# CEMSIS Data Elements
# Air Transport Use Modifications

# TYPE OF DISPATCH DELAY E02_06

**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

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

## Field Values
**-25** Not Applicable
**-20** Not Recorded
**-15** Not Reporting
**-10** Not Known
**-5** Not Available
- Caller (Uncooperative)
- High Call Volume
- Language Barrier
- Location (Inability to Obtain)
- No Units Available
- Scene Safety (Not Secure for EMS)
- Technical Failure (Computer, Phone etc.)

**Add Air Transport Specific Field Values**

- None
- 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No historical content for this element.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 E02_07

**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

| | | | |
|---|---|---|---|
| **XSD Data Type** | *xs:integer* | **XSD Domain (Simple Type)** | *TypeOfResponseDelay* |
| **Multiple Entry Configuration** | Yes | **Accepts Null** | Yes |
| **Required in XSD** | Yes | | |

## Field Values

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

- Crowd
- Directions
- Diversion
- Distance
- HazMat
- Safety
- Staff Delay
- Traffic
- Vehicle Crash
- Vehicle Failure
- Weather

**Add Air Transport Specific Field Values**

- **Declined due to weather restrictions**

- None
- Other

## 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No historical content for this element.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 E02_08

**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

| | | | |
|---|---|---|---|
| **XSD Data Type** | *xs:integer* | **XSD Domain (Simple Type)** | *TypeOfSceneDelay* |
| **Multiple Entry Configuration** | Yes | **Accepts Null** | Yes |
| **Required in XSD** | Yes | | |

## Field Values

**-25** Not Applicable
**-20** Not Recorded
**-15** Not Reporting
**-10** Not Known
**-5** Not Available
- Crowd
- Directions
- Distance
- Diversion
- Extrication >20 min.
- HazMat
- Language Barrier
- Safety
- Staff Delay
- Traffic
- Vehicle Crash
- Vehicle Failure
- Weather

### Add Air Transport Specific Field Values

- None
- Other

## 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 E02_09

**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

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

## Field Values

**-25** Not Applicable
**-20** Not Recorded
**-15** Not Reporting
**-10** Not Known
**-5** Not Available
- Crowd
- Directions
- Distance
- Diversion
- HazMat
- Safety
- Staff Delay
- Traffic
- Vehicle Crash
- Vehicle Failure
- Weather

**Add Air Transport Specific Field Values**

- None
- Other

## 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

# UNIT BACK IN SERVICE DATE/TIME E05_11

**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

| | | | |
|---|---|---|---|
| **XSD Data Type** | *xs:dateTime* | **XSD Domain (Simple Type)** | *DateTime* |
| **Multiple Entry Configuration** | No | **Accepts Null** | No |
| **Required in XSD** | Yes | **Minimum Constraint** | **1,990** |
| **Maximum Constraint** | **2,030** | | |

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

## 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 E05_13

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

## 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

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

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

## 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

# INCIDENT FACILITY CODE E08_08

**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

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

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

## Additional Information
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
**Note: Collection of this data element is not applicable for Air Transport unless the local EMS Agency requests "interfacility" transport information as part of their EMS data collection system.**

## 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

# PRIOR AID E09_01

**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

| | | | |
|---|---|---|---|
| **XSD Data Type** *xs:string* | **XSD Domain (Simple Type)** *PriorAid* | | |
| **Multiple Entry Configuration** Yes | **Accepts Null** Yes | | |
| **Required in XSD** Yes | **Minimum Constraint** **2** | **Maximum Constraint** | **30** |

## Field Values

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

- **First Responder on Scene**
- Bleeding Control
- Blood Sampling
- Obstetrical delivery
- Pacing
- Wound care
- NG\OG tube
- Precordial thump
- Rapid Sequence Induction
- Restraints
- 12 lead
- CPR
- Defibrillation (auto)
- Synchronized cardioversion
- Defibrillation (manual)
- Defibrillation (semi-automatic)
- EKG monitor
- Pre-existing devices
- Removal of foreign body
- Vagal maneuvers
- Oxygen by mask
- Oxygen by cannula
- Bag/Valve/Mask
- Oropharyngeal airway
- Nasopharyngeal airway
- Esophageal airway
- Esophageal/tracheal airway
- Endotracheal intubation

- Intubation, other (stoma, nasal)
- Needle cricothyrotomy
- Needle thoracostomy
- Monitor thoracostomy tube(s)
- Assisted ventilation (positive pressure)
- Suction tube(s)
- Pulse Oximetry
- End Tidal CO2
- Saline lock
- Intravenous catheter
- Intraosseous catheter
- Monitor pre-existing vascular access
- Monitor and adjust IV solutions containing potassium
- Monitor and adjust IV solutions containing heparin
- Monitor and adjust IV solutions containing nitroglycerine
- Splint of extremity (non-traction)
- Traction splint
- Spinal precautions
- Normal Saline
- 25% Dextrose
- 50% Dextrose
- Oral Glucose/Sugar Solutions
- Activated Charcoal
- Adenosine
- Aerosolized or nebulized beta-2 specific bronchodilator
- Amiodarone
- Aspirin
- Atropine Sulfate
- Beta Agonist (any drug)
- Blood & Blood Products
- Calcium Chloride
- Diazepam (Valium®)
- Diazepam (rectal Valium®)
- Diphenhydramine Hydrochloride (Benadryl®)
- Dopamine Hydrochloride
- Epinephrine
- Furosemide (Lasix®)
- Glucagon
- Heparin (intravenous)
- Ipratropium Bromide (Atrovent®)
- Lidocaine Hydrochloride
- Lorazepam
- Mannitol
- Midazolam
- Magnesium Sulfate
- Morphine Sulfate
- Naloxone Hydrochloride
- Nitroglycerin Preparations (except IV)

- Nitroglycerin (intravenous)
- Nitrous Oxide
- Oxygen
- Oxytocin (Pitocin®)
- Procainamide
- Potassium Chloride
- Pralixome Chloride 2 (2 PAM)
- Rocuronium Bromide (Zemuron®)
- Sodium Bicarbonate
- Sodium Thiosulfate
- Succinylcholine Chloride (Anectine)
- Syrup of Ipecac
- Tissue Plasminogen Activator
- Verapamil

## 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

**If the EMS unit completing the Patient Care Record is the first responder on scene, the element will be marked as "first responder on scene"**

## 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 E09_02

**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

| | |
|---|---|
| **XSD Data Type** *xs:integer* | **XSD Domain (Simple Type)** *PriorAidPerformedBy* |
| **Multiple Entry Configuration** Yes | **Accepts Null** Yes |
| **Required in XSD** Yes | |

## Field Values
**-25** Not Applicable
**-20** Not Recorded
**-15** Not Reporting
**-10** Not Known
**-5** Not Available
- EMS Provider
- Law Enforcement
- Lay Person
- Other Healthcare Provider
- 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 E09_03

**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

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

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

# REASON FOR CHOOSING DESTINATION E20_16

**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

| | | | |
|---|---|---|---|
| **XSD Data Type** | *xs:integer* | **XSD Domain (Simple Type)** | *Reason For Choosing Destination* |
| **Multiple Entry** | 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

- Closest Facility
- Diversion
- Family Choice
- Insurance Status
- Law Enforcement Choice
- On-Line Medical Direction
- Other
- Patient Choice
- Patient's Physician's Choice
- Protocol
- Specialty Resource Center

## Considering adding:

- **Trauma Center**
- **Pediatric Trauma Center**
- **Pediatric Critical Care Center**
- **Burn Center**
- **STEMI Center**
- **Stroke Center**
- **Perinatal Care**

## 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

# NEMSIS Data Elements
# Air Transport Use Modifications

# CREW MEMBER ID E04_01

**Use may be determined by LEMSA**

**Data** [text]

## Definition

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

**XSD Data Type** *xs:string* **XSD Domain (Simple Type)** *CrewMemberID*
**Multiple Entry Configuration** Yes, via structure **Accepts Null Values** *Yes*
**Required in XSD** No **Minimum Constraint** **2** **Maximum Constraint** **15**
XSD Structure: E04_01, E04_02, E04_03 are all members of the E04 Unit Personnel Information structure

## Field Values

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

## Additional Information

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

## Uses

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

## Data Collector

- EMS personnel

## Other Associated Elements

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

# FIRST NAME E06_02

**Use may be determined by LEMSA; need to keep patient identifiers to a minimum**

**Data** [text]

## Definition

The patient's first (given) name

**XSD Data Type** *xs:string* **XSD Domain (Simple Type)** *FirstName*
**Multiple Entry Configuration** No **Accepts Null Values** *Yes*
**Required in XSD** No **Minimum Constraint** **1** **Maximum Constraint** **20**
XSD Structure: E06_01, E06_02, and E06_03 are all members of the E06_01_0 Patient Name Structure

## Field Values

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

## Additional Information

- Local Policy should dictate how Last Name and First Name should be created if Unknown

## Uses

- Allows a patient's information to be stored and retrieved by Name
- Key component of an EMS Medical Record
- Provides contact information for multiple purposes including follow-up, billing, bioterrorism syndromic surveillance, etc

## Data Collector

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

## Other Associated Elements

**E00** Common Null Values
**E01_01** Patient Care Report Number
**E06_01** Last Name
**E06_03** Middle Initial/Name

# INCIDENT ADDRESS E08_11

**Data** [text]

## Definition

The street address (or best approximation) where the patient was found, or, if no patient, the address to which the unit responded.

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

## Field Values

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

## Uses

- A component of the EMS Medical Record: Patient Care Report
- Important for grouping or comparing data by Scene location which also allows data to be sorted by geographic
  response areas in many agencies
- Provides information on overall response patterns and times for agency configuration and evaluation
- **For purposes of Air Transport data, this location would be where the air unit landed (helispot/helipad)**

## Data Collector

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

## Other Associated Elements

**E00** Common Null Values
**E01_01** Patient Care Report Number
**E08_07** Incident Location Type
**E08_12** Incident City
**E08_14** Incident State
**E08_15** Incident ZIP Code

# DATE/TIME VITAL SIGNS TAKEN E14_01

**Data** [date/time]

## Definition

Date/Time Vital Signs Taken

## Plan: Bring to EMS Data Committee for possible inclusion to next CEMSIS version

**XSD Data Type** *xs:dateTime* **XSD Domain (Simple Type)** *DateTime*
**Multiple Entry Configuration** Yes, via structure **Accepts Null Values** Yes, but null value is blank or empty
**Required in XSD** No **Minimum Constraint** **1,990** **Maximum Constraint** **2,030**
XSD Structure: Each element is section E14 is associated with a E14_01 Date/Time

## Field Values

## Additional Information

- If the date/time is electronically stored within a database or transmitted via XML as a “tick”, the referenced variables may also be used
- Multiple Entry Configuration to allow multiple sets of Vital Signs

## Uses

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

## Data Collector

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

## Other Associated Elements

**E01_01** Patient Care Report Number

# DATE/TIME MEDICATION ADMINISTERED E18_01

**Data** [date/time]

**Plan: Bring to EMS Data Committee for possible inclusion to next CEMSIS version**

## Definition

The date/time medication administered to the patient

**XSD Data Type** *xs:dateTime* **XSD Domain (Simple Type)** *DateTime*
**Multiple Entry Configuration** Yes, via structure **Accepts Null Values** Yes, but null value is blank or empty
**Required in XSD** No **Minimum Constraint** **1,990** **Maximum Constraint** **2,030**
XSD Structure: All data elements section E18 are members of the E18 Medication Structure

## Field Values

## Additional Information

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

## Uses

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

## Data Collector

- EMS personnel

## Other Associated Elements

**E01_01** Patient Care Report Number
**E18_02** Medication Administered Prior to this Units EMS Care
**E18_03** Medication Given
**E18_04** Medication Administered Route
**E18_05** Medication Dosage
**E18_06** Medication Dosage Units
**E18_07** Response to Medication
**E18_08** Medication Complication
**E18_09** Medication Crew Member ID
**E18_10** Medication Authorization
**E18_11** Medication Authorizing Physician

# DATE/TIME PROCEDURE PERFORMED SUCCESSFULLY E19_01

**Data** [date/time]

**Plan: Bring to EMS Data Committee for possible inclusion to next CEMSIS version**

## Definition

The date and time the procedure was performed on the patient

**XSD Data Type** *xs:dateTime* **XSD Domain (Simple Type)** *DateTime*
**Multiple Entry Configuration** Yes, via structure **Accepts Null Values** Yes, but null value is blank or empty
**Required in XSD** No **Minimum Constraint** **1,990** **Maximum Constraint** **2,030**
XSD Structure: Data Elements E19_01 through E19_11 are all members of E19_01_0 Procedure Structure

## Field Values

## Additional Information

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

## Uses

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

## Data Collector

- EMS personnel

## Other Associated Elements

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

# TUBE CONFIRMATION E19_13

**Data** [combo] multiple-choice

**Plan: Bring to EMS Data Committee for possible inclusion to next CEMSIS version**

## Definition

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

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

## Field Values

**-25** Not Applicable
**-20** Not Recorded
**-15** Not Reporting
**-10** Not Known
**-5** Not Available
**4735** Auscultation of Bilateral Breath Sounds
**4740** Colormetric CO2 Detector Confirmation
**4745** Digital CO2 Confirmation
**4750** Esophageal Bulb Aspiration confirmation
**4755** Negative Auscultation of the Epigastrium
**4760** Visualization of the Chest Rising with ventilation
**4765** Visualization of Tube Passing Through the Cords
**4770** Waveform CO2 Confirmation

## Additional Information

- Associated with Procedure (E19_03) if Airway Procedure leads to Intubation

## Uses

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

## Data Collector

- EMS personnel

## Other Associated Elements

**E00** Common Null Values
**E01_01** Patient Care Report Number
**E19_03** Procedure

# DESTINATION CONFIRMATION OF TUBE PLACEMENT E19_14

**Data** [combo] multiple-choice

**Plan: Bring to EMS Data Committee for possible inclusion to next CEMSIS version**

## Definition

Endotracheal Tube location verification on the arrival at the Destination (if applicable)

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

## Field Values

**-25** Not Applicable
**-20** Not Recorded
**-15** Not Reporting
**-10** Not Known
**-5** Not Available
**4775** Auscultation of Bilateral Breath Sounds
**4780** Colormetric CO2 Detector Confirmation
**4785** Digital CO2 Confirmation
**4790** Esophageal Bulb Aspiration confirmation
**4795** Negative Auscultation of the Epigastrium
**4800** Visualization of the Chest Rising with ventilation
**4805** Visualization of Tube Passing Through the Cords
**4810** Waveform CO2 Confirmation

## Additional Information

- Associated with Procedure (E19_03) if Airway Procedure leads to Intubation

## Uses

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

## Data Collector

- EMS personnel

## Other Associated Elements

**E00** Common Null Values
**E01_01** Patient Care Report Number
**E19_03** Procedure

# Additional Data Elements
# Air Transport Use
# (Not found in NEMSIS or CEMSIS)

# Time Ready for Departure

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

## Data Format *[date/time]*

## Definition

The date/time the EMS provider unit is ready to depart from the scene towards its destination.

## Technical Information

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

## Field Values

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

## Data Collector

Dispatch Center and electronically or verbally transmitted to the EMS provider agency

## Content

The hour, minute, and second that the EMS provider unit is ready to depart from the scene towards its destination. 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 the 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

No match

# *Time of Transfer of Care at Destination Facility*

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

## Data Format *[date/time]*

## Definition

The date/time the EMS provider unit transfers care to a health professional at the destination facility.

## Technical Information

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

## Field Values

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

## Data Collector

Dispatch Center and electronically or verbally transmitted to the EMS provider agency

## Content

The hour, minute, and second that the EMS provider unit transfers care to a health professional at the destination facility. 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 the 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

No match

# Indication for Advanced Airway

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

## Data Format

## Definition

## Technical Information

| | |
|---|---|
| **XSD Data Type** | **XSD Domain (Simple Type)** |
| **Multiple Entry Configuration** | **Accepts Null** |
| **Required in XSD** | |

## Field Values

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

- Actual or potential airway compromise
- Actual or potential ventilatory compromise
- Clinical course in which early airway intervention indicated

**Check NAEMSP standards…**

## Data Collector

## Content

## Discussion

**Need to define “advanced airway”**

## CEMSIS to NEMSIS Comparison

No match

# 12 Lead EKG Result

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

## Data Format

## Definition

## Technical Information

| | |
|---|---|
| **XSD Data Type** | **XSD Domain (Simple Type)** |
| **Multiple Entry Configuration** | **Accepts Null** |
| **Required in XSD** | |

## Field Values

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

- None
- Other

## Data Collector

## Content

## Discussion

## CEMSIS to NEMSIS Comparison

No match

# Type of Specialty Resource – Receiving Facility

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

## Data Format

## Definition

## Technical Information

| | |
|---|---|
| **XSD Data Type** | **XSD Domain (Simple Type)** |
| **Multiple Entry Configuration** | **Accepts Null** |
| **Required in XSD** | |

## Field Values

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

- None
- Other

## Data Collector

## Content

## Discussion

## CEMSIS to NEMSIS Comparison

No match

# Reason for Air Transport Utilization

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

## Data Format

## Definition

## Technical Information

| | |
|---|---|
| **XSD Data Type** | **XSD Domain (Simple Type)** |
| **Multiple Entry Configuration** | **Accepts Null** |
| **Required in XSD** | |

## Field Values

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

- Logistical – Accessibility
- Logistical – Time/Distance
- Clinical – Critical Trauma Findings
- Clinical – Trauma Mechanism/General Considerations
- Clinical – Other (e.g. Cardiac/Stroke/Burn)
- Local Policy
- Interfacility Request
- Other

## Data Collector

## Content

## Discussion

## CEMSIS to NEMSIS Comparison

No match

# Time at Care Unit

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

## Data Format

## Definition

## Technical Information

| | |
|---|---|
| **XSD Data Type** | **XSD Domain (Simple Type)** |
| **Multiple Entry Configuration** | **Accepts Null** |
| **Required in XSD** | |

## Field Values

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

- None
- Other

## Data Collector

## Content

## Discussion

## CEMSIS to NEMSIS Comparison

## Title

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

## Data Format

## Definition

## Technical Information

| | |
|---|---|
| **XSD Data Type** | **XSD Domain (Simple Type)** |
| **Multiple Entry Configuration** | **Accepts Null** |
| **Required in XSD** | |

## Field Values

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

- None
- Other

## Data Collector

## Content

## Discussion

## CEMSIS to NEMSIS Comparison