e.g., driver’s license, parent of a child, etc). The DOB will be encrypted, stored separately and
purged from the CEMSIS database after probabilistic matching. No patient identifying information
will be available from the CEMSIS.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
PRIMARY METHOD OF PAYMENT
Level II (Providers converting to an electronic system)

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

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

**Technical Information**

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

**Field Values**
- -25 Not Applicable
- -20 Not Recorded
- -15 Not Reporting
- -10 Not Known
- -5 Not Available
- 725 Medicaid/Medi-Cal
- 730 Medicare
- 740 Military Insurance/Other Government Insurance
- 735 Not billed (for any reason)
- 720 Private Commercial insurance/Managed Care Organization
- 745 Self Pay
- 750 Worker’s Compensation

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

**Content**
No historical content for this element.

**Discussion**
There are no discussion points related to this element.

**CEMSIS to NEMSIS Comparison**
This element has been determined to be equivalent to the NHTSA v2.2.1 element
CMS SERVICE LEVEL
Level II (Providers converting to an electronic system)

Data Format [combo] single-choice

Definition
The Centers for Medicaid and Medicare Services service level for this EMS encounter.

Technical Information

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

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 Wind (Airplane)
- 1030 Rotary Wing (Helicopter)

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

Content
No historical content for this element.

Discussion
For more information, please see http://www.cms.hhs.gov/medhcpcsgeninfo/

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
CONDITION CODE NUMBER

Level III (Providers utilizing a totally electronic system)

Data Format [combo] multiple-choice

Definition
The condition codes associated with the Center for Medicaid and Medicare Services EMS negotiated rule-making process.

Technical Information

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:string</th>
<th>XSD Domain (Simple Type)</th>
<th>ConditionCodeNumber</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes, via structure</td>
<td>Accepts Null</td>
<td>Yes</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Minimum Constraint</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Maximum Constraint</td>
<td>30</td>
</tr>
</tbody>
</table>

XSD Structure: 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
- 8002 Abdominal Pain (ALS-789.00)
- 8001 Severe 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)
- 8062 Advanced Airway Management (ALS-518.81)
- 8066 Airway Control/Positioning Required (BLS-786.09)
- 8034 Alcohol Intoxication or Drug Overdose (BLS-305.0)
- 8035 Severe Alcohol Intoxication (ALS-977.3)
- 8006 Allergic Reaction (ALS-995.0)
- 8007 Allergic Reaction (BLS-692.9)
- 8016 Altered Level of Consciousness (non-traumatic) (ALS-780.01)
- 8053 Animal Bites/Sting/Envenomation (ALS-989.5)
- 8054 Animal Bites/Sting/Envenomation (BLS-879.8)
- 8031 Back Pain (non-traumatic possible cardiac or vascular) (ALS-724.5)
- 8032 Back Pain (non-traumatic with neurologic symptoms) (ALS-724.9)
- 8008 Blood Glucose (ALS-790.21)
- 8051 Burns-Major (ALS-949.3)
- 8052 Burns-Minor (BLS-949.2)
- 8011 Cardiac Arrest-Resuscitation in Progress (ALS-427.5)
- 8061 Cardiac/Hemodynamic Monitoring Required (ALS-428.9)
- 8021 Cardiac Symptoms other than Chest Pain (atypical pain) (ALS-536.2)
- 8020 Cardiac Symptoms other than Chest Pain (palpitations) (ALS-785.1)
- 8064 Chemical Restraint (ALS-293.0)
- 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)
- 8017 Convulsions/Seizures (ALS-780.39)
- 8010 Difficulty Breathing (ALS-786.05)
• 8056 Electrocution (ALS-994.8)
• 8058 Eye Injuries (BLS-921.9)
• 8018 Eye Symptoms (non-traumatic) (BLS-379.90)
• 8026 Hazmat Exposure (ALS-987.9)
• 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)
• 8063 IV Meds Required (ALS-No ICD code provided)
• 8055 Lightning (ALS-994.0)
• 8043 Major Trauma (ALS-959.8)
• 8027 Medical Device Failure (ALS-996.0)
• 8028 Medical Device Failure (BLS-996.3)
• 8057 Near Drowning (ALS-994.1)
• 8029 Neurologic Distress (ALS-436.0)
• 8019 Non Traumatic Headache (ALS-437.9)
• 8048 Other Trauma (amputation digits) (BLS-886.0)
• 8049 Other Trauma (amputation other) (ALS-887.4)
• 8046 Other Trauma (fracture/dislocation) (BLS-829.0)
• 8045 Other Trauma (major bleeding) (ALS-958.2)
• 8044 Other Trauma (need for monitor or airway) (ALS-518.5)
• 8047 Other Trauma (penetrating extremity) (BLS-880.0)
• 8050 Other Trauma (suspected internal injuries) (ALS-869.0)
• 8030 Pain (Severe) (ALS-780.99)
• 8069 Patient Safety (monitoring required) (BLS-293.1)
• 8068 Patient Safety (restraints required) (BLS-298.9)
• 8071 Patient Safety (risk of falling off stretcher) (BLS-781.3)
• 8070 Patient Safety (seclusion required) (BLS-298.8)
• 8033 Poisons (all routes) (ALS-977.9)
• 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)
• 8009 Respiratory Arrest (ALS-799.1)
• 8041 Severe Dehydration (ALS-787.01)
• 8059 Sexual Assault (major injuries) (ALS-995.83)
• 8060 Sexual Assault (minor injuries) (BLS-995.8)
• 8040 Sick Person-Fever (BLS-036.9)
• 8072 Special Handling (Isolation) (BLS-041.9)
• 8073 Special Handling (orthopedic device required) (BLS-907.2)
• 8074 Special Handling (positioning required) (BLS-719.45)
• 8065 Suctioning/Oxygen/IV fluids required (BLS-496.0)
• 8067 Third Party Assistance/Attendant Required (BLS-496.0)
• 8042 Unconscious/ Syncope/Dizziness (ALS-780.02)

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

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

Content
No historical content for this element.
Discussion
There are no discussion points related to this element.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
NUMBER OF PATIENTS AT SCENE

Level I (Providers currently on a paper based system)

Data Format [combo] single-choice

Definition
Indicator of how many total patients were at the scene

Technical Information

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

Field Values
-25 Not Applicable
-20 Not Recorded
-15 Not Reporting
-10 Not Known
-5 Not Available
1120 None
1125 Single
1130 Multiple

Data Collector
EMS personnel

Content
No historical content for this element.

Discussion
There are no discussion points related to this element.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
MASS CASUALTY INCIDENT
Level III (Providers utilizing a totally electronic system)

Data Format [combo] single-choice

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

Technical Information

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

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

Data Collector
EMS personnel

Content
No historical content for this element.

Discussion
There are no discussion points related to this element.

CEMSI S to NEMSI S Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
INCIDENT LOCATION TYPE
Level II (Providers converting to an electronic system)

Data Format [combo] single-choice

Definition
The kind of location where the incident happened

Technical Information

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

Required in XSD Yes

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

Additional Information
Based on ICD-9

Data Collector
EMS personnel

Content
The Place of Occurrence codes are used to 'type' or classify the location where the incident occurred, not necessarily the origin of the transport. If the Nursing Home is a retirement center for independent living with no health care provided unless needed, it is a Residential institution. If the nursing home is providing ongoing medical care, it is a Health Care Facility.

Discussion
The Incident Location Type field is used in CEMSIS to categorize all EMS incidents.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
INCIDENT FACILITY CODE
Level III (Providers utilizing a totally electronic system)

Data Format [text]

Definition
The state or regulatory number (code) associated with the facility if the Incident is a Healthcare Facility.

Technical Information

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

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

Additional Information
Could be an editable list box Created from Hospitals Facility Number (D04_12) and Other Destination Facility Number (D04_14) (Elective NEMSIS elements)

Data Collector
EMS personnel

Content
This identifier must be unique within California, and should be the HIPAA NPI (National Provider Identifier).

Discussion
EMSA will electronically provide the HIPAA codes to the end user for this element.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
SCENE GPS LOCATION

Level III (Providers utilizing a totally electronic system)

Data Format [text]

Definition
The GPS coordinates associated with the Scene.

Technical Information

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

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

Field Values
Relevant Value for Data Element & Patient Care

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

Content
Latitude is recorded as positive north decimal degrees (e.g., +37.3943825 degrees).
Longitude is recorded as positive east decimal degrees (e.g., -122.0384625 degrees).
Altitude is measured in meters above mean sea level in WGS-84 (e.g., 385.69 meters).

Discussion
This GPS position identifies the latitude, longitude, and altitude at the EMS incident scene at which the EMS response unit stops and the EMS response personnel disembark.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
INCIDENT CITY
Level I (Providers currently on a paper based system)

Data Format [combo] single-choice

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

Technical Information

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

Required in XSD No  Minimum Constraint 2  Maximum Constraint 30

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

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

Relevant Value for Data Element & Patient Care

Additional Information
- Could be auto filled from Incident Zip Code entry (E08_15) at the end user site or LEMSA.
- 5 digit FIPS Code

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

Content
This field uses the local city codes of each LEMSA

Discussion
The city location of the incident may facilitate probabilistic linkage to vital statistics, crash reports and hospital data. EMSA will electronically provide the FIPS codes to the end user and LEMSA.

CEMSIS to NEMSI S Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
INCIDENT COUNTY

Level I (Providers currently on a paper based system)

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

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

**Technical Information**

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

**Field Values**
- -25 Not Applicable
- -20 Not Recorded
- -15 Not Reporting
- -10 Not Known
- -5 Not Available
- -1 Out of State County
- 001 Alameda
- 003 Alpine
- 005 Amador
- 007 Butte
- 009 Calaveras
- 011 Colusa
- 013 Contra Costa
- 015 Del Norte
- 017 El Dorado
- 019 Fresno
- 021 Glenn
- 023 Humboldt
- 025 Imperial
- 027 Inyo
- 029 Kern
- 031 Kings
- 033 Lake
- 035 Lassen
- 037 Los Angeles
- 039 Madera
- 041 Marin
- 043 Mariposa
- 045 Mendocino
- 047 Merced
- 049 Modoc
- 051 Mono
- 053 Monterey
- 055 Napa
- 057 Nevada
- 059 Orange
● 061 Placer
● 063 Plumas
● 065 Riverside
● 067 Sacramento
● 069 San Benito
● 071 San Bernardino
● 073 San Diego
● 075 San Francisco
● 077 San Joaquin
● 079 San Luis Obispo
● 081 San Mateo
● 083 Santa Barbara
● 085 Santa Clara
● 087 Santa Cruz
● 089 Shasta
● 091 Sierra
● 093 Siskiyou
● 095 Solano
● 097 Sonoma
● 099 Stanislaus
● 101 Sutter
● 103 Tehama
● 105 Trinity
● 107 Tulare
● 109 Tuolumne
● 111 Ventura
● 113 Yolo
● 115 Yuba

Additional Information
● Could be auto filled from Incident Zip Code entry (E08_15) by the end user or LEMSA.
● Stored as a FIPS code at the state level.
● 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

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

Content
This field uses the standard California County Codes (listed above).

Discussion
The county location of the incident may facilitate probabilistic linkage to vital statistics, crash reports or hospital data for the same county. The field can be used to link with federal census data aggregated by the California Department of Finance.

CEMSIS to NEMSIS Comparison
The CEMSIS variable list is tailored for California
INCIDENT STATE
Level I (Providers currently on a paper based system)

Data Format [combo] single-choice

Definition
The state, territory, or province where the patient was found or to which the unit responded (or best approximation). Note: Mexico has been added as a field value for California data collection purposes.

Technical Information

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:string</th>
<th>XSD Domain (Simple Type)</th>
<th>State</th>
</tr>
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<tbody>
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<td>Accepts Null</td>
<td>Yes</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>No</td>
<td>Minimum Constraint</td>
<td>2</td>
</tr>
</tbody>
</table>

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

Field Values
- -25 Not Applicable
- -20 Not Recorded
- -15 Not Reporting
- -10 Not Known
- -5 Not Available
- 01 Alabama
- 02 Alaska
- 04 Arizona
- 05 Arkansas
- 06 California
- 08 Colorado
- 09 Connecticut
- 10 Delaware
- 11 District of Columbia
- 12 Florida
- 13 Georgia
- 15 Hawaii
- 16 Idaho
- 17 Illinois
- 18 Indiana
- 19 Iowa
- 20 Kansas
- 21 Kentucky
- 22 Louisiana
- 23 Maine
- 24 Maryland
- 25 Massachusetts
- 26 Michigan
- 27 Minnesota
- 28 Mississippi
- 29 Missouri
Additional Information
- Could be auto filled from Incident Zip Code entry (E08_15).
- 2 digit FIPS code

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

Content
This field will be coded using the above FIPS (Federal Information Processing Standards) alphabetic codes. This element will be “6” for California unless the incident occurs outside of “6” (California).

Discussion
The state location of the EMS incident may facilitate probabilistic linkage to other data.

CEMSIS to NEMSIS Comparison
Variables are from FIPS 2 digit state code
INCIDENT ZIP CODE
Level I (Providers currently on a paper based system)

Data Format [text]

Definition
The ZIP code of the incident location

Technical Information

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:string</th>
<th>XSD Domain (Simple Type)</th>
<th>Zip</th>
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<tbody>
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<td>Yes</td>
</tr>
<tr>
<td>Required in XSD</td>
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<td>Minimum Constraint</td>
<td>2</td>
</tr>
<tr>
<td>Maximum Constraint</td>
<td>10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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

Data Collector
EMS agency or may be electronically provided through the 9-1-1 or dispatch center

Content
No historical content for this element.

Discussion
There are no discussion points related to this element.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
PRIOR AID
Level III (Providers utilizing a totally electronic system)

Data Format [combo] multiple-choice

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

Technical Information

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

| 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
- 89.820 12 lead (obtain)
- 89.821 12 lead (transmitted)
- 96.700 Airway- Assisted ventilation (positive pressure)
- 93.931 Airway- Bag/Valve/Mask
- 96.040 Airway- Endotracheal intubation
- 96.992 Airway- End Tidal CO₂
- 96.035 Airway- Esophageal/tracheal airway
- 96.030 Airway- Esophageal airway
- 96.041 Airway- Intubation, other (stoma, nasal)
- 96.011 Airway- Nasopharyngeal airway
- 31.110 Airway- Needle cricothyrotomy
- 96.021 Airway- Oropharyngeal airway
- 8765 Airway- Oxygen by mask
- 96.070 Airway- NG/OG tube
- 8767 Airway- Oxygen by cannula
- 93.055 Bleeding Control
- 38.990 Blood Sampling
- 99.600 CPR
- 99.621 Defibrillation (auto)
- 99.622 Defibrillation (manual)
- 99.615 Defibrillation (semi-automatic)
- 89.510 EKG monitor
- 41.923 Intraosseous catheter
- 38.992 Intravenous catheter
- 34.041 Needle thoracostomy
- 34.042 Monitor thoracostomy tube(s)
- 8695 Monitor and adjust IV solutions containing heparin
- 8740 Monitor and adjust IV solutions containing nitroglycerine
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8755</td>
<td>Monitor and adjust IV solutions containing potassium</td>
</tr>
<tr>
<td>38.993</td>
<td>Monitor pre-existing vascular access</td>
</tr>
<tr>
<td>73.590</td>
<td>Obstetrical delivery</td>
</tr>
<tr>
<td>99.624</td>
<td>Pacing</td>
</tr>
<tr>
<td>99.604</td>
<td>Precordial thump</td>
</tr>
<tr>
<td>9999</td>
<td>Pre-existing devices</td>
</tr>
<tr>
<td>89.392</td>
<td>Pulse Oximetry</td>
</tr>
<tr>
<td>96.042</td>
<td>Rapid Sequence Induction</td>
</tr>
<tr>
<td>98.130</td>
<td>Removal of foreign body</td>
</tr>
<tr>
<td>99.842</td>
<td>Restraints</td>
</tr>
<tr>
<td>38.991</td>
<td>Saline lock</td>
</tr>
<tr>
<td>93.591</td>
<td>Spinal precautions</td>
</tr>
<tr>
<td>93.540</td>
<td>Splinting- Splint of extremity (non-traction)</td>
</tr>
<tr>
<td>93.450</td>
<td>Splint- Traction splint</td>
</tr>
<tr>
<td>98.150</td>
<td>Suction tube(s)</td>
</tr>
<tr>
<td>99.623</td>
<td>Synchronized cardioversion</td>
</tr>
<tr>
<td>99.640</td>
<td>Vagal maneuvers</td>
</tr>
<tr>
<td>93.057</td>
<td>Wound care</td>
</tr>
<tr>
<td>8755</td>
<td>Normal Saline</td>
</tr>
<tr>
<td>8650</td>
<td>25% Dextrose</td>
</tr>
<tr>
<td>8655</td>
<td>50% Dextrose</td>
</tr>
<tr>
<td>8760</td>
<td>Oral Glucose/Sugar Solutions</td>
</tr>
<tr>
<td>8605</td>
<td>Activated Charcoal</td>
</tr>
<tr>
<td>8610</td>
<td>Adenosine</td>
</tr>
<tr>
<td>8620</td>
<td>Aerosolized or nebulized beta-2 specific bronchodilator</td>
</tr>
<tr>
<td>8615</td>
<td>Amiodarone</td>
</tr>
<tr>
<td>8625</td>
<td>Aspirin</td>
</tr>
<tr>
<td>8630</td>
<td>Atropine Sulfate</td>
</tr>
<tr>
<td>8635</td>
<td>Beta Agonist (any drug)</td>
</tr>
<tr>
<td>8640</td>
<td>Blood &amp; Blood Products</td>
</tr>
<tr>
<td>8645</td>
<td>Calcium Chloride</td>
</tr>
<tr>
<td>8665</td>
<td>Diazepam (Valium®)</td>
</tr>
<tr>
<td>8660</td>
<td>Diazepam (rectal Valium®)</td>
</tr>
<tr>
<td>8670</td>
<td>Diphenhydramine Hydrochloride (Benadryl®)</td>
</tr>
<tr>
<td>8675</td>
<td>Dopamine Hydrochloride</td>
</tr>
<tr>
<td>8680</td>
<td>Epinephrine</td>
</tr>
<tr>
<td>8685</td>
<td>Furosemide (Lasix®)</td>
</tr>
<tr>
<td>8690</td>
<td>Glucagon</td>
</tr>
<tr>
<td>8695</td>
<td>Heparin (intravenous)</td>
</tr>
<tr>
<td>8700</td>
<td>Ipratropium Bromide (Atrovent®)</td>
</tr>
<tr>
<td>8705</td>
<td>Lidocaine Hydrochloride</td>
</tr>
<tr>
<td>8710</td>
<td>Lorazepam</td>
</tr>
<tr>
<td>8720</td>
<td>Mannitol</td>
</tr>
<tr>
<td>8725</td>
<td>Midazolam</td>
</tr>
<tr>
<td>8715</td>
<td>Magnesium Sulfate</td>
</tr>
<tr>
<td>8730</td>
<td>Morphine Sulfate</td>
</tr>
<tr>
<td>8735</td>
<td>Naloxone Hydrochloride</td>
</tr>
<tr>
<td>8745</td>
<td>Nitroglycerin Preparations (except IV)</td>
</tr>
<tr>
<td>8740</td>
<td>Nitroglycerin (intravenous)</td>
</tr>
</tbody>
</table>
Additional Information
List created from Procedures (D04_04) and Medications (D04_06) (Elective NEMSIS elements) and California prehospital scope of practice.

Data Collector
EMS personnel

Content
No historical content for this element

Discussion
There are no discussion points related to this element.

CEMSIS to NEMSIS Comparison
Variables obtained from Procedures (D04_04) and Medications (D04_06) and California prehospital scope of practice. The CEMSIS variable list differs slightly from NHTSA v2.2.1 but will allow data transmittal to NEMSIS.
PRIOR AID PERFORMED BY
Level III (Providers utilizing a totally electronic system)

Data Format [combo] multiple-choice

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

Technical Information

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

| 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

Data Collector
EMS personnel

Content
No historical content for this element.

Discussion
There are no discussion points related to this element.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
OUTCOME OF THE PRIOR AID

Level III (Providers utilizing a totally electronic system)

Data Format [combo] single-choice

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

Technical Information

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

Field Values

- 25 Not Applicable
- 20 Not Recorded
- 15 Not Reporting
- 10 Not Known
- 5 Not Available
- 1220 Improved
- 1225 Unchanged
- 1230 Worse

Data Collector
EMS personnel

Content
No historical content for this element.

Discussion
There are no discussion points related to this element.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
POSSIBLE INJURY

Level I (Providers currently on a paper based system)

Data Format [combo] single-choice

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.

Technical Information

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

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
- 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.
- 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.

Data Collector
EMS personnel

Content
No historical content for this element.

Discussion
There are no discussion points related to this element.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element.
CHIEF COMPLAINT ANATOMIC LOCATION
Level II (Providers converting to an electronic system)

Data Format [combo] single-choice

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

Technical Information

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

Field Values
- -25 Not Applicable
- -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

Data Collector
EMS personnel

Content
No historical content for this element.

Discussion
There are no discussion points related to this element.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
CHIEF COMPLAINT ORGAN SYSTEM

Level II (Providers converting to an electronic system)

Data Format [combo] single-choice

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.

Technical Information

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

Field Values
- -25 Not Applicable
- -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

Data Collector
EMS personnel

Content
No historical content for this element.

Discussion
There are no discussion points related to this element.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
PRIMARY SIGN/SYMPTOM
Level III ( Providers utilizing a totally electronic system)

Data Format [combo] single-choice

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

Technical Information

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

Multiple Entry Configuration
No
Accepts Null
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

Data Collector
EMS personnel
**Content**
No historical content for this element.

**Discussion**
There are no discussion points related to this element.

**CEMSIS to NEMSIS Comparison**
This element has been determined to be equivalent to the NHTSA v2.2.1 element
OTHER ASSOCIATED SIGNS/SYMPTOMS

Level III (Providers utilizing a totally electronic system)

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

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

**Technical Information**

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

**Field Values**
- -25 Not Applicable
- -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 may be used for Bioterrorism Syndromic Surveillance.

**Data Collector**
EMS personnel

**Content**
No historical content for this element.
**Discussion**
There are no discussion points related to this element.

**CEMSIS to NEMSIS Comparison**
This element has been determined to be equivalent to the NHTSA v2.2.1 element
PROVIDER’S PRIMARY IMPRESSION
Level II (Providers currently on a paper based system)

Data Format [combo] single-choice

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

Technical Information

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

Field Values
- -25 Not Applicable
- -20 Not Recorded
- -15 Not Reporting
- -10 Not Known
- -5 Not Available
- 1617 Abdominal Pain (including pelvic pain)
- 1691 Alcohol
- 1625 Allergic Reaction (unspecified allergen)
- 1630 Altered Level of Consciousness (unspecified)
- 1677 Anaphylactic
- 1703 Apneic Episode
- 1740 Blunt Injury
- 1742 Burn
- 1692 Carbon Monoxide
- 1640 Cardiac Arrest – non-traumatic
- 1652 Cardiac – non-specific
- 1676 Cardiogenic
- 1651 Chest Pain – non-specific
- 1650 Chest pain – suspected cardiac origin
- 1620 Choking (Airway obstruction)
- 1670 Cold Illness/Injury
- 1697 Delivery
- 1635 Disturbance in Behavior
- 1725 Envenomation
- 1748 Epistaxis (Nosebleed)
- 1666 Fever
- 1619 Gastrointestinal Bleeding
- 1701 Hazmat Exposure
- 1747 Headache
- 1665 Heat Illness/Injury
- 1698 Household/industrial ingestion
- 1656 Hyperglycemia
- 1655 Hypoglycemia
Additional Information
ICD-9 Codes will be documented in the data base at the EMSA level rather than the ICD-10 due to CMS’s continued use of the ICD-9 in the EMS Condition Codes.

Data Collector
EMS personnel

Content
This should be the code from the above list that was most important in determining the treatment protocol followed to provide EMS care to the patient.

Discussion
This data element contains the single clinical assessment which primarily determined the treatment provided by the EMS provider. It should be possible to determine whether the treatments or medications provided match protocols that relate to the problem.

CEMSIS to NEMSIS Comparison
The CEMSIS variable list is more extensive than the NHTSA 2.2.1 list but it will allow data transmittal to NEMSIS.
PROVIDER’S SECONDARY IMPRESSION
Level II (Providers converting to an electronic system)

Data Format [combo] single-choice

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

Technical Information

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

Required in XSD Yes

Field Values
- -25 Not Applicable
- -20 Not Recorded
- -15 Not Reporting
- -10 Not Known
- -5 Not Available
- -24 No Medical Complaint
- 1752 Abdominal Pain (including pelvic pain)
- 1826 Alcohol
- 1760 Allergic Reaction (unspecified allergen)
- 1765 Altered Level of Consciousness (unspecified)
- 1814 Anaphylactic
- 1837 Apneic Episode
- 1875 Blunt Injury
- 1877 Burn
- 1815 Carbon Monoxide
- 1775 Cardiac Arrest – non-traumatic
- 1776 Cardiac – non-specific
- 1811 Cardiogenic
- 1786 Chest Pain – non-specific
- 1785 Chest pain – suspected cardiac origin
- 1755 Choking (Airway obstruction)
- 1805 Cold Illness/Injury
- 1832 Delivery
- 1770 Disturbance in Behavior
- 1860 Envenomation
- 1759 Epistaxis (nosebleed)
- 1800 Fever
- 1754 Gastrointestinal Bleeding
- 1834 Hazmat Exposure
- 1761 Headache
- 1800 Heat Illness/Injury
- 1832 Household/industrial ingestion
- 1791 Hyperglycemia
- 1790 Hypoglycemia
● 1810 Hypovolemic
● 1827 Insecticides
● 1831 Labor
● 1870 Near Syncope/Syncope
● 1865 Neurological Deficit (includes CVA/TIA)
● 1866 Neurological Deficit non-specific (other)
● 1833 Newborn
● 1757 Non-traumatic body pain
● 1820 Obviously Dead
● 1756 Other
● 1831 Other Drugs/Poisons
● 1876 Penetrating Injury
● 1838 Pharmaceutical ingestion
● 1771 Phenothiazine Reaction
● 1846 Post Seizure
● 1840 Respiratory Arrest
● 1838 Respiratory – non-specific
● 1780 Rhythm Disturbance
● 1845 Seizure – Active/Status Epilepticus
● 1835 Shortness of Breath – suspected asthma/COPD
● 1836 Shortness of Breath - suspected pulmonary edema
● 1829 Street Drugs - depressant
● 1828 Street Drugs- stimulant
● 1825 Suspected Poisoning/Drugs – non- specific
● 1878 Traumatic Arrest
● 1813 Unspecified Shock
● 1750 Vaginal Bleed (non-pregnant)
● 1830 Vaginal Bleed (pregnant)
● 1751 Vaginal Bleed (unspecified)
● 1753 Vomiting/diarrhea
● 1871 Weak/Dizzy/Sick/Nausea

**Data Collector**
EMS personnel

**Content**
The EMS provider’s secondary clinical impression code that completes the description (in combination with the Primary Impression) of the patient.

**Discussion**
This data element contains additional clinical assessment that assists the EMS provider in determining necessary treatment. It should be possible to determine whether the treatments or medications provided match protocols that relate to the primary impression.

**CEMSIS to NEMSIS Comparison**
The CEMSIS variable list is more extensive then the NHTSA 2.2.1 list but it will allow data transmittal to NEMSIS
CAUSE OF INJURY
Level I (Providers currently on a paper based system)

Data Format [combo] single-choice

Definition
The category of the reported/suspected external cause of the injury. This element provides for the classification of injury which may occur as the result of an incident, environmental event or poisoning.

Technical Information

<table>
<thead>
<tr>
<th>XSD Data Type</th>
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<th>XSD Domain (Simple Type)</th>
<th>CauseOfInjury</th>
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<tbody>
<tr>
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<td>Accepts Null</td>
<td>Yes</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- -25 Not Applicable
- -20 Not Recorded
- -15 Not Reporting
- -10 Not Known
- -5 Not Available
- 9500 Aircraft Related Accident
- 9505 Bicycle Accident
- 9510 Bites
- 9515 Chemical Poisoning
- 9520 Child Battering
- 9525 Drowning
- 9530 Drug Poisoning
- 9535 Electrocution (non-lightning)
- 9540 Excessive Cold
- 9545 Excessive Heat
- 9550 Falls
- 9555 Fire and Flames
- 9565 Firearm Injury
- 9575 Lightning
- 9580 Machinery Accidents
- 9585 Mechanical Suffocation
- 9600 Motorcycle Accident
- 9590 Motor Vehicle Non-traffic Accident
- 9595 Motor Vehicle Traffic Accident
- 9605 Non-motorized Vehicle Accident
- 9641 Other
- 9610 Pedestrian Traffic Accident
- 9615 Radiation Exposure
- 9620 Rape
- 9625 Smoke Inhalation
- 9635  Stabbing Assault
- 9630  Stabbing/Cutting Accidental
- 9640  Struck by Blunt/Thrown Object
- 9645  Venomous Stings (plants, animals)
- 9650  Water Transport Accident

Additional Information
- ICD-9 Codes will be documented in the database at the EMSA level rather than ICD-10 due to CMS’s continued use of ICD-9 in the EMS Condition Codes.
- Complete only if Possible Injury (E09_04) is “Yes”

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

Content
It is necessary to have a broad taxonomy for defining the external causes of injury, and this data element is coded in part according to the E codes in ICD-9. The cause of injury cannot be coded exactly as the detailed E-codes. The above code set is not expected to be exact but a close approximation.

Discussion
It is recognized that the entire E code list is too cumbersome for field use, and the element may be collapsed into the codes that have been listed above. When possible, the E code should be defined in as much detail as is present in the definitions.

CEMSIS to NEMSIS Comparison
While the list does not appear to differ significantly, the NHTSA v2.2.1 list is based on E codes. This list would require extensive matching and careful inspection to insure completeness and proper matching.
INTENT OF THE INJURY
Level I (Providers currently on a paper based system)

Data Format [combo] single-choice

Definition
The intent of the individual inflicting the injury

Technical Information

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

Field Values
-25 Not Applicable
-20 Not Recorded
-15 Not Reporting
-10 Not Known
-5 Not Available
2025 Intentional, Self
2020 Intentional, Other (Assaulted)
2030 Unintentional

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

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

Content
No historical content for this element.

Discussion
Used to better define cause and describe injury patterns within the EMS community.

CEMSIS to NEMSIS comparison
This element has been determined to be equivalent to the NGTSA v2.2.1 element.
MECHANISM OF INJURY
Level I (Providers currently on a paper based system)

Data Format [combo] multiple-choice

Definition
The mechanism of the event which caused the injury.

Technical Information

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

Field Values
- -25 Not Applicable
- -20 Not Recorded
- -15 Not Reporting
- -10 Not Known
- -5 Not Available
- 2035 Blunt
- 2040 Burn
- 2045 Other
- 2050 Penetrating

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

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

Content
No historical content for this element.

Discussion
There are no discussion points related to this element.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
SAFETY FACTORS

Level II (Providers converting to an electronic system)

Data Format [combo] multiple-choice

Definition
Safety factors that affected the incident.

Technical Information

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

Field Values
- -25 Not Applicable
- -20 Not Recorded
- -15 Not Reporting
- -10 Not Known
- -5 Not Available
- 2210 Auto-Belts Restrained
- 2187 Auto-Belts-Unrestrained
- 2188 Auto-Belts Unknown Restraint use
- 2170 Auto-Seats Infant/Child Seat
- 2171 Auto-Seats Booster Seat
- 2189 Auto-Seats Unknown Seat Use
- 2196 Auto-Front Airbag deployed
- 2197 Auto-Side Airbag Deployed
- 2198 Auto-No Airbag deployed
- 2199 Auto-Person riding outside of moving vehicle
- 2191 Auto-Person riding unrestrained in bed of truck
- 2221 Auto-Child left unattended in auto
- 2222 Firearms-Trigger lock employed
- 2223 Firearm - No Trigger lock Employed
- 2224 Firearms-unsafe storage
- 2226 Obstacle/Hazard-Contribute to injury
- 2180 Other Vehicle/RV-Helmet Worn
- 2227 Other Vehicle/RV-Helmet Use unknown
- 2192 Other Vehicle/RV No Helmet Worn
- 2193 Other Vehicle/RV Pads Worn
- 2228 Other Vehicle/RV Pad use unknown
- 2229 Other Vehicle/RV-No Pads Worn
- 2231 Poisons/Meds-Easy Access
- 2232 Safety Rails-installed at scene of incident
- 2233 Safety Rails – None in place
- 2234 Swimming Pool-Self-closing, self latching gate
- 2236 Swimming Pool-No Self latching gate
- 2237 Swimming Pool-Surrounded by barrier fence
- 2238  Swimming Pool – No Fence
- 2195  Watercraft-PFD Worn
- 2239  Watercraft-PFD not worn
- 2241  Watercraft-PFD Use unknown
- 2242  Windows-Guards in place
- 2243  Window – No Guards in place

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

**Data Collector**
EMS personnel if Possible Injury (E09_04) is answered “Yes”.

**Content**
One or more of the above codes can be recorded. For example, an auto crash involving a small child in an infant/child seat secured only by a lap belt with front and side airbags that did not deploy.

**Discussion**
Provides important information about safety device use. EMS personnel should be as complete as possible when coding for each category to assist in injury prevention activities.

**CEMSIS to NEMSIS Comparison**
The CEMSIS data element is a partial match to NEMSIS v2.2.1 but will allow data transmittal to NEMSIS
CARDIAC ARREST
Level II (Providers converting to an electronic system)

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

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

**Technical Information**

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

**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 (E11_01 through E11_11) should be addressed.

**Data Collector**
EMS personnel

**Content**
No historical content for this element.

**Discussion**
There are no discussion points related to this element.

**CEMSIS to NEMSIS Comparison**
This element has been determined to be equivalent to the NHTSA v2.2.1 element
CARDIAC ARREST ETIOLOGY
Level II (Providers converting to an electronic system)

Data Format [combo] single-choice

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

Technical Information

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

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

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

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

Content
No historical content for this element.

Discussion
There are no discussion points related to this element.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
RESUSCITATION ATTEMPTED
Level II (Providers converting to an electronic system)

Data Format [combo] multiple-choice

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

Technical Information

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

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”

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

Content
No historical content for this element.

Discussion
There are no discussion points related to this element.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
CARDIAC ARREST-FIRST MONITORED RHYTHM OF THE PATIENT

Level II (Providers converting to an electronic system)

Data Format [combo] single-choice

Definition
Documentation of what the first monitored rhythm which was noted in a patient with cardiac arrest.

Technical Information

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

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”

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

Content
This field contains the code(s) from the above list for the patient's initial cardiac rhythm as determined by EMS personnel.

Discussion
The initial monitored rhythm is used to assess the survival rate after certain rhythms.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
ANY RETURN OF SPONTANEOUS CIRCULATION

Level II (Providers converting to an electronic system)

Data Format [combo] single-choice

Definition
Indication whether or not there was any return of spontaneous circulation at any time during the EMS event.

Technical Information

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

| Required in XSD | No |

Field Values
- -25 Not Applicable
- -20 Not Recorded
- -15 Not Reporting
- -10 Not Known
- -5 Not Available
- 0 No
- 2370 Yes, Prior to ED Arrival Only
- 2375 Yes, Prior to ED Arrival and at the ED

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

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

Content
Was there a return to spontaneous cardiovascular circulation at any time in the prehospital setting? Yes or No

Discussion
There are no discussion points related to this element.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
ESTIMATED TIME OF ARREST PRIOR TO EMS ARRIVAL

**Level II (Providers converting to an electronic system)**

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

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

**Technical Information**

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

**Field Values**
- -25 Not Applicable
- -20 Not Recorded
- -15 Not Reporting
- -10 Not Known
- -5 Not Available
- 2390 >20 Minutes
- 2395 15-20 Minutes
- 2400 10-15 Minutes
- 2405 8-10 Minutes
- 2410 6-8 Minutes
- 2415 4-6 Minutes
- 2420 2-4 Minutes
- 2425 0-2 Minutes

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

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

**Content**
The minutes that a bystander or an EMS responder witnessed the cardiac arrest.

**Discussion**
This is determined from the time at which a collapse or signs of distress related to cardiac arrest were seen (or heard) by an identifiable witness (either bystander or EMS responder) to the time of arrival of the responding EMS unit to the patient.

**CEMSIS to NEMSIS Comparison**
This element has been determined to be equivalent to the NHTSA v2.2.1 element
DATE/TIME RESUSCITATION DISCONTINUED
Level III (Providers utilizing a totally electronic system)

Data Format [date/time]

Definition
The date/time the CPR was discontinued (could be time of death)

Technical Information

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:dateTime</th>
<th>XSD Domain (Simple Type)</th>
<th>DateTime</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null</td>
<td>Yes, but null value is blank or empty</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>No</td>
<td>Minimum Constraint</td>
<td>1,990</td>
</tr>
</tbody>
</table>

Field Values
Relevant Value for Data Element & Patient Care

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

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

Content
The hour, minute, and second when chest compressions and ventilations ceased. Midnight is ‘000000’ and begins the day.

Discussion
The time CPR was discontinued by an EMS responder may be a manually observed time (i.e., one that is not determined using GPS universal time).

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
CARDIAC RHYTHM ON ARRIVAL AT DESTINATION

Level II (Providers converting to an electronic system)

Data Format [combo] multiple-choice

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

Technical Information

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

Multiple Entry Configuration Yes

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

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

Content
This field contains the code(s) for the patient’s final cardiac rhythm that was monitored by EMS personnel. NOTE: Where PVC and/or PAC are observed in addition to the primary rhythm, the code for the primary rhythm occurs first, and ‘PVC’ and/or ‘PAC’ second.

Discussion
The initial monitored rhythm is used to assess the survival rate after certain rhythms.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element.
OTHER BARRIERS TO PATIENT CARE
Level III (Providers utilizing a totally electronic system)

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

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

**Technical Information**

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

**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

**Data Collector**
EMS personnel

**Content**
No historical content for this element.

**Discussion**
There are no discussion points related to this element. Refer to E02_06 “Type of Dispatch Delay”, E02_07 “Type of Response Delay, E02_08 “Type of Scene Delay and E02_09 “Type of Transport Delay”.

**CEMSIS to NEMSIS Comparison**
This element has been determined to be equivalent to the NHTSA v2.2.1 element
ALCOHOL/DRUG USE INDICATORS

Level III (Providers utilizing a totally electronic system)

Data Format [combo] multiple-choice

Definition
Indicators for the potential use of alcohol or drugs by the patient.

Technical Information

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

Required in XSD Yes

Field Values
- -25 Not Applicable
- -20 Not Recorded
- -15 Not Reporting
- -10 Not Known
- -5 Not Available
- 3000 Alcohol and/or Drug Paraphernalia at Scene
- 2990 Patient Admits to Alcohol Use
- 2995 Patient Admits to Drug Use
- 2985 Smell of Alcohol on Breath

Data Collector
EMS personnel

Content
Should be coded whenever the EMS responder suspects alcohol and/or drug use by the patient at the time of the incident. If alcohol or drugs are totally unrelated to the incident, this field should be coded as ‘-25’ (Not Applicable).

Discussion
Important data element for injury research, permitting reports of value to public health researchers and policy makers.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
**CARDIAC RHYTHM**

**Level I (Providers currently on a paper based system)**

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

**Definition**
The initial and subsequent cardiac rhythm(s) of the patient as interpreted by EMS personnel

**Technical Information**

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

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

**Accepts Null** Yes

**Required in XSD** No

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

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

**Data Collector**
EMS personnel or may be provided electronically through a medical device

**Content**
No historical content for this element.

**Discussion**
There are no discussion points related to this element.

**CEMSI S to NEMSI S Comparison**
This element has been determined to be equivalent to the NHTSA v2.2.1 element
SBP (SYSTOLIC BLOOD PRESSURE)

Level I & II (Providers currently on a paper based system for the initial set of vitals; Level II for providers converting to an electronic system for subsequent sets of vitals)

Data Format [number]

Definition
The patient's initial and subsequent systolic blood pressure(s).

Technical Information

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>XSD Domain (Simple Type)</th>
<th>SBP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes, via structure</td>
<td>Accepts Null</td>
<td>Yes, but null value is blank or empty</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>No</td>
<td>Minimum Constraint</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Maximum Constraint</td>
<td>400</td>
</tr>
</tbody>
</table>

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

Field Values
Relevant Value for Data Element & Patient Care

Additional Information
Could be collected from Device Systolic Blood Pressure (E21_14)

Data Collector
EMS personnel or may be provided electronically through a medical device

Content
The patient's systolic blood pressure in millimeters of mercury (mmHg) as determined by EMS personnel.

Discussion
Important component of several scoring systems for triage, and permits some assessment of acuity of patient.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
DBP (DIASTOLIC BLOOD PRESSURE)
Level I (Providers currently on a paper based system)

Data Format [number]

Definition
The patient's initial and subsequent diastolic blood pressure(s).

Technical Information

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>XSD Domain (Simple Type)</th>
<th>DBP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes, via structure</td>
<td>Accepts Null</td>
<td>Yes, but null value is blank or empty</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>No</td>
<td>Minimum Constraint 0</td>
<td>Maximum Constraint 300</td>
</tr>
</tbody>
</table>

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

Field Values
Relevant Value for Data Element & Patient Care

Additional Information
Could be collected from Device Diastolic Blood Pressure (E21_15)

Data Collector
EMS personnel or may be provided electronically through a medical device

Content
The patient's diastolic blood pressure in millimeters of mercury (mmHg) as determined by EMS personnel. If the blood pressure is not auscultated, the diastolic blood pressure shall be documented as palpated (E14_06).

Discussion
Important component of several scoring systems for triage, and permits some assessment of acuity of patient.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
METHOD OF BLOOD PRESSURE MEASUREMENT
Level III (Providers utilizing a totally electronic system)

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

**Definition**
Indication of method of blood pressure procedure.

**Technical Information**

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>XSD Domain (Simple Type)</th>
<th>MethodOfBloodPressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes, via structure</td>
<td>Accepts Null</td>
<td>No</td>
</tr>
</tbody>
</table>

**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

**Data Collector**
EMS personnel or may be provided electronically through a medical device

**Content**
No historical content for this element.

**Discussion**
There are no discussion points related to this element.

**CEMSIS to NEMSIS Comparison**
This element has been determined to be equivalent to the NHTSA v2.2.1 element
PULSE RATE

Level I (Providers currently on a paper based system)

Data Format [number]

Definition
The patient's initial and subsequent pulse rate(s), palpated or auscultated, expressed as a number per minute

Technical Information

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>XSD Domain (Simple Type)</th>
<th>PulseRate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes, via structure</td>
<td>Accepts Null</td>
<td>Yes, but null value is blank or empty</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>No</td>
<td>Minimum Constraint</td>
<td>0</td>
</tr>
<tr>
<td>Maximum Constraint</td>
<td>500</td>
<td>XSD Structure: Each element is section E14 is associated with a E14_01 Date/Time</td>
<td></td>
</tr>
</tbody>
</table>

Field Values
Relevant Value for Data Element & Patient Care

Additional Information
Could be collected from Device Pulse Rate (E21_13)

Data Collector
EMS personnel or may be provided electronically through a medical device

Content
The patient's pulse rate in number per minute that was determined by EMS personnel.

Discussion
The pulse rate is a component of various triage scoring systems, and permits a rough assessment of the severity of illness of the patient. This data element is based on the physical examination of the patient, and the pulse must be palpated or auscultated.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
RESPIRATORY RATE

Level I (Providers currently on a paper based system)

Data Format [number]

Definition
The patient's initial and subsequent respiratory rate(s) expressed as a number per minute

Technical Information

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSD Domain (Simple Type)</td>
<td>RespiratoryRate</td>
</tr>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes, via structure</td>
</tr>
<tr>
<td>Accepts Null</td>
<td>Yes, but null value is blank or empty</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Required in XSD</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Constraint</td>
<td>0</td>
</tr>
<tr>
<td>Maximum Constraint</td>
<td>100</td>
</tr>
</tbody>
</table>

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

Field Values
Relevant Value for Data Element & Patient Care

Additional Information
Could be collected from Device Respiratory Rate (E21_16)

Data Collector
EMS personnel or may be provided electronically through a medical device

Content
The patient's unassisted respiratory rate in number per minute as determined by EMS personnel.

Discussion
The respiratory rate is a component of several triage scoring systems and provides some assessment of severity of illness or injury.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
RESPIRATORY EFFORT
Level II (Providers converting to an electronic system)

Data Format [text]

Definition
The patient’s initial and subsequent respiratory effort(s)

Technical Information

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

Multiple Entry Configuration
Yes, via structure

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
- 3185 Normal
- 3190 Labored
- 3195 Fatigued
- 3200 Absent
- 3205 Not Assessed
- 3201 Ventilated

Data Collector
EMS personnel

Content
The code from the above list that indicates the effort required by the patient to breathe as determined by EMS personnel.

Discussion
Respiratory effort is an essential component of pediatric emergency assessment, and is a major part of curricula dealing with pediatric emergencies. Respiratory effort is also potentially valuable in assessing adult patients.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element.
GLASGOW COMA SCORE-EYE

Level I (Providers currently on a paper based system)

**Data Format** [number]

**Definition**
The patient's initial and subsequent Glasgow Coma Score Eye opening score(s).

**Technical Information**

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>XSD Domain (Simple Type)</th>
<th>GCSEye</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes, via structure</td>
<td>Accepts Null</td>
<td>Yes, but null value is blank or empty</td>
</tr>
</tbody>
</table>

**Required in XSD** No
**Minimum Constraint** 1
**Maximum Constraint** 4

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

**Field Values**
- All Patients: 1 = None
- All Patients: 2 = Opens Eyes in response to painful stimulation
- All Patients: 3 = Opens Eyes in response to verbal
- All Patients: 4 = Opens Eyes spontaneously stimulation

**Additional Information**
Can be configured as a single choice list box

**Data Collector**
EMS personnel

**Content**
No historical content for this element.

**Discussion**
One of three components of the Glasgow coma scale as determined by EMS personnel, which is widely used to assess neurological status. The score and its components are also parts of a variety of triage scoring systems.

**CEMSIS to NEMSIS Comparison**
This element has been determined to be equivalent to the NHTSA v2.2.1 element
GLASGOW COMA SCORE-VERBAL
Level I (Providers currently on a paper based system)

**Data Format** [number]

**Definition**
The patient's initial and subsequent Glasgow Coma Score Verbal score(s).

**Technical Information**

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>XSD Domain (Simple Type)</th>
<th>GCSVerbal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes, via structure</td>
<td>Accepts Null</td>
<td>Yes, but null value is blank or empty</td>
</tr>
</tbody>
</table>

| Required in XSD | No | Minimum Constraint | 1 | Maximum Constraint | 5 |

<table>
<thead>
<tr>
<th>Field Values</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Patients 0-23 months: 1 = None</td>
<td></td>
</tr>
<tr>
<td>Patients 0-23 months: 2 = Persistent cry</td>
<td></td>
</tr>
<tr>
<td>Patients 0-23 months: 3 = Inappropriate cry</td>
<td></td>
</tr>
<tr>
<td>Patients 0-23 months: 4 = Cries, inconsolable</td>
<td></td>
</tr>
<tr>
<td>Patients 0-23 months: 5 = Smiles, coos, cries appropriately</td>
<td></td>
</tr>
<tr>
<td>Patients 2-5 years: 1 = None</td>
<td></td>
</tr>
<tr>
<td>Patients 2-5 years: 2 = Grunts</td>
<td></td>
</tr>
<tr>
<td>Patients 2-5 years: 3 = Cries and/or screams</td>
<td></td>
</tr>
<tr>
<td>Patients 2-5 years: 4 = Inappropriate words</td>
<td></td>
</tr>
<tr>
<td>Patients 2-5 years: 5 = Appropriate words</td>
<td></td>
</tr>
<tr>
<td>Patients &gt;5 years: 1 = None</td>
<td></td>
</tr>
<tr>
<td>Patients &gt;5 years: 2 = Non-specified sounds</td>
<td></td>
</tr>
<tr>
<td>Patients &gt;5 years: 3 = Inappropriate words</td>
<td></td>
</tr>
<tr>
<td>Patients &gt;5 years: 4 = Confused conversation or speech</td>
<td></td>
</tr>
<tr>
<td>Patients &gt;5 years: 5 = Oriented and appropriate speech</td>
<td></td>
</tr>
</tbody>
</table>

**Additional Information**
Can be configured as a single choice list box

**Data Collector**
EMS personnel

**Content**
If the patient is intubated and deeply comatose, then this data element is coded as 1 for none, since there was no verbal response at the time of intubation.

**Discussion**
One of three components of the Glasgow coma scale as determined by EMS personnel, which is widely used to assess neurological status. The score and its components are also parts of a variety of triage scoring systems.

**CEMSIS to NEMSIS Comparison**
This element has been determined to be equivalent to the NHTSA v2.2.1 element
GLASGOW COMA SCORE-MOTOR
Level I (Providers currently on a paper based system)

Data Format [number]

Definition
The patient's initial and subsequent Glasgow Coma Score Motor score(s).

Technical Information

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>XSD Domain (Simple Type)</th>
<th>GCSMotor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes, via structure</td>
<td>Accepts Null</td>
<td>Yes, but null value is blank or empty</td>
</tr>
</tbody>
</table>

Required in XSD No Minimum Constraint 1 Maximum Constraint 6

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

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

Additional Information
Can be configured as a single choice list box

Data Collector
EMS personnel

Content
No historical content for this element.

Discussion
One of three components of the Glasgow coma scale as determined by EMS personnel, which is widely used to assess neurological status. The score and its components are also parts of a variety of triage scoring systems.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
TOTAL GLASGOW COMA SCORE
Level I (Providers currently on a paper based system)

Data Format [number]

Definition
The patient's total initial and subsequent Glasgow Coma Score(s).

Technical Information

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>XSD Domain (Simple Type)</th>
<th>TotalGCS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes, via structure</td>
<td>Accepts Null</td>
<td>Yes, but null value is blank or empty</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Required in XSD</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Constraint</td>
<td>1</td>
</tr>
<tr>
<td>Maximum Constraint</td>
<td>15</td>
</tr>
</tbody>
</table>

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

Field Values
Relevant Value for Data Element & Patient Care

Additional Information
Calculated from Glasgow Coma Score-Eye (E14_15), Glasgow Coma Score-Verbal (E14_16), and Glasgow Coma Score-Motor (E14_17)

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

Content
The calculated Glasgow Coma Score is the sum of the eye opening, verbal and motor response components. The range of the score is 3 to 15.

Discussion
This important component of several triage scoring systems provides information about the severity of a neurological disorder.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
PAIN SCALE
Level II (Providers converting to an electronic system)

**Data Format** [number]

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

**Technical Information**

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>XSD Domain (Simple Type)</th>
<th>PainScale</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes, via structure</td>
<td>Accepts Null</td>
<td>Yes, but null value is blank or empty</td>
</tr>
</tbody>
</table>

| Required in XSD   | No        | Minimum Constraint | 0         | Maximum Constraint | 10 |

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

**Field Values**
- 0 (no pain)
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 (worst pain)

**Additional Information**
Number from 0 to 10

**Data Collector**
EMS personnel.

**Content**
No historical content for this element.

**Discussion**
Recommendation:
- Utilize the FLACC Behavioral Tool for children less than 3 years of age.

This tool is appropriate for use with children less than 3 years of age or those with cognitive impairments or any child who is unable to use the other scales. FLACC is the acronym for Face, Legs, Activity, Cry and Consolability. The patient is assessed in each of these categories with a score applied to behaviors evaluated. The five scores are totaled and the severity of pain is determined based on the 0-10 pain scale.
<table>
<thead>
<tr>
<th>FACE</th>
<th>0</th>
<th>1</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>No particular expression or smile</td>
<td>Occasional grimace or frown, withdrawn, disinterested</td>
<td>Frequent to constant frown, clenched jaw, quivering chin</td>
<td></td>
</tr>
</tbody>
</table>

| LEGS       | Normal position or relaxed | Uneasy, restless, tense | Kicking or legs drawn up |

| ACTIVITY   | Lying quietly, normal position, moves easily | Squirming, tense, shifting back and forth, hesitant to move, guarding | Arched, rigid or jerking, fixed position, rocking, rubbing of body part |

| CRY        | No cry/moan (awake or asleep) | Moans or whimpers, occasional cries, sighs or complaint | Cries steadily, screams, sobs, moans, groans, frequent complaints |

| CONSOLABILITY | Calm, content, relaxed, needs no consoling | Reassured by hugging, talking to; distractible | Difficult to console or comfort |

- Utilize the Baker-Wong FACES Pain Rating Scale for children age 3 years and older. This tool is usually appropriate for use with children age 3 years and older. Point to each face using the words to describe the pain intensity. Ask the child to choose face that best describes how he/she is feeling. Explain to the person that each face is for a person who feels happy because he has no pain (hurt) or sad because he has some or a lot of pain. Ask the person to choose the face that best describes how he/she is feeling.

- Face 0 is very happy because he doesn't hurt at all.
- Face 2 hurts just a little bit.
- Face 4 hurts a little more.
- Face 6 hurts even more.
- Face 8 hurts a whole lot.
- Face 10 hurts as much as you can imagine, although you don't have to be crying to feel this bad.


**CEMSIS to NEMSIS Comparison**
This element has been determined to be equivalent to the NHTSA v2.2.1 element
REVISED TRAUMA SCORE
Level II (Providers converting to an electronic system)

Data Format [number]

Definition
The patient's Revised Trauma Score

Technical Information

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>XSD Domain (Simple Type)</th>
<th>RTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes, via structure</td>
<td>Accepts Null</td>
<td>Yes, but null value is blank or empty</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>No</td>
<td>Minimum Constraint</td>
<td>0</td>
</tr>
<tr>
<td>Maximum Constraint</td>
<td>12</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Field Values
Relevant Value for Data Element & Patient Care

Additional Information
- 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)
- Calculated based on 3 components
- 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
- 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

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

Content
No historical content for this element.

Discussion
The revised trauma score is a triage scoring system that may be used to categorize injured patients in an EMS system and is calculable from other data elements in the minimum data set.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
ESTIMATED BODY WEIGHT

Level I (Providers currently on a paper based system)

**Data Format** [number]

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

**Technical Information**

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>XSD Domain (Simple Type)</th>
<th>EstimatedBodyWeight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>No</td>
<td>Accepts Null</td>
<td>No</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>No</td>
<td>Minimum Constraint 1</td>
<td>Maximum Constraint 500</td>
</tr>
</tbody>
</table>

**Field Values**
Relevant Value for Data Element & Patient Care

**Data Collector**
EMS personnel

**Content**
This weight should be a suitable estimate or for pediatric patients the approximate mid-point of the length based resuscitation tape weight range, or other suitable estimate.

**Discussion**
The approximate weight (in kilograms) of the patient is essential for pediatrics. Estimates may be based upon the length based resuscitation tape category that converts length into a weight range, and has the appropriate size and dose range for that weight.

**CEMSIS to NEMSI S Comparison**
This element has been determined to be equivalent to the NHTSA v2.2.1 element
MEDICATION GIVEN

**Level 1 (Providers currently on a paper based system)**

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

**Definition**
The medication given to the patient

**Technical Information**

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:string</th>
<th>XSD Domain (Simple Type)</th>
<th>MedicationsGiven</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes, via structure</td>
<td>Accepts Null</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Required in XSD</strong></td>
<td>Yes</td>
<td><strong>Minimum Constraint</strong></td>
<td>2</td>
</tr>
</tbody>
</table>

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

**Field Values**

- `-25` Not Applicable
- `-20` Not Recorded
- `-15` Not Reporting
- `-10` Not Known
- `-5` Not Available
- `8650` 25% Dextrose
- `8655` 50% Dextrose
- `8605` Activated Charcoal
- `8610` Adenosine
- `8620` Aerosolized or nebulized beta-2 specific bronchodilator
- `8615` Amiodarone
- `8622` Amyl Nitrate
- `8625` Aspirin
- `8630` Atropine Sulfate
- `8640` Blood & Blood Products
- `8645` Calcium Chloride
- `8665` Diazepam (Valium®)
- `8670` Diphenhydramine Hydrochloride (Benadryl®)
- `8675` Dopamine Hydrochloride
- `8680` Epinephrine 1:1000
- `8682` Epinephrine 1:10,000
- `8685` Furosemide (Lasix®)
- `8690` Glucagon
- `8760` Glucose/Sugar Solutions
- `8692` Glycoprotein IIb/IIIa Receptor Inhibitors
- `8695` Heparin
- `8700` Ipratropium Bromide (Atrovent®)
- `8705` Lidocaine Hydrochloride
- `8710` Lorazepam
- `8720` Mannitol
- `8725` Midazolam
<table>
<thead>
<tr>
<th>Code</th>
<th>Medication</th>
</tr>
</thead>
<tbody>
<tr>
<td>8715</td>
<td>Magnesium Sulfate</td>
</tr>
<tr>
<td>8730</td>
<td>Morphine Sulfate</td>
</tr>
<tr>
<td>8735</td>
<td>Naloxone Hydrochloride</td>
</tr>
<tr>
<td>8745</td>
<td>Nitroglycerin</td>
</tr>
<tr>
<td>8750</td>
<td>Nitrous Oxide</td>
</tr>
<tr>
<td>8755</td>
<td>Normal Saline</td>
</tr>
<tr>
<td>8765</td>
<td>Oxygen</td>
</tr>
<tr>
<td>8770</td>
<td>Oxytocin (Pitocin®)</td>
</tr>
<tr>
<td>8785</td>
<td>Procainamide</td>
</tr>
<tr>
<td>8775</td>
<td>Potassium Chloride</td>
</tr>
<tr>
<td>8780</td>
<td>Pralixome Chloride 2 (2 PAM)</td>
</tr>
<tr>
<td>8790</td>
<td>Rocuronium Bromide (Zemuron®)</td>
</tr>
<tr>
<td>8795</td>
<td>Sodium Bicarbonate</td>
</tr>
<tr>
<td>8800</td>
<td>Sodium Thiosulfate</td>
</tr>
<tr>
<td>8805</td>
<td>Succinylcholine Chloride (Anectine)</td>
</tr>
<tr>
<td>8810</td>
<td>Syrup of Ipecac</td>
</tr>
<tr>
<td>8813</td>
<td>Terbutaline Sulfate</td>
</tr>
<tr>
<td>8815</td>
<td>Tissue Plasminogen Activator</td>
</tr>
<tr>
<td>8817</td>
<td>Total Parenteral Nutrition</td>
</tr>
<tr>
<td>8818</td>
<td>Verapamil</td>
</tr>
</tbody>
</table>

**Additional Information**
List created from Medications (D04_06)

**Data Collector**
EMS personnel

**Content**
The medications listed above include those in the scope of practice for EMT-I, EMT-II and EMT-P and optional scope of practice approved for individual local EMS agencies. Some are approved only for inter-facility transfer (IFT) patients.

**Discussion**
Intended to provide planners and educators with information about which medications are administered in the field, by whom, and for what indications.

**CEMSIS to NEMSIS Comparison**
List created from Medications (D04_06)
MEDICATION ADMINISTERED ROUTE
Level II (Providers converting to an electronic system)

Data Format: [combo] single-choice

**Definition**
The route that the medication was administered to the patient.

**Technical Information**

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

<table>
<thead>
<tr>
<th>Multiple Entry Configuration</th>
<th>Yes, via structure</th>
<th>Accepts Null</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required in XSD</td>
<td>No</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**Field Values**

- -25 Not Applicable
- -20 Not Recorded
- -15 Not Reporting
- -10 Not Known
- -5 Not Available
- 4175 Endotracheal tube
- 4180 Gastrostomy tube
- 4185 Inhalation
- 4190 Intramuscular
- 4191 Intraosseous
- 4200 Intraocular
- 4205 Intravenous
- 4210 Nasal
- 4215 Nasal prongs
- 4220 Nasogastric
- 4225 Ophthalmic
- 4230 Oral
- 4235 Other/miscellaneous
- 4240 Otic
- 4245 Re-breather mask
- 4250 Rectal
- 4255 Subcutaneous
- 4260 Sublingual
- 4265 Topical
- 4270 Tracheostomy
- 4275 Transdermal
- 4280 Urethral
- 4285 Ventimask
- 4290 Wound

**Data Collector**
EMS personnel

**Content**
Documentation of route used for each medication given to a patient.
Discussion
This data element documents the route for each medication as some medications can be administered multiple routes.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
MEDICATION DOSAGE

Level II (Providers converting to an electronic system)

Data Format [number]

Definition
The dose or amount of medication given to the patient

Technical Information

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

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
Relevant Value for Data Element & Patient Care

Data Collector
EMS personnel

Content
Documentation of the dosage for each medication administered to a patient including the decimal point. PRN orders should be documented in the open comment field on the PCR, but not recorded in this field unless the medication is actually given.

Discussion
Documentation of dosage should only be for those medications actually administered to a patient. When giving IV fluids, the amount given in the field until the time of arrival at the hospital should be recorded here.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
MEDICATION DOSAGE UNITS
Level II (Providers converting to an electronic system)

Data Format [combo] single-choice

Definition
The units of medication dosage given to patient

Technical Information

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>XSD Domain (Simple Type)</th>
<th>MedicationDosageUnits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>Yes, via structure</td>
<td>Accepts Null</td>
<td>No</td>
</tr>
</tbody>
</table>

E18_06
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)
- 4320 LITERS
- 4325 LPM
- 4330 MCG
- 4335 MCG/KG/MIN
- 4340 MEQ
- 4345 MG
- 4350 MG/KG/MIN
- 4355 ML
- 4360 ML/HR
- 4371 Standard Metered Dose
- 4365 Other

Data Collector
EMS personnel

Content
Documentation of the dosage unit for each medication administered to a patient.

Discussion
There are no discussion points related to this element.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
RESPONSE TO MEDICATION
Level III (Providers utilizing a totally electronic system)

Data Format [combo] single-choice

Definition
The patient's response to the medication. See also “Medication Complication” E18_08.

Technical Information

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

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

Field Values
• -25 Not Applicable
• -20 Not Recorded
• -15 Not Reporting
• -10 Not Known
• - 5 Not Available
• 4375 Improved
• 4380 Unchanged
• 4385 Worse

Data Collector
EMS personnel

Content
Documentation of result of medications given to a patient by pre-hospital personnel.

Discussion
This data element permits the evaluation of the benefits of medications given in the field.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
MEDICATION COMPLICATION
Level III (Providers utilizing a totally electronic system)

Data Format [combo] multiple-choice

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

Technical Information

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>XSD Domain (Simple Type)</th>
<th>MedicationComplication</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry Configuration</td>
<td>(1) Yes, via structure. (2) Yes Accepts Null</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Required in XSD Yes

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

Field Values
- -25 Not Applicable
- -20 Not Recorded
- -15 Not Reporting
- -10 Not Known
- -5 Not Available
- 4395 Altered Mental Status
- 4400 Apnea
- 4405 Bleeding
- 4410 Bradycardia
- 4415 Diarrhea
- 4420 Extravasation
- 4425 Hypertension
- 4430 Hyperthermia
- 4435 Hypotension
- 4440 Hypoxia
- 4445 Injury
- 4450 Itching/Urticaria
- 4455 Nausea
- 4390 None
- 4460 Other
- 4465 Respiratory Distress
- 4470 Tachycardia
- 4475 Vomiting

Data Collector
EMS personnel

Content
No historical content for this element.

Discussion
There are no discussion points related to this element.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
PROCEDURE

Level I (Providers currently on a paper based system)

Data [combo] single-choice
Definition
The procedure performed on the patient.

Technical Information

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:decimal</th>
<th>XSD Domain (Simple Type)</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry</td>
<td>Yes, via structure</td>
<td>Accepts Null</td>
<td>Yes</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Minimum 0</td>
<td>Maximum 1,000</td>
</tr>
</tbody>
</table>

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
- 96.700 Assisted ventilation (positive pressure)
- 93.931 Bag/Valve/Mask
- 2244 Bleeding control
- 38.990 Blood sampling
- 99.600 CPR
- 99.621 Defibrillation (auto)
- 99.622 Defibrillation (manual)
- 99.615 Defibrillation (semi-automatic)
- 89.909 EKG
- 89.510 EKG monitor
- 96.040 Endotracheal intubation
- 96.992 End Tidal CO₂
- 96.030 Esophageal airway
- 96.035 Esophageal/tracheal airway
- 41.923 Intraosseous catheter
- 96.041 Intubation, other (stoma, nasal)
- 38.992 Intravenous catheter
- 8695 Monitor and adjust IV solutions containing heparin
- 8740 Monitor and adjust IV solutions containing nitroglycerine
- 8775 Monitor and adjust IV solutions containing potassium
- 38.993 Monitor pre-existing vascular access
- 34.042 Monitor thoracostomy tube(s)
- 96.011 Nasopharyngeal airway
- 31.110 Needle Cricothyrotomy
- 34.041 Needle Thoracostomy
- 96.070 NG/OG tube
- 73.590 Obstetrical delivery
• 96.021  Oropharyngeal airway
• 96.010  Oxygen by cannula
• 96.053  Oxygen by mask
• 99.624  Pacing
• 93.580  Pneumatic Anti-Shock Garment
• 8900   Precordial thump
• 9999   Pre-existing devices
• 89.392  Pulse Oximetry
• 96.042  Rapid Sequence Induction
• 98.130  Removal of foreign body
• 99.842  Restraints
• 38.991  Saline lock
• 93.540  Splint of extremity (non-traction)
• 93.591  Spinal precautions
• 98.150  Suction
• 99.623  Synchronized cardioversion
• 93.450  Traction splint
• 99.640  Vagal maneuver(s)
• 93.057  Wound care

Additional Information
List created from Procedures (D04_04)

Data Collector
EMS personnel

Content
The procedures listed above include those in the scope of practice for EMT-I, EMT-II and EMT-P and optional scope of practice approved for individual local EMS agencies. The coding documented at the EMSA level will utilize the ICD-9 Procedure Codes.

Discussion
Intended to provide planners and educators with information about which procedures are conducted in the field, by whom, and for what indications. Procedures are defined here as anything done by way of assessment or treatment of the patient.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
NUMBER OF PROCEDURE ATTEMPTS

Data
[number]

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

Technical Information

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>XSD Domain (Simple Type)</th>
<th>Number of Procedure Attempts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry</td>
<td>Yes, via structure</td>
<td>Accepts Null</td>
<td>Yes</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Minimum Constraint</td>
<td>-25</td>
</tr>
</tbody>
</table>

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
- Relevant Value for Data Element & Patient Care

Data Collector
EMS personnel

Content
For procedures list in E19_03 that are performed on the patient, this field indicates the number of attempts per EMS personnel regardless of success.

Discussion
In most instances, the number will be ‘1’. This data element permits educators and researchers to know whether certain procedures are posing particular technical problems in the field.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
PROCEDURE SUCCESSFUL
Level III (Providers utilizing a totally electronic system)

Data  [combo] single-choice

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

Technical Information

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

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

Data Collector
EMS personnel

Content
Documentation of result/success of each procedure attempted on a patient by pre-hospital personnel. Result/Success should be documented for each personnel who attempts a procedure. All procedures listed in E19_03 should have result/success documented.

Discussion
This data element permits educators and researchers to know whether certain procedures are posing particular technical problems in the field.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
PROCEDURE COMPLICATION

Level III (Providers utilizing a totally electronic system)

Data [combo] multiple-choice

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

Technical Information

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>XSD Domain (Simple Type)</th>
<th>ProcedureComplication</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry</td>
<td>(1) Yes, via structure.</td>
<td>Accepts Null</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>(2) Yes for each E14_01</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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
- 4550 Hyperthermia
- 4545 Hypertension
- 4555 Hypotension
- 4560 Hypoxia
- 4570 Itching/Urticaria
- 4565 Injury
- 4575 Nausea
- 4580 Other
- 4585 Respiratory Distress
- 4590 Tachycardia
- 4595 Vomiting

Data Collector
EMS personnel

Content
No historical content for this element
**Discussion**  
There are no discussion points related to this element.

**CEMSIS to NEMSIS Comparison**  
This element has been determined to be equivalent to the NHTSA v2.2.1 element.
DESTINATION/TRANSFERRED TO, NAME
Level II (Providers converting to an electronic system)

Data  [text]

Definition
The destination the patient was delivered or transferred to

Technical Information

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:string</th>
<th>XSD Domain (Simple Type)</th>
<th>Destination Transferred To ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry</td>
<td>No</td>
<td>Accepts Null</td>
<td>Yes</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>No</td>
<td>Minimum Constraint</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Maximum Constraint</td>
<td>50</td>
</tr>
</tbody>
</table>

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

Additional Information
Could be an editable single choice list box derived from Hospitals Served (D04_11) and Other Destinations

Data Collector
EMS personnel

Content
This identifier must be unique within California, and should be the HIPAA NPI (National Provider Identifier).

Discussion
EMSA will electronically provide the HIPAA codes to the end user.
Data element: Level II (Providers converting to an electronic system.)

CEMSI S to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
DESTINATION ZIP CODE

Level I (Providers currently on a paper based system)

Data  [text]

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

Technical Information

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:string</th>
<th>XSD Domain (Simple Type)</th>
<th>Zip</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry</td>
<td>No</td>
<td>Accepts Null</td>
<td>Yes</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td>Minimum Constraint</td>
<td>2</td>
</tr>
<tr>
<td>Maximum Constraint</td>
<td>10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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
- Relevant Value for Data Element & Patient Care

Additional Information
Can be 5 or 9 digit Zip Code

Data Collector
EMS provider agency or may be electronically provided through the 911 or dispatch center. May be autofilled from destination data E20_01.

Content
No historical content for this element

Discussion
There are no discussion points related to this element.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
INCIDENT/PATIENT DISPOSITION

**Level I** *(Providers currently on a paper based system)*

**Data**  [combo] single-choice

**Definition**
Type of disposition treatment and/or transport of the patient.

**Technical Information**

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

<table>
<thead>
<tr>
<th>Multiple Entry</th>
<th>No</th>
<th>Accepts Null</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Values**
- 4821 Discontinued resuscitation
- 4825 No patient found
- 4830 No treatment required
- 4820 Patient dead upon arrival of EMS responders
- 4835 Patient/parent refused care and transport
- 4815 Response cancelled
- 4851 Transferred care to other EMS unit
- 4831 Transferred but patient/parent refused care
- 4850 Transferred to receiving facility
- 4840 Treated and not transported by EMS personnel
- 4841 Treated but patient/parent refused transport
- 4855 Treated, Transported by Law Enforcement
- 4860 Treated, Transported by Private Vehicle

**Data Collector**
EMS personnel

**Content**
One of the above codes that indicates the disposition of the EMS response.

**Discussion**
The variables list for this element was altered to match the original CA dataset.

**CEMSI S to NEMSIS Comparison**
The variable list for this element was altered to match the original CA dataset while still trying to be inclusive of NHTSA 2.2.1. It will allow data transmittal to NEMSIS.
TRANSPORT MODE FROM SCENE

Level III (Providers utilizing a totally electronic system)

Data  [combo] single-choice

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

Technical Information

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>XSD Domain (Simple Type)</th>
<th>Transport Mode From Scene</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry</td>
<td>No</td>
<td>Accepts Null</td>
<td>Yes</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- -25 Not Applicable
- -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

Data Collector
EMS personnel

Content
The code that identifies the use of lights and/or sirens during transport from the incident scene to the destination

Discussion
This field provides the data to determine the frequency with which EMS vehicles are using lights and/or sirens during transport from the EMS incident scene to the destination.
Data element: Level III (Providers utilizing a totally electronic system.)

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element

.
REASON FOR CHOOSING DESTINATION
Level I (Providers currently on a paper based system)

Data  [combo] single-choice

Definition
The reason the unit chose to deliver or transfer the patient to the destination

Technical Information

<table>
<thead>
<tr>
<th>XSD Data Type</th>
<th>xs:integer</th>
<th>XSD Domain (Simple Type)</th>
<th>Reason For Choosing Destination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Entry</td>
<td>No</td>
<td>Accepts Null</td>
<td>Yes</td>
</tr>
<tr>
<td>Required in XSD</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Values
- -25  Not Applicable
- -20  Not Recorded
- -15  Not Reporting
- -10  Not Known
- -5   Not Available
- 4990 Closest Facility
- 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 Physician's Choice
- 5035 Protocol
- 5040 Specialty Resource Center

Additional Information
If Diversion is selected, please see C01_05 “Diversion”

Data Collector
EMS personnel

Content
The code (from those above) that indicates the primary reason the destination was selected. Closest facility should be chosen if none of the other variables are appropriate.

Discussion
Helps EMS managers determine whether the choice of destination was appropriate.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element
TYPE OF DESTINATION

Level I (Providers currently on a paper based system)

Data [combo] single-choice

Definition
The type of destination the patient was delivered or transferred to

Technical Information

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

Field Values
- -25 Not Applicable
- -20 Not Recorded
- -15 Not Reporting
- -10 Not Known
- -5 Not Available
- 5045 Home
- 5050 Hospital
- 5055 Medical Office/Clinic
- 5060 Morgue
- 5065 Nursing Home
- 5070 Other
- 5075 Other EMS Responder (air)
- 5080 Other EMS Responder (ground)
- 5085 Police/Jail

Data Collector
EMS personnel

Content
No historical content for this element

Discussion
There are no discussion points related to this element.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element.
**EMERGENCY DEPARTMENT DISPOSITION**

*Level III (Providers utilizing a totally electronic system)*

**Data**  [combo] single-choice

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

**Technical Information**

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

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

**Data Collector**
EMS provider agency: Could be collected by EMS Administration or electronically provided through linkage with hospital databases

**Content**
No historical content for this element

**Discussion**
Capture of this data element will be achieved through probabilistic matching by the EMS Authority.

**CEMSIS to NEMSIS Comparison**
This element has been determined to be equivalent to the NHTSA v2.2.1 element
HOSPITAL DISPOSITION

Level III (Providers utilizing a totally electronic system)

Data [combo] single-choice

Definition
Indication of the patient’s disposition from the hospital, if admitted.

Technical Information

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

Field Values
- -25 Not Applicable
- -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

Data Collector
EMS provider agency: Could be collected by EMS Administration or electronically provided through linkage with hospital databases

Content
No historical content for this element

Discussion
There are no discussion points related to this element.

CEMSIS to NEMSIS Comparison
This element has been determined to be equivalent to the NHTSA v2.2.1 element.