

# **NEMSIS**Data Dictionary

## NHTSA Version 3.2.4 Build 120510

# Medical Device Data Standard

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

#### **NEMSIS Data Dictionary Version 3.2.4**

**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 3.2.4 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 3.2.4, 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 Nill.)
- 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 Nill.)
  - 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 3.2.4 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.



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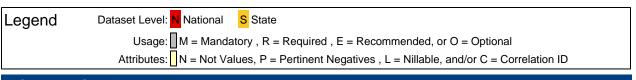
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### MedDeviceDataSet

Legend	Dataset Level: <mark>N</mark> National S State
	Usage: $\square$ M = Mandatory , R = Required , E = Recommended, or O = Optional
	Attributes: N = Not Values, P = Pertinent Negatives , L = Nillable, and/or C = Correlation ID
MedDevi	iceDataSet
0:1 eCusto	mConfiguration
1:1 eMedD	Pevice
0:1 eCusto	mResults
MedDevi	ceDataSet

### **eCustomConfiguration**



#### eCustomConfiguration

) : M	eCus	stomConfiguration.CustomGroup	
	1:1	eCustomConfiguration.01 - Custom Data Element Title	M
	1:1	eCustomConfiguration.02 - Custom Definition	M
	1:1	eCustomConfiguration.03 - Custom Data Type	М
	1:1	eCustomConfiguration.04 - Custom Data Element Recurrence	М
	1:1	eCustomConfiguration.05 - Custom Data Element Usage	M
	0 : M	eCustomConfiguration.06 - Custom Data Element Potential Values	0
	0 : M	eCustomConfiguration.07 - Custom Data Element Potential NOT Values (NV)	0
	0 : M	eCustomConfiguration.08 - Custom Data Element Potential Pertinent Negative Values	<b>M</b>

#### 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

#### 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

Data Type	minLength	maxLength
string	0	255

#### 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

#### 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

CodeDescription9923001No9923003Yes

#### **Data Element Comment**

#### Version 3 Changes Implemented

#### 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

CodeDescription9903001Mandatory9903003Required9903005Recommended9903007Optional

#### **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

#### 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

Data TypeminLengthmaxLengthstring1100

#### **Data Element Comment**

#### Version 3 Changes Implemented

#### eCustomConfiguration.07 - Custom Data Element Potential NOT Values (NV)

#### Definition

#### NOT Values (NV) associated with the custom 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

#### Code List

Description
Not Applicable
Not Recorded
Not Reporting

#### eCustomConfiguration.08 - Custom Data Element Potential Pertinent Negative Values (PN)

#### Definition

#### Pertinent Negative Values (PN) associated with the custom 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

#### Code List

Code	Description
8801001	Contraindication Noted
8801003	Denied By Order
8801005	<b>Exam Finding Not Present</b>
8801007	Medication Allergy
8801009	Medication Already Taken
8801013	No Known Drug Allergy
8801015	None Reported
8801017	Not Performed by EMS
8801019	Refused
8801021	Unresponsive
8801023	Unable to Complete

### **eMedDevice**

S State Legend Dataset Level: N National 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 N S M eMedDevice.01 - (dAgency.01) EMS Agency Unique State ID eMedDevice.02 - (dAgency.02) EMS Agency Number 0:1 0 eMedDevice.03 - (dAgency.03) EMS Agency Name 0:1 eMedDevice.04 - (dAgency.04) EMS Agency State 0:1 eMedDevice.05 - (dDevice.01) Medical Device Serial Number 0 0:1 eMedDevice.06 - (dDevice.02) Medical Device Name or ID 0 0:1 o c eMedDevice.07 - (dDevice.03) Medical Device Type 0 : M eMedDevice.08 - (dDevice.04) Medical Device Manufacturer 0 0:1 0 eMedDevice.09 - (dDevice.05) Medical Device Model Number 0:1 eMedDevice.10 - (eRecord.01) Patient Care Report Number 1:1 eMedDevice.PatientNameGroup 0 eMedDevice.11 - (ePatient.02) Last Name 0:1 eMedDevice.12 - (ePatient.03) First Name 0 0:1 eMedDevice.13 - (ePatient.04) Middle Initial/Name 0 0:1 0 eMedDevice.14 - (ePatient.13) Gender ОС eMedDevice.15 - (ePatient.14) Race 0 : M eMedDevice.PatientAgeGroup 0:1 0 eMedDevice.16 - (ePatient.15) Age 0:1 0 eMedDevice.17 - (ePatient.16) Age Units 0 eMedDevice.18 - (ePatient.17) Date of Birth 0:1 С eMedDevice.VitalsGroup 0 : M 0 eMedDevice.19 - (eVitals.01) Date/Time Vital Signs Taken eMedDevice.CardiacRhythmGroup 0:1 eMedDevice.20 - (eVitals.03) Cardiac Rhythm / Electrocardiography (ECG) 0 : M eMedDevice.21 - (eVitals.04) ECG Type 0:1 o c eMedDevice.22 - (eVitals.05) Method of ECG Interpretation eMedDevice.BloodPressureGroup 0:1 eMedDevice.23 - (eVitals.06) SBP (Systolic Blood Pressure) 0 eMedDevice.24 - (eVitals.07) DBP (Diastolic Blood Pressure) 0:1 eMedDevice.25 - (eVitals.08) Method of Blood Pressure Measurement eMedDevice.26 - (eVitals.09) Mean Arterial Pressure 0 eMedDevice.HeartRateGroup

		0:1	eMedDevice.27 - (eVitals.10) Heart Rate	0
		0:1	eMedDevice.28 - (eVitals.11) Method of Heart Rate Measurement	0
	0:1	еМе	edDevice.29 - (eVitals.12) Pulse Oximetry	
	0:1	еМе	edDevice.30 - (eVitals.14) Respiratory Rate	
	0:1	еМе	edDevice.31 - (eVitals.16) Carbon Dioxide (CO2)	
	0:1	еМе	edDevice.32 - (eVitals.17) Carbon Monoxide (CO)	
	0:1	еМе	edDevice.33 - (eVitals.18) Blood Glucose Level	
	0:1	еМе	dDevice.BodyTempuratureGroup	
		0:1	eMedDevice.34 - (eVitals.24) Temperature	0
		0:1	eMedDevice.35 - (eVitals.25) Temperature Method	0
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0:M	0:1 0:1 0:M 0:1	eMe eMe 0:1 0:1 eMe eMe	eMedDevice.WaveFormGraphicGroup  0:1	
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0 : M	0:1 0:1 0:M 0:1	eMe eMe 0:1 0:1 eMe eMe 0:1	eMedDevice.WaveFormGraphicGroup  0:1 eMedDevice.41 - (eLabs.07) Imaging Study File or Waveform Graphic Type  0:1 eMedDevice.42 - (eLabs.08) Imaging Study File or Waveform Graphic  ce.DeviceGroup  edDevice.43 - (eDevice.01) Medical Device Serial Number  oedDevice.44 - (eDevice.02) Date/Time of Event (per Medical Device)  edDevice.45 - (eDevice.03) Medical Device Event Type  oedDevice.WaveGroup  eMedDevice.46 - (eDevice.04) Medical Device Waveform Graphic Type  eMedDevice.47 - (eDevice.05) Medical Device Waveform Graphic  eMedDevice.48 - (eDevice.06) Medical Device Mode (Manual, AED, Pacing, CO2, O2, DedDevice.49 - (eDevice.07) Medical Device ECG Lead  oedDevice.50 - (eDevice.08) Medical Device ECG Interpretation  oedDevice.ShockGroup  eMedDevice.51 - (eDevice.09) Type of Shock	

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 TypeminLengthmaxLengthstring150

#### **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

riiway daraido riidot rodiatilo riooponoo di Emi di dicito riadina	Airway	<ul> <li>Cardiac Arrest</li> </ul>	Pediatric	Response	STEMI	Stroke	Trauma	
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#### Constraints

Data TypeminLengthmaxLengthstring115

#### **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

eMedDevic	e.03 - EM	S Agenc	v Name

#### Definition

The formal name of the agency.

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

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Airway	<ul> <li>Cardiac Arrest</li> </ul>	Pediatric	Response	STEMI	Stroke	Trauma

#### Constraints

Data Type<br/>stringminLength<br/>2maxLength<br/>100

#### 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	
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#### Constraints

Data Type length 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

#### 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

Data Type	minLength	maxLength
string	2	50

#### 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

Data Type	minLength	maxLength
string	2	50

#### 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

0 0 0 0 0 0 0	
<b>Code</b> 1603001	<b>Description</b> 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 TypeminLengthmaxLengthstring250

#### 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

Data Type	minLength	maxLength
string	2	50

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

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Airway Cardiac Arrest Pediatric Response STEMI Stroke Trauma

#### Constraints

Data TypeminLengthmaxLengthstring332

## 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 TypeminLengthmaxLengthstring150

# 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 TypeminLengthmaxLengthstring150

# 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<br/>stringminLength<br/>1maxLength<br/>50

## 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

Airwav	Cardiac Arrest	Pediatric	Response	STEMI	Stroke	Trauma
Allwav	Caldiac Allesi	regianic	Response	O I E IVII	SHOKE	Hauma

## Code List

CodeDescription9906001Female9906003Male

9906005 Unknown (Unable to Determine)

#### 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

Airwav	Cardiac Arrest	Pediatric	Response	STEMI	Stroke	Trauma
Allway	Galdiac Allesi	redianic	response	O I LIVII	SHOKE	Hauilla

#### **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&lvIID=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

Performance	

Airway Cardiac Arrest Pediatric Response STEMI Stroke Tra	ıuma
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## Constraints

Data Type	mininclusive	maxinclusive
integer	1	120

# 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 Trau	Airway
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# Code List

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

## 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

Data TypeminInclusivemaxInclusivedate1890-01-012050-01-01

## 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** 

 $[0-9]\{4\}-[0-9]\{2\}-[0-9]\{2\}+[0-9]\{2\}-[0-9][2]-[0-9]-[0-9][2]-[0-9][2]-[0-9]-$ 

#### **Data Element Comment**

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

уууу	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		
Т	separator that indicates time-of-day follows		
hh	a two-digit numeral that represents the hour		
1.1	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	nm 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

0 0 0 0 0 0	
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)

## 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**

## Version 3 Changes Implemented

Added to better document ECG results.

<sup>&</sup>quot;Transmission with no interpretation" may be used by EMS Agency Personnel that are not trained to interpret cardiac rhythms.

## 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

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Airway Cardiac Arrest Pediatric STEMI Stroke Trauma

#### Constraints

Data TypeminInclusivemaxInclusiveinteger0500

#### **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

## 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

Data Type	minInclusive	maxInclusive
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

Airwav	Cardiac Arrest	Pediatric	STEMI	Stroke	Trauma	
Allwav	Cardiac Arrest	Pediatric	O I E IVII	Stroke	Trauma	

#### Constraints

Data Type	minInclusive	maxInclusive
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

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Airway Cardiac Arrest Pediatric STEMI Stroke Trauma

## Constraints

Data TypeminInclusivemaxInclusiveinteger0100

## 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

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Airway Cardiac Arrest Pediatric STEMI Stroke Trauma

Constraints

Data Type integer minInclusive maxInclusive 300

## 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

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Airway Cardiac Arrest Pediatric STEMI Stroke Trauma

Constraints

Data Type integer minInclusive maxInclusive 100

## 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

Data TypeminInclusivemaxInclusiveinteger0100

## 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

Data Element Comment

Constraints

Data Type integer minInclusive maxInclusive 2000

NEMSIS Version 3.2.4 Build 120510 eMedDevice.34

## 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

Data Type	totalDigits	fractionDigits	minInclusive	maxInclusive
decimal	3	1	0	50

# 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

## 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

Data Type minInclusive maxInclusive

dateTime 1950-01-01T00:00:00-00:00 2050-01-01T00:00:00-00:00

Pattern

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

#### **Data Element Comment**

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

уууу	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
Т	separator that indicates time-of-day follows
hh	a two-digit numeral that represents the hour
1:1	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 TypeminLengthmaxLengthstring150

## **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

ИRI)

# 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

Data TypeminLengthmaxLengthstring35000

## 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 TypeminLengthmaxLengthstring1255

#### **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

Raster Image formats: http://www.fileinfo.com/filetypes/raster\_image Vector Image formats: 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

Audio: http://en.wikipedia.org/wiki/Audio\_file\_format

Container: http://en.wikipedia.org/wiki/Comparison\_of\_container\_formats

A general list of image formats: http://en.wikipedia.org/wiki/Image\_file\_formats

Mime Types: 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

Data Type	minLength	maxLength
string	2	50

## 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**

 $[0-9]\{4\}-[0-9]\{2\}-[0-9][2]-[0-9]-[0-9][2]-[0-9][2]-[0-9]-$ 

#### **Data Element Comment**

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

уууу	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
Т	separator that indicates time-of-day follows
hh	a two-digit numeral that represents the hour
1:1	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
יבי	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

Description
12-Lead ECG
Analysis (Button Pressed)
CO2
Date Transmitted
Defibrillation
ECG-Monitor
Heart Rate
Invasive Pressure 1
Invasive Pressure 2
No Shock Advised
Non-Invasive BP
Other
Pacing Electrical Capture
Pacing Started
Pacing Stopped
Patient Connected
Power On
Pulse Oximetry
Pulse Rate
Respiratory Rate
Shock Advised
Sync Off
Sync On
Temperature 1
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 TypeminLengthmaxLengthstring1255

#### **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 Raster Image formats: http://www.fileinfo.com/filetypes/raster\_image Vector Image formats: 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

Audio: http://en.wikipedia.org/wiki/Audio\_file\_format

Container: http://en.wikipedia.org/wiki/Comparison\_of\_container\_formats

A general list of image formats: http://en.wikipedia.org/wiki/Image\_file\_formats

Mime Types: 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

# 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

# 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	1		
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

Data TypeminLengthmaxLengthstring12000

# **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<br/>4109001Description<br/>Biphasic4109003Monophasic

eMedDevice.52

# 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

Data Type	totalDigits	fractionDigits	minInclusive	maxInclusive
decimal	5	1	1	9000

eMedDevice.53

# 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 TypeminInclusivemaxInclusiveinteger1100

# eMedDevice.54 - Pacing Rate

# Definition

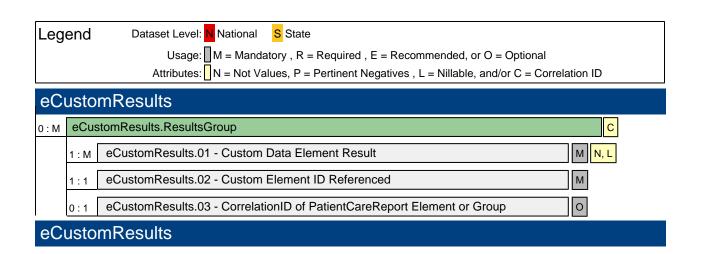
The rate the device was calibrated to pace during the event, if appropriate.

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

Data Type	minInclusive	maxInclusive
integer	1	1000

# **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)	Yes
State Element	No	NOT Values	Yes
Version 2 Element		Is Nillable	Yes
Usage	Mandatory	Recurrence	1 : M

#### **Attributes**

#### **NOT Values (NV)**

#### **Pertinent Negatives (PN)**

NV

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

PΝ

8801001 - Contraindication Noted 8801003 - Denied By Order 8801005 - Exam Finding Not Present 8801007 - Medication Allergy 8801009 - Medication Already Taken 8801013 - No Known Drug Allergy

8801023 - Unable to Complete

8801015 - None Reported 8801017 - Not Performed by EMS 8801019 - Refused

8801021 - Unresponsive

#### Constraints

Data TypeminLengthmaxLengthstring1100000

#### **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

Data TypeminLengthmaxLengthstring1100000

# 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 TypeminLengthmaxLengthstring1100000

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