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# **NEMSIS**

## **Data Dictionary**

# **NHTSA Version 3.2.3**

## **Build 120418**

# **Medical Device Data Standard**

**Version Date: April 18, 2012**

Funded by  
**National Highway Traffic Safety Administration (NHTSA)**  
**Office of Emergency Medical Services**



# NEMSIS Data Dictionary Version 3.2.3

## NEMSIS Overview and Summary

This data dictionary represents 24 months of effort collaborating with the EMS industry through web-based reviews, public comment periods, focus groups, industry dialogue, topic focused projects, and consensus. The National EMS Information System Version 3 represents a revision from the existing version 2.1.1 released in 2005. Adopting a broad perspective, the initiative to move to a 3rd version of the NEMSIS data dictionary was fueled by the need to improve data quality, enhance our ability to assess EMS performance, augment the flexibility of the standard for state adoption and, prepare for our initial movement of this standard into Health Level 7 (HL7) for approval as an American National Standards Institute (ANSI) standard. At the time of this initial publication, NEMSIS Version 3 has passed several ballots within HL7 in an effort to be recognized as a federal and international healthcare information standard. Final HL7 adoption of NEMSIS Version 3 is expected in 2012. HL7 will be the permanent home for the NEMSIS standard once fully adopted and future revisions will occur through the HL7 process.

### NEMSIS Version 3.2.3 Data Dictionary Content

**\*\*Note:** The numbers to the right of the content listed below represent the location for each element on the Sample Page of the Data Dictionary (page vi).

#### Data Element Number (#1)

- The NEMSIS Version 3 element numbering system has been revised to improve the information that can be derived from just the data element number. An example of a data element number is dAgency.01.
  - The data element number begins with either a "d" representing the demographic (agency) section or an "e" representing the EMS PCR section.
  - A one word descriptor for each section is now included in the data element number.
  - A period separates the section (e.g. dAgency) from the data element number (e.g. 01).

#### Data Element Name (#3)

- The name for the data element.

#### National and State Element Indicator (#2, #5, #6)

- National = Yes, is an indication that the data element is required to be collected:
  - at the local EMS agency level and submitted to the state
- State = Yes, is an indication that the data element is recommended to be collected at the "State" level.

#### Data Element Definition (#4)

- The definition for the data element.

#### Version 2 Number (#7)

- The NEMSIS Version 2.2.1 Data Element Number.
- If the Data Element is new to Version 3.2.3, the Version 2 Number will be blank.

#### Data Structure Information

- Recurrence (#12)
  - Indication that the data element can have more than one value.
  - Represented by two characters separated by a colon. The configuration

includes:

- 0:1 = element is not required and can occur only once
  - 0:M = element is not required and can repeat multiple times
  - 1:1 = element is required and can occur only once
  - 1:M = element is required and can repeat multiple times
- Usage (#8)
    - Indication of when the data element is expected to be collected.
      - Mandatory = Must be completed and does not allow for NOT values
      - Required = Must be completed and allows NOT values
      - Recommended = Does not need to be completed and allows NOT values
      - Optional = Does not need to be completed and does not allow for NOT values
  - NOT Value Characteristics (#10)
    - Indication that the data element can have NOT values.
    - NOT Values are used (where permitted) to document that a data element was not applicable to the EMS response / request for service, was not or could not be completed.
    - NOT Values are documented as "an attribute" of an element. It allows the documentation of NOT value when a "real" value is not documented. (*Please reference the NEMSIS White Paper describing the use of NOT Values, Pertinent Negatives, and Null.*)
  - NOT Values Accepted (#14)
    - Indication of which of the following three NOT values is acceptable.
    - Not all data elements accept NOT values.
    - NOT Values have been condensed in Version 3.
      - Not Applicable = *The data element is not applicable or pertinent to the EMS event.*
      - Not Recorded = *If a data element was unintentionally left blank the EMS software should auto-populate it with "Not Recorded".*
      - Not Reporting = *The data element is not collected by the EMS agency or state. This NOT value does not apply to National elements where "Usage = Required".*
  - Pertinent Negative Values (PN) (#9, #14)
    - A list of Pertinent Negative Values which can be associated with a data element.
    - Not all data elements accept Pertinent Negative Values.
    - Pertinent Negative Values are documented as "an attribute" of an element. It allows the documentation of pertinent negative value in addition to the documentation of a "real" value. (*Please reference the NEMSIS White Paper describing the use of NOT Values, Pertinent Negatives, and Null.*)
    - Example of use:
      - Example #1 - Aspirin Administration:
        - If the medication Aspirin is part of the agency protocol for Chest Pain but was not administered by the responding crew, the reason why should be documented. This is done through the use of Pertinent Negative Values. If the patient took the Aspirin prior to the EMS arrival on scene, the value "Medication Already Taken" should be documented in addition to "Aspirin".
      - Example #2 - Gunshot Wound Entry & Exit Assessment
        - If the patient was injured by a gunshot the assessment should document not only the entry but the exit of the bullet. In the abdominal assessment if "Gunshot Wound-Entry" was documented in the Right Upper Quadrant the EMS professional should be looking for an exit

wound. If upon assessment of the back/spine no "Gunshot Wound-Exit" was identified then both "Gunshot Wound-Exit" and the pertinent negative value of "Exam Finding Not Present" should be documented.

- **Is Nillable (#11)**

- Indication that the element can accept a "blank" value.
- If the element is left "blank" the software must submit an appropriate value of one of the two attributes: Pertinent Negative or NOT Values.

### **Associated Performance Measure Initiatives (#13)**

- Indication that the data element has value in describing, defining, or measuring EMS from a performance perspective. Performance Measures can be associated with EMS service delivery, patient care, or both. The following service delivery or time dependent illness/injury performance measure topics have been included in NEMSIS Version 3:
  - Airway - Airway Management
  - Cardiac Arrest - Out of Hospital Cardiac Arrest
  - Pediatric - Acute Pediatric Care
  - Response - EMS Response Time
  - STEMI - ST Elevation Myocardial Infarction (STEMI)
  - Stroke - Acute Stroke Care
  - Trauma - Acute Injury/Trauma Care

### **Attributes (#14)**

- An attribute provides extra information within an element. For information related to the first three attributes please see the NEMSIS document 'How to Utilize NEMSIS V3 "NOT values/pertinent negatives/nillable"'. The following are possible attributes:
  - PN (Pertinent Negative)
    - 8801001 - Contraindication Noted
    - 8801003 - Denied By Order
    - 8801005 - Exam Finding Not Present
    - 8801007 - Medication Allergy
    - 8801009 - Medication Already Taken
    - 8801013 - No Known Drug Allergies
    - 8801015 - None Reported
    - 8801017 - Not Performed by EMS
    - 8801019 - Refused
    - 8801021 - Unresponsive
    - 8801023 - Unable to Complete
  - NV (Not Value)
    - 7701001 - Not Applicable
    - 7701003 - Not Recorded
    - 7701005 - Not Reporting
  - Nillable xsi:nil="true"
  - Code Type
    - 9924001 - ICD10
    - 9924003 - RxNorm
  - CorrelationID

- Date Type = String
- minLength = 0
- maxLength = 255
- DistanceUnit
  - 9921001 - Kilometers
  - 9921003 - Miles
- EmailAddressType
  - 9904001 - Personal
  - 9904003 - Work
- nemsisCode
  - Date Type = String
- nemsisElement
  - Date Type = String
- nemsisValueDescription
  - Date Type = String
- PhoneNumberType
  - 9913001 - Fax
  - 9913003 - Home
  - 9913005 - Mobile
  - 9913007 - Pager
  - 9913009 - Work
- ProcedureGroupCorrelationID
  - Date Type = CorrelationID
- StreetAddress2
  - Date Type = String
  - minLength = 1
  - maxLength = 55
- TIMESTAMP
  - Date Type = DateTime
  - minValue = 1950-01-01T00:00:00-00:00
  - maxValue = 2050-01-01T00:00:00-00:00
- VelocityUnit
  - 9921001 - Kilometers
  - 9921003 - Miles

### Code List (#16)

- A list of values associated with the data element. Not all data elements have predefined value sets.
- Codes for each value:
  - The codes are based on a 7-digit number, in a 2-2-3 pattern (without dashes).
    - The first set of two numbers represent the data section
    - The second set of two numbers represent the element number

- The last set is a 3-digit number for each value beginning at 001; The codes increase in increments of two (2).
- Codes are typically sequential (by two) and alphabetical. Some ordering is provided in an effort to present information based on workflow.
- Several values and codes reference external standards such as ICD-10, RxNorm, SNOMED, etc. NEMSIS will assist in providing a recommended list of EMS specific values and codes from these larger standards for most elements using these external standards.

#### **Data Element Editorial Comments (#17)**

- Comments are provided to describe additions, changes, clarifications, or provide additional insight into the data element.

#### **Version 3 Changes Implemented (#18)**

- Comments providing insight into specific Version 3 changes such as new or revised data elements.

### **NEMSIS Version 3.2.3 Change Summary**

**NEMSIS Version 3 includes several new types of information to better describe EMS from an industry, workforce, EMS service delivery, and patient care perspective. Examples of new Version 3 content include:**

#### **Demographic (Agency) Content**

- EMS Agencies can list more than one state in which they offer EMS service delivery.
- EMS Agencies can indicate multiple Agency numbers.
- Multiple EMS Agency contacts can now be managed within the Demographic Section.
- EMS Agency Location and GIS information has been enhanced.
- EMS Professional and Workforce information has been enhanced.

#### **EMS (PCR) Content**

- EMS Crew level information has been enhanced
- Scene location information has been enhanced to improve geo-coding and location analysis.
- Provider Impression (diagnosis), Symptoms, Cause of Injury, Medical/Surgical History, and Incident Location are now based on ICD-10.
- Procedures are now based on SNOMED.
- Medications are now stored using the RxNorm standard
- Cardiac Arrest information has been enhanced to add focus on CPR and post arrest cooling.
- Automated Collision Notification information has been included.
- The data elements required to document and evaluate the CDC Field Triage Algorithm for trauma have been included.
- Vital Sign and patient monitoring information have been enhanced
- A new section for Laboratory and Diagnostic Imaging results has been added.
- The Exam section has been reconfigured to improve documentation and ease of use.
- Much of the medical device information has been mapped into the vital sign section for direct import via the XML standard.
- Inclusion of electronic signatures and external electronic documents.
- An Airway section has been added to better document and evaluate airway management.
- Improved Work Related Illness and Injury documentation capability.

- Disposition information has been enhanced especially associated with Specialty Centers and time dependent illness/injury Systems of Care.
- EMS Response and Transport Modes have been enhanced to better define emergent, non-emergent, scheduled, and non-scheduled variation.
- EMS Response and Transport Mode Descriptors have been added to allow for documentation of Lights and Sirens Use and Intersection Navigation tools.
- The Payment/Billing section has been greatly expanded to meet current electronic billing requirements.
- Outcome information has been expanded to include additional Emergency Department and Hospital Outcome information (often obtained through linkage).

### **General Improvements**

- Version 3 content has focused on objective performance measures to better describe and evaluate EMS service delivery and patient care.
- State level configuration and customized data elements have been enhanced without changing the NEMSIS Version 3 Standard.



## 3 eMedications.01 - Date/Time Medication Administered

## 4 Definition

The date/time medication administered to the patient

|                     |          |                          |       |    |
|---------------------|----------|--------------------------|-------|----|
| 5 National Element  | Yes      | Pertinent Negatives (PN) | Yes   | 9  |
| 6 State Element     | Yes      | NOT Values               | Yes   | 10 |
| 7 Version 2 Element | E18_01   | Is Nillable              | Yes   | 11 |
| 8 Usage             | Required | Recurrence               | 1 : M | 12 |

## 13 Associated Performance Measure Initiatives

Airway    Cardiac Arrest    Pediatric    STEMI    Stroke    Trauma

## 14 Attributes

**NOT Values**

7701001 - Not Applicable    7701003 - Not Recorded    7701005 - Not Reporting

**Pertinent Negatives**

8801001 - Contraindication Noted    8801003 - Denied By Order    8801007 - Medication Allergy  
8801009 - Medication Already Taken    8801019 - Refused    8801023 - Unable to Complete

**Email Address**

9904001 - Personal    9904003 - Work

**Phone Number**

9913001 - Fax    9913003 - Home    9913005 - Mobile    9913007 - Pager    9913009 - Work

**Current Status**

A - Active    I - Inactive

**Current Status Date**

**Data Type:** DateTime    **minInclusive:** 1950-01-01T00:00:00    **maxInclusive:** 2050-01-01T00:00:00

**Pattern:** [0-9]{4}-[0-9]{2}-[0-9]{2}T[0-9]{2}:[0-9]{2}:[0-9]{2}(\.\d+)?(\+|-)[0-9]{2}:[0-9]{2}

**Correlation ID**

**Data Type:** String    **minLength:** 0    **maxLength:** 255

## 15 Constraints

| Data Type | minValue            | maxValue            |
|-----------|---------------------|---------------------|
| dateTime  | 1950-01-01T00:00:00 | 2050-01-01T00:00:00 |

**Pattern**

[0-9]{4}-[0-9]{2}-[0-9]{2}T[0-9]{2}:[0-9]{2}:[0-9]{2}(\.\d+)?(\+|-)[0-9]{2}:[0-9]{2}

## 16 Code List

**Code    Description**

SSEE001 Value A

SSEE003 Value B

SSEE005 Value C

## 17 Data Element Comment

Comments for this element

## 18 Version 3 Changes Implemented

Version 3 Changes implemented for this element

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# MedDeviceDataSet

|        |                |   |         |
|--------|----------------|---|---------|
| Legend | Dataset Level: | N National  | S State |
|        | Usage:         | M = Mandatory , R = Required , E = Recommended, or O = Optional                   |         |
|        | Attributes:    | N = Not Values, P = Pertinent Negatives , L = Nillable, and/or C = Correlation ID |         |

| MedDeviceDataSet |                      |
|------------------|----------------------|
| 0 : 1            | eCustomConfiguration |
| 1 : 1            | eMedDevice           |
| 0 : 1            | eCustomResults       |
| MedDeviceDataSet |                      |

# eCustomConfiguration

## Legend

Dataset Level: N National S State

Usage:   M = Mandatory , R = Required , E = Recommended, or O = Optional

Attributes:   N = Not Values, P = Pertinent Negatives , L = Nillable, and/or C = Correlation ID

## eCustomConfiguration

|       |  |   |
|-------|--|---|
| 0 : M | eCustomConfiguration.CustomGroup                               |   |
| 1 : 1 | eCustomConfiguration.01 - Custom Data Element Title            | M |
| 1 : 1 | eCustomConfiguration.02 - Custom Definition                    | M |
| 1 : 1 | eCustomConfiguration.03 - Custom Data Type                     | M |
| 1 : 1 | eCustomConfiguration.04 - Custom Data Element Recurrence       | M |
| 1 : 1 | eCustomConfiguration.05 - Custom Data Element Usage            | M |
| 0 : M | eCustomConfiguration.06 - Custom Data Element Potential Values | O |

## eCustomConfiguration

**eCustomConfiguration.01 - Custom Data Element Title****Definition**

This is the title of the custom data element created to collect information that is not defined formally in NEMSIS Version 3.

|                   |           |                          |       |
|-------------------|-----------|--------------------------|-------|
| National Element  | No        | Pertinent Negatives (PN) | No    |
| State Element     | No        | NOT Values               | No    |
| Version 2 Element |           | Is Nillable              | No    |
| Usage             | Mandatory | Recurrence               | 1 : 1 |

**Attributes****nemsisElement**

**Data Type:** anySimpleType **whiteSpace:** preserve

**Constraints**

| Data Type | minLength | maxLength |
|-----------|-----------|-----------|
| string    | 2         | 100       |

**Data Element Comment**

This is grouped with all data elements in this section and can have multiple instances.

**Version 3 Changes Implemented**

Added to allow customized data elements to be inserted and collected from within the NEMSIS Version 3 standard.



## eCustomConfiguration.02 - Custom Definition

## Definition

The definition of the custom element and how it should be used.

|                   |           |                          |       |
|-------------------|-----------|--------------------------|-------|
| National Element  | No        | Pertinent Negatives (PN) | No    |
| State Element     | No        | NOT Values               | No    |
| Version 2 Element |           | Is Nillable              | No    |
| Usage             | Mandatory | Recurrence               | 1 : 1 |

## Constraints

|                  |                  |                  |
|------------------|------------------|------------------|
| <b>Data Type</b> | <b>minLength</b> | <b>maxLength</b> |
| string           | 0                | 255              |

## Data Element Comment

## eCustomConfiguration.03 - Custom Data Type

## Definition

The data type of the custom element.

|                   |           |                          |       |
|-------------------|-----------|--------------------------|-------|
| National Element  | No        | Pertinent Negatives (PN) | No    |
| State Element     | No        | NOT Values               | No    |
| Version 2 Element |           | Is Nillable              | No    |
| Usage             | Mandatory | Recurrence               | 1 : 1 |

## Code List

| Code    | Description        |
|---------|--------------------|
| 9902001 | Binary             |
| 9902003 | Date/Time          |
| 9902005 | Integer/Number     |
| 9902007 | Other (Not Listed) |
| 9902009 | Text/String        |

## Data Element Comment

## eCustomConfiguration.04 - Custom Data Element Recurrence

## Definition

Indication if the data element will accept multiple values.

|                   |           |                          |       |
|-------------------|-----------|--------------------------|-------|
| National Element  | No        | Pertinent Negatives (PN) | No    |
| State Element     | No        | NOT Values               | No    |
| Version 2 Element |           | Is Nillable              | No    |
| Usage             | Mandatory | Recurrence               | 1 : 1 |

## Code List

**Code      Description**

9923001    No  
9923003    Yes

## Data Element Comment

## Version 3 Changes Implemented

Added to allow customized data elements to be inserted and collected from within the NEMSIS Version 3 standard.

## eCustomConfiguration.05 - Custom Data Element Usage

## Definition

The Usage (Mandatory, Required, Recommended or Optional) for the Custom Data Element.

|                   |           |                          |       |
|-------------------|-----------|--------------------------|-------|
| National Element  | No        | Pertinent Negatives (PN) | No    |
| State Element     | No        | NOT Values               | No    |
| Version 2 Element |           | Is Nillable              | No    |
| Usage             | Mandatory | Recurrence               | 1 : 1 |

## Code List

| Code    | Description |
|---------|-------------|
| 9903001 | Mandatory   |
| 9903003 | Required    |
| 9903005 | Recommended |
| 9903007 | Optional    |

## Data Element Comment

Mandatory = Must be completed and will not accept null values

Required = Must be completed but will accept null values

Recommended = Not required but if collected will accept null values

Optional = Not required but if collected, it cannot be a null value.

## Version 3 Changes Implemented

Added to allow customized data elements to be inserted and collected from within the NEMSIS Version 3 standard.

**eCustomConfiguration.06 - Custom Data Element Potential Values****Definition**

The values which are associated with the Custom Data Element. Values would be the choices provided to the user when they document the Custom Data Element

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element |          | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : M |

**Attributes****nemsisCode**

**Data Type:** anySimpleType **whiteSpace:** preserve

**customValueDescription**

**Data Type:** anySimpleType **whiteSpace:** preserve

**Constraints**

| <b>Data Type</b> | <b>minLength</b> | <b>maxLength</b> |
|------------------|------------------|------------------|
| string           | 1                | 100              |

**Data Element Comment****Version 3 Changes Implemented**

Added to allow customized data elements to be inserted and collected from within the NEMSIS Version 3 standard.

# eMedDevice

## Legend

Dataset Level: N National S State

Usage: M = Mandatory , R = Required , E = Recommended, or O = Optional

Attributes: N = Not Values, P = Pertinent Negatives , L = Nillable, and/or C = Correlation ID

## eMedDevice

|       |   |  |
|-------|---|--|
| 1 : 1 | eMedDevice.01 - (dAgency.01) EMS Agency Unique State ID                 | <span style="background-color: red; color: white;">N</span> <span style="background-color: yellow; color: black;">S</span> <span style="border: 1px solid black; padding: 0 2px;">M</span> |
| 0 : 1 | eMedDevice.02 - (dAgency.02) EMS Agency Number                          | <span style="border: 1px solid black; padding: 0 2px;">O</span>  |
| 0 : 1 | eMedDevice.03 - (dAgency.03) EMS Agency Name                            | <span style="border: 1px solid black; padding: 0 2px;">O</span>  |
| 0 : 1 | eMedDevice.04 - (dAgency.04) EMS Agency State                           | <span style="border: 1px solid black; padding: 0 2px;">O</span>  |
| 0 : 1 | eMedDevice.05 - (dDevice.01) Medical Device Serial Number               | <span style="border: 1px solid black; padding: 0 2px;">O</span>  |
| 0 : 1 | eMedDevice.06 - (dDevice.02) Medical Device Name or ID                  | <span style="border: 1px solid black; padding: 0 2px;">O</span>  |
| 0 : M | eMedDevice.07 - (dDevice.03) Medical Device Type                        | <span style="border: 1px solid black; padding: 0 2px;">O</span> <span style="background-color: yellow; color: black;">C</span>   |
| 0 : 1 | eMedDevice.08 - (dDevice.04) Medical Device Manufacturer                | <span style="border: 1px solid black; padding: 0 2px;">O</span>  |
| 0 : 1 | eMedDevice.09 - (dDevice.05) Medical Device Model Number                | <span style="border: 1px solid black; padding: 0 2px;">O</span>  |
| 1 : 1 | eMedDevice.10 - (eRecord.01) Patient Care Report Number                 | <span style="background-color: red; color: white;">N</span> <span style="background-color: yellow; color: black;">S</span> <span style="border: 1px solid black; padding: 0 2px;">M</span> |
| 0 : 1 | eMedDevice.PatientNameGroup   |  |
| 0 : 1 | eMedDevice.11 - (ePatient.02) Last Name                                 | <span style="border: 1px solid black; padding: 0 2px;">O</span>  |
| 0 : 1 | eMedDevice.12 - (ePatient.03) First Name                                | <span style="border: 1px solid black; padding: 0 2px;">O</span>  |
| 0 : 1 | eMedDevice.13 - (ePatient.04) Middle Initial/Name                       | <span style="border: 1px solid black; padding: 0 2px;">O</span>  |
| 0 : 1 | eMedDevice.14 - (ePatient.13) Gender                                    | <span style="border: 1px solid black; padding: 0 2px;">O</span>  |
| 0 : M | eMedDevice.15 - (ePatient.14) Race                                      | <span style="border: 1px solid black; padding: 0 2px;">O</span> <span style="background-color: yellow; color: black;">C</span>   |
| 0 : 1 | eMedDevice.PatientAgeGroup  |  |
| 0 : 1 | eMedDevice.16 - (ePatient.15) Age                                       | <span style="border: 1px solid black; padding: 0 2px;">O</span>  |
| 0 : 1 | eMedDevice.17 - (ePatient.16) Age Units                                 | <span style="border: 1px solid black; padding: 0 2px;">O</span>  |
| 0 : 1 | eMedDevice.18 - (ePatient.17) Date of Birth                             | <span style="border: 1px solid black; padding: 0 2px;">O</span>  |
| 0 : M | eMedDevice.VitalsGroup  | <span style="background-color: yellow; color: black;">C</span>   |
| 0 : 1 | eMedDevice.19 - (eVitals.01) Date/Time Vital Signs Taken                | <span style="border: 1px solid black; padding: 0 2px;">O</span>  |
| 0 : 1 | eMedDevice.CardiacRhythmGroup   |  |
| 0 : M | eMedDevice.20 - (eVitals.03) Cardiac Rhythm / Electrocardiography (ECG) | <span style="border: 1px solid black; padding: 0 2px;">O</span> <span style="background-color: yellow; color: black;">C</span>   |
| 0 : 1 | eMedDevice.21 - (eVitals.04) ECG Type                                   | <span style="border: 1px solid black; padding: 0 2px;">O</span>  |
| 0 : M | eMedDevice.22 - (eVitals.05) Method of ECG Interpretation               | <span style="border: 1px solid black; padding: 0 2px;">O</span> <span style="background-color: yellow; color: black;">C</span>   |
| 0 : 1 | eMedDevice.BloodPressureGroup   |  |
| 0 : 1 | eMedDevice.23 - (eVitals.06) SBP (Systolic Blood Pressure)              | <span style="border: 1px solid black; padding: 0 2px;">O</span>  |
| 0 : 1 | eMedDevice.24 - (eVitals.07) DBP (Diastolic Blood Pressure)             | <span style="border: 1px solid black; padding: 0 2px;">O</span>  |
| 0 : 1 | eMedDevice.25 - (eVitals.08) Method of Blood Pressure Measurement       | <span style="border: 1px solid black; padding: 0 2px;">O</span>  |
| 0 : 1 | eMedDevice.26 - (eVitals.09) Mean Arterial Pressure                     | <span style="border: 1px solid black; padding: 0 2px;">O</span>  |
| 0 : 1 | eMedDevice.HeartRateGroup   |  |

|       |  |     |
|-------|--|-----|
| 0 : 1 | eMedDevice.27 - (eVitals.10) Heart Rate  | O   |
|       | eMedDevice.28 - (eVitals.11) Method of Heart Rate Measurement                        | O   |
|       | eMedDevice.29 - (eVitals.12) Pulse Oximetry  | O   |
|       | eMedDevice.30 - (eVitals.14) Respiratory Rate  | O   |
|       | eMedDevice.31 - (eVitals.16) Carbon Dioxide (CO2)                                    | O   |
|       | eMedDevice.32 - (eVitals.17) Carbon Monoxide (CO)                                    | O   |
|       | eMedDevice.33 - (eVitals.18) Blood Glucose Level                                     | O   |
|       | eMedDevice.BodyTemperatureGroup  |     |
|       | eMedDevice.34 - (eVitals.24) Temperature   | O   |
|       | eMedDevice.35 - (eVitals.25) Temperature Method                                      | O   |
| 0 : M | eMedDevice.LabsGroup   | C   |
| 0 : 1 | eMedDevice.36 - (eLabs.01) Date/Time of Laboratory or Imaging Result                 | O   |
| 0 : M | eMedDevice.LabResultGroup  |     |
| 0 : 1 | eMedDevice.37 - (eLabs.03) Laboratory Result Type                                    | O   |
| 0 : 1 | eMedDevice.38 - (eLabs.04) Laboratory Result   | O   |
| 0 : M | eMedDevice.LabImageGroup   |     |
| 0 : 1 | eMedDevice.39 - (eLabs.05) Imaging Study Type  | O   |
| 0 : 1 | eMedDevice.40 - (eLabs.06) Imaging Study Results                                     | O   |
| 0 : M | eMedDevice.WaveFormGraphicGroup  |     |
| 0 : 1 | eMedDevice.41 - (eLabs.07) Imaging Study File or Waveform Graphic Type               | O   |
| 0 : 1 | eMedDevice.42 - (eLabs.08) Imaging Study File or Waveform Graphic                    | O   |
| 0 : M | eMedDevice.DeviceGroup   |     |
| 0 : 1 | eMedDevice.43 - (eDevice.01) Medical Device Serial Number                            | O   |
| 0 : 1 | eMedDevice.44 - (eDevice.02) Date/Time of Event (per Medical Device)                 | O   |
| 0 : M | eMedDevice.45 - (eDevice.03) Medical Device Event Type                               | O C |
| 0 : 1 | eMedDevice.WaveGroup   |     |
| 0 : 1 | eMedDevice.46 - (eDevice.04) Medical Device Waveform Graphic Type                    | O   |
| 0 : 1 | eMedDevice.47 - (eDevice.05) Medical Device Waveform Graphic                         | O   |
| 0 : 1 | eMedDevice.48 - (eDevice.06) Medical Device Mode (Manual, AED, Pacing, CO2, O2, etc) | O   |
| 0 : M | eMedDevice.49 - (eDevice.07) Medical Device ECG Lead                                 | O C |
| 0 : 1 | eMedDevice.50 - (eDevice.08) Medical Device ECG Interpretation                       | O   |
| 0 : 1 | eMedDevice.ShockGroup  |     |
| 0 : 1 | eMedDevice.51 - (eDevice.09) Type of Shock   | O   |
| 0 : 1 | eMedDevice.52 - (eDevice.10) Shock or Pacing Energy                                  | O   |
| 0 : 1 | eMedDevice.53 - (eDevice.11) Total Number of Shocks Delivered                        | O   |
| 0 : 1 | eMedDevice.54 - (eDevice.12) Pacing Rate   | O   |





State

National

## eMedDevice.01 - EMS Agency Unique State ID

## Definition

The unique ID assigned to the EMS Agency which is associated with all state licensure numbers and information.

|                   |           |                          |       |
|-------------------|-----------|--------------------------|-------|
| National Element  | Yes       | Pertinent Negatives (PN) | No    |
| State Element     | Yes       | NOT Values               | No    |
| Version 2 Element |           | Is Nillable              | No    |
| Usage             | Mandatory | Recurrence               | 1 : 1 |

## Associated Performance Measure Initiatives

Airway    Cardiac Arrest    Pediatric    Response    STEMI    Stroke    Trauma

## Constraints

| Data Type | minLength | maxLength |
|-----------|-----------|-----------|
| string    | 1         | 50        |

## Data Element Comment

This may be the EMS Agency Name or a unique number assigned by the state EMS office. This is required to document multiple license types and numbers associated with the same EMS Agency.

## eMedDevice.02 - EMS Agency Number

## Definition

The state-assigned provider number of the responding agency

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | D01_01   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

## Associated Performance Measure Initiatives

Airway    Cardiac Arrest    Pediatric    Response    STEMI    Stroke    Trauma

## Constraints

| Data Type | minLength | maxLength |
|-----------|-----------|-----------|
| string    | 1         | 15        |

## Data Element Comment

This is the primary identifier for the entire Demographic Section. Each of the Demographic sections must be associated with an EMS Agency Number. An EMS Agency can have more than one Agency Number within a state. This reflects the ability for an EMS Agency to have a different number for each service type or location (based on state implementation).

## eMedDevice.03 - EMS Agency Name

## Definition

The formal name of the agency.

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | D01_02   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

## Associated Performance Measure Initiatives

Airway    Cardiac Arrest    Pediatric    Response    STEMI    Stroke    Trauma

## Constraints

|                  |                  |                  |
|------------------|------------------|------------------|
| <b>Data Type</b> | <b>minLength</b> | <b>maxLength</b> |
| string           | 2                | 100              |

## Data Element Comment

**eMedDevice.04 - EMS Agency State****Definition**

The state/territory which assigned the EMS agency number.

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | D01_03   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

**Associated Performance Measure Initiatives**

Airway    Cardiac Arrest    Pediatric    Response    STEMI    Stroke    Trauma

**Constraints**

|                  |               |
|------------------|---------------|
| <b>Data Type</b> | <b>length</b> |
| string           | 2             |

**Data Element Comment**

This has been clarified to reflect that it is the state in which the EMS Agency resides and the state associated with the EMS Agency number.

GNIS Codes Website: [http://geonames.usgs.gov/domestic/download\\_data.htm](http://geonames.usgs.gov/domestic/download_data.htm)

**eMedDevice.05 - Medical Device Serial Number****Definition**

The unique manufacturer's serial number associated with a medical device.

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | D09_01   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

**Constraints**

|                  |                  |                  |
|------------------|------------------|------------------|
| <b>Data Type</b> | <b>minLength</b> | <b>maxLength</b> |
| string           | 2                | 50               |

**Data Element Comment**

**eMedDevice.06 - Medical Device Name or ID****Definition**

The local number or configurable Name/ID of the medical device.

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | D09_02   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

**Constraints**

|                  |                  |                  |
|------------------|------------------|------------------|
| <b>Data Type</b> | <b>minLength</b> | <b>maxLength</b> |
| string           | 2                | 50               |

**Data Element Comment**

## eMedDevice.07 - Medical Device Type

## Definition

The type of medical device.

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element |          | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : M |

## Attributes

## CorrelationID

Data Type: string

minLength: 0

maxLength: 255

## Code List

| Code    | Description                             |
|---------|---|
| 1603001 | Capnography-Numeric                     |
| 1603003 | Capnography-Waveform                    |
| 1603005 | Chemistry Measurement-Blood or Serum    |
| 1603007 | Chemistry Measurement-Glucometer        |
| 1603009 | Chemistry Measurement-Urine             |
| 1603011 | CPR-External Device                     |
| 1603013 | Defibrillator-Automated                 |
| 1603015 | Defibrillator-Manual                    |
| 1603017 | ECG-12 Lead or Greater                  |
| 1603019 | ECG-Less than 12 Lead (Cardiac Monitor) |
| 1603021 | Medication Infusion Pump                |
| 1603023 | Other (Not Listed)                      |
| 1603025 | Oximetry-Carbon Monoxide                |
| 1603027 | Oximetry-Oxygen                         |
| 1603029 | Pressure Monitors-Invasive              |
| 1603031 | Pressure Monitors-Non-Invasive          |
| 1603033 | Respirator (BLS)                        |
| 1603035 | Ventilator (ALS)                        |
| 1603037 | Ventilator Assistance-BiPAP             |
| 1603039 | Ventilator Assistance-CPAP              |

## Data Element Comment

This is multiple choice to allow documentation of various multifunction device configurations.



## eMedDevice.08 - Medical Device Manufacturer

## Definition

The manufacturer of the medical device.

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | D09_03   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

## Constraints

| Data Type | minLength | maxLength |
|-----------|-----------|-----------|
| string    | 2         | 50        |

## Data Element Comment

## eMedDevice.09 - Medical Device Model Number

## Definition

The specific manufacturer's model number associated with medical device.

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | D09_04   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

## Constraints

|                  |                  |                  |
|------------------|------------------|------------------|
| <b>Data Type</b> | <b>minLength</b> | <b>maxLength</b> |
| string           | 2                | 50               |

## Data Element Comment

State

National

## eMedDevice.10 - Patient Care Report Number

## Definition

The unique number automatically assigned by the EMS agency for each Patient Care Report (PCR). This should be a unique number for the EMS agency for all of time.

|                   |           |                          |       |
|-------------------|-----------|--------------------------|-------|
| National Element  | Yes       | Pertinent Negatives (PN) | No    |
| State Element     | Yes       | NOT Values               | No    |
| Version 2 Element | E01_01    | Is Nillable              | No    |
| Usage             | Mandatory | Recurrence               | 1 : 1 |

## Associated Performance Measure Initiatives

Airway   Cardiac Arrest   Pediatric   Response   STEMI   Stroke   Trauma

## Constraints

| Data Type | minLength | maxLength |
|-----------|-----------|-----------|
| string    | 3         | 32        |

## Data Element Comment

## eMedDevice.11 - Last Name

## Definition

The patient's last (family) name

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | E06_01   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

## Constraints

| Data Type | minLength | maxLength |
|-----------|-----------|-----------|
| string    | 1         | 50        |

## Data Element Comment

Pertinent negatives accepted with option of "Unable to Complete" or "Refused".

## eMedDevice.12 - First Name

## Definition

The patient's first (given) name

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | E06_02   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

## Constraints

| Data Type | minLength | maxLength |
|-----------|-----------|-----------|
| string    | 1         | 50        |

## Data Element Comment

Pertinent negatives accepted with option of "Unable to Complete" or "Refused".

## eMedDevice.13 - Middle Initial/Name

## Definition

The patient's middle name, if any

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | E06_03   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

## Constraints

| Data Type | minLength | maxLength |
|-----------|-----------|-----------|
| string    | 1         | 50        |

## Data Element Comment

## eMedDevice.14 - Gender

## Definition

## The Patient's Gender

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | E06_11   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

## Associated Performance Measure Initiatives

Airway    Cardiac Arrest    Pediatric    Response    STEMI    Stroke    Trauma

## Code List

| Code    | Description                   |
|---------|-------------------------------|
| 9906001 | Female                        |
| 9906003 | Male                          |
| 9906005 | Unknown (Unable to Determine) |

## Data Element Comment

## eMedDevice.15 - Race

## Definition

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

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | E06_12   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : M |

## Associated Performance Measure Initiatives

Airway    Cardiac Arrest    Pediatric    Response    STEMI    Stroke    Trauma

## Attributes

## CorrelationID

Data Type: string

minLength: 0

maxLength: 255

## Code List

| Code    | Description                               |
|---------|---|
| 2514001 | American Indian or Alaska Native          |
| 2514003 | Asian                                     |
| 2514005 | Black or African American                 |
| 2514007 | Hispanic or Latino                        |
| 2514009 | Native Hawaiian or Other Pacific Islander |
| 2514011 | White                                     |

## Data Element Comment

OMB requirements are provided at: <http://www.omhrc.gov/templates/browse.aspx?lvl=2&lvlID=172>. Using single multiple choice question methodology to improve the completion of ethnicity information.

Ethnicity (Version 2.2.1: E06\_13) has been merged with this data element and retired.



## eMedDevice.16 - Age

## Definition

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

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | E06_14   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

## Associated Performance Measure Initiatives

Airway    Cardiac Arrest    Pediatric    Response    STEMI    Stroke    Trauma

## Constraints

|                  |                     |                     |
|------------------|---------------------|---------------------|
| <b>Data Type</b> | <b>minInclusive</b> | <b>maxInclusive</b> |
| integer          | 1                   | 120                 |

## Data Element Comment

## eMedDevice.17 - Age Units

## Definition

The unit used to define the patient's age

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | E06_15   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

## Associated Performance Measure Initiatives

Airway    Cardiac Arrest    Pediatric    Response    STEMI    Stroke    Trauma

## Code List

| Code    | Description |
|---------|-------------|
| 2516001 | Days        |
| 2516003 | Hours       |
| 2516005 | Minutes     |
| 2516007 | Months      |
| 2516009 | Years       |

## Data Element Comment

## eMedDevice.18 - Date of Birth

## Definition

The patient's date of birth

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | E06_16   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

## Constraints

|                  |                     |                     |
|------------------|---------------------|---------------------|
| <b>Data Type</b> | <b>minInclusive</b> | <b>maxInclusive</b> |
| date             | 1890-01-01          | 2050-01-01          |

## Data Element Comment

## eMedDevice.19 - Date/Time Vital Signs Taken

## Definition

The date/time vital signs were taken on the patient.

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | E14_01   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

## Associated Performance Measure Initiatives

Airway    Cardiac Arrest    Pediatric    STEMI    Stroke    Trauma

## Constraints

**Data Type**                      **minInclusive**                      **maxInclusive**  
 dateTime                      1950-01-01T00:00:00-00:00                      2050-01-01T00:00:00-00:00

## Pattern

[0-9]{4}-[0-9]{2}-[0-9]{2}T[0-9]{2}:[0-9]{2}:[0-9]{2}(\.\d+)?(\+|-)[0-9]{2}:[0-9]{2}

## Data Element Comment

DateTime consists of finite-length characters of the form: yyyy '-' mm '-' dd 'T' hh ':' mm ':' ss ('.' s+)? (zzzzzz)

|        |   |
|--------|---|
| yyyy   | a four-digit numeral that represents the year                 |
| '-'    | separators between parts of the date portion                  |
| mm     | a two-digit numeral that represents the month                 |
| dd     | a two-digit numeral that represents the day                   |
| T      | separator that indicates time-of-day follows                  |
| hh     | a two-digit numeral that represents the hour                  |
| ':'    | a separator between parts of the time-of-day portion          |
| mm     | a two-digit numeral that represents the minute                |
| ss     | a two-integer-digit numeral that represents the whole seconds |
| '.' s+ | (not required) represents the fractional seconds              |
| zzzzzz | (required) represents the timezone (as described below)       |

Timezones, required, are durations with (integer-valued) hour and minute properties in the form: ('+' | '-') hh ':' mm

|     |  |
|-----|--|
| hh  | a two-digit numeral (with leading zeros as required) that represents the hours |
| mm  | a two-digit numeral that represents the minutes                                |
| '+' | a nonnegative duration   |
| '-' | a nonpositive duration   |

## eMedDevice.20 - Cardiac Rhythm / Electrocardiography (ECG)

## Definition

The cardiac rhythm / ECG and other electrocardiography findings of the patient as interpreted by EMS personnel.

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | E14_03   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : M |

## Associated Performance Measure Initiatives

Cardiac Arrest      STEMI

## Attributes

## CorrelationID

Data Type: string

minLength: 0

maxLength: 255

## Code List

| Code    | Description                          |
|---------|--------------------------------------|
| 9901001 | Agonal/Idioventricular               |
| 9901003 | Asystole                             |
| 9901005 | Artifact                             |
| 9901007 | Atrial Fibrillation                  |
| 9901009 | Atrial Flutter                       |
| 9901011 | AV Block-1st Degree                  |
| 9901013 | AV Block-2nd Degree-Type 1           |
| 9901015 | AV Block-2nd Degree-Type 2           |
| 9901017 | AV Block-3rd Degree                  |
| 9901019 | Junctional                           |
| 9901021 | Left Bundle Branch Block             |
| 9901023 | Non-STEMI Anterior Ischemia          |
| 9901025 | Non-STEMI Inferior Ischemia          |
| 9901027 | Non-STEMI Lateral Ischemia           |
| 9901029 | Non-STEMI Posterior Ischemia         |
| 9901031 | Other (Not Listed)                   |
| 9901033 | Paced Rhythm                         |
| 9901035 | PEA                                  |
| 9901037 | Premature Atrial Contractions        |
| 9901039 | Premature Ventricular Contractions   |
| 9901041 | Right Bundle Branch Block            |
| 9901043 | Sinus Arrhythmia                     |
| 9901045 | Sinus Bradycardia                    |
| 9901047 | Sinus Rhythm                         |
| 9901049 | Sinus Tachycardia                    |
| 9901051 | STEMI Anterior Ischemia              |
| 9901053 | STEMI Inferior Ischemia              |
| 9901055 | STEMI Lateral Ischemia               |
| 9901057 | STEMI Posterior Ischemia             |
| 9901059 | Supraventricular Tachycardia         |
| 9901061 | Torsades De Points                   |
| 9901063 | Unknown AED Non-Shockable Rhythm     |
| 9901065 | Unknown AED Shockable Rhythm         |
| 9901067 | Ventricular Fibrillation             |
| 9901069 | Ventricular Tachycardia (With Pulse) |
| 9901071 | Ventricular Tachycardia (Pulseless)  |

## Data Element Comment

## eMedDevice.21 - ECG Type

## Definition

The type of ECG associated with the cardiac rhythm.

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element |          | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

## Associated Performance Measure Initiatives

STEMI

## Code List

| Code    | Description                 |
|---------|-----------------------------|
| 3304001 | 3 Lead                      |
| 3304003 | 4 Lead                      |
| 3304005 | 5 Lead                      |
| 3304007 | 12 Lead-Left Sided (Normal) |
| 3304009 | 12 Lead-Right Sided         |
| 3304011 | 15 Lead                     |
| 3304013 | 18 Lead                     |
| 3304015 | Other (Not Listed)          |

## Data Element Comment

## Version 3 Changes Implemented

Added to better document ECG results.

## eMedDevice.22 - Method of ECG Interpretation

## Definition

The method of ECG interpretation.

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element |          | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : M |

## Associated Performance Measure Initiatives

STEMI

## Attributes

**CorrelationID**

**Data Type:** string

**minLength:** 0

**maxLength:** 255

## Code List

| Code    | Description                             |
|---------|---|
| 3305001 | Computer Interpretation                 |
| 3305003 | Manual Interpretation                   |
| 3305005 | Transmission with No Interpretation     |
| 3305007 | Transmission with Remote Interpretation |

## Data Element Comment

"Transmission with no interpretation" may be used by EMS Agency Personnel that are not trained to interpret cardiac rhythms.

## Version 3 Changes Implemented

Added to better document ECG results.

## eMedDevice.23 - SBP (Systolic Blood Pressure)

## Definition

The patient's systolic blood pressure.

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | E14_04   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

## Associated Performance Measure Initiatives

Airway    Cardiac Arrest    Pediatric    STEMI    Stroke    Trauma

## Constraints

|                  |                     |                     |
|------------------|---------------------|---------------------|
| <b>Data Type</b> | <b>minInclusive</b> | <b>maxInclusive</b> |
| integer          | 0                   | 500                 |

## Data Element Comment

Required for ACS-Field Triage and other patient scoring systems.



**eMedDevice.24 - DBP (Diastolic Blood Pressure)****Definition**

The patient's diastolic blood pressure.

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | E14_05   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

**Constraints****Pattern**

[5][0][0][1-4][0-9][0-9][0][1-9][0-9]P|p

**Data Element Comment**

Diastolic blood pressure pattern allows for the following values:

- 1) A number 0 through 500
- 2) P
- 3) p

**eMedDevice.25 - Method of Blood Pressure Measurement****Definition**

Indication of method of blood pressure measurement.

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | E14_06   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

**Code List**

| Code    | Description               |
|---------|---------------------------|
| 3308001 | Arterial Line             |
| 3308003 | Doppler                   |
| 3308005 | Cuff-Automated            |
| 3308007 | Cuff-Manual Auscultated   |
| 3308009 | Cuff-Manual Palpated Only |
| 3308011 | Venous Line               |

**Data Element Comment**

**eMedDevice.26 - Mean Arterial Pressure****Definition**

The patient's mean arterial pressure.

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element |          | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

**Constraints**

|                  |                     |                     |
|------------------|---------------------|---------------------|
| <b>Data Type</b> | <b>minInclusive</b> | <b>maxInclusive</b> |
| integer          | 1                   | 500                 |

**Data Element Comment****Version 3 Changes Implemented**

Added for additional patient monitoring capability.

## eMedDevice.27 - Heart Rate

## Definition

The patient's heart rate expressed as a number per minute.

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | E14_07   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

## Associated Performance Measure Initiatives

Airway    Cardiac Arrest    Pediatric    STEMI    Stroke    Trauma

## Constraints

|                  |                     |                     |
|------------------|---------------------|---------------------|
| <b>Data Type</b> | <b>minInclusive</b> | <b>maxInclusive</b> |
| integer          | 0                   | 500                 |

## Data Element Comment

Pulse Rate and Electronic Monitor Rate have been merged with an additional data element for Method of Heart Rate Measurement.

## eMedDevice.28 - Method of Heart Rate Measurement

## Definition

The method in which the Heart Rate was measured. Values include auscultated, palpated, electronic monitor).

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element |          | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

## Code List

| Code    | Description                         |
|---------|-------------------------------------|
| 3311001 | Auscultated                         |
| 3311003 | Doppler                             |
| 3311005 | Electronic Monitor - Cardiac        |
| 3311007 | Electronic Monitor - Pulse Oximeter |
| 3311009 | Electronic Monitor (Other)          |
| 3311011 | Palpated                            |

## Data Element Comment

This data element was added when Pulse Rate and Electronic Monitor Rate were merged as EVitals.10.

## Version 3 Changes Implemented

This data element was added when Pulse Rate and Electronic Monitor Rate were merged as EVitals.10.

## eMedDevice.29 - Pulse Oximetry

## Definition

The patient's oxygen saturation.

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | E14_09   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

## Associated Performance Measure Initiatives

Airway    Cardiac Arrest    Pediatric    STEMI    Stroke    Trauma

## Constraints

|                  |                     |                     |
|------------------|---------------------|---------------------|
| <b>Data Type</b> | <b>minInclusive</b> | <b>maxInclusive</b> |
| integer          | 0                   | 100                 |

## Data Element Comment

## eMedDevice.30 - Respiratory Rate

## Definition

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

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | E14_11   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

## Associated Performance Measure Initiatives

Airway    Cardiac Arrest    Pediatric    STEMI    Stroke    Trauma

## Constraints

|                  |                     |                     |
|------------------|---------------------|---------------------|
| <b>Data Type</b> | <b>minInclusive</b> | <b>maxInclusive</b> |
| integer          | 0                   | 300                 |

## Data Element Comment

**eMedDevice.31 - Carbon Dioxide (CO2)****Definition**

The patient's end-tidal or other CO2 level.

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | E14_13   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

**Associated Performance Measure Initiatives**

Airway    Cardiac Arrest    Pediatric    STEMI    Stroke    Trauma

**Constraints**

|                  |                     |                     |
|------------------|---------------------|---------------------|
| <b>Data Type</b> | <b>minInclusive</b> | <b>maxInclusive</b> |
| integer          | 0                   | 100                 |

**Data Element Comment**



**eMedDevice.32 - Carbon Monoxide (CO)****Definition**

The patient's carbon monoxide level measured in parts per million (ppm).

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element |          | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

**Constraints**

|                  |                     |                     |
|------------------|---------------------|---------------------|
| <b>Data Type</b> | <b>minInclusive</b> | <b>maxInclusive</b> |
| integer          | 0                   | 100                 |

**Data Element Comment****Version 3 Changes Implemented**

Added to allow use of a new patient monitoring device

## eMedDevice.33 - Blood Glucose Level

## Definition

The patient's blood glucose level.

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | E14_14   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

## Associated Performance Measure Initiatives

Pediatric      Stroke

## Constraints

|                  |                     |                     |
|------------------|---------------------|---------------------|
| <b>Data Type</b> | <b>minInclusive</b> | <b>maxInclusive</b> |
| integer          | 0                   | 2000                |

## Data Element Comment

**eMedDevice.34 - Temperature****Definition**

The patient's body temperature in degrees Celsius/centigrade.

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | E14_20   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

**Associated Performance Measure Initiatives**

Pediatric

**Constraints**

|                  |                    |                       |                     |                     |
|------------------|--------------------|-----------------------|---------------------|---------------------|
| <b>Data Type</b> | <b>totalDigits</b> | <b>fractionDigits</b> | <b>minInclusive</b> | <b>maxInclusive</b> |
| decimal          | 3                  | 1                     | 0                   | 50                  |

**Data Element Comment**

**eMedDevice.35 - Temperature Method****Definition**

The method used to obtain the patient's body temperature.

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | E14_21   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

**Code List**

| Code    | Description                  |
|---------|------------------------------|
| 3325001 | Axillary                     |
| 3325003 | Central (Venous or Arterial) |
| 3325005 | Esophageal                   |
| 3325007 | Oral                         |
| 3325009 | Rectal                       |
| 3325011 | Temporal Artery              |
| 3325013 | Tympanic                     |
| 3325015 | Urinary Catheter             |

**Data Element Comment**

## eMedDevice.36 - Date/Time of Laboratory or Imaging Result

## Definition

The data and time for the specific laboratory result

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element |          | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

## Constraints

|                  |                           |                           |
|------------------|---------------------------|---------------------------|
| <b>Data Type</b> | <b>minInclusive</b>       | <b>maxInclusive</b>       |
| dateTime         | 1950-01-01T00:00:00-00:00 | 2050-01-01T00:00:00-00:00 |

## Pattern

[0-9]{4}-[0-9]{2}-[0-9]{2}T[0-9]{2}:[0-9]{2}:[0-9]{2}(\.\d+)?(\+|-)[0-9]{2}:[0-9]{2}

## Data Element Comment

DateTime consists of finite-length characters of the form: yyyy '-' mm '-' dd 'T' hh ':' mm ':' ss ('.' s+)? (zzzzzz)

|        |   |
|--------|---|
| yyyy   | a four-digit numeral that represents the year                 |
| '-'    | separators between parts of the date portion                  |
| mm     | a two-digit numeral that represents the month                 |
| dd     | a two-digit numeral that represents the day                   |
| T      | separator that indicates time-of-day follows                  |
| hh     | a two-digit numeral that represents the hour                  |
| ':'    | a separator between parts of the time-of-day portion          |
| mm     | a two-digit numeral that represents the minute                |
| ss     | a two-integer-digit numeral that represents the whole seconds |
| '.' s+ | (not required) represents the fractional seconds              |
| zzzzzz | (required) represents the timezone (as described below)       |

Timezones, required, are durations with (integer-valued) hour and minute properties in the form: ('+' | '-') hh ':' mm

|     |  |
|-----|--|
| hh  | a two-digit numeral (with leading zeros as required) that represents the hours |
| mm  | a two-digit numeral that represents the minutes                                |
| '+' | a nonnegative duration   |
| '-' | a nonpositive duration   |

## Version 3 Changes Implemented

Added to better document patient care.

## eMedDevice.37 - Laboratory Result Type

## Definition

The type of the laboratory value.

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element |          | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

## Code List

| Code    | Description                          |
|---------|--------------------------------------|
| 3403001 | Alanine Transaminase                 |
| 3403003 | Alcohol-Blood                        |
| 3403005 | Alcohol-Breath                       |
| 3403007 | Alkaline Phosphatase                 |
| 3403009 | Amylase                              |
| 3403011 | Angiography                          |
| 3403013 | Aspartate Transaminase               |
| 3403015 | B-Type Natriuretic Peptide (BNP)     |
| 3403017 | Base Excess                          |
| 3403019 | Bilirubin-Direct                     |
| 3403021 | Bilirubin-Total                      |
| 3403023 | BUN                                  |
| 3403025 | Calcium-Ionized                      |
| 3403027 | Calcium-Serum                        |
| 3403029 | Carbon Dioxide-Partial Pressure      |
| 3403031 | CAT Scan                             |
| 3403033 | Chloride                             |
| 3403035 | Creatine Kinase                      |
| 3403037 | Creatine Kinase-MB                   |
| 3403039 | Creatinine                           |
| 3403041 | Gamma Glutamyl Transpeptidase        |
| 3403043 | Glucose                              |
| 3403045 | Hematocrit                           |
| 3403047 | Hemoglobin                           |
| 3403049 | Human Chorionic Gonadotropin-Serum   |
| 3403051 | Human Chorionic Gonadotropin-Urine   |
| 3403053 | International Normalized Ratio (INR) |
| 3403055 | Lactate Dehydrogenase                |
| 3403057 | Lactate-Arterial                     |
| 3403059 | Lactate-Venous                       |
| 3403061 | Lipase                               |
| 3403063 | Magnesium                            |
| 3403065 | Oxygen-Partial Pressure              |
| 3403067 | Partial Thromboplastin Time          |
| 3403069 | PET Scan                             |
| 3403071 | pH-ABG                               |
| 3403073 | pH-Venous                            |
| 3403075 | Platelets                            |
| 3403077 | Potassium                            |
| 3403079 | Prothrombin Time                     |
| 3403081 | Red Blood Cells                      |
| 3403083 | Sodium                               |
| 3403085 | Troponin                             |
| 3403087 | White Blood Cells                    |

## Data Element Comment

## Version 3 Changes Implemented

Added to provide for the documentation of laboratory results obtained prior to or during and EMS patient encounter.

## eMedDevice.38 - Laboratory Result

## Definition

The value or result of the laboratory test (Units may vary).

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element |          | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

## Constraints

| Data Type | minLength | maxLength |
|-----------|-----------|-----------|
| string    | 1         | 50        |

## Data Element Comment

## Version 3 Changes Implemented

Added to better document EMS care.

**eMedDevice.39 - Imaging Study Type****Definition**

The type of x-ray or imaging study.

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element |          | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

**Code List**

| Code    | Description                      |
|---------|----------------------------------|
| 3405001 | CAT Scan                         |
| 3405003 | Magnetic Resonance Imaging (MRI) |
| 3405005 | Other (Not Listed)               |
| 3405007 | PET Scan                         |
| 3405009 | Ultrasound                       |
| 3405011 | X-ray                            |

**Data Element Comment****Version 3 Changes Implemented**

Added to better describe the EMS patient care.



**eMedDevice.40 - Imaging Study Results****Definition**

The description or interpretation of the results of the imaging study.

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element |          | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

**Constraints**

|                  |                  |                  |
|------------------|------------------|------------------|
| <b>Data Type</b> | <b>minLength</b> | <b>maxLength</b> |
| string           | 3                | 5000             |

**Data Element Comment****Version 3 Changes Implemented**

Added to better describe the EMS Patient Care

## eMedDevice.41 - Imaging Study File or Waveform Graphic Type

## Definition

The description of the image study file or waveform graphic stored in Imaging Study File or Waveform Graphic (eMedDevice.42).

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element |          | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

## Associated Performance Measure Initiatives

Airway      Cardiac Arrest      STEMI

## Constraints

| Data Type | minLength | maxLength |
|-----------|-----------|-----------|
| string    | 1         | 255       |

## Data Element Comment

The description is defined as the extension of the file type. Examples of file name extensions include "doc", "jpeg", "tiff", etc. For a list of additional extensions reference the following website(s):

3D Image formats: [http://www.fileinfo.com/filetypes/3d\\_image](http://www.fileinfo.com/filetypes/3d_image)

Raster Image formats: [http://www.fileinfo.com/filetypes/raster\\_image](http://www.fileinfo.com/filetypes/raster_image)

Vector Image formats: [http://www.fileinfo.com/filetypes/vector\\_image](http://www.fileinfo.com/filetypes/vector_image)

Video formats: <http://www.fileinfo.com/filetypes/video>

Audio formats: <http://www.fileinfo.com/filetypes/audio>

Comparison of formats:

Image: [http://en.wikipedia.org/wiki/Comparison\\_of\\_image\\_file\\_formats](http://en.wikipedia.org/wiki/Comparison_of_image_file_formats)

Audio: [http://en.wikipedia.org/wiki/Audio\\_file\\_format](http://en.wikipedia.org/wiki/Audio_file_format)

Container: [http://en.wikipedia.org/wiki/Comparison\\_of\\_container\\_formats](http://en.wikipedia.org/wiki/Comparison_of_container_formats)

A general list of image formats: [http://en.wikipedia.org/wiki/Image\\_file\\_formats](http://en.wikipedia.org/wiki/Image_file_formats)

Mime Types: [http://en.wikipedia.org/wiki/Internet\\_media\\_type](http://en.wikipedia.org/wiki/Internet_media_type)

**eMedDevice.42 - Imaging Study File or Waveform Graphic****Definition**

The imaging study file.

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element |          | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

**Associated Performance Measure Initiatives**

Airway    Cardiac Arrest    STEMI

**Constraints****Data Type**

base64Binary

**Data Element Comment**

Added to allow the imaging file to be uploaded and better document patient care.

## eMedDevice.43 - Medical Device Serial Number

## Definition

The unique manufacturer's serial number associated with a medical device.

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element |          | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

## Constraints

|                  |                  |                  |
|------------------|------------------|------------------|
| <b>Data Type</b> | <b>minLength</b> | <b>maxLength</b> |
| string           | 2                | 50               |

## Data Element Comment

## eMedDevice.44 - Date/Time of Event (per Medical Device)

## Definition

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

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | E21_01   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

## Associated Performance Measure Initiatives

Airway      Cardiac Arrest      STEMI

## Constraints

**Data Type**                      **minInclusive**                      **maxInclusive**  
 dateTime                      1950-01-01T00:00:00-00:00                      2050-01-01T00:00:00-00:00

## Pattern

[0-9]{4}-[0-9]{2}-[0-9]{2}T[0-9]{2}:[0-9]{2}:[0-9]{2}(\.\d+)?(\+|-)[0-9]{2}:[0-9]{2}

## Data Element Comment

DateTime consists of finite-length characters of the form: yyyy '-' mm '-' dd 'T' hh ':' mm ':' ss ('.' s+)? (zzzzzz)

|        |   |
|--------|---|
| yyyy   | a four-digit numeral that represents the year                 |
| '-'    | separators between parts of the date portion                  |
| mm     | a two-digit numeral that represents the month                 |
| dd     | a two-digit numeral that represents the day                   |
| T      | separator that indicates time-of-day follows                  |
| hh     | a two-digit numeral that represents the hour                  |
| ':'    | a separator between parts of the time-of-day portion          |
| mm     | a two-digit numeral that represents the minute                |
| ss     | a two-integer-digit numeral that represents the whole seconds |
| '.' s+ | (not required) represents the fractional seconds              |
| zzzzzz | (required) represents the timezone (as described below)       |

Timezones, required, are durations with (integer-valued) hour and minute properties in the form: ('+' | '-') hh ':' mm

|     |  |
|-----|--|
| hh  | a two-digit numeral (with leading zeros as required) that represents the hours |
| mm  | a two-digit numeral that represents the minutes                                |
| '+' | a nonnegative duration   |
| '-' | a nonpositive duration   |

## eMedDevice.45 - Medical Device Event Type

## Definition

The type of event documented by the medical device.

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | E21_02   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : M |

## Associated Performance Measure Initiatives

Airway      Cardiac Arrest      STEMI

## Attributes

**CorrelationID**

**Data Type:** string      **minLength:** 0      **maxLength:** 255

## Code List

| Code    | Description               |
|---------|---------------------------|
| 4103001 | 12-Lead ECG               |
| 4103003 | Analysis (Button Pressed) |
| 4103005 | CO2                       |
| 4103007 | Date Transmitted          |
| 4103009 | Defibrillation            |
| 4103011 | ECG-Monitor               |
| 4103013 | Heart Rate                |
| 4103015 | Invasive Pressure 1       |
| 4103017 | Invasive Pressure 2       |
| 4103019 | No Shock Advised          |
| 4103021 | Non-Invasive BP           |
| 4103023 | Other                     |
| 4103025 | Pacing Electrical Capture |
| 4103027 | Pacing Started            |
| 4103029 | Pacing Stopped            |
| 4103031 | Patient Connected         |
| 4103033 | Power On                  |
| 4103035 | Pulse Oximetry            |
| 4103037 | Pulse Rate                |
| 4103039 | Respiratory Rate          |
| 4103041 | Shock Advised             |
| 4103043 | Sync Off                  |
| 4103045 | Sync On                   |
| 4103047 | Temperature 1             |
| 4103049 | Temperature 2             |

## Data Element Comment

Can be displayed in the Vital Signs or Procedure Sections.

## eMedDevice.46 - Medical Device Waveform Graphic Type

## Definition

The description of the waveform file stored in Medical Device Waveform Graphic (eMedDevice.47).

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | E21_03   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

## Associated Performance Measure Initiatives

Airway      Cardiac Arrest      STEMI

## Constraints

| Data Type | minLength | maxLength |
|-----------|-----------|-----------|
| string    | 1         | 255       |

## Data Element Comment

The description is defined as the extension of the file type. Examples of file name extensions include “doc”, “jpeg”, “tiff”, etc. For a list of additional extensions reference the following website(s):

3D Image formats: [http://www.fileinfo.com/filetypes/3d\\_image](http://www.fileinfo.com/filetypes/3d_image)

Raster Image formats: [http://www.fileinfo.com/filetypes/raster\\_image](http://www.fileinfo.com/filetypes/raster_image)

Vector Image formats: [http://www.fileinfo.com/filetypes/vector\\_image](http://www.fileinfo.com/filetypes/vector_image)

Video formats: <http://www.fileinfo.com/filetypes/video>

Audio formats: <http://www.fileinfo.com/filetypes/audio>

Comparison of formats:

Image: [http://en.wikipedia.org/wiki/Comparison\\_of\\_image\\_file\\_formats](http://en.wikipedia.org/wiki/Comparison_of_image_file_formats)

Audio: [http://en.wikipedia.org/wiki/Audio\\_file\\_format](http://en.wikipedia.org/wiki/Audio_file_format)

Container: [http://en.wikipedia.org/wiki/Comparison\\_of\\_container\\_formats](http://en.wikipedia.org/wiki/Comparison_of_container_formats)

A general list of image formats: [http://en.wikipedia.org/wiki/Image\\_file\\_formats](http://en.wikipedia.org/wiki/Image_file_formats)

Mime Types: [http://en.wikipedia.org/wiki/Internet\\_media\\_type](http://en.wikipedia.org/wiki/Internet_media_type)

**eMedDevice.47 - Medical Device Waveform Graphic****Definition**

The graphic waveform file.

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | E21_04   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

**Associated Performance Measure Initiatives**

Airway    Cardiac Arrest    STEMI

**Constraints****Data Type**

base64Binary

**Data Element Comment**



## eMedDevice.48 - Medical Device Mode (Manual, AED, Pacing, CO2, O2, etc)

## Definition

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

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | E21_05   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

## Code List

| Code    | Description |
|---------|-------------|
| 4106001 | Advisory    |
| 4106003 | Automated   |
| 4106005 | Demand      |
| 4106007 | Manual      |
| 4106009 | Mid-Stream  |
| 4106011 | Sensing     |
| 4106013 | Side-Stream |

## Data Element Comment

## eMedDevice.49 - Medical Device ECG Lead

## Definition

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

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | E21_06   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : M |

## Associated Performance Measure Initiatives

Airway      Cardiac Arrest      STEMI

## Attributes

**CorrelationID**

**Data Type:** string

**minLength:** 0

**maxLength:** 255

## Code List

| Code    | Description |
|---------|-------------|
| 4107001 | I           |
| 4107003 | II          |
| 4107005 | III         |
| 4107007 | AVR         |
| 4107009 | AVL         |
| 4107011 | AVF         |
| 4107013 | Paddle      |
| 4107015 | Pads        |
| 4107017 | V1          |
| 4107019 | V2          |
| 4107021 | V3          |
| 4107023 | V3r         |
| 4107025 | V4          |
| 4107027 | V4r         |
| 4107029 | V5          |
| 4107031 | V5r         |
| 4107033 | V6          |
| 4107035 | V6r         |
| 4107037 | V7          |
| 4107039 | V8          |
| 4107041 | V9          |

## Data Element Comment

Can be displayed in the Vital Signs or Procedure Sections.

## eMedDevice.50 - Medical Device ECG Interpretation

## Definition

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

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | E21_07   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

## Associated Performance Measure Initiatives

Airway    Cardiac Arrest    STEMI

## Constraints

|                  |                  |                  |
|------------------|------------------|------------------|
| <b>Data Type</b> | <b>minLength</b> | <b>maxLength</b> |
| string           | 1                | 2000             |

## Data Element Comment

The rhythm interpretation text imported from the device.

**eMedDevice.51 - Type of Shock****Definition**

The type of shock used by the device for the defibrillation (if appropriate for the event)

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | E21_08   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

**Associated Performance Measure Initiatives**

Cardiac Arrest

**Code List**

| Code    | Description |
|---------|-------------|
| 4109001 | Biphasic    |
| 4109003 | Monophasic  |

**Data Element Comment**

## eMedDevice.52 - Shock or Pacing Energy

## Definition

The energy (in joules) used for the shock or pacing (if appropriate for the event)

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | E21_09   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

## Associated Performance Measure Initiatives

Cardiac Arrest

## Constraints

|                  |                    |                       |                     |                     |
|------------------|--------------------|-----------------------|---------------------|---------------------|
| <b>Data Type</b> | <b>totalDigits</b> | <b>fractionDigits</b> | <b>minInclusive</b> | <b>maxInclusive</b> |
| decimal          | 5                  | 1                     | 1                   | 9000                |

## Data Element Comment

**eMedDevice.53 - Total Number of Shocks Delivered****Definition**

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

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | E21_10   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

**Associated Performance Measure Initiatives**

Cardiac Arrest

**Constraints**

| Data Type | minInclusive | maxInclusive |
|-----------|--------------|--------------|
| integer   | 1            | 100          |

**Data Element Comment**

**eMedDevice.54 - Pacing Rate****Definition**

The rate the device was calibrated to pace during the event, if appropriate.

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element | E21_11   | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

**Constraints**

|                  |                     |                     |
|------------------|---------------------|---------------------|
| <b>Data Type</b> | <b>minInclusive</b> | <b>maxInclusive</b> |
| integer          | 1                   | 1000                |

**Data Element Comment**

# eCustomResults



|        |   |
|--------|---|
| Legend | Dataset Level: <span>N</span> National <span>S</span> State   |
|        | Usage: <span></span> M = Mandatory , R = Required , E = Recommended, or O = Optional                        |
|        | Attributes: <span></span> N = Not Values, P = Pertinent Negatives , L = Nillable, and/or C = Correlation ID |

eCustomResults

|       |   |   |
|-------|---|---|
| 0 : M | eCustomResults.ResultsGroup   | C |
| 1 : 1 | eCustomResults.01 - Custom Data Element Result                          | M |
| 1 : 1 | eCustomResults.02 - Custom Element ID Referenced                        | M |
| 0 : 1 | eCustomResults.03 - CorrelationID of PatientCareReport Element or Group | O |

eCustomResults

**eCustomResults.01 - Custom Data Element Result****Definition**

The actual value or values chosen (if values listed in dCustomConfiguration.06) or result (free text, Date/Time, or number) documented for the Custom Data Element

|                   |           |                          |       |
|-------------------|-----------|--------------------------|-------|
| National Element  | No        | Pertinent Negatives (PN) | No    |
| State Element     | No        | NOT Values               | No    |
| Version 2 Element |           | Is Nillable              | No    |
| Usage             | Mandatory | Recurrence               | 1 : 1 |

**Constraints**

| <b>Data Type</b> | <b>minLength</b> | <b>maxLength</b> |
|------------------|------------------|------------------|
| string           | 1                | 100000           |

**Data Element Comment****Version 3 Changes Implemented**

Added to allow customized data elements to be inserted and collected from within the NEMSIS Version 3 standard.

## eCustomResults.02 - Custom Element ID Referenced

## Definition

References the CustomElementID attribute for dCustomConfiguration.CustomGroup

|                   |           |                          |       |
|-------------------|-----------|--------------------------|-------|
| National Element  | No        | Pertinent Negatives (PN) | No    |
| State Element     | No        | NOT Values               | No    |
| Version 2 Element |           | Is Nillable              | No    |
| Usage             | Mandatory | Recurrence               | 1 : 1 |

## Constraints

|                  |                  |                  |
|------------------|------------------|------------------|
| <b>Data Type</b> | <b>minLength</b> | <b>maxLength</b> |
| string           | 1                | 100000           |

## Data Element Comment

## eCustomResults.03 - CorrelationID of PatientCareReport Element or Group

## Definition

References the CorrelationID attribute of an element or group in the PatientCareReport section

|                   |          |                          |       |
|-------------------|----------|--------------------------|-------|
| National Element  | No       | Pertinent Negatives (PN) | No    |
| State Element     | No       | NOT Values               | No    |
| Version 2 Element |          | Is Nillable              | No    |
| Usage             | Optional | Recurrence               | 0 : 1 |

## Constraints

| Data Type | minLength | maxLength |
|-----------|-----------|-----------|
| string    | 1         | 100000    |

## Data Element Comment

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