

**Emergency Medical
Services Patient Care Report
September 2013**



Contents

Acknowledgments.....	
List of Figures.....	ix
 Chapter 1: INTRODUCTION.....	 11
Overview.....	12
Audience.....	12
Scope.....	12
Approach.....	13
Units.....	13
Null and Negative Values.....	13
Null Value Mapping.....	14
Organization of This Guide.....	14
Templates.....	14
Vocabulary and Value Sets.....	14
Use of Templates.....	14
Originator Responsibilities.....	14
Recipient Responsibilities.....	14
Conventions Used in This Guide.....	15
Conformance Requirements.....	15
Keywords.....	16
XML Examples.....	16
 Chapter 2: DOCUMENT TEMPLATES.....	 17
Patient Care Report.....	18
 Chapter 3: SECTION TEMPLATES.....	 25
EMS Advance Directives Section.....	26
EMS Allergies And Adverse Reactions Section.....	26
EMS Billing Section.....	26
EMS Cardiac Arrest Event Section.....	27
EMS Current Medication Section.....	27
EMS Dispatch Section.....	27
EMS Disposition Section.....	28
EMS Injury Incident Description Section.....	29
EMS Medications Administered Section.....	29
EMS Past Medical History Section.....	30
EMS Patient Care Narrative Section.....	30
EMS Personnel Adverse Event Section.....	30
EMS Physical Assessment Section.....	31
EMS Procedures Performed Section.....	32
EMS Protocol Section.....	32
EMS Response Section.....	32
EMS Scene Section.....	33
EMS Situation Section.....	33
EMS Social History Section.....	34
EMS Vital Signs Section.....	34

Times Section.....	35
--------------------	----

Chapter 4: CLINICAL STATEMENT TEMPLATES.....37

Abandoned Procedure Reason Observation.....	41
Abdomen Assessment.....	41
Additional Vital Signs Organizer.....	41
Advance Directive Observation.....	42
Adverse Event Indicator.....	42
Adverse Event Type Observation.....	43
Airbag Deployment Status.....	43
Airway Confirmation Observation.....	43
Arrest Rhythm.....	44
Back And Spine Assessment.....	44
Barriers To Patient Care.....	45
Billing Condition.....	45
Blood Glucose.....	45
Body Temperature.....	46
Call Time.....	46
Candidate Patient Registry Type.....	46
Carbon Dioxide.....	47
Carbon Monoxide.....	47
Cardiac Arrest.....	48
Cardiac Arrest Cause.....	49
Cardiac Arrest With Timing.....	50
Cardiac Rhythm.....	50
Chest And Lungs Assessment.....	51
Complaint.....	51
Complaint Duration.....	52
Complaint Organ System.....	52
Complaint Reported By Dispatch.....	52
Complaint Type.....	53
Current Medication.....	53
Currently On Medication.....	54
Delay Organizer.....	54
Destination Rhythm.....	55
Diastolic Blood Pressure.....	55
Disaster Type.....	55
Dispatch Delay.....	56
Dispatch Location Latitude.....	56
Dispatch Location Longitude.....	56
Dispatch Location Name.....	57
Dispatch Location Organizer.....	57
Dispatch Notified Time.....	58
Drug Use Indication.....	58
EMS Drug Allergy.....	58
EMS Drug Allergy Organizer.....	59
Emergency Medical Dispatch Observation.....	60
Existence Of Drug Allergy Observation.....	60
Existence Of Drug Use Indication.....	61
Existence Of History Of Condition.....	61
Existence Of Non Drug Allergy.....	61
Extremities Assessment.....	62
Eye Assessment.....	62
Face Assessment.....	63
First Unit Indicator.....	63

First Unit On Scene.....	63
Glasgow Coma Score Organizer.....	64
Glasgow Eye.....	64
Glasgow Motor.....	64
Glasgow Qualifier.....	65
Glasgow Total.....	65
Glasgow Verbal.....	65
Head Assessment.....	66
Heart Assessment.....	66
Heart Rate.....	66
Height Of Fall.....	67
History Of Condition.....	67
Incident Disposition Observation.....	68
Initial Patient Acuity.....	68
Injury Cause Category.....	68
Injury Mechanism.....	69
Injury Risk Factor.....	69
Last Oral Intake.....	69
Length Based Patient Body Weight Class.....	70
Level Of Responsiveness.....	70
Level Of Service Observation.....	70
Location Type Observation.....	71
Mass Casualty Indicator.....	71
Medication Administered.....	71
Medication Complication Observation.....	74
Medication Not Administered Reason Observation.....	74
Medication Prior Administration Observation.....	74
Medication Response Observation.....	75
Mental Status Assessment.....	75
Neck Assessment.....	75
Neurological Assessment.....	76
Non Drug Allergy.....	76
Non Drug Allergy Organizer.....	76
Non Drug Allergy Organizer Actually Dreg.....	77
Number Of Patients Transported Observation.....	78
Other Symptoms.....	78
Oxygen Saturation.....	78
Pain Score.....	79
Patient Age.....	79
Patient Arrived At Destination Time.....	79
Patient Body Weight.....	80
Patient Condition Change At Destination Observation.....	80
Patient Location In Vehicle.....	80
Patient On Anticoagulants.....	81
Patient Pregnancy.....	81
Pelvic And Genitourinary Assessment.....	81
Physical Assessment Organizer.....	82
Possible Injury.....	83
Prearival Activation Observation.....	84
Primary Symptom.....	84
Prior AED Use.....	84
Prior Aid Vitals.....	85
Prior CPR.....	85
Procedure.....	86
Procedure Complications Observation.....	88
Procedure Number Of Attempts Observation.....	88

Procedure Patient Response Observation.....	88
Procedure Prior Indicator.....	89
Procedure Successful Observation.....	89
Protocol Age Category.....	89
Protocol Observation.....	90
Provider Primary Impression.....	90
Provider Secondary Impressions.....	90
Reason For Choosing Destination Observation.....	91
Reason Procedure Not Attempted Observation.....	91
Respiratory Rate.....	92
Response Beginning Odometer Reading.....	92
Response Delay.....	92
Response Destination Odometer Reading.....	93
Response Ending Odometer Reading.....	93
Response Mode To Scene.....	93
Response Odometer Reading Organizer.....	94
Response On Scene Odometer Reading.....	94
Return Of Spontaneous Circulation.....	95
Scene Delay.....	95
Scene Patient Count.....	95
Skin Assessment.....	96
Stroke Score.....	96
Systolic Blood Pressure.....	96
Thrombolytic Contraindications.....	97
Transport Delay.....	97
Transport Method Observation.....	98
Transport Mode Observation.....	98
Trauma Center Criteria.....	98
Turnaround Delay.....	99
Unit At Patient Time.....	99
Unit Back In Service Time.....	99
Unit En Route Time.....	100
Unit Left Scene Time.....	100
Unit Notified Time.....	100
Unit On Scene Time.....	101
Vehicle Impact Area.....	101
Vehicle Occupant Safety Equipment.....	101
Vital Signs Organizer.....	102

Chapter 5: VALUE SETS.....103

AED Use Prior To EMS Arrival.....	106
Abdomen Assessment Finding.....	106
Abdominal Finding Location.....	107
Administrative Gender.....	107
Administrative Gender Excluding Nulls.....	107
Advance Directive Type.....	107
Airbag Status.....	108
Airway Device Confirmation Method.....	108
Airway Device Type.....	109
Alcohol Drug Use Indicator.....	109
Anatomic Location.....	109
Back Spine Assessment Finding.....	110
Back Spine Finding Location.....	111
Barrier To Care.....	111
Cardiac Arrest Cause.....	112

Cardiac Arrest Timing.....	112
Cardiac Arrest Witness Role.....	113
Cardiac Rhythm Reading.....	113
Cardiopulmonary Resuscitation Type.....	114
Chest Lung Assessment Finding.....	115
Complaint.....	116
Complaint Type.....	118
Confidentiality.....	118
Destination Choice Reason.....	118
Destination Prearrival Activation.....	118
Destination Type.....	119
Disaster Type.....	119
Dispatch Delay Type.....	120
ECG Type.....	120
EMD Performed.....	121
EMS Level Of Service.....	121
EMS Medication Administration Device.....	122
Ethnicity.....	122
Ethnicity Group.....	122
Existence Of Contraindications To Thrombolytic Use.....	122
Extremities Assessment Finding.....	123
Extremity Finding Location.....	124
Eye Assessment Finding.....	125
Eye Finding Location.....	126
FDA Route of Administration.....	126
Face Assessment Finding.....	127
First Monitored Rhythm.....	127
Glasgow Coma Score Special Circumstances.....	128
HL7 Administrative Gender.....	128
HL7 Confidentiality.....	128
HL7 Human Language.....	128
Head Assessment Finding.....	128
Heart Assessment Finding.....	129
Human language.....	130
IC D-10.....	130
ICD-10 CM.....	130
ICD-10 PCS.....	130
IV Site.....	130
Incident Outcome.....	131
Injury Risk Factor.....	132
LOINC.....	133
Length Based Weight Class.....	133
Level Of Responsiveness.....	133
Mechanism Of Injury.....	133
Medication Administration Route.....	134
Medication Authorization Type.....	135
Medication Complication.....	135
Medication Not Given Reason.....	136
Mental Status Finding.....	137
Method Of ECG Interpretation.....	137
Neck Assessment Finding.....	137
Neurological Assessment Finding.....	138
Non Drug Allergy Type.....	139
Organ System.....	139
Patient Condition Change.....	140
Patient Status.....	140

Pelvis Genitourinary Assessment.....	141
Pregnancy.....	142
Prior Care Provider Role.....	142
Procedure Complication Type.....	142
Protocol.....	143
Protocol Age Category.....	146
Provider Adverse Event Type.....	146
Provider Response Role.....	147
Provider Role.....	147
Provider Role Level.....	148
Race and Ethnicity - CDC.....	148
Race Category.....	148
Reason Procedure not Performed.....	149
Reason Procedure not Performed Superset.....	149
Registry Type.....	149
Response Delay Type.....	150
Resuscitation Not Attempted Reason.....	151
Resuscitation Discontinue Reason.....	151
Return Of Spontaneous Circulation.....	151
Rx Norm.....	151
Safety Equipment Type.....	152
Scene Delay Type.....	152
Service Level.....	153
Service Type.....	153
Skin Assessment.....	154
Stroke Scale.....	154
Stroke Scale Interpretation.....	155
Transport Delay Type.....	155
Transport Method.....	156
Transportation Mode.....	156
Trauma Center Criteria.....	156
Turn Around Delay Type.....	157
Unit Response Role.....	158
Vehicle Impact Area.....	158
Vehicle Passenger Location.....	158
SAMPLE.....	161
REFERENCES.....	177

List of Figures

Figure 1: Template name and "conforms to" appearance..... 15

Figure 2: Template-based conformance statements example..... 15

Figure 3: CCD conformance statements example..... 16

Figure 4: ClinicalDocument example..... 16

Chapter 1

INTRODUCTION

Topics:

- [Overview](#)
- [Audience](#)
- [Scope](#)
- [Approach](#)
- [Organization of This Guide](#)
- [Use of Templates](#)
- [Conventions Used in This Guide](#)

This document is intended to guide software developers in generating CDA-compliant XML patient care reports, also known as run reports, from EMS agency crews to emergency departments and other interested parties. It consists of a set of constraints on the HL7 CDA R2 model mapped to the National EMS Information System (NEMSIS) data elements.

Clinical Document Architecture (CDA) is a standard for information exchange. It is based on the HL7 Reference Information Model, but it constrains that model to a specific set of patterns. This document adds further constraints, so that it specifies not just a generic clinical document, but an Emergency Medical Services (EMS) Patient Care Report—a record of an Emergency Medical Services encounter with a patient.

Further information about CDA is available at HL7.org.

This guide constrains the NEMSIS data set to the HL7 CDA R2 document format. NEMSIS is maintained by the NEMSIS Technical Assistance Center, a US organization funded by the National Highway Transportation Safety Administration, the Centers for Disease Control, and the Health Resources and Services Administration at the University of Utah. The NEMSIS data dictionary is available at www.nemsis.org.

Overview

This implementation guide provides constraints to allow implementers to develop CDA-compliant documents that support a common set of information in the emergency medical services (EMS) domain.

This release covers the provision of information from an EMS crew to a receiving hospital or emergency department. A future release will cover the entire EMS dataset; this document will be a template within that specification.

Audience

The audience for this document is software developers and development organizations who wish to produce or receive EMS patient care reports.

Software developers should use the CDA XML schema to guide their production of EMS patient care reports, subject to the constraints documented in this guide. Mappings of NEMSIS elements to the CDA schema are included in this document, in the "NEMSIS trace" comment. Coded elements should use the vocabularies referred to in the constraints.

The CDA schema is published by Health Level 7, and is available at <http://www.hl7.org/implement/standards>.

This guide defines the information payload only. Implementers are encouraged to coordinate with one another by using the IHE framework (available at <http://www.ihe.net>) to address expected capabilities of participating systems, including security and audit considerations.

Scope

The NEMSIS data specification content has been developed over the past 20 years by a variety of partners. Professional organizations contributing to the content include American Ambulance Association (AAA), American College of Emergency Physicians (ACEP), American College of Surgeons: Committee on Trauma (ACS-COT), American Heart Association (AHA), Emergency Medical Services Outcomes Project (EMSOP), International Association of Fire Chiefs (IAFC), International Association of Fire Fighters (IAFF), National Academy of Emergency Medical Dispatch (NAEMD), National Association of Emergency Medical Technicians (NAEMT), National Association of EMS Physicians (NAEMSP), National Association of State EMS Officers (NASEMSO), National EMS Management Association (NEMSMA, formerly NAEMSQP), and the National Emergency Number Association (NENA). Supporting federal partners include National Highway Traffic Safety Administration (NHTSA), Health Resources and Services Administration (HRSA), Emergency Medical Services for Children Program (EMSC), EMSC National Resource Center (NRC), EMSC National EMSC Data Analysis Resource Center (NEDARC), Centers for Disease Control and Prevention (CDC), Federal Emergency Management Administration (FEMA), and HRSA's Office of Rural Health Policy (ORHP). NEMSIS has been adopted in 46 states and territories and implemented by scores of software providers.

The NEMSIS data set supports many uses, including the transfer of patient care reports from EMS crews to emergency departments, the prepopulation of hospital electronic health records, identification of trauma registry candidates, and preparation of data for submission to NEMSIS for research. The current specification is designed for the first of these use cases.

Implementers may generate the same patient care reports that they generate today and attach them under the CDA header in "level one" documents, or they may populate the structured sections as specified herein.

A separate effort to develop an implementation guide is the Emergency Transfer of Care specified by Integrating the Healthcare Enterprise (IHE) as the level two template 1.3.6.1.4.1.19376.1.5.3.1.1.19.1. These templates may be harmonized in the future; at this point, they are distinct.

Approach

We first transformed the NEMESIS specification into the Emergency Medical Services Domain Analysis Model (EMS DAM), initially balloted through HL7 in May of 2010 and finalized for the release in May 2011. The static part of the analysis model was then constrained to the HL7 Reference Information Model (RIM) in a Domain Information Model (DIM), balloted in January, 2011, and reballoted in September, 2011. After a DSTU period, this guide was balloted to Normative status in the autumn of 2013.

This guide is the first implementable specification developed based on the EMS DIM.

An initial iteration, balloted in May 2011, supports what is commonly termed “level one” CDA compliance, i.e., a document with structured header information containing an unstructured document of some form (whether pdf, image, or other recognized format). In addition, this iteration supported “level two” compliance, in which human-readable text information is provided for sections identified in XML. A sender of a document, however, must choose whether to send the “level one” encapsulated document or the “level two” set of XML sections: a document containing both is not acceptable.

The September, 2011 iteration modeled the sections to “level three,” in which the sections also include detailed, structured information representing the section text. This structured information follows standard patterns in such a way that receiving applications will be able to process specific semantically identified elements for storage in medical records, application of business rules, or other computable services. This iteration also includes changes to the level two template assignments, so the May 2011 informative version is no longer valid.

Harmonization has been approached semantically rather than syntactically. There are clear parallels, but few exact matches, with the CDA Consolidation project—an effort by the Office of the National Coordinator's Standards & Interoperability initiative in collaboration with HL7 to bring together several similar extant CDA specifications. We expect that LOINC codes will offer the ability to identify consistent information elements, even when the structures they inhabit (templates) may be subject to differing requirements. These requirements include elements required in the Consolidated guide but not always available in an EMS setting, elements needed in an EMS setting but not represented in the Consolidated templates, and elements where a code is specific to a clinical setting and an EMS-specific code is needed. Similarly, harmonization with the Emergency Department specification *Data Elements for Emergency Department Systems* (DEEDS) depends on the use of extant or related LOINC codes for shared elements.

This release is generated from UML models developed in the Open Health Tools (OHT) Model-Driven Health Tools (MDHT) project. The data specifications have been formalized into computational models expressed in UML. These models are used by automated tooling to generate this publication, plus validation tools and Java libraries for implementers.

Units

Physical quantities use the HL7 PQ data type, in which units are expressed in the Unified Code for Units of Measure (UCUM; 2.16.840.1.113883.6.8), available at unitsofmeasure.org. Interface values that are not actual physical units are handled differently: see appendix C for mappings.

Null and Negative Values

We use RIM attributes for observations that may require explicit negation or null values. A provider who has checked for signs of drug use can assert that a particular sign was found (with a proper value), that whether there were signs is unknown (with a null) or that there were no signs (with negation).

However, in collections of acts other than observations, epistemological attributes may have uncertain semantics. If a procedure is negated, it may not be clear whether the provider is asserting that the procedure has never been performed on the patient or was not performed in a particular context. Similarly, one may document a history of specific disorders, but including a single, general but negated disorder implies assumptions about the scope of the negated disorder that are not explicitly modeled.

As a result, we manage negation and uncertainty for procedures with explicit Boolean observations. Using an observation allows the clinician to assert a history of zero disorders, or a lack of knowledge about disorders, without tying that assertion to a notional disorder that may imply unanticipated facts or questions.

In the interest of conformance with other guides, we also represent these null and negative acts with null and negated acts, in line with Consolidation Project recommendations. These notional classes should be annotated to ensure that it is clear that they restate the explicit observations, and are not distinct facts.

Null Value Mapping

NEMESIS contains null values not listed in HL7. "Not applicable" maps directly to "Not applicable", but "Not recorded" and "Not reported" must be represented as the general concept "No information". These NEMESIS values may also be copied into Observation.text.

NEMESIS also contains "pertinent negatives", most of which are addressed with negation and special cases in this document. Some of the negative action values, however, are actually null values, and are recorded as "NI", no information. A mapping of negative action values is provided in Appendix B.

Organization of This Guide

The requirements as laid out in the body of this document are subject to change per the policy on implementation guides (see section 13.02 "Draft Standard for Trial Use Documents" within the HL7 Governance and Operations Manual, http://www.hl7.org/documentcenter/public/membership/HL7_Governance_and_Operations_Manual.pdf).

Templates

Templates are organized by document (see Document Templates), by section (see Section Templates), and by clinical statements (see Clinical Statement Templates). Within a section, templates are arranged hierarchically, where a more specific template is nested under the more generic template that it conforms to.

Vocabulary and Value Sets

Vocabularies specified in this guide are derived from standard vocabularies where possible; most questions, however, are fairly specific to the EMS domain. These questions have been encoded in clinical LOINC, and the answer sets have been encoded there as well, and they are included in this document. These values can also be obtained from LOINC.org. We anticipate publishing these value sets in a standard provisioning system, but are on hold pending the current work being done to align LOINC and SNOMED CT.

For properties bound to large value systems (e.g., ICD-10 PCS), NEMESIS provides suggested subsets at NEMESIS.org, under "V3 resources." These are not to be used to validate values (all values in the system are valid), but as suggested aids to providing a manageable user interface. All RxNorm drugs are valid, for instance, but you might wish to provide a selection of drugs commonly found on EMS vehicles for easy selection.

Use of Templates

When valued in an instance, the template identifier (`templateId`) signals the imposition of a set of template-defined constraints. The value of this attribute provides a unique identifier for the templates in question.

Originator Responsibilities

An originator can apply a `templateId` to assert conformance with a particular template.

In the most general forms of CDA exchange, an originator need not apply a `templateId` for every template that an object in an instance document conforms to. This implementation guide asserts when `templateIds` are required for conformance.

Recipient Responsibilities

A recipient may reject an instance that does not contain a particular `templateId` (e.g., a recipient looking to receive only CCD documents can reject an instance without the appropriate `templateId`).

A recipient may process objects in an instance document that do not contain a `templateId` (e.g., a recipient can process entries that contain Observation acts within a Problems section, even if the entries do not have `templateIds`).

Conventions Used in This Guide

Conformance Requirements

Conformance statements are grouped and identified by the name of the template, along with the `templateId` and the context of the template (e.g., ClinicalDocument, section, observation), which specifies the element under constraint. If a template is a specialization of another template, its first constraint indicates the more general template. In all cases where a more specific template conforms to a more general template, asserting the more specific template also implies conformance to the more general template. An example is shown below.

Template name

```
[<type of template>: templateId <XXXX.XX.XXX.XXX>]
```

Description of the template will be here

1. Conforms to <The template name> Template (templateId: XXXX<XX>XXX>YYY).
2. **SHALL** contain [1..1] @classCode = <AAA> <code display name> (CodeSystem: 123.456.789 <XXX> Class) **STATIC** (CONF:<number>).
3.

Figure 1: Template name and "conforms to" appearance

The conformance verb keyword at the start of a constraint (**SHALL** , **SHOULD** , **MAY**, etc.) indicates business conformance, whereas the cardinality indicator (0..1, 1..1, 1..*, etc.) specifies the allowable occurrences within an instance. Thus, " **MAY** contain 0..1" and " **SHOULD** contain 0..1" both allow for a document to omit the particular component, but the latter is a stronger recommendation that the component be included if it is known.

The following cardinality indicators may be interpreted as follows:

- 0..1 as zero to one present
- 1..1 as one and only one present
- 2..2 as two must be present
- 1..* as one or more present
- 0..* as zero to many present

Value set bindings adhere to HL7 Vocabulary Working Group best practices, and include both a conformance verb (**SHALL** , **SHOULD** , **MAY**, etc.) and an indication of **DYNAMIC** vs. **STATIC** binding. The use of **SHALL** requires that the component be valued with a member from the cited value set; however, in every case any HL7 "null" value such as other (OTH) or unknown (UNK) may be used.

Each constraint is uniquely identified (e.g., "CONF:605") by an identifier placed at or near the end of the constraint. These identifiers are not sequential as they are based on the order of creation of the constraint.

1. **SHALL** contain [1..1] component/structuredBody (CONF:4082).
 - a. This component/structuredBody **SHOULD** contain [0..1] component (CONF:4130) such that it
 - a. **SHALL** contain [1..1] Reporting Parameters section (templateId:2.16.840.1.113883.10.20.17.2.1) (CONF:4131).
 - b. This component/structuredBody **SHALL** contain [1..1] component (CONF:4132) such that it
 - a. **SHALL** contain [1..1] Patient data section - NCR (templateId:2.16.840.1.113883.10.20.17.2.5) (CONF:4133).

Figure 2: Template-based conformance statements example

Note that most constraints in this guide do not contain the "such that" phrase, and this could in some cases give the impression that two statements, each of the form "SHALL contain exactly one . . ." are to be in conflict. This is an artifact of the modeling tool: both statements are required, and they are not in conflict.

CCD templates are included within this implementation guide for ease of reference. CCD templates contained within this implementation guide are formatted WITHOUT typical **KEYWORD** and **XML** element styles. A WIKI site is available if you would like to make a comment to be considered for the next release of CCD: http://wiki.hl7.org/index.php?title=CCD_Suggested_Enhancements The user name and password are: wiki/wikiwiki. You will need to create an account to edit the page and add your suggestion.

1. The value for "Observation / @moodCode" in a problem observation SHALL be "EVN"
2.16.840.1.113883.5.1001 ActMood STATIC. (CONF: 814).
2. A problem observation SHALL include exactly one Observation / statusCode. (CONF: 815).
3. The value for "Observation / statusCode" in a problem observation SHALL be "completed"
2.16.840.1.113883.5.14 ActStatus STATIC. (CONF: 816).
4. A problem observation SHOULD contain exactly one Observation / effectiveTime, to indicate the biological timing of condition (e.g. the time the condition started, the onset of the illness or symptom, the duration of a condition). (CONF: 817).

Figure 3: CCD conformance statements example

Keywords

The keywords SHALL, SHALL NOT, SHOULD, SHOULD NOT, MAY, and NEED NOT in this document are to be interpreted as described in the [HL7 Version 3 Publishing Facilitator's Guide](#):

- **SHALL**: an absolute requirement
- **SHALL NOT**: an absolute prohibition against inclusion
- **SHOULD/SHOULD NOT**: valid reasons to include or ignore a particular item, but must be understood and carefully weighed
- **MAY/NEED NOT**: truly optional; can be included or omitted as the author decides with no implications

XML Examples

XML samples appear in this document in a fixed-width font. Portions of the XML content may be omitted from the content for brevity, marked by an ellipsis (...) as shown in the example below.

```
<ClinicalDocument xmlns='urn:hl7-org:v3'>
...
</ClinicalDocument>
```

Figure 4: ClinicalDocument example

XPath expressions are used in the narrative and conformance requirements to identify elements because they are familiar to many XML implementers.

Chapter

2

DOCUMENT TEMPLATES

Topics:

- [Patient Care Report](#)

This section contains the document level constraints for CDA documents that are compliant with this implementation guide.

Patient Care Report

[ClinicalDocument: templateId 2.16.840.1.113883.17.3.10.2]

A report from the EMS crew to the emergency department summarizing the patient's condition and any remedial actions taken

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.2"
2. **SHALL** conform to [Consol General Header Constraints](#) template (templateId: 2.16.840.1.113883.10.20.22.1.1)
3. **SHALL** contain exactly one [1..1] **@classCode**="DOCCLIN" (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:10000)
4. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:10001)
5. **SHALL** contain exactly one [1..1] **id** (CONF:5363)
 - *NEMESIS trace: ERecord.01*
/@root should be the OID for the Agency; @extension the internally assigned ID
6. **SHALL** contain exactly one [1..1] **code** (CONF:5253)/**@code**="67796-3" *EMS patient care report - version 3.1 Document NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10002)
7. **SHALL** contain exactly one [1..1] **title** and **SHALL** equal "EMS Patient Care Report" (CONF:5254)
8. **SHALL** contain exactly one [1..1] **confidentialityCode**, which **SHALL** be selected from ValueSet HL7 BasicConfidentialityKind 2.16.840.1.113883.1.11.16926 **STATIC** (CONF:5259)
 - *Default value is "N" (normal)*
9. **MAY** contain zero or one [0..1] **versionNumber** (CONF:5264)
 - *May be null, and in most cases will not be used. In circumstances where updates are likely, the first instance should be denoted by a versionId of "1."*
10. **SHALL** contain exactly one [1..1] **recordTarget** (CONF:10004)
 - a. This recordTarget **SHALL** conform to [Consol Record Target](#)
 - b. This recordTarget **SHALL** contain exactly one [1..1] **patientRole** (CONF:10870)
 - a. This patientRole **SHALL** conform to [Consol Patient Role](#)
 - b. This patientRole **SHALL** contain at least one [1..*] **addr** (CONF:10031)

NEMESIS Trace
EPatient.05 . . . /PatientRole/addr/streetAddressLine
EPatient.06 . . . /PatientRole/addr/city
EPatient.07 . . . /PatientRole/addr/county
EPatient.08 . . . /PatientRole/addr/state
EPatient.09 . . . /PatientRole/addr/postalCode
EPatient.10 . . . /PatientRole/addr/country
 - c. This patientRole **SHALL** contain at least one [1..*] **id** (CONF:10871)

NEMESIS Trace
EPatient.01: root= the OID for the generating EMS agency, or "NI"
EPatient.12: root=" 2.16.840.1.113883.3.184" (Social Security Administration)
EPatient.20 and EPatient.21: root= the OID for the state department of motor vehicles, found at HL7.org, and reproduced as found in March of 2011 in appendix A.
 - d. This patientRole Contains zero or more [0..*] **telecom**

NEMESIS Trace: EPatient.18
 - e. This patientRole **SHALL** contain exactly one [1..1] **patient** (CONF:10872)

- a. This patient **SHALL** conform to *Consol Patient*
- b. This patient **SHOULD** contain zero or one [0..1] **birthTime** (CONF:10873)

NEMESIS Trace
EPatient.17

- c. This patient **MAY** contain zero or one [0..1] **ethnicGroupCode** (CONF:10874), which **SHALL** be selected from ValueSet *Ethnicity Group* 2.16.840.1.114222.4.11.837 **DYNAMIC** (CONF:10032)

NEMESIS Trace: EPatient.14

- d. This patient **SHOULD** contain zero or more [0..*] **name** (CONF:10875)

NEMESIS Trace
EPatient.02 . . . /PatientRole/Patient/name/family
EPatient.03 . . . /PatientRole/Patient/name/given
EPatient.04 . . . /PatientRole/Patient/name/given

Name sub-elements SHOULD be in the following order: family, given, middle (also "given").
For names from cultures not following the order assumed above, the "family" name SHOULD be populated with whatever name component should be used to sort by. E.g., for a person with a single name, "family" should be used.

- e. This patient **SHALL** contain exactly one [1..1] **raceCode** (CONF:10876), which **SHALL** be selected from ValueSet *RaceCategory* 2.16.840.1.114222.4.11.836 **DYNAMIC** (CONF:10033)

NEMESIS Trace: EPatient.14

NEMESIS collects race and ethnicity in the one-question format (see guidance at http://www.whitehouse.gov/omb/fedreg_1997standards), but the HL7 RIM and, therefore, the CDA schema contain separate elements. It is necessary to populate both CDA fields based on the values selected for the NEMESIS question. Further, the CDA model includes a single race code. In order to support multiple race codes as required by OMB, we adopt a second race code entry from the HL7 SDWG namespace. All documents with a race code must populate the CDA race code; if more than one race code is recorded, then the SDWG element may also be populated. No semantic priority is implied by the element selection.

- f. This patient **MAY** contain zero or more [0..*] **sDTCRaceCode** (CONF:10877), which **SHALL** be selected from ValueSet *RaceCategory* 2.16.840.1.114222.4.11.836 **DYNAMIC** (CONF:10034)

NEMESIS Trace: EPatient.14

- g. This patient **SHALL** contain exactly one [1..1] **administrativeGenderCode** (CONF:10035), which **SHALL** be selected from ValueSet *Administrative Gender Excluding Nulls* **DYNAMIC** (CONF:10878)

NEMESIS Trace: EPatient.13

11. **SHALL** contain at least one [1..*] **author** (CONF:10027)

- a. Such authors **SHALL** conform to *Consol Author*
- b. Such authors **SHALL** contain exactly one [1..1] **assignedAuthor** (CONF:10879)

- a. This assignedAuthor **SHALL** conform to *Consol Assigned Author*
- b. This assignedAuthor **SHALL** contain exactly one [1..1] **id** (CONF:10039)

NEMESIS Trace: EOther.08 for human author; may be null for a software device

- c. This assignedAuthor **SHALL** contain exactly one [1..1] **addr** (CONF:10040)

Required for human author; may be null for a software device
NEMESIS Trace
DPersonnel.04 . . . /AssignedAuthor/addr/streetAddressLine
DPersonnel.05 . . . /AssignedAuthor/addr/city
DPersonnel.06 . . . /AssignedAuthor/addr/state

DPersonnel.07. . . / AssignedAuthor/addr/postalCode

DPersonnel.08. . . / AssignedAuthor/addr/country

- d. This assignedAuthor **SHALL** contain exactly one [1..1] **telecom** (CONF:10041)

Required for human author; may be null for a software device

NEMESIS Trace: DPersonnel.09

- e. This assignedAuthor **MAY** contain zero or one [0..1] **assignedPerson** (CONF:10880)

- a. This assignedPerson **SHALL** conform to *Consol Person*

- b. This assignedPerson **SHALL** contain at least one [1..*] **name** (CONF:5470)

NEMESIS Trace

DPersonnel.01 . . . Person/name/family

DPersonnel.02 . . . Person/name/given

DPersonnel.03 . . . Person/name/given

- f. This assignedAuthor **MAY** contain zero or one [0..1] **assignedAuthoringDevice** (CONF:10881)

One authoring device is required for the document.

- a. This assignedAuthoringDevice **SHALL** conform to *Consol Authoring Device*

- b. This assignedAuthoringDevice **SHALL** contain exactly one [1..1] **manufacturerModelName** (CONF:9936)

NEMESIS Trace: ERecord.02

- c. This assignedAuthoringDevice **SHALL** contain exactly one [1..1] **softwareName** (CONF:9999)

NEMESIS Trace: ERecord.03 and ERecord.04 (version), concatenated with an intervening caret ("^")

One authoring device is required for the document.

12. **SHALL** contain exactly one [1..1] **custodian** (CONF:5519)

- a. This custodian **SHALL** conform to *Consol Custodian*

- b. This custodian **SHALL** contain exactly one [1..1] **assignedCustodian** (CONF:10884)

- a. This assignedCustodian **SHALL** contain exactly one [1..1] **representedCustodianOrganization** (CONF:10885)

- a. This representedCustodianOrganization **SHALL** contain exactly one [1..1] **addr** (CONF:10886)

NEMESIS Trace

DContact.05. . . / representedCustodianOrganization/addr/streetAddressLine

DContact.06 . . . / representedCustodianOrganization/addr/city

DContact.07. . . / representedCustodianOrganization/addr/county

DContact.08. . . / representedCustodianOrganization/addr/state

DContact.09. . . / representedCustodianOrganization/addr/postalCode

DContact.10. . . / representedCustodianOrganization/addr/country

- b. This representedCustodianOrganization **SHALL** contain at least one [1..*] **id** (CONF:10887)

NEMESIS Trace: EResponse.01

@extension is the Agency identifier; @root, if included, the OID of the assigning body

- c. This representedCustodianOrganization **SHALL** contain exactly one [1..1] **name** (CONF:10888)

NEMESIS Trace: EResponse.02

13. **SHALL** contain exactly one [1..1] **participant** (CONF:10030)

- a. This participant **SHALL** contain exactly one [1..1] **@typeCode="DST"** (CONF:10054)

- b. This participant Contains zero or one [0..1] **associatedEntity**

- a. This associatedEntity **SHALL** contain exactly one [1..1] **@classCode="SDLOC"** , which **SHALL** be selected from ValueSet **STATIC** (CONF:10901)

- b. This associatedEntity **SHOULD** contain zero or one [0..1] **addr** (CONF:10055)

NEMESIS Trace: EDisposition.03-07

- c. This associatedEntity **SHALL** contain exactly one [1..1] **code**, which **SHALL** be selected from ValueSet *DestinationType* 2.16.840.1.113883.17.3.11.69 **DYNAMIC** (CONF:10056)

NEMESIS Trace: EDisposition.21

- d. This associatedEntity Contains zero or one [0..1] **scopingOrganization**
 - a. This scopingOrganization **SHALL** contain exactly one [1..1] **name** (CONF:10057)

NEMESIS Trace: EDisposition.01

- 14. **SHALL** contain exactly one [1..1] **documentationOf** (CONF:10028)

- a. This documentationOf **SHALL** contain exactly one [1..1] **serviceEvent** (CONF:10889)
 - a. This serviceEvent **SHALL** contain exactly one [1..1] **code**, which **SHALL** be selected from ValueSet *ServiceType* 2.16.840.1.113883.17.3.11.79 **DYNAMIC** (CONF:10051)

NEMESIS Trace: EResponse.05, type of service requested

- b. This serviceEvent **SHALL** contain exactly one [1..1] **id** (CONF:10890)

NEMESIS Trace: EReponse.03

id/@extension is the incident number assigned by the 911 Dispatch System, where the id/@root SHOULD be the OID of the dispatching organization

- c. This serviceEvent **SHALL** contain at least one [1..*] **performer** (CONF:10891)
 - a. Such performers **SHALL** contain exactly one [1..1] **functionCode**, which **SHALL** be selected from ValueSet *ProviderResponseRole* 2.16.840.1.113883.17.3.11.80 **DYNAMIC** (CONF:10052)

NEMESIS Trace: ECrew.03

- b. Such performers **SHALL** contain exactly one [1..1] **assignedEntity** (CONF:10892)
 - a. This assignedEntity **SHALL** contain exactly one [1..1] **code** (CONF:10893), which **SHALL** be selected from ValueSet *ProviderRoleLevel* 2.16.840.1.113883.17.3.11.81 **DYNAMIC** (CONF:10053)

NEMESIS Trace: ECrew.02

- b. This assignedEntity **SHALL** contain at least one [1..*] **id** (CONF:10894)

NEMESIS Trace: ECrew.01

- c. This assignedEntity **SHALL** contain exactly one [1..1] **addr** (CONF:10895)

NEMESIS Trace

DPersonnel.04 . . . / assignedentity /addr/streetAddressLine

DPersonnel.05. . . / assignedentity /addr/city

DPersonnel.06 . . . / assignedentity /addr/state

DPersonnel.07 . . . / assignedentity /addr/postalCode

DPersonnel.08 . . . / assignedentity /addr/country

- d. This assignedEntity **SHALL** contain exactly one [1..1] **telecom** (CONF:10896)

NEMESIS Trace: DPersonnel.09

- e. This assignedEntity **SHALL** contain exactly one [1..1] **assignedPerson** (CONF:10897)
 - a. This assignedPerson **SHALL** contain exactly one [1..1] **name** (CONF:10898)

NEMESIS Trace

DPersonnel.01 Last: @ENXP="FAM"

DPersonnel.02 First: @ENXP="GIV"

DPersonnel.03 Middle: @ENXP="GIV"

- 15. **MAY** contain zero or one [0..1] **relatedDocument** (CONF:10029)

- a. This relatedDocument Contains exactly one [1..1] **@typeCode="RPLC"**
- b. This relatedDocument **MAY** contain zero or one [0..1] **parentDocument** (CONF:10899)
 - a. This parentDocument **SHALL** contain exactly one [1..1] **id** (CONF:10900)

NEMESIS Trace: ERecord.01

16. SHALL contain exactly one [1..1] **componentOf** (CONF:9955)

- a. This componentOf **SHALL** contain exactly one [1..1] **@typeCode="COMP"** (CONF:10042)
- b. This componentOf **SHALL** contain exactly one [1..1] **encompassingEncounter** (CONF:10882)
 - a. This encompassingEncounter **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:10043)

NEMESIS Trace: ETimes.03, the date the responding unit was notified by dispatch

- b. This encompassingEncounter **SHALL** contain exactly one [1..1] **location** (CONF:10883)
 - a. This location **SHALL** contain exactly one [1..1] **healthCareFacility** (CONF:10044)
 - a. This healthCareFacility **SHALL** contain exactly one [1..1] **id** (CONF:10045)

NEMESIS Trace: EResponse.04

- b. This healthCareFacility **SHALL** contain exactly one [1..1] **location** (CONF:10046)
 - a. This location **SHALL** contain exactly one [1..1] **@classCode="PLC"** (CONF:10050)
 - b. This location **MAY** contain zero or one [0..1] **name** (CONF:10048)

NEMESIS Trace: EScene.13

- c. This location **MAY** contain zero or one [0..1] **addr** (CONF:10049)

NEMESIS Trace: EScene.15-21

- c. This healthCareFacility **SHALL** contain exactly one [1..1] **code**, which **SHALL** be selected from ValueSet [UnitResponseRole](#) 2.16.840.1.113883.17.3.11.82 **DYNAMIC** (CONF:10047)

NEMESIS Trace: EResponse.07

17. SHALL contain exactly one [1..1] **component** (CONF:10008)

- a. Contains exactly one [1..1] [EMS Current Medication Section](#) (templateId: 2.16.840.1.113883.17.3.10.1.15)

18. MAY contain zero or one [0..1] **component** (CONF:10009)

- a. Contains exactly one [1..1] [EMS Cardiac Arrest Event Section](#) (templateId: 2.16.840.1.113883.17.3.10.1.14)

19. SHOULD contain exactly one [1..1] **component** (CONF:10010)

- a. Contains exactly one [1..1] [EMS Advance Directives Section](#) (templateId: 2.16.840.1.113883.17.3.10.1.12)

20. SHALL contain exactly one [1..1] **component** (CONF:10011)

- a. Contains exactly one [1..1] [EMS Allergies And Adverse Reactions Section](#) (templateId: 2.16.840.1.113883.17.3.10.1.13)

21. SHALL contain exactly one [1..1] **component** (CONF:10012)

- a. Contains exactly one [1..1] [EMS Past Medical History Section](#) (templateId: 2.16.840.1.113883.17.3.10.1.19)

22. SHALL contain exactly one [1..1] **component** (CONF:10013)

- a. Contains exactly one [1..1] [EMS Social History Section](#) (templateId: 2.16.840.1.113883.17.3.10.1.22)

23. SHALL contain exactly one [1..1] **component** (CONF:10014)

- a. Contains exactly one [1..1] *EMS Physical Assessment Section* (templateId: 2.16.840.1.113883.17.3.10.1.20)
- 24. **MAY** contain zero or one [0..1] **component** (CONF:10015)
 - a. Contains exactly one [1..1] *EMS Medications Administered Section* (templateId: 2.16.840.1.113883.17.3.10.1.18)
- 25. **SHALL** contain exactly one [1..1] **component** (CONF:10016)
 - a. Contains exactly one [1..1] *EMS Procedures Performed Section* (templateId: 2.16.840.1.113883.17.3.10.1.21)
- 26. **SHALL** contain exactly one [1..1] **component** (CONF:10017)
 - a. Contains exactly one [1..1] *EMS Patient Care Narrative Section* (templateId: 2.16.840.1.113883.17.3.10.1.1)
- 27. **SHALL** contain exactly one [1..1] **component** (CONF:10018)
 - a. Contains exactly one [1..1] *EMS Scene Section* (templateId: 2.16.840.1.113883.17.3.10.1.8)
- 28. **SHALL** contain exactly one [1..1] **component** (CONF:10019)
 - a. Contains exactly one [1..1] *EMS Dispatch Section* (templateId: 2.16.840.1.113883.17.3.10.1.2)
- 29. **MAY** contain zero or one [0..1] **component** (CONF:10020)
 - a. Contains exactly one [1..1] *EMS Disposition Section* (templateId: 2.16.840.1.113883.17.3.10.1.4)
- 30. **SHALL** contain exactly one [1..1] **component** (CONF:10021)
 - a. Contains exactly one [1..1] *EMS Personnel Adverse Event Section* (templateId: 2.16.840.1.113883.17.3.10.1.6)
- 31. **SHALL** contain exactly one [1..1] **component** (CONF:10022)
 - a. Contains exactly one [1..1] *EMS Protocol Section* (templateId: 2.16.840.1.113883.17.3.10.1.7)
- 32. **SHALL** contain exactly one [1..1] **component** (CONF:10023)
 - a. Contains exactly one [1..1] *EMS Response Section* (templateId: 2.16.840.1.113883.17.3.10.1.3)
- 33. **SHALL** contain exactly one [1..1] **component** (CONF:10024)
 - a. Contains exactly one [1..1] *EMS Situation Section* (templateId: 2.16.840.1.113883.17.3.10.1.9)
- 34. **MAY** contain zero or one [0..1] **component** (CONF:10025)
 - a. Contains exactly one [1..1] *Times Section* (templateId: 2.16.840.1.113883.17.3.10.1.10)
- 35. **SHALL** contain exactly one [1..1] **component** (CONF:10026)
 - a. Contains exactly one [1..1] *EMS Vital Signs Section* (templateId: 2.16.840.1.113883.17.3.10.1.23)
- 36. **SHALL** contain exactly one [1..1] **component** (CONF:10869)
 - a. Contains exactly one [1..1] *EMS Injury Incident Description Section* (templateId: 2.16.840.1.113883.17.3.10.1.17)
- 37. **SHOULD** contain zero or more [0..*] **component** (CONF:11318)
 - a. Contains exactly one [1..1] *EMS Billing Section* (templateId: 2.16.840.1.113883.17.3.10.1.5)

Chapter

3

SECTION TEMPLATES

Topics:

- *EMS Advance Directives Section*
- *EMS Allergies And Adverse Reactions Section*
- *EMS Billing Section*
- *EMS Cardiac Arrest Event Section*
- *EMS Current Medication Section*
- *EMS Dispatch Section*
- *EMS Disposition Section*
- *EMS Injury Incident Description Section*
- *EMS Medications Administered Section*
- *EMS Past Medical History Section*
- *EMS Patient Care Narrative Section*
- *EMS Personnel Adverse Event Section*
- *EMS Physical Assessment Section*
- *EMS Procedures Performed Section*
- *EMS Protocol Section*
- *EMS Response Section*
- *EMS Scene Section*
- *EMS Situation Section*
- *EMS Social History Section*
- *EMS Vital Signs Section*
- *Times Section*

EMS Advance Directives Section

[Section: templateId 2.16.840.1.113883.17.3.10.1.12]

Information regarding patient advance directives

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.17.3.10.1.12"
2. **SHALL** contain exactly one [1..1] code/@code="67840-9" EMS advance directives Narrative NEMESIS (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10191)
3. **SHALL** contain exactly one [1..1] title and **SHOULD** equal "EMS advance directives Narrative NEMESIS" (CONF:10944)
4. **SHALL** contain exactly one [1..1] text (CONF:10945)
5. **SHALL** contain at least one [1..*] entry (CONF:10946)
 - a. Contains exactly one [1..1] *Advance Directive Observation* (templateId: 2.16.840.1.113883.17.3.10.1.98)

EMS Allergies And Adverse Reactions Section

[Section: templateId 2.16.840.1.113883.17.3.10.1.13]

Information regarding patient allergies and sensitivities

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.17.3.10.1.13"
2. **SHALL** contain exactly one [1..1] code/@code="48765-2" Allergies and adverse reactions Document (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10196)
3. **SHALL** contain exactly one [1..1] title and **SHOULD** equal "EMS Allergies and Adverse Reactions" (CONF:10948)
4. **SHALL** contain exactly one [1..1] text (CONF:10949)
5. **SHALL** contain exactly one [1..1] entry (CONF:10953)
 - a. Contains exactly one [1..1] *Non Drug Allergy Organizer* (templateId: 2.16.840.1.113883.17.3.10.1.49)
6. **SHALL** contain exactly one [1..1] entry (CONF:11319)
 - a. Contains exactly one [1..1] *EMS Drug Allergy Organizer*

EMS Billing Section

[Section: templateId 2.16.840.1.113883.17.3.10.1.5]

Information pertinent to billing processes

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.17.3.10.1.5"
2. **SHALL** contain exactly one [1..1] code/@code="67659-3" EMS billing Narrative NEMESIS (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10080)
3. **SHALL** contain exactly one [1..1] title and **SHOULD** equal "EMS Billing Section" (CONF:10907)
4. **SHALL** contain exactly one [1..1] text (CONF:10909)

5. **SHALL** contain exactly one [1..1] **entry** (CONF:10910)
 - a. Contains exactly one [1..1] *Billing Condition* (templateId: 2.16.840.1.1133883.17.3.10.1.91)
6. **SHALL** contain exactly one [1..1] **entry** (CONF:10912)
 - a. Contains exactly one [1..1] *Level Of Service Observation* (templateId: 2.16.840.1.1133883.17.3.10.1.92)

EMS Cardiac Arrest Event Section

[Section: templateId 2.16.840.1.1133883.17.3.10.1.14]

Information regarding a cardiac arrest

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.14"
2. **SHALL** contain exactly one [1..1] **code/@code**="67799-7" *EMS cardiac arrest event Narrative NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10134)
3. **SHALL** contain exactly one [1..1] **title** and **SHOULD** equal "EMS Cardiac Arrest Event" (CONF:10937)
4. **SHALL** contain exactly one [1..1] **text** (CONF:10938)
5. **SHALL** contain exactly one [1..1] **entry** (CONF:10939)
 - a. Contains exactly one [1..1] *Cardiac Arrest* (templateId: 2.16.840.1.1133883.17.3.10.1.27)

EMS Current Medication Section

[Section: templateId 2.16.840.1.1133883.17.3.10.1.15]

Information regarding a patient's current medications

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.15"
2. **SHALL** contain exactly one [1..1] **code/@code**="67844-1" *EMS current medications Narrative NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10955)
3. **SHALL** contain exactly one [1..1] **title** and **SHOULD** equal "EMS Current Medications Section" (CONF:10219)
4. **SHALL** contain exactly one [1..1] **text** (CONF:10957)
5. **SHALL** contain exactly one [1..1] **entry** (CONF:10958)
 - a. Contains exactly one [1..1] *Currently On Medication* (templateId: 2.16.840.1.1133883.17.3.10.1.75)
6. **SHALL** contain exactly one [1..1] **entry** (CONF:10960)
 - a. Contains exactly one [1..1] *Patient On Anticoagulants* (templateId: 2.16.840.1.1133883.17.3.10.1.76)
7. **SHALL** contain zero or more [0..*] **entry** (CONF:10962)
 - a. Contains exactly one [1..1] *Current Medication* (templateId: 2.16.840.1.1133883.17.3.10.1.77)

EMS Dispatch Section

[Section: templateId 2.16.840.1.1133883.17.3.10.1.2]

Information regarding the dispatch process

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.2"
2. **SHALL** contain exactly one [1..1] **code**/**@code**="67660-1" *EMS dispatch Narrative NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10556)
3. **SHALL** contain exactly one [1..1] **title** and **SHOULD** equal "EMS Dispatch" (CONF:10558)
4. **SHALL** contain exactly one [1..1] **text** (CONF:10557)
5. **SHALL** contain exactly one [1..1] **entry** (CONF:10991)
 - a. Contains exactly one [1..1] *Emergency Medical Dispatch Observation* (templateId: 2.16.840.1.113883.17.3.10.1.73)
6. **SHALL** contain exactly one [1..1] **entry** (CONF:10993)
 - a. Contains exactly one [1..1] *Complaint Reported By Dispatch* (templateId: 2.16.840.1.113883.17.3.10.1.74)

EMS Disposition Section

[Section: templateId 2.16.840.1.113883.17.3.10.1.4]

Information regarding the disposition of the patient

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.4"
2. **SHALL** contain exactly one [1..1] **code** (CONF:10652)/**@code**="67661-9" *EMS disposition Narrative NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10651)
3. **SHALL** contain exactly one [1..1] **title** and **SHOULD** equal "EMS Disposition" (CONF:10654)
4. **SHALL** contain exactly one [1..1] **text** (CONF:10653)
5. **SHALL** contain exactly one [1..1] **entry** (CONF:11003)
 - a. Contains exactly one [1..1] *Number Of Patients Transported Observation* (templateId: 2.16.840.1.113883.17.3.10.1.31)
6. **SHALL** contain exactly one [1..1] **entry** (CONF:11005)
 - a. Contains exactly one [1..1] *Incident Disposition Observation* (templateId: 2.16.840.1.113883.17.3.10.1.32)
7. **SHALL** contain exactly one [1..1] **entry** (CONF:11007)
 - a. Contains exactly one [1..1] *Transport Mode Observation* (templateId: 2.16.840.1.113883.17.3.10.1.33)
8. **SHALL** contain exactly one [1..1] **entry** (CONF:11009)
 - a. Contains exactly one [1..1] *Transport Method Observation* (templateId: 2.16.840.1.113883.17.3.10.1.34)
9. **SHALL** contain exactly one [1..1] **entry** (CONF:11011)
 - a. Contains exactly one [1..1] *Reason For Choosing Destination Observation* (templateId: 2.16.840.1.113883.17.3.10.1.35)
10. **SHALL** contain exactly one [1..1] **entry** (CONF:11013)
 - a. Contains exactly one [1..1] *Preadmission Activation Observation* (templateId: 2.16.840.1.113883.17.3.10.1.36)
11. **SHALL** contain exactly one [1..1] **entry** (CONF:11015)
 - a. Contains exactly one [1..1] *Patient Condition Change At Destination Observation* (templateId: 2.16.840.1.113883.17.3.10.1.37)

EMS Injury Incident Description Section

[Section: templateId 2.16.840.1.113883.17.3.10.1.17]

Observations concerning a patient's injury mechanism

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.17"
2. **SHALL** contain exactly one [1..1] **code/@code**="67800-3" *EMS injury incident description Narrative NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10094)
3. **SHALL** contain exactly one [1..1] **title** and **SHOULD** equal "Injury Incident Description Section" (CONF:10914)
4. **SHALL** contain exactly one [1..1] **text** (CONF:10916)
5. **SHALL** contain exactly one [1..1] **entry** (CONF:10917)
 - a. Contains exactly one [1..1] *Injury Cause Category* (templateId: 2.16.840.1.113883.17.3.10.1.50)
6. **SHALL** contain exactly one [1..1] **entry** (CONF:10919)
 - a. Contains exactly one [1..1] *Injury Mechanism* (templateId: 2.16.840.1.113883.17.3.10.1.51)
7. **SHALL** contain zero or one [0..1] **entry** (CONF:10921)
 - a. Contains exactly one [1..1] *Trauma Center Criteria* (templateId: 2.16.840.1.113883.17.3.10.1.52)
8. **SHALL** contain zero or one [0..1] **entry** (CONF:10923)
 - a. Contains exactly one [1..1] *Injury Risk Factor* (templateId: 2.16.840.1.113883.17.3.10.1.53)
9. **SHALL** contain zero or one [0..1] **entry** (CONF:10925)
 - a. Contains exactly one [1..1] *Vehicle Impact Area* (templateId: 2.16.840.1.113883.17.3.10.1.54)
10. **SHALL** contain zero or one [0..1] **entry** (CONF:10927)
 - a. Contains exactly one [1..1] *Patient Location In Vehicle* (templateId: 2.16.840.1.113883.17.3.10.1.55)
11. **SHALL** contain zero or one [0..1] **entry** (CONF:10929)
 - a. Contains exactly one [1..1] *Vehicle Occupant Safety Equipment* (templateId: 2.16.840.1.113883.17.3.10.1.56)
12. **SHALL** contain zero or one [0..1] **entry** (CONF:10931)
 - a. Contains exactly one [1..1] *Airbag Deployment Status* (templateId: 2.16.840.1.113883.17.3.10.1.57)
13. **SHALL** contain zero or one [0..1] **entry** (CONF:10933)
 - a. Contains exactly one [1..1] *Height Of Fall* (templateId: 2.16.840.1.113883.17.3.10.1.58)
14. **SHALL** contain zero or one [0..1] **entry** (CONF:10935)
 - a. Contains exactly one [1..1] *Disaster Type* (templateId: 2.16.840.1.113883.17.3.10.1.59)

EMS Medications Administered Section

[Section: templateId 2.16.840.1.113883.17.3.10.1.18]

Collection of information regarding the administration of medications

1. **SHALL** contain exactly one [1..1] **templateId** () such that it

- a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.18"
2. **SHALL** contain exactly one [1..1] **code** (CONF:10439)/**@code**="67849-0" *EMS medications administered Narrative NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10987)
3. **SHALL** contain exactly one [1..1] **title** and **SHOULD** equal "Medications Administered Section" (CONF:10442)
4. **SHALL** contain exactly one [1..1] **text** (CONF:10441)
5. **SHALL** contain zero or more [0..*] **entry** (CONF:10989)
 - a. Contains exactly one [1..1] *Medication Administered* (templateId: 2.16.840.1.113883.17.3.10.1.72)

EMS Past Medical History Section

[Section: templateId 2.16.840.1.113883.17.3.10.1.19]

Collection of information regarding the patient's medical history

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.19"
2. **SHALL** contain exactly one [1..1] **code** (CONF:10059)/**@code**="67842-5" *EMS past medical history Narrative NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10058)
3. **SHALL** contain exactly one [1..1] **title** and **SHOULD** equal "EMS Past Medical History" (CONF:10060)
4. **SHALL** contain exactly one [1..1] **text** (CONF:10902)
5. **SHALL** contain exactly one [1..1] **entry** (CONF:10903)
 - a. Contains exactly one [1..1] *Existence Of History Of Condition* (templateId: 2.16.840.1.113883.17.3.10.1.60)
6. **SHALL** contain zero or more [0..*] **entry** (CONF:10905)
 - a. Contains exactly one [1..1] *History Of Condition* (templateId: 2.16.840.1.113883.17.3.10.1.61)

EMS Patient Care Narrative Section

[Section: templateId 2.16.840.1.113883.17.3.10.1.1]

A narrative description of the EMS encounter

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.1"
2. **SHALL** contain exactly one [1..1] **code** (CONF:10551)/**@code**="67781-5" *Summarization of encounter note Narrative* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10552)
3. **SHALL** contain exactly one [1..1] **title** and **SHOULD** equal "EMS Patient Care Report Narrative" (CONF:10554)
4. **SHALL** contain exactly one [1..1] **text** (CONF:10553)
 - *NEMESIS Trace: ENarrative.01*

EMS Personnel Adverse Event Section

[Section: templateId 2.16.840.1.113883.17.3.10.1.6]

Information regarding adverse events affecting EMS personnel

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.6"
2. **SHALL** contain exactly one [1..1] **code** (CONF:10698)/**@code**="67658-5" *EMS exposures or injuries of EMS personnel Provider Narrative NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10697)
3. **SHALL** contain exactly one [1..1] **title** and **SHOULD** equal "Exposures or Injuries of EMS Personnel" (CONF:10700)
4. **SHALL** contain exactly one [1..1] **text** (CONF:10699)
5. **SHALL** contain exactly one [1..1] **entry** (CONF:11017)
 - a. Contains exactly one [1..1] *Adverse Event Indicator* (templateId: 2.16.840.1.113883.17.3.10.1.89)
6. **SHALL** contain zero or more [0..*] **entry** (CONF:11019)
 - a. Contains exactly one [1..1] *Adverse Event Type Observation* (templateId: 2.16.840.1.113883.17.3.10.1.90)

EMS Physical Assessment Section

[Section: templateId 2.16.840.1.113883.17.3.10.1.20]

A collection of qualitative assessments of the patient's physical condition and other facts

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.20"
2. **SHALL** contain exactly one [1..1] **code** (CONF:10337)/**@code**="29545-1" *Physical findings Narrative* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10336)
3. **SHALL** contain exactly one [1..1] **title** and **SHOULD** equal "EMS Physical Assessment Section" (CONF:10339)
4. **SHALL** contain exactly one [1..1] **text** (CONF:10338)
5. **SHALL** contain exactly one [1..1] **entry** (CONF:10975)
 - a. Contains exactly one [1..1] *Physical Assessment Organizer* (templateId: 2.16.840.1.113883.17.3.10.1.78)
6. **SHALL** contain exactly one [1..1] **entry** (CONF:10977)
 - a. Contains exactly one [1..1] *Patient Pregnancy* (templateId: 2.16.840.1.113883.17.3.10.1.79)
7. **SHALL** contain exactly one [1..1] **entry** (CONF:10979)
 - a. Contains exactly one [1..1] *Last Oral Intake* (templateId: 2.16.840.1.113883.17.3.10.1.80)
8. **SHALL** contain exactly one [1..1] **entry** (CONF:10981)
 - a. Contains exactly one [1..1] *Patient Age* (templateId: 2.16.840.1.113883.17.3.10.1.81)
9. **SHALL** contain exactly one [1..1] **entry** (CONF:10983)
 - a. Contains exactly one [1..1] *Thrombolytic Contraindications* (templateId: 2.16.840.1.113883.17.3.10.1.82)
10. **SHALL** contain exactly one [1..1] **entry** (CONF:10985)
 - a. Contains exactly one [1..1] *Barriers To Patient Care* (templateId: 2.16.840.1.113883.17.3.10.1.83)

EMS Procedures Performed Section

[Section: templateId 2.16.840.1.113883.17.3.10.1.21]

Information regarding procedures performed by the EMS personnel or by others prior to EMS unit arrival

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.17.3.10.1.21"
2. **SHALL** contain exactly one [1..1] **code** (CONF:10490)/@code="29554-3" *Procedure Narrative* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10489)
3. **SHALL** contain exactly one [1..1] **title** and **SHOULD** equal "EMS Procedures Performed" (CONF:10492)
4. **SHALL** contain exactly one [1..1] **text** (CONF:10491)
5. **MAY** contain zero or more [0..*] **entry** (CONF:6277)
 - a. Contains exactly one [1..1] *Procedure* (templateId: 2.16.840.1.113883.17.3.10.1.181)

EMS Protocol Section

[Section: templateId 2.16.840.1.113883.17.3.10.1.7]

Information about the protocol used by EMS personnel to direct the clinical care of the patient

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.17.3.10.1.7"
2. **SHALL** contain exactly one [1..1] **code**/@code="67663-5" *EMS protocol Narrative NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10713)
3. **SHALL** contain exactly one [1..1] **title** and **SHOULD** equal "EMS Protocol Section" (CONF:11021)
4. **SHALL** contain exactly one [1..1] **text** (CONF:11023)
5. **SHALL** contain exactly one [1..1] **entry** (CONF:11024)
 - a. Contains exactly one [1..1] *Protocol Observation* (templateId: 2.16.840.1.113883.17.3.10.1.93)
6. **SHALL** contain exactly one [1..1] **entry** (CONF:11026)
 - a. Contains exactly one [1..1] *Candidate Patient Registry Type* (templateId: 2.16.840.1.113883.17.3.10.1.94)

EMS Response Section

[Section: templateId 2.16.840.1.113883.17.3.10.1.3]

Information regarding the EMS crew's response to dispatch

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.17.3.10.1.3"
2. **SHALL** contain exactly one [1..1] **code** (CONF:10573)/@code="67664-3" *EMS response Narrative NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10572)
3. **SHALL** contain exactly one [1..1] **title** and **SHOULD** equal "EMS Response" (CONF:10575)
4. **SHALL** contain exactly one [1..1] **text** (CONF:10574)
5. **SHALL** contain exactly one [1..1] **entry** (CONF:10995)
 - a. Contains exactly one [1..1] *Delay Organizer* (templateId: 2.16.840.1.113883.17.3.10.1.95)
6. **SHALL** contain exactly one [1..1] **entry** (CONF:10997)

- a. Contains exactly one [1..1] *Dispatch Location Organizer* (templateId: 2.16.840.1.113883.17.3.10.1.96)
- 7. **SHALL** contain exactly one [1..1] **entry** (CONF:10999)
 - a. Contains exactly one [1..1] *Response Odometer Reading Organizer* (templateId: 2.16.840.1.113883.17.3.10.1.97)
- 8. **SHALL** contain exactly one [1..1] **entry** (CONF:11001)
 - a. Contains exactly one [1..1] *Response Mode To Scene* (templateId: 2.16.840.1.113883.17.3.10.1.182)

EMS Scene Section

[Section: templateId 2.16.840.1.113883.17.3.10.1.8]

Information about the environment in which the patient is found

- 1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.8"
- 2. **SHALL** contain exactly one [1..1] **code**/**@code**="67665-0" *EMS scene Narrative NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10732)
- 3. **SHALL** contain exactly one [1..1] **title** and **SHOULD** equal "EMS Scene" (CONF:10734)
- 4. **SHALL** contain exactly one [1..1] **text** (CONF:10733)
- 5. **SHALL** contain exactly one [1..1] **entry** (CONF:11028)
 - a. Contains exactly one [1..1] *First Unit Indicator* (templateId: 2.16.840.1.113883.17.3.10.1.84)
- 6. **SHALL** contain exactly one [1..1] **entry** (CONF:11030)
 - a. Contains exactly one [1..1] *First Unit On Scene* (templateId: 2.16.840.1.113883.17.3.10.1.85)
- 7. **SHALL** contain exactly one [1..1] **entry** (CONF:11032)
 - a. Contains exactly one [1..1] *Scene Patient Count* (templateId: 2.16.840.1.113883.17.3.10.1.86)
- 8. **SHALL** contain exactly one [1..1] **entry** (CONF:11034)
 - a. Contains exactly one [1..1] *Mass Casualty Indicator* (templateId: 2.16.840.1.113883.17.3.10.1.87)
- 9. **SHALL** contain exactly one [1..1] **entry** (CONF:11036)
 - a. Contains exactly one [1..1] *Location Type Observation* (templateId: 2.16.840.1.113883.17.3.10.1.88)

EMS Situation Section

[Section: templateId 2.16.840.1.113883.17.3.10.1.9]

Information about patient symptoms and complaints

- 1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.9"
- 2. **SHALL** contain exactly one [1..1] **code** (CONF:10755)/**@code**="67666-8" *EMS situation Narrative NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10756)
- 3. **SHALL** contain exactly one [1..1] **title** and **SHOULD** equal "EMS Situation Section" (CONF:10758)
- 4. **SHALL** contain exactly one [1..1] **text** (CONF:10757)
- 5. **SHALL** contain at least one [1..*] **entry** (CONF:11039)

- a. Contains exactly one [1..1] *Complaint* (templateId: 2.16.840.1.113883.17.3.10.1.63)
- 6. **SHALL** contain exactly one [1..1] **entry** (CONF:11041)
 - a. Contains exactly one [1..1] *Possible Injury* (templateId: 2.16.840.1.113883.17.3.10.1.64)
- 7. **SHALL** contain exactly one [1..1] **entry** (CONF:11043)
 - a. Contains exactly one [1..1] *Provider Primary Impression* (templateId: 2.16.840.1.113883.17.3.10.1.65)
- 8. **SHALL** contain exactly one [1..1] **entry** (CONF:11045)
 - a. Contains exactly one [1..1] *Primary Symptom* (templateId: 2.16.840.1.113883.17.3.10.1.66)
- 9. **SHALL** contain exactly one [1..1] **entry** (CONF:11047)
 - a. Contains exactly one [1..1] *Other Symptoms* (templateId: 2.16.840.1.113883.17.3.10.1.67)
- 10. **SHALL** contain exactly one [1..1] **entry** (CONF:11049)
 - a. Contains exactly one [1..1] *Provider Secondary Impressions* (templateId: 2.16.840.1.113883.17.3.10.1.68)
- 11. **SHALL** contain exactly one [1..1] **entry** (CONF:11051)
 - a. Contains exactly one [1..1] *Initial Patient Acuity* (templateId: 2.16.840.1.113883.17.3.10.1.69)

EMS Social History Section

[Section: templateId 2.16.840.1.113883.17.3.10.1.22]

Information about the patient's social environment

- 1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.22"
- 2. **SHALL** contain exactly one [1..1] **code** (CONF:10241)/**@code**="67843-3" *EMS social history Narrative NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10240)
- 3. **SHALL** contain exactly one [1..1] **title** and **SHOULD** equal "EMS Social History" (CONF:10243)
- 4. **SHALL** contain exactly one [1..1] **text** (CONF:10964)
- 5. **SHALL** contain exactly one [1..1] **entry** (CONF:10965)
 - a. Contains exactly one [1..1] *Existence Of Drug Use Indication* (templateId: 2.16.840.1.113883.17.3.10.1.70)
- 6. **SHALL** contain zero or more [0..*] **entry** (CONF:10967)
 - a. Contains exactly one [1..1] *Drug Use Indication* (templateId: 2.16.840.1.113883.17.3.10.1.71)

EMS Vital Signs Section

[Section: templateId 2.16.840.1.113883.17.3.10.1.23]

Collection of vital signs and other observations about the patient's status

- 1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.23"
- 2. **SHALL** contain exactly one [1..1] **code**/ **@code**="8716-3" *Vital Signs* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10252)
- 3. **SHALL** contain exactly one [1..1] **title** and **SHOULD** equal "EMS Vital Signs" (CONF:10254)
- 4. **SHALL** contain exactly one [1..1] **text** (CONF:10969)

5. **SHALL** contain at least one [1..*] **entry** (CONF:10970)
 - a. Contains exactly one [1..1] *Vital Signs Organizer* (templateId: 2.16.840.1.1133883.17.3.10.1.28)
6. **SHALL** contain at least one [1..*] **entry** (CONF:10972)
 - a. Contains exactly one [1..1] *Additional Vital Signs Organizer* (templateId: 2.16.840.1.1133883.17.3.10.1.30)

Times Section

[Section: templateId 2.16.840.1.1133883.17.3.10.1.10]

Set of times for defined events in the EMS trip

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.10"
2. **SHALL** contain exactly one [1..1] **code/@code**="67667-6" *EMS times Narrative NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10820)
3. **SHALL** contain exactly one [1..1] **title** and **SHOULD** equal "EMS Times" (CONF:10822)
4. **SHALL** contain exactly one [1..1] **text** (CONF:10821)
5. **SHALL** contain exactly one [1..1] **entry** (CONF:11053)
 - a. Contains exactly one [1..1] *Call Time* (templateId: 2.16.840.1.1133883.17.3.10.1.38)
6. **SHALL** contain exactly one [1..1] **entry** (CONF:11055)
 - a. Contains exactly one [1..1] *Unit Notified Time* (templateId: 2.16.840.1.1133883.17.3.10.1.39)
7. **SHALL** contain exactly one [1..1] **entry** (CONF:11057)
 - a. Contains exactly one [1..1] *Unit En Route Time* (templateId: 2.16.840.1.1133883.17.3.10.1.40)
8. **SHALL** contain exactly one [1..1] **entry** (CONF:11059)
 - a. Contains exactly one [1..1] *Unit On Scene Time* (templateId: 2.16.840.1.1133883.17.3.10.1.41)
9. **SHALL** contain exactly one [1..1] **entry** (CONF:11061)
 - a. Contains exactly one [1..1] *Unit At Patient Time* (templateId: 2.16.840.1.1133883.17.3.10.1.42)
10. **SHALL** contain exactly one [1..1] **entry** (CONF:11063)
 - a. Contains exactly one [1..1] *Unit Left Scene Time* (templateId: 2.16.840.1.1133883.17.3.10.1.43)
11. **SHALL** contain exactly one [1..1] **entry** (CONF:11065)
 - a. Contains exactly one [1..1] *Patient Arrived At Destination Time* (templateId: 2.16.840.1.1133883.17.3.10.1.44)
12. **SHALL** contain exactly one [1..1] **entry** (CONF:11067)
 - a. Contains exactly one [1..1] *Unit Back In Service Time* (templateId: 2.16.840.1.1133883.17.3.10.1.45)
13. **SHALL** contain exactly one [1..1] **entry** (CONF:11069)
 - a. Contains exactly one [1..1] *Dispatch Notified Time* (templateId: 2.16.840.1.1133883.17.3.10.1.46)

Chapter

4

CLINICAL STATEMENT TEMPLATES

Topics:

- *Abandoned Procedure Reason Observation*
- *Abdomen Assessment*
- *Additional Vital Signs Organizer*
- *Advance Directive Observation*
- *Adverse Event Indicator*
- *Adverse Event Type Observation*
- *Airbag Deployment Status*
- *Airway Confirmation Observation*
- *Arrest Rhythm*
- *Back And Spine Assessment*
- *Barriers To Patient Care*
- *Billing Condition*
- *Blood Glucose*
- *Body Temperature*
- *Call Time*
- *Candidate Patient Registry Type*
- *Carbon Dioxide*
- *Carbon Monoxide*
- *Cardiac Arrest*
- *Cardiac Arrest Cause*
- *Cardiac Arrest With Timing*
- *Cardiac Rhythm*
- *Chest And Lungs Assessment*
- *Complaint*
- *Complaint Duration*
- *Complaint Organ System*
- *Complaint Reported By Dispatch*
- *Complaint Type*
- *Current Medication*
- *Currently On Medication*
- *Delay Organizer*
- *Destination Rhythm*

This section of the Implementation Guide details the clinical statement entries referenced in the document section templates. The clinical statement entry templates are arranged alphabetically.

- *Diastolic Blood Pressure*
- *Disaster Type*
- *Dispatch Delay*
- *Dispatch Location Latitude*
- *Dispatch Location Longitude*
- *Dispatch Location Name*
- *Dispatch Location Organizer*
- *Dispatch Notified Time*
- *Drug Use Indication*
- *EMS Drug Allergy*
- *EMS Drug Allergy Organizer*
- *Emergency Medical Dispatch Observation*
- *Existence Of Drug Allergy Observation*
- *Existence Of Drug Use Indication*
- *Existence Of History Of Condition*
- *Existence Of Non Drug Allergy*
- *Extremities Assessment*
- *Eye Assessment*
- *Face Assessment*
- *First Unit Indicator*
- *First Unit On Scene*
- *Glasgow Coma Score Organizer*
- *Glasgow Eye*
- *Glasgow Motor*
- *Glasgow Qualifier*
- *Glasgow Total*
- *Glasgow Verbal*
- *Head Assessment*
- *Heart Assessment*
- *Heart Rate*
- *Height Of Fall*
- *History Of Condition*
- *Incident Disposition Observation*
- *Initial Patient Acuity*
- *Injury Cause Category*
- *Injury Mechanism*
- *Injury Risk Factor*
- *Last Oral Intake*
- *Length Based Patient Body Weight Class*
- *Level Of Responsiveness*
- *Level Of Service Observation*
- *Location Type Observation*

- *Mass Casualty Indicator*
- *Medication Administered*
- *Medication Complication Observation*
- *Medication Not Administered Reason Observation*
- *Medication Prior Administration Observation*
- *Medication Response Observation*
- *Mental Status Assessment*
- *Neck Assessment*
- *Neurological Assessment*
- *Non Drug Allergy*
- *Non Drug Allergy Organizer*
- *Non Drug Allergy Organizer Actually Dreg*
- *Number Of Patients Transported Observation*
- *Other Symptoms*
- *Oxygen Saturation*
- *Pain Score*
- *Patient Age*
- *Patient Arrived At Destination Time*
- *Patient Body Weight*
- *Patient Condition Change At Destination Observation*
- *Patient Location In Vehicle*
- *Patient On Anticoagulants*
- *Patient Pregnancy*
- *Pelvic And Genitourinary Assessment*
- *Physical Assessment Organizer*
- *Possible Injury*
- *Prearrival Activation Observation*
- *Primary Symptom*
- *Prior AED Use*
- *Prior Aid Vitals*
- *Prior CPR*
- *Procedure*
- *Procedure Complications Observation*
- *Procedure Number Of Attempts Observation*
- *Procedure Patient Response Observation*
- *Procedure Prior Indicator*

- *Procedure Successful Observation*
- *Protocol Age Category*
- *Protocol Observation*
- *Provider Primary Impression*
- *Provider Secondary Impressions*
- *Reason For Choosing Destination Observation*
- *Reason Procedure Not Attempted Observation*
- *Respiratory Rate*
- *Response Beginning Odometer Reading*
- *Response Delay*
- *Response Destination Odometer Reading*
- *Response Ending Odometer Reading*
- *Response Mode To Scene*
- *Response Odometer Reading Organizer*
- *Response On Scene Odometer Reading*
- *Return Of Spontaneous Circulation*
- *Scene Delay*
- *Scene Patient Count*
- *Skin Assessment*
- *Stroke Score*
- *Systolic Blood Pressure*
- *Thrombolytic Contraindications*
- *Transport Delay*
- *Transport Method Observation*
- *Transport Mode Observation*
- *Trauma Center Criteria*
- *Turnaround Delay*
- *Unit At Patient Time*
- *Unit Back In Service Time*
- *Unit En Route Time*
- *Unit Left Scene Time*
- *Unit Notified Time*
- *Unit On Scene Time*
- *Vehicle Impact Area*
- *Vehicle Occupant Safety Equipment*
- *Vital Signs Organizer*

Abandoned Procedure Reason Observation

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.130]

An explanation of why efforts to conduct a procedure were abandoned

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.130"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11255)
3. **SHALL** contain exactly one [1..1] code (CONF:10512)/@code="ASSERTION" *Assertion* (CodeSystem: 2.16.840.1.1133883.5.4 HL7ActCode) (CONF:10511)
4. **SHALL** contain exactly one [1..1] value with data type CD (CONF:10514), which **SHALL** be selected from ValueSet [ResuscitationDiscontinueReason](#) 2.16.840.1.1133883.17.3.11.62 **DYNAMIC** (CONF:10513)
 - *NEMESIS Trace: EArrest.16*

Abdomen Assessment

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.117]

Qualitative assessment of condition of patient's abdomen

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.117"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11234)
3. **SHALL** contain exactly one [1..1] code/@code="67530-6" *Physical findings of Abdomen NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10387)
4. **SHALL** contain exactly one [1..1] effectiveTime (CONF:11235)
 - *NEMESIS Trace: EExam.03*
5. **SHALL** contain exactly one [1..1] value with data type CD, which **SHALL** be selected from ValueSet [AbdomenAssessmentFinding](#) 2.16.840.1.1133883.17.3.11.31 **DYNAMIC** (CONF:10388)
 - *NEMESIS Trace: EExam.11*
6. **SHALL** contain exactly one [1..1] targetSiteCode, which **SHALL** be selected from ValueSet [AbdominalFindingLocation](#) 2.16.840.1.1133883.17.3.11.32 **DYNAMIC** (CONF:10389)
 - *NEMESIS Trace: EExam.10*

Additional Vital Signs Organizer

[Organizer: templateId 2.16.840.1.1133883.17.3.10.1.30]

Common observations regarding the state of the patient that are not typically included in strict definitions of vital signs.

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.30"

2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11133)
3. **MAY** contain zero or one [0..1] **effectiveTime** (CONF:11134)
 - *NEMESIS Trace: EVitals.01*
4. **MAY** contain zero or one [0..1] **component** (CONF:11091)
 - a. Contains exactly one [1..1] *Stroke Score* (templateId: 2.16.840.1.113883.17.3.10.1.163)
5. **MAY** contain zero or one [0..1] **component** (CONF:11092)
 - a. Contains exactly one [1..1] *Pain Score* (templateId: 2.16.840.1.113883.17.3.10.1.164)
6. **MAY** contain zero or one [0..1] **component** (CONF:11093)
 - a. Contains exactly one [1..1] *Level Of Responsiveness* (templateId: 2.16.840.1.113883.17.3.10.1.165)
7. **MAY** contain zero or one [0..1] **component** (CONF:11094)
 - a. Contains exactly one [1..1] *Blood Glucose* (templateId: 2.16.840.1.113883.17.3.10.1.166)
8. **MAY** contain zero or one [0..1] **component** (CONF:11095)
 - a. Contains exactly one [1..1] *Carbon Monoxide* (templateId: 2.16.840.1.113883.17.3.10.1.167)
9. **MAY** contain zero or one [0..1] **component** (CONF:11096)
 - a. Contains exactly one [1..1] *Carbon Dioxide* (templateId: 2.16.840.1.113883.17.3.10.1.168)
10. **MAY** contain zero or one [0..1] **component** (CONF:11097)
 - a. Contains exactly one [1..1] *Cardiac Rhythm* (templateId: 2.16.840.1.113883.17.3.10.1.169)
11. **MAY** contain zero or more [0..*] **component** (CONF:11135)
 - a. Contains exactly one [1..1] *Glasgow Coma Score Organizer* (templateId: 2.16.840.1.113883.17.3.10.1.170)

Advance Directive Observation

[Observation: templateId 2.16.840.1.113883.17.3.10.1.98]

Whether an advance directive exists and how it is expressed

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.98"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11152)
3. **SHALL** contain exactly one [1..1] **code/@code**="67516-5" *Advance directive NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10194)
 - *NEMESIS Trace: EHistory.05*
4. **SHALL** contain exactly one [1..1] **value** with data type CD (CONF:11153), which **SHALL** be selected from ValueSet *AdvanceDirectiveType* 2.16.840.1.113883.17.3.11.63 **DYNAMIC** (CONF:11154)

Adverse Event Indicator

[Observation: templateId 2.16.840.1.113883.17.3.10.1.89]

Indication of whether an adverse event occurred involving EMS personnel

1. **SHALL** contain exactly one [1..1] **templateId** () such that it

- a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.89"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11204)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10705)/**@code**="67554-6" *Work related exposure, injury, or death Provider NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10706)
4. **SHALL** contain exactly one [1..1] **value** with data type BL (CONF:10707)
 - *NEMESIS Trace: EOther.05*

Adverse Event Type Observation

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.90]

Kind of adverse event involving EMS personnel

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.90"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11205)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10710)/**@code**="67555-3" *Work related exposure, injury, or death Provider NEMESIS type* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10709)
4. **SHALL** contain exactly one [1..1] **value** with data type CD (CONF:10711), which **SHALL** be selected from ValueSet [ProviderAdverseEventType](#) 2.16.840.1.1133883.17.3.11.72 **DYNAMIC** (CONF:10712)
 - *NEMESIS Trace: EOther.06*

Airbag Deployment Status

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.57]

Airbag presence, deployment, and location

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.57"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11162)
3. **SHALL** contain exactly one [1..1] **code**/**@code**="67500-9" *Airbag deployment NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10126)
4. **SHALL** contain at least one [1..*] **value** with data type CD (CONF:11163), which **SHALL** be selected from ValueSet [AirbagStatus](#) 2.16.840.1.1133883.17.3.11.8 **DYNAMIC** (CONF:10127)
 - *NEMESIS Trace: EInjury.08*

Airway Confirmation Observation

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.175]

Whether airway placement was confirmed, including time and method

1. **SHALL** contain exactly one [1..1] templateId () such that it

- a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.175"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11261)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10542)/**@code**="71576-3" *Airway device placement confirmation NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10541)
4. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:10546)
 - *NEMESIS Trace: EAirway.02. If the confirmation is negated, this SHALL be "NA."*
5. **SHALL** contain exactly one [1..1] **value** with data type BL (CONF:10545)
 - *NEMESIS Trace: if EAirway.02 is populated, this is TRUE*
6. **SHALL** contain exactly one [1..1] **methodCode** (CONF:10544), which **SHALL** be selected from ValueSet [AirwayDeviceConfirmationMethod](#) 2.16.840.1.113883.17.3.11.60 **DYNAMIC** (CONF:10543)
 - *NEMESIS Trace: EAirway.04*

Arrest Rhythm

[Observation: templateId 2.16.840.1.113883.17.3.10.1.127]

First measurement of cardiac rhythm during or shortly after cardiac arrest

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.127"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11251)
3. **SHALL** contain exactly one [1..1] **code**/ **@code**="67512-4" *First monitored rhythm NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10179)
4. **SHALL** contain exactly one [1..1] **value** with data type CD, which **SHALL** be selected from ValueSet [FirstMonitoredRhythm](#) 2.16.840.1.113883.17.3.11.14 **DYNAMIC** (CONF:10180)
 - *NEMESIS Trace: EArrest. 11*

Back And Spine Assessment

[Observation: templateId 2.16.840.1.113883.17.3.10.1.119]

Qualitative assessment of condition of patient's back and spine

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.119"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11238)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10394)/**@code**="67532-2" *Physical findings of Back +Spine NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10393)
4. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:11239)
 - *NEMESIS Trace: EExam.03*
5. **SHALL** contain exactly one [1..1] **value** with data type CD (CONF:10397), which **SHALL** be selected from ValueSet [BackSpineAssessmentFinding](#) 2.16.840.1.113883.17.3.11.34 **DYNAMIC** (CONF:10398)
 - *NEMESIS Trace: EExam.14*

6. **SHALL** contain exactly one [1..1] **targetSiteCode** (CONF:10396), which **SHALL** be selected from ValueSet [BackSpineFindingLocation](#) 2.16.840.1.113883.17.3.11.35 **DYNAMIC** (CONF:10395)
 - *NEMESIS Trace: EExam.13*

Barriers To Patient Care

[Observation: templateId 2.16.840.1.113883.17.3.10.1.83]

Kinds of circumstances limiting provision of care

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.83"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11196)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10435)/**@code**="67515-7" *Barriers to patient care NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10436)
4. **SHALL** contain at least one [1..*] **value** with data type CD (CONF:10437), which **SHALL** be selected from ValueSet [BarrierToCare](#) 2.16.840.1.113883.17.3.11.85 **DYNAMIC** (CONF:10438)
 - *NEMESIS Trace: EHistory.01*

Billing Condition

[Observation: templateId 2.16.840.1.113883.17.3.10.1.91]

Patient condition classified by billing category

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.91"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11207)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10084)/**@code**="67556-1" *EMS condition code NEMESIS (Billing condition)* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10086)
4. **SHALL** contain exactly one [1..1] **value** with data type CD (CONF:10087), which **SHALL** be selected from (CodeSystem: 2.16.840.1.113883.6.90 ICD-10 CM) (CONF:11206)
 - *NEMESIS Trace: EPayment.51*

Blood Glucose

[Observation: templateId 2.16.840.1.113883.17.3.10.1.166]

Patient blood glucose measured as a mass concentration

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.166"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11303)

3. **SHALL** contain exactly one [1..1] **code** (CONF:10300)/**@code**="2339-0" *Glucose [Mass/?volume] in Blood* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10299)
4. **MAY** contain zero or one [0..1] **effectiveTime** (CONF:11304)
 - *NEMESIS Trace: EVitals.01*
5. **SHALL** contain exactly one [1..1] **value** with data type PQ (CONF:10301)
 - *NEMESIS Trace: EVitals.18*
UCUM units will typically be "mg/dl".

Body Temperature

[Observation: templateId 2.16.840.1.113883.17.3.10.1.176]

Patient's body temperature

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.176"
2. **SHALL** conform to *Consol Vital Sign Observation* template (templateId: 2.16.840.1.113883.10.20.22.4.27)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11278)
4. **SHALL** contain exactly one [1..1] **code**/ **@code**="8310-5" *Body temperature* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10289)
5. **MAY** contain zero or one [0..1] **effectiveTime** (CONF:11279)
 - *NEMESIS Trace: EVitals.01*
6. **SHALL** contain exactly one [1..1] **value** (CONF:10290)
 - *NEMESIS Trace: EVitals.24*
UCUM units SHOULD be "Cel".

Call Time

[Observation: templateId 2.16.840.1.113883.17.3.10.1.38]

Time at which the public safety answering point call center is notified of an emergency

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.38"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11143)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10835)/ **@code**="69469-5" *911 call to public safety answering point or other designated entity requesting EMS services [Date and time] Facility NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10834)
4. **SHALL** contain exactly one [1..1] **value** with data type TS (CONF:10836)
 - *NEMESIS Trace: ETimes.01*

Candidate Patient Registry Type

[Observation: templateId 2.16.840.1.113883.17.3.10.1.94]

Kind of patient registry in which it may be appropriate to include the patient

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.94"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11210)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10728)/**@code**="67553-8" *Condition indicating eligibility for illness or injury registry NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10729)
4. **SHALL** contain exactly one [1..1] **value** with data type CD (CONF:10730), which **SHALL** be selected from ValueSet *RegistryType* 2.16.840.1.113883.17.3.11.74 **DYNAMIC** (CONF:10731)
 - *NEMESIS Trace: EOther.02*

Carbon Dioxide

[Observation: templateId 2.16.840.1.113883.17.3.10.1.168]

Measurement of carbon dioxide in patient's bloodstream

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.168"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11307)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10294)/**@code**="19889-5" *Carbon dioxide/Gas.total.at end expiration in Exhaled gas* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10293)
4. **MAY** contain zero or one [0..1] **effectiveTime** (CONF:11308)
 - *NEMESIS Trace: EVitals.01*
5. **SHALL** contain exactly one [1..1] **value** with data type PQ (CONF:10295)
 - *NEMESIS Trace: EVitals.16*
UCUM units will typically be "%".

Carbon Monoxide

[Observation: templateId 2.16.840.1.113883.17.3.10.1.167]

Measurement of carbon monoxide in patient's bloodstream

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.167"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11305)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10297)/**@code**="20563-3" *Carboxyhemoglobin/? Hemoglobin.total in Blood* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10296)
4. **MAY** contain zero or one [0..1] **effectiveTime** (CONF:11306)
 - *NEMESIS Trace: EVitals.01*
5. **SHALL** contain exactly one [1..1] **value** with data type PQ (CONF:10298)
 - *NEMESIS Trace: EVitals.17*
UCUM units will typically be "%".

Cardiac Arrest

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.27]

Characteristics of a patient's cardiac arrest

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.27"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11130)
3. **SHOULD** contain zero or one [0..1] **@negationInd** (CONF:10141)
 - *Populate as true if NEMESIS EArrest.01 = "No"*
4. **SHALL** contain exactly one [1..1] **code/@code**="ASSERTION" *ASSERTION* (CodeSystem: 2.16.840.1.1133883.5.4 HL7ActCode) (CONF:10138)
5. **SHOULD** contain zero or one [0..1] **effectiveTime** (CONF:10139)
 - *NEMESIS Trace: EArrest.14*
6. **SHALL** contain exactly one [1..1] **value** with data type CD/**@code**="410429000" *cardiac arrest* (CodeSystem: 2.16.840.1.1133883.6.96 SNOMEDCT) (CONF:10140)
 - *NEMESIS Trace: EArrest.01*
7. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:10142)
 - a. This entryRelationship **SHALL** contain exactly one [1..1] **@inversionInd**="TRUE" (CONF:10154)
 - b. This entryRelationship **SHALL** contain exactly one [1..1] **@typeCode**="SUBJ" (CONF:10155)
 - c. This entryRelationship **SHALL** contain exactly one [1..1] **observation**, where its type is *Cardiac Arrest Cause* (CONF:10941)
 - a. Contains exactly one [1..1] *Cardiac Arrest Cause* (templateId: 2.16.840.1.1133883.17.3.10.1.124)
8. **MAY** contain zero or one [0..1] **informant** (CONF:10144)
 - a. This informant **SHALL** contain exactly one [1..1] **@typeCode**="INF" (CONF:10158)
 - b. This informant **SHALL** contain exactly one [1..1] **relatedEntity** (CONF:11071)
 - a. This relatedEntity **SHALL** contain exactly one [1..1] **@classCode**="AGNT" (CONF:10159)
 - b. This relatedEntity **SHALL** contain exactly one [1..1] **code**, which **SHALL** be selected from ValueSet *CardiacArrestWitnessRole* 2.16.840.1.1133883.17.3.11.11 **DYNAMIC** (CONF:10160)

NEMESIS Trace: EArrest.04
9. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:10145)
 - a. This entryRelationship **SHALL** contain exactly one [1..1] **@inversionInd**="TRUE" (CONF:10161)
 - b. This entryRelationship **SHALL** contain exactly one [1..1] **@typeCode**="SUBJ" (CONF:10162)
 - c. This entryRelationship **SHALL** contain exactly one [1..1] **observation**, where its type is *Prior CPR* (CONF:10942)
 - a. Contains exactly one [1..1] *Prior CPR* (templateId: 2.16.840.1.1133883.17.3.10.1.125)
10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:10146)
 - a. This entryRelationship **SHALL** contain exactly one [1..1] **@inversionInd**="TRUE" (CONF:10168)
 - b. This entryRelationship **SHALL** contain exactly one [1..1] **@typeCode**="SUBJ" (CONF:10169)
 - c. This entryRelationship **SHALL** contain exactly one [1..1] **observation**, where its type is *Prior AED Use* (CONF:10170)
 - a. Contains exactly one [1..1] *Prior AED Use* (templateId: 2.16.840.1.1133883.17.3.10.1.126)

11. MAY contain zero or one [0..1] **entryRelationship** (CONF:10147)

- a. This entryRelationship **SHALL** contain exactly one [1..1] **@inversionInd="TRUE"** (CONF:10181)
- b. This entryRelationship **SHALL** contain exactly one [1..1] **@typeCode="SUBJ"** (CONF:10182)
- c. This entryRelationship **SHALL** contain exactly one [1..1] **observation**, where its type is *Return Of Spontaneous Circulation* (CONF:10183)
 - a. Contains exactly one [1..1] *Return Of Spontaneous Circulation* (templateId: 2.16.840.1.1133883.17.3.10.1.128)

12. MAY contain zero or more [0..*] **entryRelationship** (CONF:10148)

- a. Such entryRelationships **SHALL** contain exactly one [1..1] **@inversionInd="TRUE"** (CONF:10186)
- b. Such entryRelationships **SHALL** contain exactly one [1..1] **@typeCode="SUBJ"** (CONF:10187)
- c. Such entryRelationships **SHALL** contain exactly one [1..1] **observation**, where its type is *Destination Rhythm* (CONF:10188)
 - a. Contains exactly one [1..1] *Destination Rhythm* (templateId: 2.16.840.1.1133883.17.3.10.1.129)

13. MAY contain zero or one [0..1] **entryRelationship** (CONF:11072)

- a. This entryRelationship **SHALL** contain exactly one [1..1] **@inversionInd="TRUE"** (CONF:10176)
- b. This entryRelationship **SHALL** contain exactly one [1..1] **@typeCode="SUBJ"** (CONF:10177)
- c. This entryRelationship **SHALL** contain exactly one [1..1] **observation**, where its type is *Arrest Rhythm* (CONF:10178)
 - a. Contains exactly one [1..1] *Arrest Rhythm* (templateId: 2.16.840.1.1133883.17.3.10.1.127)

14. Contains zero or more [0..*] **entryRelationship**

- a. Such entryRelationships **SHALL** contain exactly one [1..1] **@inversionInd="TRUE"** (CONF:10149)
- b. Such entryRelationships **SHALL** contain exactly one [1..1] **@typeCode="SUBJ"** (CONF:10151)
- c. Such entryRelationships **Contains** zero or more [0..*] **observation**, where its type is *Cardiac Arrest With Timing*
 - a. Contains exactly one [1..1] *Cardiac Arrest With Timing* (templateId: 2.16.840.1.1133883.17.3.10.1.123)

Cardiac Arrest Cause

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.124]

Kind of event or condition causing cardiac arrest

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.1133883.17.3.10.1.124"**
2. **SHALL** contain exactly one [1..1] **@moodCode="EVN"** *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11246)
3. **SHALL** contain exactly one [1..1] **code/@code="67503-3"** *Cardiac arrest cause NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10156)
4. **SHALL** contain exactly one [1..1] **value** with data type CD, which **SHALL** be selected from ValueSet *CardiacArrestCause* 2.16.840.1.113883.17.3.11.10 **DYNAMIC** (CONF:10157)
 - *NEMESIS Trace: EArrest.02*

Cardiac Arrest With Timing

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.123]

Whether a cardiac arrest occurred before or after arrival of EMS crew

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.123"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11245)
3. **SHALL** contain exactly one [1..1] **code**/**@code**="67502-5" *Cardiac arrest NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10152)
4. **SHALL** contain exactly one [1..1] **value** with data type CD, which **SHALL** be selected from ValueSet [CardiacArrestTiming](#) 2.16.840.1.1133883.17.3.11.91 **DYNAMIC** (CONF:10153)
 - *NEMESIS Trace: EArrest.01*

Cardiac Rhythm

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.169]

Patient's cardiac rhythm classification

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.169"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11309)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10275)/**@code**="67519-9" *Cardiac rhythm NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10274)
4. **MAY** contain zero or one [0..1] **effectiveTime** (CONF:11310)
 - *NEMESIS Trace: EVitals.01*
5. **SHALL** contain exactly one [1..1] **value** with data type CD (CONF:10278), which **SHALL** be selected from ValueSet [CardiacRhythmReading](#) 2.16.840.1.1133883.17.3.11.16 **DYNAMIC** (CONF:10279)
 - *NEMESIS Trace: EVitals.03*
6. **SHALL** contain exactly one [1..1] **methodCode** (CONF:10277), which **SHALL** be selected from ValueSet [MethodOfECGInterpretation](#) 2.16.840.1.1133883.17.3.11.20 **DYNAMIC** (CONF:10276)
 - *NEMESIS Trace: EVitals.05*
7. **SHOULD** contain zero or one [0..1] **participant** (CONF:11127)
 - a. This participant **SHALL** contain exactly one [1..1] **participantRole** (CONF:11128)
 - a. This participantRole **SHALL** contain exactly one [1..1] **playingDevice** (CONF:11129)
 - a. This playingDevice **SHALL** contain exactly one [1..1] **code** (CONF:11311), which **SHALL** be selected from ValueSet [ECGType](#) 2.16.840.1.1133883.17.3.11.19 **DYNAMIC** (CONF:11312)

NEMESIS Trace: EVitals.04

Chest And Lungs Assessment

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.115]

Qualitative assessment of condition of patient's chest and lungs

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.115"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11230)
3. **SHALL** contain exactly one [1..1] **code**/**@code**="67528-0" *Physical findings of Chest+Lungs NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10381)
4. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:11231)
 - *NEMESIS Trace: EExam.03*
5. **SHALL** contain at least one [1..*] **value** with data type CD, which **SHALL** be selected from ValueSet *ChestLungAssessmentFinding* 2.16.840.1.1133883.17.3.11.29 **DYNAMIC** (CONF:10382)
 - *NEMESIS Trace: EExam.08*

Complaint

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.63]

Statement of the problem by the patient or provider, including duration, system, and whether it is the chief complaint

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.63"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11169)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10768)/**@code**="10154-3" *Chief complaint Narrative - Reported* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10769)
4. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:11170)
 - *effectiveTime.low = NEMESIS Trace: ESituation.01*
5. **MAY** contain zero or one [0..1] **value** with data type ST (CONF:10770)
 - *NEMESIS Trace: ESituation.04*
6. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:10771)
 - a. This entryRelationship Contains exactly one [1..1] **observation**, where its type is *Complaint Duration*
 - a. Contains exactly one [1..1] *Complaint Duration* (templateId: 2.16.840.1.1133883.17.3.10.1.139)
7. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:10772)
 - a. This entryRelationship Contains at least one [1..*] **observation**, where its type is *Complaint Type*
 - a. Contains exactly one [1..1] *Complaint Type* (templateId: 2.16.840.1.1133883.17.3.10.1.138)
8. **SHOULD** contain exactly one [1..1] **targetSiteCode** (CONF:10773), which **SHALL** be selected from ValueSet *AnatomicLocation* 2.16.840.1.1133883.17.3.11.76 **DYNAMIC** (CONF:10774)
 - *NEMESIS Trace: ESituation.07*
Complaint site is required if complaint is type "Chief complaint"
9. **SHOULD** contain zero or one [0..1] **entryRelationship** (CONF:10775)

The organ system is required if the complaint is of type "Chief complaint"

- a. This entryRelationship **SHALL** contain exactly one [1..1] **observation**, where its type is [Complaint Organ System](#) (CONF:10782)
 - a. Contains exactly one [1..1] [Complaint Organ System](#) (templateId: 2.16.840.1.113883.17.3.10.1.140)

Complaint Duration

[Observation: templateId 2.16.840.1.113883.17.3.10.1.139]

How long a complaint has lasted

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.17.3.10.1.139"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11268)
3. **SHALL** contain exactly one [1..1] code (CONF:10779)/@code="67491-1" *Duration of chief complaint NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10780)
4. **SHALL** contain exactly one [1..1] **value** with data type PQ (CONF:10781)
 - *NEMESIS Trace: ESituation.05, 06*
Units **SHALL** be selected from UCUM time units (i.e., s, min, h, d, wk, mo, a)

Complaint Organ System

[Observation: templateId 2.16.840.1.113883.17.3.10.1.140]

The system that a complaint seems to affect

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.17.3.10.1.140"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11269)
3. **SHALL** contain exactly one [1..1] code (CONF:10784)/@code="69468-7" *Primary anatomic organ system of chief complaint NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10783)
4. **SHALL** contain exactly one [1..1] **value** with data type CD (CONF:10786), which **SHALL** be selected from ValueSet [OrganSystem](#) 2.16.840.1.113883.17.3.11.77 **DYNAMIC** (CONF:10785)
 - *NEMESIS Trace: ESituation.08*

Complaint Reported By Dispatch

[Observation: templateId 2.16.840.1.113883.17.3.10.1.74]

The complaint that dispatch reported to the responding unit

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.17.3.10.1.74"

2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11187)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10568)/**@code**="67570-2" *Chief complaint per dispatch Reported.dispatch* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10569)
4. **SHALL** contain exactly one [1..1] **value** with data type CD (CONF:10571), which **SHALL** be selected from ValueSet *Complaint* 2.16.840.1.113883.17.3.11.49 **DYNAMIC** (CONF:10570)
 - *NEMESIS Trace: EDispatch.01*

Complaint Type

[Observation: templateId 2.16.840.1.113883.17.3.10.1.138]

Whether a complaint is a chief complaint

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.138"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11266)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10777)/**@code**="72114-2" *Complaint NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10776)
4. **SHALL** contain exactly one [1..1] **value** with data type CD (CONF:10778), which **SHALL** be selected from ValueSet *Complaint Type* 2.16.840.1.113883.17.3.11.94 **DYNAMIC** (CONF:11267)
 - *NEMESIS Trace: ESituation.03*

Current Medication

[SubstanceAdministration: templateId 2.16.840.1.113883.17.3.10.1.77]

A medication a patient is currently taking

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.77"
2. **MAY** contain zero or one [0..1] **@negationInd** (CONF:10233)
 - *If EHistory.12 has the value "None Reported," the value is "True"*
This negation of a notional class is parallel to the explicit question "patient on medication"
3. **MAY** contain zero or one [0..1] **@nullFlavor** (CONF:10234)
 - *If EHistory.12 has the value "Refused" or "Unable to Complete," the value is "NI"; the original value may be recorded in SubstanceAdministration.text.*
This nulled notional class is parallel to the explicit question "patient on medication"
4. **SHOULD** contain zero or one [0..1] **doseQuantity** (CONF:10230)
 - *NEMESIS Trace: EHistory.13, EHistory.14*
5. **SHOULD** contain zero or one [0..1] **routeCode** (CONF:10232), which **SHALL** be selected from ValueSet *MedicationAdministrationRoute* 2.16.840.1.113883.17.3.11.43 **DYNAMIC** (CONF:10231)
 - *NEMESIS Trace: EMedication.15*
6. **SHALL** contain exactly one [1..1] **consumable** (CONF:10235)
 - a. This consumable **SHALL** contain exactly one [1..1] **manufacturedProduct** (CONF:10236)

- a. This manufacturedProduct **SHALL** contain exactly one [1..1] **manufacturedMaterial** (CONF:10237)
- a. This manufacturedMaterial **SHALL** contain zero or one [0..1] **code** (CONF:11191), which **SHALL** be selected from (CodeSystem: 2.16.840.1.113883.6.88 RxNorm) (CONF:11190)

Currently On Medication

[Observation: templateId 2.16.840.1.113883.17.3.10.1.75]

Whether a patient is currently taking medication

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.75"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11188)
3. **SHALL** contain exactly one [1..1] **code/@code**="67791-4" *Does the patient take any medications NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10224)
4. **SHALL** contain exactly one [1..1] **value** with data type BL (CONF:10225)
 - *If EHistory.12 has the value "None Reported," the value is "False"*
If EHistory.12 has the value "Refused" or "Unable to Complete," the value is "NI"; the original value may be recorded in Observation.text.

Delay Organizer

[Organizer: templateId 2.16.840.1.113883.17.3.10.1.95]

Kinds of delays experienced by a responder

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.95"
2. **SHALL** contain exactly one [1..1] **component** (CONF:10583)
 - a. This component **SHALL** contain exactly one [1..1] **observation**, where its type is *Dispatch Delay* (CONF:10588)
NEMESIS Trace: EResponse.08
 - a. Contains exactly one [1..1] *Dispatch Delay* (templateId: 2.16.840.1.113883.17.3.10.1.153)
3. **SHALL** contain exactly one [1..1] **component** (CONF:10584)
 - a. This component **SHALL** contain exactly one [1..1] **observation**, where its type is *Response Delay* (CONF:10593)
 - a. Contains exactly one [1..1] *Response Delay* (templateId: 2.16.840.1.113883.17.3.10.1.154)
4. **SHALL** contain exactly one [1..1] **component** (CONF:10585)
 - a. This component **SHALL** contain exactly one [1..1] **observation**, where its type is *Scene Delay* (CONF:10598)
 - a. Contains exactly one [1..1] *Scene Delay* (templateId: 2.16.840.1.113883.17.3.10.1.155)
5. **SHALL** contain exactly one [1..1] **component** (CONF:10586)
 - a. This component **SHALL** contain exactly one [1..1] **observation**, where its type is *Transport Delay* (CONF:10603)

- a. Contains exactly one [1..1] [Transport Delay](#) (templateId: 2.16.840.1.1133883.17.3.10.1.156)
- 6. **SHALL** contain exactly one [1..1] **component** (CONF:10587)
 - a. This component **SHALL** contain exactly one [1..1] **observation**, where its type is [Turnaround Delay](#) (CONF:10608)
 - a. Contains exactly one [1..1] [Turnaround Delay](#) (templateId: 2.16.840.1.1133883.17.3.10.1.157)

Destination Rhythm

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.129]

Patient's cardiac rhythm classification at destination

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.129"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11254)
3. **SHALL** contain exactly one [1..1] **code/@code**="67519-9" *Cardiac rhythm NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10189)
4. **SHALL** contain exactly one [1..1] **value** with data type CD, which **SHALL** be selected from ValueSet [CardiacRhythmReading](#) 2.16.840.1.1133883.17.3.11.16 **DYNAMIC** (CONF:10190)
 - *NEMESIS Trace: EArrest.17*

Diastolic Blood Pressure

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.144]

Patient's diastolic blood pressure

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.144"
2. **SHALL** conform to [Consol Vital Sign Observation](#) template (templateId: 2.16.840.1.1133883.10.20.22.4.27)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11272)
4. **SHALL** contain exactly one [1..1] **code/@code**="8462-4" *Diastolic blood pressure* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10282)
5. **MAY** contain zero or one [0..1] **effectiveTime** (CONF:11273)
 - *NEMESIS Trace: EVitals.01*
6. **SHALL** contain exactly one [1..1] **value** (CONF:10283)
 - *NEMESIS Trace: EVitals.07*
 - *UCUM units SHOULD be "mm[Hg]"*.

Disaster Type

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.159]

Kind of disaster causing or contributing to the patient's complaint

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.59"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11166)
3. **SHALL** contain exactly one [1..1] **code/@code**="69463-8" *Suspected intentional or unintentional disaster NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10132)
4. **SHALL** contain at least one [1..*] **value** with data type CD, which **SHALL** be selected from ValueSet *DisasterType* 2.16.840.1.1133883.17.3.11.9 **DYNAMIC** (CONF:10133)
 - *NEMESIS Trace: EOther.07*

Dispatch Delay

[Observation: **templateId** 2.16.840.1.1133883.17.3.10.1.153]

Causes of delay to the dispatch process

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.153"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11286)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10590)/**@code**="67480-4" *Dispatch delay NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10589)
4. **SHALL** contain at least one [1..*] **value** with data type CD (CONF:10592), which **SHALL** be selected from ValueSet *DispatchDelayType* 2.16.840.1.1133883.17.3.11.50 **DYNAMIC** (CONF:10591)
 - *NEMESIS Trace: EResponse.08*

Dispatch Location Latitude

[Observation: **templateId** 2.16.840.1.1133883.17.3.10.1.151]

Latitude of the unit when dispatched

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.151"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11284)
3. **SHALL** contain exactly one [1..1] **code/@code**="52002-3" *Ambulance transport, Destination site latitude coordinate* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10620)
4. **SHALL** contain exactly one [1..1] **value** with data type PQ (CONF:10621)
 - *NEMESIS Trace: EResponse.17*
UCUM units SHOULD be "deg". This may require conversion from a parsed "degree + minutes" representation to a decimal representation.

Dispatch Location Longitude

[Observation: **templateId** 2.16.840.1.1133883.17.3.10.1.152]

Longitude of the unit when dispatched

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.152"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11285)
3. **SHALL** contain exactly one [1..1] **code/@code**="52003-1" *Ambulance transport, Destination site longitude coordinate* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10623)
4. **SHALL** contain exactly one [1..1] **value** with data type PQ (CONF:10624)
 - *NEMESIS Trace: EResponse.17*
UCUM units **SHOULD** be "deg". This may require conversion from a parsed "degree + minutes" representation to a decimal representation.

Dispatch Location Name

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.150]

The name or ID of the dispatch center requesting service from the EMS agency

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.150"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11283)
3. **SHALL** contain exactly one [1..1] **code/@code**="69466-1" *Vehicle location Vehicle NEMESIS --at dispatch* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10617)
4. **SHALL** contain exactly one [1..1] **value** with data type ST (CONF:10618)
 - *NEMESIS Trace: EResponse.16*

Dispatch Location Organizer

[Organizer: templateId 2.16.840.1.1133883.17.3.10.1.96]

Information about the location of the unit when dispatched

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.96"
2. **MAY** contain zero or one [0..1] **component** (CONF:10613)
 - a. This component **SHALL** contain exactly one [1..1] **observation**, where its type is [Dispatch Location Name](#) (CONF:10616)
 - a. Contains exactly one [1..1] [Dispatch Location Name](#) (templateId: 2.16.840.1.1133883.17.3.10.1.150)
3. **MAY** contain zero or one [0..1] **component** (CONF:10614)
 - a. This component **SHALL** contain exactly one [1..1] **observation**, where its type is [Dispatch Location Latitude](#) (CONF:10619)
 - a. Contains exactly one [1..1] [Dispatch Location Latitude](#) (templateId: 2.16.840.1.1133883.17.3.10.1.151)
4. **MAY** contain zero or one [0..1] **component** (CONF:10615)

- a. This component **SHALL** contain exactly one [1..1] **observation**, where its type is *Dispatch Location Longitude* (CONF:10622)
- a. Contains exactly one [1..1] *Dispatch Location Longitude* (templateId: 2.16.840.1.1133883.17.3.10.1.152)

Dispatch Notified Time

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.46]

The time the dispatching organization was notified of an emergency

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.46"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11151)
3. **SHALL** contain exactly one [1..1] code (CONF:10867)/@code="69470-3" *Dispatch was notified by the 911 call taker [Date and time] Facility NEMSIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10866)
4. **SHALL** contain exactly one [1..1] **value** with data type TS (CONF:10868)
 - *NEMSIS Trace: ETimes.02*

Drug Use Indication

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.71]

Evidence that a patient has been using alcohol or illicit drugs

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.71"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11179)
3. **SHALL** contain exactly one [1..1] code/@code="67669-2" *Alcohol - drug use NEMSIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10250)
4. **SHALL** contain at least one [1..*] **value** with data type CD, which **SHALL** be selected from ValueSet *AlcoholDrugUseIndicator* 2.16.840.1.1133883.17.3.11.18 **DYNAMIC** (CONF:10251)
 - *NEMSIS Trace: EHistory.17, proper values*

EMS Drug Allergy

[Act: templateId 2.16.840.1.1133883.17.3.10.1.48]

An allergy or sensitivity to a drug.

In the contained observation, as the Consolidated guide specifies, the code is "ASSERTION," and the value selected from 2.16.840.1.1133883.3.88.12.3221.6.2. In this case, the value should be 416098002 (Drug allergy (disorder)), System = SNOMED CT, 2.16.840.1.1133883.6.5.

The drug, to be placed in the participating product, is encoded in RxNorm.

1. **SHALL** contain exactly one [1..1] templateId () such that it

- a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.48"
- 2. **SHALL** contain exactly one [1..1] **participant** (CONF:11126)
 - a. This participant **SHALL** contain exactly one [1..1] **participantRole** (CONF:10208)
 - a. This participantRole **SHALL** contain exactly one [1..1] **playingEntity** (CONF:10209)
 - a. This playingEntity **SHALL** contain exactly one [1..1] **code**, which **SHALL** be selected from (CodeSystem: 2.16.840.1.1133883.6.88 RxNorm) (CONF:11320)

NEMESIS Trace: EHistory.06

EMS Drug Allergy example

```
<act xmlns="urn:hl7-org:v3">
  <templateId root="2.16.840.1.1133883.17.3.10.1.48"/>
  <id root="MDHT" extension="2132169247"/>
  <code code="852885711"/>
  <effectiveTime>
    <low value="2014"/>
    <high value="2014"/>
  </effectiveTime>
  <participant>
    <participantRole>
      <playingEntity>
        <code codeSystem="2.16.840.1.1133883.6.88" codeSystemName="RxNorm"/>
      </playingEntity>
    </participantRole>
  </participant>
</act>
```

EMS Drug Allergy Organizer

[Organizer: templateId null]

- 1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**=""
- 2. **MAY** contain zero or more [0..*] **component**, where its type is *EMS Drug Allergy* (CONF:11323)
 - a. Contains exactly one [1..1] *EMS Drug Allergy* (templateId: 2.16.840.1.1133883.17.3.10.1.48)
- 3. **SHALL** contain exactly one [1..1] **component**, where its type is *Existence Of Drug Allergy Observation* (CONF:11324)
 - a. Contains exactly one [1..1] *Existence Of Drug Allergy Observation* (templateId: 2.16.840.1.1133883.17.3.10.1.102)

EMS Drug Allergy Organizer example

```
<organizer xmlns="urn:hl7-org:v3">
  <id root="MDHT" extension="1396603008"/>
  <statusCode code="completed"/>
  <effectiveTime>
    <low value="2014"/>
    <high value="2014"/>
  </effectiveTime>
  <component>
    <act>
      <templateId root="2.16.840.1.1133883.17.3.10.1.48"/>
      <id root="MDHT" extension="2048702516"/>
```

```

<code code="1330701020"/>
<effectiveTime>
  <low value="2014"/>
  <high value="2014"/>
</effectiveTime>
<participant>
  <participantRole/>
</participant>
</act>
</component>
<component>
  <observation moodCode="EVN">
    <templateId root="2.16.840.1.1133883.17.3.10.1.102"/>
    <id root="MDHT" extension="1879041014"/>
    <code code="67794-8" codeSystem="2.16.840.1.1133883.6.1"
codeSystemName="LOINC" displayName="Does the patient have any medication
allergies NEMESIS"/>
    <effectiveTime>
      <low value="2014"/>
      <high value="2014"/>
    </effectiveTime>
  </observation>
</component>
</organizer>

```

Emergency Medical Dispatch Observation

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.73]

Whether and how emergency medical dispatch was performed

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.73"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11186)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10564)/**@code**="67488-7" *Emergency medical dispatch performed NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10563)
4. **SHALL** contain exactly one [1..1] **value** with data type CD (CONF:10566), which **SHALL** be selected from ValueSet *EMDPerformed* 2.16.840.1.1133883.17.3.11.48 **DYNAMIC** (CONF:10565)
 - *NEMESIS Trace: EDispatch.02*

Existence Of Drug Allergy Observation

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.102]

Indicator of whether patient has any allergies or sensitivities to drugs

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.102"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11213)
3. **SHALL** contain exactly one [1..1] **code**/**@code**="67794-8" *Does the patient have any medication allergies NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10203)
4. **SHALL** contain exactly one [1..1] **value** with data type BL (CONF:10204)

- If NEMESIS EHistory.06 is "No Known Drug Allergies," the value should be FALSE. If it is a proper value, the value should be TRUE. If it is a flavor of null, the appropriate flavor should be used here. See the null table to translate NEMESIS flavors into HL7; original values may be stored in Observation.text.

Existence Of Drug Use Indication

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.70]

Indicator of whether there are indications of alcohol or illicit drug use

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.70"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11177)
3. **SHALL** contain exactly one [1..1] code (CONF:10248)/@code="69757-3" Indications of drug or alcohol use by the patient NEMESIS (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10247)
4. **SHALL** contain exactly one [1..1] value with data type BL (CONF:11178)
 - NEMESIS Trace: EHistory.17, positive, negative, or null values

Existence Of History Of Condition

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.60]

Indicator of whether patient has a history of significant medical conditions

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.60"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11167)
3. **SHALL** contain exactly one [1..1] code/@code="67793-0" Has the patient had any significant medical conditions NEMESIS (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10067)
4. **SHALL** contain exactly one [1..1] value with data type BL (CONF:10068)
 - If NEMESIS EHistory. 08 is "Refused " or "Unable to Complete," the value should be "NI"; the original value may be recorded in Observation.text.
 - If NEMESIS EHistory. 08 is "None Reported," the value should be FALSE.
 - If NEMESIS EHistory. 08 has proper values, the value should be TRUE.

Existence Of Non Drug Allergy

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.103]

Indicator of whether patient has any allergies or sensitivities to materials other than drugs

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.103"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11214)

3. **SHALL** contain exactly one [1..1] **code/@code**="69747-4" *Does the patient have any environmental allergies NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10214)
4. **SHALL** contain exactly one [1..1] **value** with data type BL (CONF:10215)
 - *If NEMESIS EHistory.07 has no values, this is FALSE; otherwise it is TRUE.*

Extremities Assessment

[Observation: templateId 2.16.840.1.113883.17.3.10.1.120]

Qualitative assessment of condition of patient's extremities

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.120"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11240)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10399)/**@code**="67533-0" *Physical findings of Extremity NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10400)
4. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:11241)
 - *NEMESIS Trace: EExam.03*
5. **SHALL** contain exactly one [1..1] **value** with data type CD, which **SHALL** be selected from ValueSet [ExtremitiesAssessmentFinding](#) 2.16.840.1.113883.17.3.11.36 **DYNAMIC** (CONF:10403)
 - *NEMESIS Trace: EExam.16*
6. **MAY** contain exactly one [1..1] **targetSiteCode** (CONF:10402), which **SHALL** be selected from ValueSet [ExtremityFindingLocation](#) 2.16.840.1.113883.17.3.11.37 **DYNAMIC** (CONF:10401)
 - *NEMESIS Trace: EExam.15*

Eye Assessment

[Observation: templateId 2.16.840.1.113883.17.3.10.1.121]

Qualitative assessment of condition of patient's eyes

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.121"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11242)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10405)/**@code**="67534-8" *Physical findings of Eye NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10404)
4. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:11243)
 - *NEMESIS Trace: EExam.03*
5. **SHALL** contain exactly one [1..1] **value** with data type CD (CONF:10408), which **SHALL** be selected from ValueSet [EyeAssessmentFinding](#) 2.16.840.1.113883.17.3.11.38 **DYNAMIC** (CONF:10409)
 - *NEMESIS Trace: EExam.18*
6. **SHALL** contain exactly one [1..1] **targetSiteCode** (CONF:10406), which **SHALL** be selected from ValueSet [EyeFindingLocation](#) 2.16.840.1.113883.17.3.11.39 **DYNAMIC** (CONF:10407)
 - *NEMESIS Trace: EExam.17*

Face Assessment

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.112]

Qualitative assessment of condition of patient's face

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.112"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11224)
3. **SHALL** contain exactly one [1..1] code (CONF:10376)/@code="67526-4" Physical findings of Face NEMESIS (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10375)
4. **SHALL** contain exactly one [1..1] effectiveTime (CONF:11225)
 - NEMESIS Trace: EExam.03
5. **SHALL** contain at least one [1..*] value with data type CD (CONF:10377), which **SHALL** be selected from ValueSet FaceAssessmentFinding 2.16.840.1.1133883.17.3.11.27 DYNAMIC (CONF:10378)
 - NEMESIS Trace: EExam.06

First Unit Indicator

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.84]

Indicator of whether reporter of PCR is the first unit to arrive at the scene

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.84"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11197)
3. **SHALL** contain exactly one [1..1] code (CONF:10741)/@code="67481-2" First EMS unit on scene NEMESIS (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10742)
4. **SHALL** contain exactly one [1..1] value with data type BL (CONF:10743)
 - NEMESIS Trace: EScene.01

First Unit On Scene

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.85]

Name of the first unit to arrive at the scene

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.85"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11198)
3. **SHALL** contain exactly one [1..1] code (CONF:10746)/@code="67481-2" First EMS unit on scene NEMESIS (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10745)
4. **SHALL** contain exactly one [1..1] value with data type ST (CONF:10747)
 - NEMESIS Trace: EScene.02

Glasgow Coma Score Organizer

[Organizer: templateId 2.16.840.1.1133883.17.3.10.1.170]

Collection of Glasgow Coma Score observations

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.170"
2. **SHALL** contain exactly one [1..1] **component** (CONF:10313)
 - a. Contains exactly one [1..1] *Glasgow Eye* (templateId: 2.16.840.1.1133883.17.3.10.1.160)
3. **SHALL** contain exactly one [1..1] **component** (CONF:10314)
 - a. Contains exactly one [1..1] *Glasgow Motor* (templateId: 2.16.840.1.1133883.17.3.10.1.176)
4. **MAY** contain zero or one [0..1] **component** (CONF:10315)
 - a. Contains exactly one [1..1] *Glasgow Qualifier* (templateId: 2.16.840.1.1133883.17.3.10.1.159)
5. **SHOULD** contain zero or one [0..1] **component** (CONF:10316)
 - a. Contains exactly one [1..1] *Glasgow Total* (templateId: 2.16.840.1.1133883.17.3.10.1.158)
6. **SHALL** contain exactly one [1..1] **component** (CONF:10317)
 - a. Contains exactly one [1..1] *Glasgow Verbal* (templateId: 2.16.840.1.1133883.17.3.10.1.162)
7. **MAY** contain zero or one [0..1] **effectiveTime** (CONF:11313)
 - NEMESIS Trace: EVitals.01

Glasgow Eye

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.160]

Glasgow Coma eye score

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.160"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11294)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10325)/@code="9267-6" *Glasgow coma score. eye opening* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10324)
4. **SHALL** contain exactly one [1..1] **value** with data type INT (CONF:10326)
 - NEMESIS Trace: EVitals.19

Glasgow Motor

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.176]

Glasgow Coma motor score

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.176"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11295)

3. **SHALL** contain exactly one [1..1] **code** (CONF:10328)/@**code**="9268-4" *Glasgow coma score.motor* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10329)
4. **SHALL** contain exactly one [1..1] **value** with data type INT (CONF:10330)
 - *NEMESIS Trace: EVitals.21*

Glasgow Qualifier

[Observation: templateId 2.16.840.1.113883.17.3.10.1.159]

Qualifier for Glasgow Coma score

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @**root**="2.16.840.1.113883.17.3.10.1.159"
2. **SHALL** contain exactly one [1..1] @**moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11292)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10322)/@**code**="55285-1" *Glasgow coma score special circumstances* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10321)
4. **MAY** contain zero or more [0..*] **value** with data type CD (CONF:10323), which **SHALL** be selected from ValueSet [GlasgowComaScoreSpecialCircumstances](#) 2.16.840.1.113883.17.3.11.89 **DYNAMIC** (CONF:11293)
 - *NEMESIS Trace: EVitals.22*

Glasgow Total

[Observation: templateId 2.16.840.1.113883.17.3.10.1.158]

Total Glasgow Coma score

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @**root**="2.16.840.1.113883.17.3.10.1.158"
2. **SHALL** contain exactly one [1..1] @**moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11291)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10319)/@**code**="9269-2" *Glasgow coma score.total* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10318)
4. **SHALL** contain exactly one [1..1] **value** with data type INT (CONF:10320)
 - *NEMESIS Trace: EVitals.23*
Integer value equal to the sum of verbal, motor, and eye

Glasgow Verbal

[Observation: templateId 2.16.840.1.113883.17.3.10.1.162]

Glasgow Coma verbal score

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @**root**="2.16.840.1.113883.17.3.10.1.162"
2. **SHALL** contain exactly one [1..1] @**moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11296)

3. **SHALL** contain exactly one [1..1] **code** (CONF:10332)/@code="9270-0" *Glasgow coma score.verbal* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10333)
4. **SHALL** contain exactly one [1..1] **value** with data type INT (CONF:10334)
 - *NEMESIS Trace: EVitals.20*

Head Assessment

[Observation: templateId 2.16.840.1.113883.17.3.10.1.113]

Qualitative assessment of condition of patient's head

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.17.3.10.1.113"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11226)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10373)/@code="67525-6" *Physical findings of Head NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10372)
4. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:11227)
 - *NEMESIS Trace: EExam.03*
5. **SHALL** contain at least one [1..*] **value** with data type CD, which **SHALL** be selected from ValueSet [HeadAssessmentFinding](#) 2.16.840.1.113883.17.3.11.26 **DYNAMIC** (CONF:10374)
 - *NEMESIS Trace: EExam.05*

Heart Assessment

[Observation: templateId 2.16.840.1.113883.17.3.10.1.116]

Qualitative assessment of condition of patient's heart

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.17.3.10.1.116"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11232)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10384)/@code="67529-8" *Physical findings of Heart NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10383)
4. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:11233)
 - *NEMESIS Trace: EExam.03*
5. **SHALL** contain at least one [1..*] **value** with data type CD (CONF:10385), which **SHALL** be selected from ValueSet [HeartAssessmentFinding](#) 2.16.840.1.113883.17.3.11.30 **DYNAMIC** (CONF:10386)
 - *NEMESIS Trace: EExam.09*

Heart Rate

[Observation: templateId 2.16.840.1.113883.17.3.10.1.145]

Measurement of rate of heartbeat

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.145"
2. **SHALL** conform to *Consol Vital Sign Observation* template (**templateId**: 2.16.840.1.1133883.10.20.22.4.27)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11274)
4. **SHALL** contain exactly one [1..1] **code** (CONF:10285)/**@code**="8867-4" *Heart rate* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10284)
5. **MAY** contain zero or one [0..1] **effectiveTime** (CONF:11275)
 - *NEMESIS Trace: EVitals.01*
6. **SHALL** contain exactly one [1..1] **value** (CONF:10286)
 - *NEMESIS Trace: EVitals.10*
UCUM units SHOULD be "/min".

Height Of Fall

[Observation: **templateId** 2.16.840.1.1133883.17.3.10.1.58]

Distance patient fell, if injury is fall-related

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.58"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11164)
3. **SHALL** contain exactly one [1..1] **code**/ **@code**="67501-7" *Height of fall NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10129)
4. **SHALL** contain exactly one [1..1] **value** with data type PQ (CONF:11165)
 - *NEMESIS Trace: EInjury.09*
Units SHOULD be in feet ('ft_i')

History Of Condition

[Observation: **templateId** 2.16.840.1.1133883.17.3.10.1.61]

Medical conditions the patient has or has had

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.61"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11168)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10070)/**@code**="68487-8" *Medical - surgical history - ICD-9 and 10 codes* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10069)
4. **SHALL** contain exactly one [1..1] **value** with data type CD (CONF:10072), which **SHALL** be selected from (CodeSystem: 2.16.840.1.1133883.6.90 ICD-10 CM) (CONF:10071)
 - *NEMESIS Trace: EHistory. 08*
If NEMESIS EHistory.08 is "No bleeding disorder," the value should be the appropriate ICD-10 code (D66, D67, D68) and negationIndicator should be TRUE.

Incident Disposition Observation

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.32]

Outcome of incident, including disposition of patient and other outcomes

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.32"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11137)
3. **SHALL** contain exactly one [1..1] code (CONF:10669)/@code="67548-8" *Incident - patient disposition NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10668)
4. **SHALL** contain exactly one [1..1] value with data type CD (CONF:10670), which **SHALL** be selected from ValueSet *IncidentOutcome* 2.16.840.1.1133883.17.3.11.64 **DYNAMIC** (CONF:10671)
 - *NEMESIS Trace: EDisposition.12*

Initial Patient Acuity

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.69]

Patient condition indicating urgency of treatment on arrival at patient

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.69"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11176)
 - *NEMESIS Trace: ESituation.13*
3. **SHALL** contain exactly one [1..1] code (CONF:10816)/@code="67493-7" *Initial patient acuity NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10817)
4. **SHALL** contain exactly one [1..1] value with data type CD (CONF:10818), which **SHALL** be selected from ValueSet *PatientStatus* 2.16.840.1.1133883.17.3.11.78 **DYNAMIC** (CONF:10819)

Injury Cause Category

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.50]

Mechanism causing injury

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.50"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11155)
3. **SHALL** contain exactly one [1..1] code/@code="69543-7" *Cause of injury NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10106)
4. **SHALL** contain exactly one [1..1] value with data type CD, which **SHALL** be selected from (CodeSystem: 2.16.840.1.1133883.6.90 ICD-10 CM) (CONF:10108)
 - *NEMESIS Trace: EInjury.01*
Causes are in ICD-10 chapter XX

Injury Mechanism

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.51]

General classification of physical force causing injury

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.51"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11156)
3. **SHALL** contain exactly one [1..1] code/@code="67494-5" *General mechanism of the forces which caused the injury NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10109)
4. **SHALL** contain exactly one [1..1] value with data type CD, which **SHALL** be selected from ValueSet [MechanismOfInjury](#) 2.16.840.1.1133883.17.3.11.1 **DYNAMIC** (CONF:10110)
 - *NEMESIS Trace: EInjury.02*

Injury Risk Factor

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.53]

Factors predictive of need for trauma center care

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.53"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11158)
3. **SHALL** contain exactly one [1..1] code/@code="67496-0" *Other injury risk factors NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10114)
4. **SHALL** contain at least one [1..*] value with data type CD, which **SHALL** be selected from ValueSet [InjuryRiskFactor](#) 2.16.840.1.1133883.17.3.11.4 **DYNAMIC** (CONF:10115)
 - *NEMESIS Trace: EInjury.04*

Last Oral Intake

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.80]

Time of patient's last oral intake

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.80"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11193)
3. **SHALL** contain exactly one [1..1] code (CONF:10423)/@code="67517-3" *Last oral intake [Date and time] NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10424)
4. **SHALL** contain exactly one [1..1] value with data type TS (CONF:10425)
 - *NEMESIS Trace: EHistory.19*

Length Based Patient Body Weight Class

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.110]

Classification of patient weight based on length

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.110"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11221)
3. **SHALL** contain exactly one [1..1] code (CONF:10366)/@code="67670-0" Length-based tape measure category NEMESIS (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10365)
4. **SHALL** contain exactly one [1..1] effectiveTime (CONF:11222)
 - NEMESIS Trace: EExam.03
5. **SHALL** contain exactly one [1..1] value with data type CD, which **SHALL** be selected from ValueSet [LengthBasedWeightClass](#) 2.16.840.1.1133883.17.3.11.24 DYNAMIC (CONF:10367)
 - NEMESIS Trace: EExam.02.
 - Note: a license is required to implement the Broselow-Luten measure.

Level Of Responsiveness

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.165]

Patient's responsiveness

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.165"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11301)
3. **SHALL** contain exactly one [1..1] code (CONF:10303)/@code="67775-7" Level of responsiveness NEMESIS (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10302)
4. **MAY** contain zero or one [0..1] effectiveTime (CONF:11302)
 - NEMESIS Trace: EVitals.01
5. **SHALL** contain exactly one [1..1] value with data type CD (CONF:10305), which **SHALL** be selected from ValueSet [LevelOfResponsiveness](#) 2.16.840.1.1133883.17.3.11.21 DYNAMIC (CONF:10304)
 - NEMESIS Trace: EVitals.26

Level Of Service Observation

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.92]

CMS classification of service level for billing purposes

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.92"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11208)

3. **SHALL** contain exactly one [1..1] **code** (CONF:10090)/**@code**="69464-6" *Centers for medicare - medicaid, CMS, service level NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10091)
4. **SHALL** contain exactly one [1..1] **value** with data type CD (CONF:10092), which **SHALL** be selected from ValueSet *EMSLevelOfService* 2.16.840.1.113883.17.3.11.70 **DYNAMIC** (CONF:10093)
 - *NEMESIS Trace: EPayment.50*

Location Type Observation

[Observation: templateId 2.16.840.1.113883.17.3.10.1.88]

Kind of location

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.88"
2. **SHALL** contain exactly one [1..1] **code**/ **@code**="74496-1" *Injury location ICD code* (CodeSystem: 2.16.840.1.113883.17.3.5 NEMESISCodeSystem) (CONF:11202)
3. **SHALL** contain exactly one [1..1] **value** with data type CD, which **SHALL** be selected from (CodeSystem: 2.16.840.1.113883.6.90 ICD-10 CM) (CONF:11203)
 - *See NEMESIS recommended subset at <http://nemis.org/v3/resources.html>. ICD-10 CM contains "place of occurrence of external cause" under code Y92.*

Mass Casualty Indicator

[Observation: templateId 2.16.840.1.113883.17.3.10.1.87]

Indicator of whether the patient injury is part of a mass casualty event

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.87"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11200)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10753)/**@code**="67490-3" *Mass casualty incident NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:11201)
4. **SHALL** contain exactly one [1..1] **value** with data type BL (CONF:10754)
 - *NEMESIS Trace: EScene.07*

Medication Administered

[SubstanceAdministration: templateId 2.16.840.1.113883.17.3.10.1.72]

Medications administered in response to the emergency--usually by the EMS crew

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.72"
2. **SHALL** contain exactly one [1..1] **@classCode**="SBADM" (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:10445)
3. **MAY** contain zero or one [0..1] **@negationInd** (CONF:10448)
 - *NEMESIS Trace: EMedications.03 negative action values*

If a substance is recorded as not given, it shall be recorded with a negationInd = True, and with an entryRelationship such that it SHALL contain exactly one [1..1] @typeCode="RSON" Has reason (CodeSystem: HL7ActRelationshipType 2.16.840.1.113883.5.1002) SHALL contain exactly one [1..1] @inversionInd="true" True SHALL contain exactly one /Observation with code = "Assertion" and value drawn from 2.16.840.1.113883.17.3.5.42 Medication omission reason

4. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:10447)

- NEMESIS Trace: EMedications.01

5. **MAY** contain zero or one [0..1] **routeCode** (CONF:10450), which **SHALL** be selected from ValueSet [MedicationAdministrationRoute](#) 2.16.840.1.113883.17.3.11.43 **DYNAMIC** (CONF:10449)

- NEMESIS Trace: EMedications.04

See appendix for mapping NEMESIS values to FDA values and for postcoordination of device information.

6. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:10451)

- This entryRelationship **SHALL** contain exactly one [1..1] @inversionInd="TRUE" (CONF:10458)
- This entryRelationship **SHALL** contain exactly one [1..1] @typeCode (CONF:10460)/@code="RSON" Reason (CodeSystem: 2.16.840.1.113883.5.1002 HL7ActRelationshipType) (CONF:10459)
- This entryRelationship **SHALL** contain exactly one [1..1] **observation**, where its type is [Medication Not Administered Reason Observation](#) (CONF:10461)
 - Contains exactly one [1..1] [Medication Not Administered Reason Observation](#) (templateId: 2.16.840.1.113883.17.3.10.1.105)

7. **SHALL** contain exactly one [1..1] **consumable** (CONF:10452)

- This consumable **SHALL** contain exactly one [1..1] **manufacturedProduct** (CONF:10465)
 - This manufacturedProduct **SHALL** conform to [Consol Medication Information](#) template (templateId: 2.16.840.1.113883.10.20.22.4.23)
 - This manufacturedProduct **SHALL** contain exactly one [1..1] **manufacturedMaterial** (CONF:10466)
 - This manufacturedMaterial **SHALL** contain exactly one [1..1] **code**, which **SHALL** be selected from (CodeSystem: 2.16.840.1.113883.6.88 RxNorm) (CONF:10467)

NEMESIS Trace: EMedications.03

Note: all of RxNorm is legal in this field, but NEMESIS provides a selected list at <http://www.nemesis.org/v3/resources.html>

8. **SHALL** contain exactly one [1..1] **entryRelationship** (CONF:10453)

- This entryRelationship **SHALL** contain exactly one [1..1] **observation**, where its type is [Medication Response Observation](#) (CONF:10468)
 - Contains exactly one [1..1] [Medication Response Observation](#) (templateId: 2.16.840.1.113883.17.3.10.1.106)

9. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:10454)

- Such entryRelationships **SHALL** contain exactly one [1..1] **observation**, where its type is [Medication Complication Observation](#) (CONF:10472)
 - Contains exactly one [1..1] [Medication Complication Observation](#) (templateId: 2.16.840.1.113883.17.3.10.1.107)

10. **SHALL** contain exactly one [1..1] **entryRelationship** (CONF:10455)

- This entryRelationship **SHALL** contain exactly one [1..1] **observation**, where its type is [Medication Prior Administration Observation](#) (CONF:10477)

NEMESIS Trace: EMedications.02

- a. Contains exactly one [1..1] *Medication Prior Administration Observation* (templateId: 2.16.840.1.113883.17.3.10.1.108)

11. MAY contain zero or one [0..1] **performer** (CONF:10456)

This participation is required if the medication is administered by the crew; i.e., if EMSMedicationPriorAdministrationObservation is FALSE.

- a. This performer **SHALL** contain exactly one [1..1] **assignedEntity** (CONF:10481)
 - a. This assignedEntity **SHALL** contain exactly one [1..1] **id** (CONF:10484)

NEMESIS Trace: EMedications.09

- b. This assignedEntity **SHALL** contain exactly one [1..1] **code** (CONF:10482), which **SHALL** be selected from ValueSet *ProviderRole* 2.16.840.1.113883.17.3.11.46 **DYNAMIC** (CONF:10483)

NEMESIS Trace: EMedications.10

12. MAY contain zero or one [0..1] **entryRelationship** (CONF:10457)

This relationship is required if the medication is administered by the crew; i.e., if EMSMedicationPriorAdministrationObservation is FALSE.

- a. This entryRelationship **SHALL** contain exactly one [1..1] **act** (CONF:10485)
 - a. This act **SHALL** contain exactly one [1..1] **@classCode** (CONF:10486)/**@code**="INFRM" (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:10487)
 - b. This act **SHALL** contain exactly one [1..1] **code**, which **SHALL** be selected from ValueSet *MedicationAuthorizationType* 2.16.840.1.113883.17.3.11.47 **DYNAMIC** (CONF:10488)

NEMESIS Trace: EMedications.11

13. MAY contain zero or one [0..1] **approachSiteCode** (CONF:11180)/**@code**="15562006" *structure of respiratory region of nose* (CodeSystem: 2.16.840.1.113883.6.96 SNOMEDCT) (CONF:11181)

- *If route is "endotracheal," to be used to specify nasal approach for "nasotracheal tube"*

14. MAY contain zero or one [0..1] **doseQuantity** (CONF:10446)

- *NEMESIS Trace: EMedications.05, 06*
Note: rate values should be recorded in rateQuantity, not doseQuantity

15. MAY contain zero or one [0..1] **participant** (CONF:11074)

- a. This participant **SHALL** contain exactly one [1..1] **@typeCode**="DEV" (CONF:11182)
- b. This participant **SHALL** contain exactly one [1..1] **participantRole** (CONF:11075)
 - a. This participantRole **SHALL** contain exactly one [1..1] **@classCode**="MANU" (CONF:11183)
 - b. This participantRole **SHALL** contain exactly one [1..1] **playingDevice** (CONF:11076)
 - a. This playingDevice **SHALL** contain exactly one [1..1] **code** (CONF:11184), which **SHALL** be selected from (CodeSystem: 2.16.840.1.113883.6.96 SNOMEDCT) (CONF:11185)

For NEMESIS route codes that imply devices:

@ value = "39849001" @codeSystem = "2.16.840.1.113883.6.5" @displayName="nasal oxygen cannula"

@ value = "427591007" @codeSystem = "2.16.840.1.113883.6.5" @displayName="nonrebreather oxygen mask"

@ value = "425926003" @codeSystem = "2.16.840.1.113883.6.5" @displayName="partial rebreather oxygen mask"

@ value = "428285009" @codeSystem = "2.16.840.1.113883.6.5" @displayName="Venturi mask"

16. MAY contain zero or one [0..1] **rateQuantity** (CONF:7517)

- *NEMESIS Trace: EMedications.05, 06*
Note: rate values should be recorded in *rateQuantity*, not *doseQuantity*

Medication Complication Observation

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.107]

Complications associated with the administration of a medication

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.107"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11218)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10473)/**@code**="67541-3" *Medication complication NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10474)
4. **SHALL** contain at least one [1..*] **value** with data type CD (CONF:10475), which **SHALL** be selected from ValueSet *MedicationComplication* 2.16.840.1.1133883.17.3.11.45 **DYNAMIC** (CONF:10476)
 - *NEMESIS Trace: EMedications.08*

Medication Not Administered Reason Observation

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.105]

Reason for declining to administer a medication

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.105"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11216)
3. **SHALL** contain exactly one [1..1] **code**/**@code**="ASSERTION" *Assertion* (CodeSystem: 2.16.840.1.1133883.5.4 HL7ActCode) (CONF:10462)
4. **SHALL** contain exactly one [1..1] **value** with data type CD (CONF:10463), which **SHALL** be selected from ValueSet *MedicationNotGivenReason* 2.16.840.1.1133883.17.3.11.92 **DYNAMIC** (CONF:10464)
 - *EMedications.03*

Medication Prior Administration Observation

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.108]

Indicator of whether a medication was administered prior to the arrival of the EMS crew

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.108"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11219)

3. **SHALL** contain exactly one [1..1] **code** (CONF:10478)/@**code**="67539-7" *Medication administered prior to this unit's EMS care NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10479)
4. **SHALL** contain exactly one [1..1] **value** with data type BL (CONF:10480)
 - *NEMESIS Trace: EMedications.02*

Medication Response Observation

[Observation: templateId 2.16.840.1.113883.17.3.10.1.106]

Whether the patient's condition improved after medication administration

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @**root**="2.16.840.1.113883.17.3.10.1.106"
2. **SHALL** contain exactly one [1..1] @**moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11217)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10469)/@**code**="67540-5" *Response to medication NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10470)
4. **SHALL** contain exactly one [1..1] **value** with data type CD, which **SHALL** be selected from ValueSet [PatientConditionChange](#) 2.16.840.1.113883.17.3.11.59 **DYNAMIC** (CONF:10471)
 - *NEMESIS Trace: EMedications.07*

Mental Status Assessment

[Observation: templateId 2.16.840.1.113883.17.3.10.1.122]

Qualitative assessment of condition of patient's mental status

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @**root**="2.16.840.1.113883.17.3.10.1.122"
2. **SHALL** contain exactly one [1..1] @**moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11244)
3. **MAY** contain exactly one [1..1] **code** (CONF:10410)/@**code**="67535-5" *Mental status assessment NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10411)
4. Contains exactly one [1..1] **effectiveTime**
 - *NEMESIS Trace: EExam.03*
5. **SHALL** contain at least one [1..*] **value** with data type CD, which **SHALL** be selected from ValueSet [MentalStatusFinding](#) 2.16.840.1.113883.17.3.11.84 **DYNAMIC** (CONF:10412)
 - *NEMESIS Trace: EExam.19*

Neck Assessment

[Observation: templateId 2.16.840.1.113883.17.3.10.1.114]

Qualitative assessment of condition of patient's neck

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @**root**="2.16.840.1.113883.17.3.10.1.114"

2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11228)
3. **SHALL** contain exactly one [1..1] **code/@code**="67527-2" *Physical findings of Neck NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10379)
4. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:11229)
 - *NEMESIS Trace: EExam.03*
5. **SHALL** contain at least one [1..*] **value** with data type CD, which **SHALL** be selected from ValueSet [NeckAssessmentFinding](#) 2.16.840.1.113883.17.3.11.28 **DYNAMIC** (CONF:10380)
 - *NEMESIS Trace: EExam.07*

Neurological Assessment

[Observation: templateId 2.16.840.1.113883.17.3.10.1.141]

Qualitative assessment of condition of patient's neurological response

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.141"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11270)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10414)/**@code**="67536-3" *Neurological assessment Nervous system NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10413)
4. **SHALL** contain at least one [1..*] **value** with data type CD (CONF:10415), which **SHALL** be selected from ValueSet [NeurologicalAssessmentFinding](#) 2.16.840.1.113883.17.3.11.40 **DYNAMIC** (CONF:10416)
 - *NEMESIS Trace: EExam.20*

Non Drug Allergy

[Observation: templateId 2.16.840.1.113883.17.3.10.1.104]

Patient allergies and sensitivities to materials other than drugs

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.104"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11215)
3. **SHALL** contain exactly one [1..1] **code/@code**="69748-2" *Known allergies to food or environmental agents Narrative NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10216)
 - *Required if Existence is True*
4. **SHALL** contain exactly one [1..1] **value** with data type CD, which **SHALL** be selected from ValueSet [NonDrugAllergyType](#) 2.16.840.1.113883.17.3.11.83 **DYNAMIC** (CONF:10217)
 - *NEMESIS Trace: EHistory.07*

Non Drug Allergy Organizer

[Organizer: templateId 2.16.840.1.113883.17.3.10.1.49]

Information regarding patient allergies and sensitivities to materials other than drugs

1. **SHALL** contain exactly one [1..1] `templateId` () such that it
 - a. **SHALL** contain exactly one [1..1] `@root="2.16.840.1.1133883.17.3.10.1.49"`
2. **SHALL** contain exactly one [1..1] **component** (CONF:10212)
 - a. Contains exactly one [1..1] *Existence Of Non Drug Allergy* (`templateId: 2.16.840.1.1133883.17.3.10.1.103`)
3. **MAY** contain zero or more [0..*] **component** (CONF:10213)
 - a. Contains exactly one [1..1] *Non Drug Allergy* (`templateId: 2.16.840.1.1133883.17.3.10.1.104`)

Non Drug Allergy Organizer Actually Dreg

[Organizer: `templateId null`]

1. **SHALL** contain exactly one [1..1] `templateId` () such that it
 - a. **SHALL** contain exactly one [1..1] `@root=""`
2. **MAY** contain zero or more [0..*] **component**, where its type is *EMS Drug Allergy* (CONF:11321)
 - a. Contains exactly one [1..1] *EMS Drug Allergy* (`templateId: 2.16.840.1.1133883.17.3.10.1.48`)
3. **SHALL** contain exactly one [1..1] **component**, where its type is *Existence Of Drug Allergy Observation* (CONF:11322)
 - a. Contains exactly one [1..1] *Existence Of Drug Allergy Observation* (`templateId: 2.16.840.1.1133883.17.3.10.1.102`)

Non Drug Allergy Organizer Actually Dreg example

```
<organizer xmlns="urn:hl7-org:v3">
  <id root="MDHT" extension="217372943"/>
  <statusCode code="completed"/>
  <effectiveTime>
    <low value="2014"/>
    <high value="2014"/>
  </effectiveTime>
  <component>
    <act>
      <templateId root="2.16.840.1.1133883.17.3.10.1.48"/>
      <id root="MDHT" extension="741956665"/>
      <code code="2007044812"/>
      <effectiveTime>
        <low value="2014"/>
        <high value="2014"/>
      </effectiveTime>
      <participant>
        <participantRole/>
      </participant>
    </act>
  </component>
  <component>
    <observation moodCode="EVN">
      <templateId root="2.16.840.1.1133883.17.3.10.1.102"/>
      <id root="MDHT" extension="329758329"/>
      <code code="67794-8" codeSystem="2.16.840.1.1133883.6.1"
codeSystemName="LOINC" displayName="Does the patient have any medication
allergies NEMESIS"/>
      <effectiveTime>
```

```

    <low value="2014"/>
    <high value="2014"/>
  </effectiveTime>
</observation>
</component>
</organizer>

```

Number Of Patients Transported Observation

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.31]

The number of patients transported by this EMS crew and unit

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.31"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11136)
3. **SHALL** contain exactly one [1..1] code (CONF:10665)/@code="67547-0" Patients transported in EMS unit [#] NEMESIS (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10664)
4. **SHALL** contain exactly one [1..1] value with data type INT (CONF:10666)
 - NEMESIS Trace: eDisposition.11

Other Symptoms

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.67]

Symptoms other than the primary symptom

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.67"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11174)
3. **SHALL** contain exactly one [1..1] code (CONF:10806)/@code="67776-5" Other symptoms NEMESIS (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10807)
4. **MAY** contain zero or more [0..*] value with data type CD (CONF:10808), which **SHALL** be selected from (CodeSystem: 2.16.840.1.1133883.6.90 ICD-10 CM) (CONF:10809)
 - NEMESIS Trace: ESituation.10

Oxygen Saturation

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.177]

Measurement of the patient's arterial blood oxygen saturation

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.177"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11281)
3. **SHALL** contain exactly one [1..1] code/@code="2708-6" Oxygen saturation in Arterial blood (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10291)

4. Contains zero or one [0..1] **effectiveTime**
5. **SHALL** contain exactly one [1..1] **value** with data type PQ (CONF:10292)
 - *NEMESIS Trace: EVitals.12*
UCUM units will typically be "%".

Pain Score

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.164]

Assessment of the patient's level of pain

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.164"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11299)
3. **SHALL** contain exactly one [1..1] code/@code="56840-2" *Pain severity verbal numeric scale* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10306)
4. **MAY** contain zero or one [0..1] **effectiveTime** (CONF:11300)
 - *NEMESIS Trace: EVitals.01*
5. Contains exactly one [1..1] **value** with data type INT
 - *NEMESIS Trace: EVitals.27*
An ordinal value between 0 and 10, inclusive. There are three scales, but the values are equivalent.

Patient Age

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.81]

The age of the patient

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.81"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11194)
3. **SHALL** contain exactly one [1..1] code (CONF:10427)/@code="30525-0" *Age* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10428)
4. **SHALL** contain exactly one [1..1] **value** with data type PQ (CONF:10429)
 - *NEMESIS Trace: EPatient.15, 16*
UCUM units SHOULD be 'min' 'h' 'd' 'wk' 'mo' or 'a'

Patient Arrived At Destination Time

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.44]

The time the EMS crew delivered the patient to the destination

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.44"

2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11149)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10859)/**@code**="69476-0" *Responding unit arrived with the patient at the destination or transfer point [Date and time] Vehicle NEMSIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10858)
4. **SHALL** contain exactly one [1..1] **value** with data type TS (CONF:10860)
 - *NEMSIS Trace: ETimes.11*

Patient Body Weight

[Observation: templateId 2.16.840.1.113883.17.3.10.1.178]

Patient's body weight

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.178"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11220)
 - *NEMSIS Trace: EExam.03*
3. **SHALL** contain exactly one [1..1] **code**/**@code**="8335-2" *Body weight Estimated* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10363)
4. Contains exactly one [1..1] **effectiveTime**
5. **SHALL** contain exactly one [1..1] **value** with data type PQ (CONF:10364)
 - *NEMSIS Trace: EExam.01*
UCUM units should be 'kg'

Patient Condition Change At Destination Observation

[Observation: templateId 2.16.840.1.113883.17.3.10.1.37]

Whether the patient's condition had changed on arrival at destination

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.37"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11142)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10694)/**@code**="67551-2" *Condition of patient at destination NEMSIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10693)
4. **SHALL** contain exactly one [1..1] **value** with data type CD (CONF:10695), which **SHALL** be selected from ValueSet [PatientConditionChange](#) 2.16.840.1.113883.17.3.11.59 **DYNAMIC** (CONF:10696)
 - *NEMSIS Trace: EDisposition.19*

Patient Location In Vehicle

[Observation: templateId 2.16.840.1.113883.17.3.10.1.55]

Patient's location in a vehicle during a vehicle collision

1. **SHALL** contain exactly one [1..1] `templateId ()` such that it
 - a. **SHALL** contain exactly one [1..1] `@root="2.16.840.1.1133883.17.3.10.1.55"`
2. **SHALL** contain exactly one [1..1] `@moodCode="EVN" Event (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11160)`
3. **SHALL** contain exactly one [1..1] `code/@code="67498-6" Location of patient in vehicle NEMESIS (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10120)`
4. **SHALL** contain exactly one [1..1] **value** with data type CD, which **SHALL** be selected from ValueSet [VehiclePassengerLocation](#) 2.16.840.1.1133883.17.3.11.6 **DYNAMIC** (CONF:10121)
 - *NEMESIS Trace: EInjury.06*

Patient On Anticoagulants

[Observation: `templateId 2.16.840.1.1133883.17.3.10.1.76`]

Indication of whether patient is on anticoagulant medication

1. **SHALL** contain exactly one [1..1] `templateId ()` such that it
 - a. **SHALL** contain exactly one [1..1] `@root="2.16.840.1.1133883.17.3.10.1.76"`
2. **SHALL** contain exactly one [1..1] `@moodCode="EVN" Event (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11189)`
3. **SHALL** contain exactly one [1..1] `code/@code="69749-0" Is the patient on anticoagulants NEMESIS (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10227)`
4. **SHALL** contain exactly one [1..1] **value** with data type BL (CONF:10228)
 - *NEMESIS Trace: If EHistory.12 has the value "No anticoagulants," the value is False*

Patient Pregnancy

[Observation: `templateId 2.16.840.1.1133883.17.3.10.1.79`]

Indication of whether the patient is pregnant

1. **SHALL** contain exactly one [1..1] `templateId ()` such that it
 - a. **SHALL** contain exactly one [1..1] `@root="2.16.840.1.1133883.17.3.10.1.79"`
2. **SHALL** contain exactly one [1..1] `@moodCode="EVN" Event (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11192)`
3. **SHALL** contain exactly one [1..1] `code (CONF:10418)/@code="67471-3" Pregnancy (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10419)`
4. **SHALL** contain exactly one [1..1] **value** with data type CD (CONF:10420), which **SHALL** be selected from ValueSet [Pregnancy](#) 2.16.840.1.1133883.17.3.11.42 **DYNAMIC** (CONF:10421)
 - *NEMESIS Trace: EHistory.18*

Pelvic And Genitourinary Assessment

[Observation: `templateId 2.16.840.1.1133883.17.3.10.1.118`]

Qualitative assessment of condition of patient's pelvic and genitourinary region

1. **SHALL** contain exactly one [1..1] `templateId ()` such that it

- a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.118"
- 2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11236)
- 3. **SHALL** contain exactly one [1..1] **code/@code**="67531-4" *Physical findings of Pelvis+Genitourinary NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10390)
- 4. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:11237)
 - *NEMESIS Trace: EExam.03*
- 5. **SHALL** contain at least one [1..*] **value** with data type CD (CONF:10392), which **SHALL** be selected from ValueSet *PelvisGenitourinaryAssessment* 2.16.840.1.1133883.17.3.11.33 **DYNAMIC** (CONF:10391)
 - *NEMESIS Trace: EExam.12*

Physical Assessment Organizer

[Organizer: templateId 2.16.840.1.1133883.17.3.10.1.78]

A collection of qualitative assessments of the patient's physical condition

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.78"
2. **MAY** contain zero or one [0..1] **component** (CONF:11098)
 - a. This component **SHALL** contain exactly one [1..1] **observation**, where its type is *Patient Body Weight* (CONF:11099)
 - a. Contains exactly one [1..1] *Patient Body Weight* (templateId: 2.16.840.1.1133883.17.3.10.1.178)
3. **MAY** contain zero or one [0..1] **component** (CONF:11101)
 - a. This component **SHALL** contain exactly one [1..1] **observation**, where its type is *Length Based Patient Body Weight Class* (CONF:11100)
 - a. Contains exactly one [1..1] *Length Based Patient Body Weight Class* (templateId: 2.16.840.1.1133883.17.3.10.1.110)
4. **MAY** contain zero or one [0..1] **component** (CONF:11103)
 - a. Contains exactly one [1..1] *Skin Assessment* (templateId: 2.16.840.1.1133883.17.3.10.1.180)
5. **MAY** contain zero or one [0..1] **component** (CONF:11105)
 - a. This component **SHALL** contain exactly one [1..1] **observation**, where its type is *Head Assessment* (CONF:11104)
 - a. Contains exactly one [1..1] *Head Assessment* (templateId: 2.16.840.1.1133883.17.3.10.1.113)
6. **MAY** contain zero or one [0..1] **component** (CONF:11107)
 - a. This component **SHALL** contain exactly one [1..1] **observation**, where its type is *Face Assessment* (CONF:11106)
 - a. Contains exactly one [1..1] *Face Assessment* (templateId: 2.16.840.1.1133883.17.3.10.1.112)
7. **MAY** contain zero or one [0..1] **component** (CONF:11109)
 - a. This component **SHALL** contain exactly one [1..1] **observation**, where its type is *Neck Assessment* (CONF:11108)
 - a. Contains exactly one [1..1] *Neck Assessment* (templateId: 2.16.840.1.1133883.17.3.10.1.114)
8. **MAY** contain zero or one [0..1] **component** (CONF:11111)

- a. This component **SHALL** contain exactly one [1..1] **observation**, where its type is *Chest And Lungs Assessment* (CONF:11110)
 - a. Contains exactly one [1..1] *Chest And Lungs Assessment* (templateId: 2.16.840.1.1133883.17.3.10.1.115)
- 9. **MAY** contain zero or one [0..1] **component** (CONF:11113)
 - a. This component **SHALL** contain exactly one [1..1] **observation**, where its type is *Heart Assessment* (CONF:11112)
 - a. Contains exactly one [1..1] *Heart Assessment* (templateId: 2.16.840.1.1133883.17.3.10.1.116)
- 10. **MAY** contain zero or one [0..1] **component** (CONF:11115)
 - a. This component **SHALL** contain exactly one [1..1] **observation**, where its type is *Abdomen Assessment* (CONF:11114)
 - a. Contains exactly one [1..1] *Abdomen Assessment* (templateId: 2.16.840.1.1133883.17.3.10.1.117)
- 11. **MAY** contain zero or one [0..1] **component** (CONF:11117)
 - a. This component **SHALL** contain exactly one [1..1] **observation**, where its type is *Pelvic And Genitourinary Assessment* (CONF:11116)
 - a. Contains exactly one [1..1] *Pelvic And Genitourinary Assessment* (templateId: 2.16.840.1.1133883.17.3.10.1.118)
- 12. **MAY** contain zero or one [0..1] **component** (CONF:11119)
 - a. This component **SHALL** contain exactly one [1..1] **observation**, where its type is *Back And Spine Assessment* (CONF:11118)
 - a. Contains exactly one [1..1] *Back And Spine Assessment* (templateId: 2.16.840.1.1133883.17.3.10.1.119)
- 13. **MAY** contain zero or one [0..1] **component** (CONF:11121)
 - a. This component **SHALL** contain exactly one [1..1] **observation**, where its type is *Extremities Assessment* (CONF:11120)
 - a. Contains exactly one [1..1] *Extremities Assessment* (templateId: 2.16.840.1.1133883.17.3.10.1.120)
- 14. **MAY** contain zero or one [0..1] **component** (CONF:11123)
 - a. This component **MAY** contain exactly one [1..1] **observation**, where its type is *Eye Assessment* (CONF:11122)
 - a. Contains exactly one [1..1] *Eye Assessment* (templateId: 2.16.840.1.1133883.17.3.10.1.121)
- 15. **MAY** contain zero or one [0..1] **component** (CONF:11125)
 - a. This component **MAY** contain exactly one [1..1] **observation**, where its type is *Mental Status Assessment* (CONF:11124)
 - a. Contains exactly one [1..1] *Mental Status Assessment* (templateId: 2.16.840.1.1133883.17.3.10.1.122)

Possible Injury

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.64]

Indicator of whether a patient may have an injury

- 1. **SHALL** contain exactly one [1..1] templateId () such that it

- a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.64"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11171)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10792)/**@code**="69467-9" *Possible injury NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10793)
4. **SHALL** contain exactly one [1..1] **value** with data type BL (CONF:10794)
 - *NEMESIS Trace: ESituation.02*

Prearrival Activation Observation

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.36]

Indication of whether destination was activated prior to patient arrival

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.36"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11141)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10689)/**@code**="69462-0" *Activation of the destination healthcare facility team NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10688)
4. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:10691)
 - *NEMESIS Trace: EDisposition.25*
Required if value is TRUE
5. **SHALL** contain exactly one [1..1] **value** with data type BL (CONF:10690)
 - *NEMESIS Trace: EDisposition.24*

Primary Symptom

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.66]

The primary symptom present in the patient

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.66"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11173)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10801)/**@code**="67774-0" *Primary sign and symptom NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10802)
4. **SHALL** contain exactly one [1..1] **value** with data type CD (CONF:10803), which **SHALL** be selected from (CodeSystem: 2.16.840.1.1133883.6.90 ICD-10 CM) (CONF:10804)
 - *NEMESIS Trace: ESituation.09*

Prior AED Use

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.126]

Indication of whether an automated external defibrillator was used on the patient prior to EMS arrival

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.126"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11249)
3. **SHALL** contain exactly one [1..1] **code/@code**="67508-2" *AED use prior to EMS arrival NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10171)
4. **SHALL** contain exactly one [1..1] **value** with data type CD, which **SHALL** be selected from ValueSet [AEDUsePriorToEMSArrival](#) 2.16.840.1.1133883.17.3.11.13 **DYNAMIC** (CONF:10172)
 - *NEMESIS Trace: EArrest.07*
5. **MAY** contain zero or one [0..1] **participant** (CONF:10173)
 - a. This participant **SHALL** contain exactly one [1..1] **@typeCode**="RESP" (CONF:11250)
 - b. This participant **SHALL** contain exactly one [1..1] **participantRole** (CONF:10174)
 - a. This participantRole **SHALL** contain exactly one [1..1] **code**, which **SHALL** be selected from ValueSet [PriorCareProviderRole](#) 2.16.840.1.1133883.17.3.11.12 **DYNAMIC** (CONF:10175)
 - *NEMESIS Trace: EArrest.08*

Prior Aid Vitals

[Observation: **templateId** 2.16.840.1.1133883.17.3.10.1.29]

Indication of whether this set of vital signs was obtained prior to the documenting EMS unit's care

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.29"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11131)
3. **SHALL** contain exactly one [1..1] **code/@code**="67518-1" *Obtained prior to units EMS care NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10273)
4. **SHALL** contain exactly one [1..1] **value** with data type BL (CONF:11132)
 - *NEMESIS Trace: EVitals.02*

Prior CPR

[Observation: **templateId** 2.16.840.1.1133883.17.3.10.1.125]

Indication of whether CPR was provided prior to the documenting EMS unit's care

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.125"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11247)
3. **SHALL** contain exactly one [1..1] **code/@code**="67506-6" *CPR prior to EMS arrival NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10163)
4. **SHALL** contain exactly one [1..1] **value** with data type BL (CONF:10164)
 - *NEMESIS Trace: EArrest.05*
5. **MAY** contain zero or one [0..1] **participant** (CONF:10165)
 - a. This participant **SHALL** contain exactly one [1..1] **@typeCode**="RESP" (CONF:11248)

- b. This participant **SHALL** contain exactly one [1..1] **participantRole** (CONF:10943)
 - a. This participantRole **SHALL** contain exactly one [1..1] **code**, which **SHALL** be selected from ValueSet [PriorCareProviderRole](#) 2.16.840.1.113883.17.3.11.12 **DYNAMIC** (CONF:10167)
- NEMESIS Trace: eArrest.06*

Procedure

[Procedure: templateId 2.16.840.1.113883.17.3.10.1.181]

Procedure performed by EMS unit

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.181"
2. **MAY** contain zero or one [0..1] **negationInd** (CONF:11212)
 - *Required to document a procedure not performed, with required "reason not performed" observation*
3. **SHALL** contain exactly one [1..1] **code** (CONF:10496)
 - *NEMESIS Trace: EProcedures.03, for which use ICD10-PCS and EArrest.09, for which use Cardiopulmonary Resuscitation type (VS 2.16.840.1.113883.17.3.5.57) and EArrest.10 (therapeutic hypothermia); if = true, include here as ICD-10 PCS "6A4" and EArrest.03:
3003001 Attempted Defibrillation = ICD10-PCS Defibrillation 5A2204Z
3003005 Initiated Chest Compressions: use more detailed Cardiopulmonary Resuscitation Type (2.16.840.1.113883.17.3.5.57); reader may infer from this value if necessary
3003003 Attempted Ventilation: use more detailed Cardiopulmonary Resuscitation Type (2.16.840.1.113883.17.3.5.57); reader may infer from this value if necessary
3003007 Not Attempted-Considered Futile = Assistance 5A0; procedure negation = True; ReasonNotAttempted required
3003009 Not Attempted-DNR Orders = Assistance 5A0; procedure negation = True; ReasonNotAttempted required
3003011 Not Attempted-Signs of Circulation = Assistance 5A0; procedure negation = True; ReasonNotAttempted required*
4. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:10498)
 - a. This entryRelationship **SHALL** contain exactly one [1..1] **observation**, where its type is [Abandoned Procedure Reason Observation](#) (CONF:10510)
 - a. Contains exactly one [1..1] [Abandoned Procedure Reason Observation](#) (templateId: 2.16.840.1.113883.17.3.10.1.130)
5. **MAY** contain zero or one [0..1] **statusCode** (CONF:10499)/**@code**="Aborted" *Aborted* (CodeSystem: 2.16.840.1.113883.5.14 ActStatus) (CONF:10500)
 - *NEMESIS Trace: EArrest.15*
6. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:10497)
 - *NEMESIS Trace: EProcedures.01 goes in effectiveTime.low
If an abandoned time is recorded, EArrest.15 goes in effectiveTime.high*
7. **MAY** contain zero or one [0..1] **approachSiteCode** (CONF:10502), which **SHALL** be selected from ValueSet [IVSite](#) 2.16.840.1.113883.17.3.11.56 **DYNAMIC** (CONF:10501)
 - *NEMESIS Trace: EProcedures.13
Required conditionally if procedure code is intravenous catheterization (E303)*
8. **SHALL** contain exactly one [1..1] **entryRelationship** (CONF:10503)

- a. This entryRelationship **SHALL** contain exactly one [1..1] **observation**, where its type is *Procedure Prior Indicator* (CONF:10515)

- a. Contains exactly one [1..1] *Procedure Prior Indicator* (templateId: 2.16.840.1.1133883.17.3.10.1.131)

- 9. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:10504)

Important for airway insertion

- a. This entryRelationship **SHALL** contain exactly one [1..1] **observation**, where its type is *Procedure Number Of Attempts Observation* (CONF:10519)

NEMESIS Trace: EProcedures.05

- a. Contains exactly one [1..1] *Procedure Number Of Attempts Observation* (templateId: 2.16.840.1.1133883.17.3.10.1.132)

- 10. **SHALL** contain exactly one [1..1] **entryRelationship** (CONF:10505)

- a. This entryRelationship **SHALL** contain exactly one [1..1] **observation**, where its type is *Procedure Successful Observation* (CONF:10523)

- a. Contains exactly one [1..1] *Procedure Successful Observation* (templateId: 2.16.840.1.1133883.17.3.10.1.133)

- 11. **SHALL** contain at least one [1..*] **entryRelationship** (CONF:10506)

- a. Such entryRelationships **SHALL** contain exactly one [1..1] **observation**, where its type is *Procedure Complications Observation* (CONF:10527)

- a. Contains exactly one [1..1] *Procedure Complications Observation* (templateId: 2.16.840.1.1133883.17.3.10.1.179)

- 12. **SHALL** contain exactly one [1..1] **entryRelationship** (CONF:10507)

- a. This entryRelationship **SHALL** contain exactly one [1..1] **observation**, where its type is *Procedure Patient Response Observation* (CONF:10531)

- a. Contains exactly one [1..1] *Procedure Patient Response Observation* (templateId: 2.16.840.1.1133883.17.3.10.1.135)

- 13. **SHALL** contain at least one [1..*] **performer** (CONF:10508)

- a. Such performers **SHALL** contain exactly one [1..1] **assignedEntity** (CONF:10536)

- a. This assignedEntity **SHALL** contain exactly one [1..1] **id** (CONF:10539)

NEMESIS Trace: EProcedures.09, ID equal to the EMS professional's agency ID number

- b. This assignedEntity **SHALL** contain exactly one [1..1] **code** (CONF:10537), which **SHALL** be selected from ValueSet *ProviderRole* 2.16.840.1.1133883.17.3.11.46 **DYNAMIC** (CONF:10538)

NEMESIS Trace: EProcedures.10

- 14. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:10509)

NEMESIS Trace: EAirway.04; required if procedure code is airway placement, i.e., 0CHY7BZ

- a. This entryRelationship **SHALL** contain exactly one [1..1] **observation**, where its type is *Airway Confirmation Observation* (CONF:10540)

- a. Contains exactly one [1..1] *Airway Confirmation Observation* (templateId: 2.16.840.1.1133883.17.3.10.1.175)

- 15. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:11089)

- a. This entryRelationship **SHALL** contain exactly one [1..1] **observation**, where its type is *Reason Procedure Not Attempted Observation* (CONF:11088)

- a. Contains exactly one [1..1] *Reason Procedure Not Attempted Observation* (templateId: 2.16.840.1.113883.17.3.10.1.137)

Procedure Complications Observation

[Observation: templateId 2.16.840.1.113883.17.3.10.1.179]

Complications associated with a procedure performed by the EMS unit

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.17.3.10.1.179"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11259)
3. **SHALL** contain exactly one [1..1] code (CONF:10528)/@code="67545-4" *Procedure complication NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10529)
4. **SHALL** contain at least one [1..*] value with data type CD, which **SHALL** be selected from ValueSet *ProcedureComplicationType* 2.16.840.1.113883.17.3.11.58 **DYNAMIC** (CONF:10530)
 - *NEMESIS Trace: EProcedures.07*

Procedure Number Of Attempts Observation

[Observation: templateId 2.16.840.1.113883.17.3.10.1.132]

How many times the EMS unit attempted a procedure

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.17.3.10.1.132"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11257)
3. **SHALL** contain exactly one [1..1] code (CONF:10520)/@code="67543-9" *Procedure attempts [#]* *NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10521)
4. **SHALL** contain exactly one [1..1] value with data type INT (CONF:10522)
 - *NEMESIS Trace: EProcedures.05*

Procedure Patient Response Observation

[Observation: templateId 2.16.840.1.113883.17.3.10.1.135]

How a patient responded to a procedure

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.17.3.10.1.135"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11260)
3. **SHALL** contain exactly one [1..1] code (CONF:10532)/@code="67546-2" *Response to procedure NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10533)

4. **SHALL** contain exactly one [1..1] **value** with data type CD (CONF:10534), which **SHALL** be selected from ValueSet *PatientConditionChange* 2.16.840.1.113883.17.3.11.59 **DYNAMIC** (CONF:10535)
 - *NEMESIS Trace: EProcedures.08*

Procedure Prior Indicator

[Observation: templateId 2.16.840.1.113883.17.3.10.1.131]

Indication of whether a procedure was provided prior to the documenting EMS unit's care

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.17.3.10.1.131"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11256)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10516)/@code="67542-1" *Procedure performed prior to this units EMS care NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10517)
4. **SHALL** contain exactly one [1..1] **value** with data type BL (CONF:10518)
 - *NEMESIS Trace: EProcedures.02*

Procedure Successful Observation

[Observation: templateId 2.16.840.1.113883.17.3.10.1.133]

Indication of whether a procedure was successful

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.17.3.10.1.133"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11258)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10524)/@code="67544-7" *Procedure successful NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10525)
4. **SHALL** contain exactly one [1..1] **value** with data type BL (CONF:10526)
 - *NEMESIS Trace: EProcedures.06*

Protocol Age Category

[Observation: templateId 2.16.840.1.113883.17.3.10.1.149]

Age range for which a protocol is appropriate

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.17.3.10.1.149"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11282)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10723)/@code="67538-9" *Protocol age category NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10724)

4. **SHALL** contain exactly one [1..1] **value** with data type CD (CONF:10725), which **SHALL** be selected from ValueSet [ProtocolAgeCategory](#) 2.16.840.1.113883.17.3.11.86 **DYNAMIC** (CONF:10726)
 - *NEMESIS Trace: EProtocols.02*

Protocol Observation

[Observation: templateId 2.16.840.1.113883.17.3.10.1.93]

The protocol used by EMS personnel to direct the clinical care of the patient

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.17.3.10.1.93"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11209)
3. **SHALL** contain exactly one [1..1] code (CONF:10719)/@code="67537-1" *Protocol used NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10718)
4. **SHALL** contain exactly one [1..1] **value** with data type CD (CONF:10720), which **SHALL** be selected from ValueSet [Protocol](#) 2.16.840.1.113883.17.3.11.73 **DYNAMIC** (CONF:10721)
 - *NEMESIS Trace: EProtocols.01*
5. Contains zero or one [0..1] **entryRelationship**
 - a. This entryRelationship **SHALL** contain exactly one [1..1] **observation**, where its type is [Protocol Age Category](#) (CONF:11073)
 - a. Contains exactly one [1..1] [Protocol Age Category](#) (templateId: 2.16.840.1.113883.17.3.10.1.149)

Provider Primary Impression

[Observation: templateId 2.16.840.1.113883.17.3.10.1.65]

The EMS personnel's impression of the patient's primary problem or most significant condition

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.17.3.10.1.65"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11172)
3. **SHALL** contain exactly one [1..1] code (CONF:10796)/@code="67492-9" *Primary problem NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10797)
4. **SHALL** contain exactly one [1..1] **value** with data type CD (CONF:10798), which **SHALL** be selected from (CodeSystem: 2.16.840.1.113883.6.90 ICD-10 CM) (CONF:10799)
 - *NEMESIS Trace: ESituation.11*

Provider Secondary Impressions

[Observation: templateId 2.16.840.1.113883.17.3.10.1.68]

The EMS personnel's impression of the patient's secondary problems or conditions

1. **SHALL** contain exactly one [1..1] templateId () such that it

- a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.68"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11175)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10811)/**@code**="69542-9" *Secondary problem NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10812)
4. **SHALL** contain at least one [1..*] **value** with data type CD (CONF:10813), which **SHALL** be selected from (CodeSystem: 2.16.840.1.1133883.6.90 ICD-10 CM) (CONF:10814)
 - *NEMESIS Trace: ESituation.12*

Reason For Choosing Destination Observation

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.35]

The reason the unit chose to deliver the patient to the destination

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.35"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11140)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10684)/**@code**="67552-0" *Reason for choosing destination NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10683)
4. **SHALL** contain exactly one [1..1] **value** with data type CD (CONF:10685), which **SHALL** be selected from ValueSet *DestinationChoiceReason* 2.16.840.1.1133883.17.3.11.68 **DYNAMIC** (CONF:10686)
 - *NEMESIS Trace: EDisposition.20*

Reason Procedure Not Attempted Observation

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.137]

Why the EMS crew did not attempt to perform a procedure

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.137"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11262)
3. **SHALL** contain exactly one [1..1] **code**/ **@code**="67504-1" *Reason resuscitation not attempted NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:11263)
4. **SHALL** contain exactly one [1..1] **value** with data type CD (CONF:11264), which **SHALL** be selected from ValueSet *Reason Procedure not Performed Superset* 2.16.840.1.1133883.17.3.11.100 **DYNAMIC** (CONF:11265)
 - *NEMESIS Trace: EProcedures.03 pertinent negatives, EArrest.03 negative values*
This is a superset of both value sets: the question is the same, even if the .90 values are appropriate only for CPR and the .95 for all other procedures.
Note: CPR procedures have appropriate values "Not Attempted-Considered Futile," "Not Attempted-DNR Orders," "Not Attempted-Signs of Circulation"; other procedures have values "Contraindication Noted," "Denied By Order," "Refused," "Unable to Complete"

Respiratory Rate

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.146]

Patient's rate of respiration

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.146"
2. **SHALL** conform to *Consol Vital Sign Observation* template (templateId: 2.16.840.1.1133883.10.20.22.4.27)
3. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11276)
4. **SHALL** contain exactly one [1..1] code/@code="9279-1" *Respiratory rate* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10287)
5. **MAY** contain zero or one [0..1] effectiveTime (CONF:11277)
 - NEMESIS Trace: EVitals.01
6. **SHALL** contain exactly one [1..1] value (CONF:10288)
 - NEMESIS Trace: EVitals.14
UCUM units SHOULD be "/min".

Response Beginning Odometer Reading

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.171]

Odometer reading for the EMS vehicle when dispatched

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.171"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11314)
3. **SHALL** contain exactly one [1..1] code (CONF:10631)/@code="67484-6" *Counter or odometer reading NEMESIS --beginning of call* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10632)
4. **SHALL** contain exactly one [1..1] value with data type PQ (CONF:10633)
 - NEMESIS Trace: EResponse.19
UCUM units SHOULD be "[mi_i]"

Response Delay

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.154]

Causes of delay to the response process

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.154"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11287)
3. **SHALL** contain exactly one [1..1] code (CONF:10595)/@code="67557-9" *Response delay NEMESIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10594)

4. **SHALL** contain at least one [1..*] **value** with data type CD (CONF:10597), which **SHALL** be selected from ValueSet *ResponseDelayType* 2.16.840.1.113883.17.3.11.51 **DYNAMIC** (CONF:10596)
 - *NEMESIS Trace: EResponse.09*

Response Destination Odometer Reading

[Observation: templateId 2.16.840.1.113883.17.3.10.1.173]

Odometer reading for the EMS vehicle at patient destination

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.17.3.10.1.173"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11316)
3. **SHALL** contain exactly one [1..1] code (CONF:10639)/@code="67486-1" *Counter or odometer reading NEMESIS --patient destination* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10640)
4. **SHALL** contain exactly one [1..1] **value** with data type PQ (CONF:10641)
 - *NEMESIS Trace: EResponse.21*
UCUM units SHOULD be "[mi_i]"

Response Ending Odometer Reading

[Observation: templateId 2.16.840.1.113883.17.3.10.1.174]

Odometer reading for the EMS vehicle when call is complete

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.17.3.10.1.174"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11317)
3. **SHALL** contain exactly one [1..1] code (CONF:10643)/@code="67487-9" *Counter or odometer reading NEMESIS --end of call* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10644)
4. **SHALL** contain exactly one [1..1] **value** with data type PQ (CONF:10645)
 - *NEMESIS Trace: EResponse.22*
UCUM units SHOULD be "[mi_i]"

Response Mode To Scene

[Observation: templateId 2.16.840.1.113883.17.3.10.1.182]

Indication of whether the response was emergent or non-emergent

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.17.3.10.1.182"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11211)
3. **SHALL** contain exactly one [1..1] code (CONF:10647)/@code="67482-0" *Response mode to scene NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10648)

4. **SHALL** contain exactly one [1..1] **value** with data type CD (CONF:10650), which **SHALL** be selected from ValueSet *TransportationMode* 2.16.840.1.113883.17.3.11.66 **DYNAMIC** (CONF:10649)
 - *NEMESIS Trace: EResponse.23*

Response Odometer Reading Organizer

[Organizer: templateId 2.16.840.1.113883.17.3.10.1.97]

Collection of odometer readings at various points in an EMS crew's trip

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.17.3.10.1.97"
2. **MAY** contain zero or one [0..1] **component** (CONF:10626)
 - a. This component **SHALL** contain exactly one [1..1] **observation**, where its type is *Response Beginning Odometer Reading* (CONF:10630)
 - a. Contains exactly one [1..1] *Response Beginning Odometer Reading* (templateId: 2.16.840.1.113883.17.3.10.1.171)
3. **MAY** contain zero or one [0..1] **component** (CONF:10627)
 - a. This component **SHALL** contain exactly one [1..1] **observation**, where its type is *Response On Scene Odometer Reading* (CONF:10634)
 - a. Contains exactly one [1..1] *Response On Scene Odometer Reading* (templateId: 2.16.840.1.113883.17.3.10.1.172)
4. **MAY** contain zero or one [0..1] **component** (CONF:10628)
 - a. This component **SHALL** contain exactly one [1..1] **observation**, where its type is *Response Destination Odometer Reading* (CONF:10638)
 - a. Contains exactly one [1..1] *Response Destination Odometer Reading* (templateId: 2.16.840.1.113883.17.3.10.1.173)
5. **MAY** contain zero or one [0..1] **component** (CONF:10629)
 - a. This component **SHALL** contain exactly one [1..1] **observation**, where its type is *Response Ending Odometer Reading* (CONF:10642)
 - a. Contains exactly one [1..1] *Response Ending Odometer Reading* (templateId: 2.16.840.1.113883.17.3.10.1.174)

Response On Scene Odometer Reading

[Observation: templateId 2.16.840.1.113883.17.3.10.1.172]

Odometer reading for the EMS vehicle when the unit arrives at the patient

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.17.3.10.1.172"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11315)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10635)/@code="67485-3" *Counter or odometer reading NEMESIS --patient arrival* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10636)
4. **SHALL** contain exactly one [1..1] **value** with data type PQ (CONF:10637)
 - *NEMESIS Trace: EResponse.20*

UCUM units SHOULD be "[mi_i]"

Return Of Spontaneous Circulation

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.128]

Indication whether or not there was any return of spontaneous circulation, and if so, when

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.128"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11252)
3. **SHALL** contain exactly one [1..1] code/@code="67513-2" Return of spontaneous circulation NEMESIS (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10184)
4. **SHALL** contain at least one [1..*] value with data type CD (CONF:11253), which **SHALL** be selected from ValueSet [ReturnOfSpontaneousCirculation](#) 2.16.840.1.1133883.17.3.11.15 **DYNAMIC** (CONF:10185)
 - NEMESIS Trace: EArrest.12

Scene Delay

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.155]

Causes of delay at the event scene

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.155"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11288)
3. **SHALL** contain exactly one [1..1] code (CONF:10600)/@code="67558-7" Scene delay NEMESIS (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10599)
4. **SHALL** contain at least one [1..*] value with data type CD (CONF:10602), which **SHALL** be selected from ValueSet [SceneDelayType](#) 2.16.840.1.1133883.17.3.11.52 **DYNAMIC** (CONF:10601)
 - NEMESIS Trace: EResponse.10

Scene Patient Count

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.86]

How many patients were at the scene

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.86"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11199)
3. **SHALL** contain exactly one [1..1] code (CONF:10750)/@code="67489-5" Total patients at the scene NEMESIS (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10749)
4. **SHALL** contain exactly one [1..1] value with data type INT (CONF:10751)

- *NEMESIS Trace: EScene.06*

Skin Assessment

[Observation: templateId 2.16.840.1.113883.17.3.10.1.180]

Qualitative assessment of condition of patient's skin

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.180"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11223)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10368)/**@code**="67524-9" *Physical findings of Skin NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10369)
4. Contains exactly one [1..1] **effectiveTime**
 - *NEMESIS Trace: EExam.03*
5. **SHALL** contain at least one [1..*] **value** with data type CD (CONF:10370), which **SHALL** be selected from ValueSet *SkinAssessment* 2.16.840.1.113883.17.3.11.25 **DYNAMIC** (CONF:10371)
 - *NEMESIS Trace: EExam.04*

Stroke Score

[Observation: templateId 2.16.840.1.113883.17.3.10.1.163]

Result of a stroke scale instrument

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.17.3.10.1.163"
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11297)
3. **SHALL** contain exactly one [1..1] **code** (CONF:10308)/**@code**="67520-7" *Stroke scale overall interpretation NEMESIS* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10307)
4. **MAY** contain zero or one [0..1] **effectiveTime** (CONF:11298)
 - *NEMESIS Trace: EVitals.01*
5. **SHALL** contain exactly one [1..1] **value** with data type CD (CONF:10310), which **SHALL** be selected from ValueSet *Stroke Scale Interpretation* 2.16.840.1.113883.17.3.11.93 **DYNAMIC** (CONF:10309)
 - *NEMESIS Trace: EVitals.29*
6. **SHALL** contain exactly one [1..1] **methodCode** (CONF:10312), which **SHALL** be selected from ValueSet *StrokeScale* 2.16.840.1.113883.17.3.11.88 **DYNAMIC** (CONF:10311)
 - *NEMESIS Trace: EVitals.30*

Systolic Blood Pressure

[Observation: templateId 2.16.840.1.113883.17.3.10.1.23.1]

Measurement of the patient's systolic blood pressure

1. **SHALL** contain exactly one [1..1] `templateId ()` such that it
 - a. **SHALL** contain exactly one [1..1] `@root="2.16.840.1.113883.17.3.10.1.23.1"`
2. **SHALL** conform to [Consol Vital Sign Observation](#) template (`templateId: 2.16.840.1.113883.10.20.22.4.27`)
3. **SHALL** contain exactly one [1..1] `@moodCode="EVN" Event` (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11271)
4. **SHALL** contain exactly one [1..1] `code/@code="8480-6" Systolic blood pressure` (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10280)
5. **SHALL** contain exactly one [1..1] `effectiveTime` (CONF:7304)
 - *NEMESIS Trace: EVitals.01*
6. **SHALL** contain exactly one [1..1] `value` (CONF:10281)
 - *NEMESIS Trace: EVitals.06*
UCUM units SHOULD be "mm[Hg]".

Thrombolytic Contraindications

[Observation: `templateId 2.16.840.1.113883.17.3.10.1.82`]

Indicator of contraindications to thrombolytic use

1. **SHALL** contain exactly one [1..1] `templateId ()` such that it
 - a. **SHALL** contain exactly one [1..1] `@root="2.16.840.1.113883.17.3.10.1.82"`
2. **SHALL** contain exactly one [1..1] `@moodCode="EVN" Event` (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11195)
3. **SHALL** contain exactly one [1..1] `code` (CONF:10431)/`@code="67523-1" Contraindication for thrombolytic use NEMESIS` (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10432)
4. **SHALL** contain at least one [1..*] `value` with data type CD, which **SHALL** be selected from ValueSet [ExistenceOfContraindicationsToThrombolyticUse](#) 2.16.840.1.113883.17.3.11.41 **DYNAMIC** (CONF:10433)
 - *NEMESIS Trace: EVitals.31*

Transport Delay

[Observation: `templateId 2.16.840.1.113883.17.3.10.1.156`]

Causes of delay to the transport process

1. **SHALL** contain exactly one [1..1] `templateId ()` such that it
 - a. **SHALL** contain exactly one [1..1] `@root="2.16.840.1.113883.17.3.10.1.156"`
2. **SHALL** contain exactly one [1..1] `@moodCode="EVN" Event` (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:11289)
3. **SHALL** contain exactly one [1..1] `code` (CONF:10605)/`@code="67559-5" Transport delay NEMESIS` (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:10604)
4. **SHALL** contain at least one [1..*] `value` with data type CD (CONF:10607), which **SHALL** be selected from ValueSet [TransportDelayType](#) 2.16.840.1.113883.17.3.11.53 **DYNAMIC** (CONF:10606)
 - *NEMESIS Trace: EResponse.11*

Transport Method Observation

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.34]

Vehicle or device used to transport patient

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.34"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11139)
3. **SHALL** contain exactly one [1..1] code (CONF:10679)/@code="67549-6" Transport method NEMESIS (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10678)
4. **SHALL** contain exactly one [1..1] value with data type CD (CONF:10680), which **SHALL** be selected from ValueSet [TransportMethod](#) 2.16.840.1.1133883.17.3.11.65 **DYNAMIC** (CONF:10681)
 - NEMESIS Trace: EDisposition.16

Transport Mode Observation

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.33]

Indication of whether the transport was emergent or non-emergent

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.33"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11138)
3. **SHALL** contain exactly one [1..1] code (CONF:10674)/@code="67550-4" Transport mode from scene NEMESIS (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10673)
4. **SHALL** contain exactly one [1..1] value with data type CD (CONF:10675), which **SHALL** be selected from ValueSet [TransportMethod](#) 2.16.840.1.1133883.17.3.11.65 **DYNAMIC** (CONF:10676)
 - NEMESIS Trace: EDisposition.17

Trauma Center Criteria

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.52]

Field Triage Criteria for transport to a trauma center as defined by the Centers for Disease Control and Prevention and the American College of Surgeons-Committee on Trauma

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.52"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11157)
3. **SHALL** contain exactly one [1..1] code/@code="67495-2" CDC field triage criteria NEMESIS (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10111)
4. **SHALL** contain at least one [1..*] value with data type CD, which **SHALL** be selected from ValueSet [TraumaCenterCriteria](#) 2.16.840.1.1133883.17.3.11.3 **DYNAMIC** (CONF:10112)
 - NEMESIS Trace: EInjury.03

Turnaround Delay

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.157]

Causes of delay to the unit turnaround process

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.157"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11290)
3. **SHALL** contain exactly one [1..1] code (CONF:10610)/@code="67560-3" *Turn-around delay NEMSIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10609)
4. **SHALL** contain at least one [1..*] value with data type CD (CONF:10612), which **SHALL** be selected from ValueSet *TurnAroundDelayType* 2.16.840.1.1133883.17.3.11.54 **DYNAMIC** (CONF:10611)
 - *NEMSIS Trace: EResponse.12*

Unit At Patient Time

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.42]

Time the unit arrived at the patient

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.42"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11147)
3. **SHALL** contain exactly one [1..1] code (CONF:10851)/@code="69474-5" *Responding unit arrived at the patient's side [Date and time] Vehicle NEMSIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10850)
4. **SHALL** contain exactly one [1..1] value with data type TS (CONF:10852)
 - *NEMSIS Trace: ETimes.07*

Unit Back In Service Time

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.45]

Time the unit is back in service

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.45"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11150)
3. **SHALL** contain exactly one [1..1] code (CONF:10863)/@code="69477-8" *Unit was back in service and available for response [Date and time] Vehicle NEMSIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10862)
4. **SHALL** contain exactly one [1..1] value with data type TS (CONF:10864)
 - *NEMSIS Trace: ETimes.13*

Unit En Route Time

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.40]

Time unit begins moving toward the patient

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.40"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11145)
3. **SHALL** contain exactly one [1..1] code (CONF:10843)/@code="69472-9" Unit responded [Date and time] Vehicle NEMSIS (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10842)
4. **SHALL** contain exactly one [1..1] value with data type TS (CONF:10844)
 - NEMSIS Trace: ETimes.05

Unit Left Scene Time

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.43]

Time the unit left the incident scene

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.43"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11148)
3. **SHALL** contain exactly one [1..1] code (CONF:10855)/@code="69475-2" Responding unit left the scene with a patient [Date and time] Vehicle NEMSIS (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10854)
4. **SHALL** contain exactly one [1..1] value with data type TS (CONF:10856)
 - NEMSIS Trace: ETimes.09

Unit Notified Time

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.39]

Time the unit was dispatched

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.39"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11144)
3. **SHALL** contain exactly one [1..1] code (CONF:10839)/@code="69471-1" Responding unit was notified by dispatch [Date and time] Vehicle NEMSIS (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10838)
4. **SHALL** contain exactly one [1..1] value with data type TS (CONF:10840)
 - NEMSIS Trace: ETimes.03
This is the value represented in the header for the encompassing encounter

Unit On Scene Time

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.41]

Time the unit arrived at the incident scene

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.41"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11146)
3. **SHALL** contain exactly one [1..1] code (CONF:10847)/@code="69473-7" *Responding unit arrived on the scene [Date and time] Vehicle NEMSIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10846)
4. **SHALL** contain exactly one [1..1] value with data type TS (CONF:10848)
 - *NEMSIS Trace: ETimes.06*

Vehicle Impact Area

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.54]

Area of vehicle struck in a vehicle collision

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.54"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11159)
3. **SHALL** contain exactly one [1..1] code/@code="67497-8" *Location of impact on the vehicle NEMSIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10117)
4. **SHALL** contain exactly one [1..1] value with data type CD, which **SHALL** be selected from ValueSet [VehicleImpactArea](#) 2.16.840.1.1133883.17.3.11.5 **DYNAMIC** (CONF:10118)
 - *NEMSIS Trace: EInjury.05*

Vehicle Occupant Safety Equipment

[Observation: templateId 2.16.840.1.1133883.17.3.10.1.56]

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

1. **SHALL** contain exactly one [1..1] templateId () such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.1133883.17.3.10.1.56"
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.1133883.5.1001 HL7ActMood) (CONF:11161)
3. **SHALL** contain exactly one [1..1] code/@code="67499-4" *Safety equipment NEMSIS* (CodeSystem: 2.16.840.1.1133883.6.1 LOINC) (CONF:10123)
4. **SHALL** contain at least one [1..*] value with data type CD, which **SHALL** be selected from ValueSet [SafetyEquipmentType](#) 2.16.840.1.1133883.17.3.11.7 **DYNAMIC** (CONF:10124)
 - *NEMSIS Trace: EInjury.07*

Vital Signs Organizer

[Organizer: templateId 2.16.840.1.1133883.17.3.10.1.28]

A collection vital signs observations

For any observation within the organizer, if the NEMESIS value is "Refused," the value SHALL be "NI;" the string "Refused" MAY be recorded in Observation.text.

1. **SHALL** contain exactly one [1..1] **templateId** () such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.1133883.17.3.10.1.28"
2. **SHALL** conform to [Consol Vital Signs Organizer](#) template (templateId: 2.16.840.1.1133883.10.20.22.4.26)
3. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:10257)
 - *NEMESIS Trace: EVitals.01*
4. **SHOULD** contain zero or one [0..1] **component** (CONF:11078)
 - a. This component **SHALL** contain exactly one [1..1] **observation**, where its type is [Systolic Blood Pressure](#) (CONF:11077)
 - a. Contains exactly one [1..1] [Systolic Blood Pressure](#) (templateId: 2.16.840.1.1133883.17.3.10.1.23.1)
5. **SHOULD** contain zero or one [0..1] **component** (CONF:11080)
 - a. This component **SHALL** contain exactly one [1..1] **observation**, where its type is [Diastolic Blood Pressure](#) (CONF:11079)
 - a. Contains exactly one [1..1] [Diastolic Blood Pressure](#) (templateId: 2.16.840.1.1133883.17.3.10.1.144)
6. **SHOULD** contain zero or one [0..1] **component** (CONF:11082)
 - a. This component **SHALL** contain exactly one [1..1] **observation**, where its type is [Heart Rate](#) (CONF:11081)
 - a. Contains exactly one [1..1] [Heart Rate](#) (templateId: 2.16.840.1.1133883.17.3.10.1.145)
7. **SHOULD** contain zero or one [0..1] **component** (CONF:11084)
 - a. This component **SHALL** contain exactly one [1..1] **observation**, where its type is [Respiratory Rate](#) (CONF:11083)
 - a. Contains exactly one [1..1] [Respiratory Rate](#) (templateId: 2.16.840.1.1133883.17.3.10.1.146)
8. **SHOULD** contain zero or one [0..1] **component** (CONF:11086)
 - a. This component **SHALL** contain exactly one [1..1] **observation**, where its type is [Body Temperature](#) (CONF:11085)
 - a. Contains exactly one [1..1] [Body Temperature](#) (templateId: 2.16.840.1.1133883.17.3.10.1.176)
9. **SHOULD** contain zero or one [0..1] **component** (CONF:11090)
 - a. This component **SHALL** contain exactly one [1..1] **observation**, where its type is [Oxygen Saturation](#) (CONF:11087)
 - a. Contains exactly one [1..1] [Oxygen Saturation](#) (templateId: 2.16.840.1.1133883.17.3.10.1.177)
10. Contains zero or one [0..1] **component**
 - a. Contains exactly one [1..1] [Prior Aid Vitals](#) (templateId: 2.16.840.1.1133883.17.3.10.1.29)

Chapter

5

VALUE SETS

Topics:

- *AED Use Prior To EMS Arrival*
- *Abdomen Assessment Finding*
- *Abdominal Finding Location*
- *Administrative Gender*
- *Administrative Gender Excluding Nulls*
- *Advance Directive Type*
- *Airbag Status*
- *Airway Device Confirmation Method*
- *Airway Device Type*
- *Alcohol Drug Use Indicator*
- *Anatomic Location*
- *Back Spine Assessment Finding*
- *Back Spine Finding Location*
- *Barrier To Care*
- *Cardiac Arrest Cause*
- *Cardiac Arrest Timing*
- *Cardiac Arrest Witness Role*
- *Cardiac Rhythm Reading*
- *Cardiopulmonary Resuscitation Type*
- *Chest Lung Assessment Finding*
- *Complaint*
- *Complaint Type*
- *Confidentiality*
- *Destination Choice Reason*
- *Destination Prearrival Activation*
- *Destination Type*
- *Disaster Type*
- *Dispatch Delay Type*
- *ECG Type*
- *EMD Performed*
- *EMS Level Of Service*
- *EMS Medication Administration Device*

The following tables summarize the value sets used in this Implementation Guide.

- *Ethnicity*
- *Ethnicity Group*
- *Existence Of Contraindications To Thrombolytic Use*
- *Extremities Assessment Finding*
- *Extremity Finding Location*
- *Eye Assessment Finding*
- *Eye Finding Location*
- *FDA Route of Administration*
- *Face Assessment Finding*
- *First Monitored Rhythm*
- *Glasgow Coma Score Special Circumstances*
- *HL7 Administrative Gender*
- *HL7 Confidentiality*
- *HL7 Human Language*
- *Head Assessment Finding*
- *Heart Assessment Finding*
- *Human language*
- *IC D-10*
- *ICD-10 CM*
- *ICD-10 PCS*
- *IV Site*
- *Incident Outcome*
- *Injury Risk Factor*
- *LOINC*
- *Length Based Weight Class*
- *Level Of Responsiveness*
- *Mechanism Of Injury*
- *Medication Administration Route*
- *Medication Authorization Type*
- *Medication Complication*
- *Medication Not Given Reason*
- *Mental Status Finding*
- *Method Of ECG Interpretation*
- *Neck Assessment Finding*
- *Neurological Assessment Finding*
- *Non Drug Allergy Type*
- *Organ System*
- *Patient Condition Change*
- *Patient Status*
- *Pelvis Genitourinary Assessment*
- *Pregnancy*
- *Prior Care Provider Role*
- *Procedure Complication Type*

- *Protocol*
- *Protocol Age Category*
- *Provider Adverse Event Type*
- *Provider Response Role*
- *Provider Role*
- *Provider Role Level*
- *Race and Ethnicity - CDC*
- *Race Category*
- *Reason Procedure not Performed*
- *Reason Procedure not Performed Superset*
- *Registry Type*
- *Response Delay Type*
- *Resuscitation Not Attempted Reason*
- *Resuscitation Discontinue Reason*
- *Return Of Spontaneous Circulation*
- *Rx Norm*
- *Safety Equipment Type*
- *Scene Delay Type*
- *Service Level*
- *Service Type*
- *Skin Assessment*
- *Stroke Scale*
- *Stroke Scale Interpretation*
- *Transport Delay Type*
- *Transport Method*
- *Transportation Mode*
- *Trauma Center Criteria*
- *Turn Around Delay Type*
- *Unit Response Role*
- *Vehicle Impact Area*
- *Vehicle Passenger Location*

AED Use Prior To EMS Arrival

Value Set	AEDUsePriorToEMSArrival - 2.16.840.1.113883.17.3.11.13
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Use of automated electronic defibrillator, with or without defibrillation

Code	Code System	Print Name
LA17066-4	LOINC	Yes, with defibrillation
LA17067-2	LOINC	Yes, applied without defibrillation
LA32-8	LOINC	No

Abdomen Assessment Finding

Value Set	AbdomenAssessmentFinding - 2.16.840.1.113883.17.3.11.31
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Finding resulting from EMS abdominal assessment

Code	Code System	Print Name
LA17208-2	LOINC	Bleeding controlled
LA17209-0	LOINC	Bleeding uncontrolled
LA17213-2	LOINC	Mass/lesion
LA17214-0	LOINC	Puncture/stab wound
LA17215-7	LOINC	Swelling/bruising/contusion with pain
LA17220-7	LOINC	Swelling/bruising/contusion without pain
LA17242-1	LOINC	Distention
LA17243-9	LOINC	Guarding
LA17244-7	LOINC	Gunshot wound-entry
LA17245-4	LOINC	Gunshot wound-exit
LA17246-2	LOINC	Mass-pulsating
LA17247-0	LOINC	Pregnant-palpable uterus
LA17709-9	LOINC	Tenderness
LA18220-6	LOINC	Avulsion
LA18221-4	LOINC	Burn, blistering
LA18222-2	LOINC	Burn, charring
LA18223-0	LOINC	Burn, redness
LA18224-8	LOINC	Burn, white/waxy
LA18226-3	LOINC	Foreign body
LA18247-9	LOINC	Bowel sounds-absent

Code	Code System	Print Name
LA18248-7	LOINC	Bowel sounds-present
LA6626-1	LOINC	Normal
LA6630-3	LOINC	Not done
LA7410-9	LOINC	Abrasion
LA7452-1	LOINC	Laceration
LA7460-4	LOINC	Pain

Abdominal Finding Location

Value Set	AbdominalFindingLocation - 2.16.840.1.113883.17.3.11.32
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Location of finding resulting from EMS abdominal assessment

Code	Code System	Print Name
LA12698-9	LOINC	Left upper quadrant
LA18721-3	LOINC	Generalized
LA18722-1	LOINC	Left lower quadrant
LA18723-9	LOINC	Right upper quadrant
LA18724-7	LOINC	Periumbilical
LA18725-4	LOINC	Right lower quadrant

Administrative Gender

Value Set	Administrative Gender - 2.16.840.1.113883.1.11.1
Code System	HL7 Administrative Gender - 2.16.840.1.113883.5.1
Definition	Gender of the patient for administrative purposes

Administrative Gender Excluding Nulls

Value Set	Administrative Gender Excluding Nulls - (OID not specified)	
Code	Code System	Print Name
M	AdministrativeGenderCode Male	
F	AdministrativeGenderCode Female	

Advance Directive Type

Value Set	AdvanceDirectiveType - 2.16.840.1.113883.17.3.11.63
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Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Type of advance directive documentation

Code	Code System	Print Name
LA137-2	LOINC	None
LA17059-9	LOINC	Other (not listed)
LA17319-7	LOINC	State EMS DNR or medical order form
LA17320-5	LOINC	Other healthcare advanced directive form
LA17321-3	LOINC	Living will
LA17322-1	LOINC	Family/guardian request DNR (but no documentation)

Airbag Status

Value Set	AirbagStatus - 2.16.840.1.113883.17.3.11.8
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Configuration of airbag deployment

Code	Code System	Print Name
LA17384-1	LOINC	Airbag deployed front
LA17385-8	LOINC	Airbag deployed side
LA17386-6	LOINC	Airbag deployed other (knee, airbelt, etc.)
LA17387-4	LOINC	No airbag deployed
LA17388-2	LOINC	No airbag present
LA46-8	LOINC	Other

Airway Device Confirmation Method

Value Set	AirwayDeviceConfirmationMethod - 2.16.840.1.113883.17.3.11.60
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Procedure for confirming airway device placement

Code	Code System	Print Name
LA18672-8	LOINC	Auscultation
LA18673-6	LOINC	Bulb syringe aspiration
LA18674-4	LOINC	Colorimetric ETCO2
LA18675-1	LOINC	Condensation in tube
LA18676-9	LOINC	Digital (numeric) ETCO2
LA18677-7	LOINC	Direct re-visualization of tube in place
LA18678-5	LOINC	Endotracheal tube whistle (BAAM, etc)

Code	Code System	Print Name
LA18679-3	LOINC	Other airway device placement confirmation
LA18680-1	LOINC	Visualization of vocal cords
LA18681-9	LOINC	Waveform ETCO2

Airway Device Type

Value Set	AirwayDeviceType - 2.16.840.1.113883.17.3.11.61
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Kind of airway device

Code	Code System	Print Name
LA18004-4	LOINC	Tracheostomy tube
LA18657-9	LOINC	Cricothyrotomy tube
LA18658-7	LOINC	Endotrachial tube
LA18659-5	LOINC	Other invasive airway
LA18660-3	LOINC	Supraglottic airway device-combitube
LA18661-1	LOINC	Supraglottic airway device-king
LA18662-9	LOINC	Supraglottic airway device-LMA
LA18663-7	LOINC	Supraglottic airway device-other

Alcohol Drug Use Indicator

Value Set	AlcoholDrugUseIndicator - 2.16.840.1.113883.17.3.11.18
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Indications that a patient may have engaged in alcohol or drug use

Code	Code System	Print Name
LA17323-9	LOINC	Alcohol containers/paraphernalia at scene
LA17324-7	LOINC	Drug paraphernalia at scene
LA17325-4	LOINC	Patient admits to alcohol use
LA17326-2	LOINC	Patient admits to drug use
LA17327-0	LOINC	Positive level known from law enforcement or hospital record
LA17328-8	LOINC	Smell of alcohol on breath

Anatomic Location

Value Set	AnatomicLocation - 2.16.840.1.113883.17.3.11.76
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Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Part of the patient body

Code	Code System	Print Name
LA12703-7	LOINC	Neck
LA12705-2	LOINC	Back
LA12706-0	LOINC	Abdomen
LA18111-7	LOINC	Chest
LA18112-5	LOINC	Extremity-lower
LA18113-3	LOINC	Extremity-upper
LA18114-1	LOINC	General/global
LA18115-8	LOINC	Genitalia
LA18116-6	LOINC	Head

Back Spine Assessment Finding

Value Set	BackSpineAssessmentFinding - 2.16.840.1.113883.17.3.11.34
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Finding resulting from EMS back and spine assessment

Code	Code System	Print Name
LA17208-2	LOINC	Bleeding controlled
LA17209-0	LOINC	Bleeding uncontrolled
LA17214-0	LOINC	Puncture/stab wound
LA17215-7	LOINC	Swelling/bruising/contusion with pain
LA17220-7	LOINC	Swelling/bruising/contusion without pain
LA17244-7	LOINC	Gunshot wound-entry
LA17245-4	LOINC	Gunshot wound-exit
LA17256-1	LOINC	Pain with range of motion
LA17257-9	LOINC	Tenderness costovertebral angle (CVA)
LA17258-7	LOINC	Tenderness midline spinous process
LA17259-5	LOINC	Tenderness paraspinous
LA18220-6	LOINC	Avulsion
LA18221-4	LOINC	Burn, blistering
LA18222-2	LOINC	Burn, charring
LA18223-0	LOINC	Burn, redness
LA18224-8	LOINC	Burn, white/waxy
LA18225-5	LOINC	Deformity

Code	Code System	Print Name
LA18226-3	LOINC	Foreign body
LA6626-1	LOINC	Normal
LA6630-3	LOINC	Not done
LA7410-9	LOINC	Abrasion
LA7452-1	LOINC	Laceration
LA7460-4	LOINC	Pain

Back Spine Finding Location

Value Set	BackSpineFindingLocation - 2.16.840.1.113883.17.3.11.35
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Location of finding resulting from EMS back and spine assessment

Code	Code System	Print Name
LA18726-2	LOINC	Back-general
LA18727-0	LOINC	Cervical-left
LA18728-8	LOINC	Cervical-midline
LA18729-6	LOINC	Cervical-right
LA18730-4	LOINC	Lumbar-left
LA18731-2	LOINC	Lumbar-right
LA18732-0	LOINC	Sacral-right
LA18733-8	LOINC	Sacral-left
LA18734-6	LOINC	Sacral-midline
LA18735-3	LOINC	Lumbar-midline
LA18736-1	LOINC	Thoracic-midline
LA18737-9	LOINC	Thoracic-left
LA18738-7	LOINC	Thoracic-right

Barrier To Care

Value Set	BarrierToCare - 2.16.840.1.113883.17.3.11.85
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Circumstances limiting one's ability to provide care to a patient

Code	Code System	Print Name
LA17306-4	LOINC	Cultural, custom, religious
LA17307-2	LOINC	Developmentally impaired

Code	Code System	Print Name
LA17308-0	LOINC	Hearing impaired
LA17309-8	LOINC	Language
LA17310-6	LOINC	Physical barrier (unable to access patient)
LA17311-4	LOINC	Physically impaired
LA17312-2	LOINC	Physically restrained
LA17313-0	LOINC	Psychologically impaired
LA17314-8	LOINC	Sight impaired
LA17315-5	LOINC	Speech impaired
LA17316-3	LOINC	Unattended or unsupervised (including minors)
LA17317-1	LOINC	Uncooperative
LA17318-9	LOINC	None noted
LA17711-5	LOINC	Unconscious
LA6301-1	LOINC	Obesity

Cardiac Arrest Cause

Value Set	CardiacArrestCause - 2.16.840.1.113883.17.3.11.10
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Etiology of a cardiac arrest

Code	Code System	Print Name
LA17056-5	LOINC	Cardiac (presumed)
LA17058-1	LOINC	Trauma
LA17059-9	LOINC	Other (not listed)
LA17977-2	LOINC	Drowning/submersion
LA17978-0	LOINC	Drug overdose
LA17979-8	LOINC	Exsanguination
LA17980-6	LOINC	Respiratory/asphyxia
LA9539-3	LOINC	Electrocution

Cardiac Arrest Timing

Value Set	CardiacArrestTiming - 2.16.840.1.113883.17.3.11.91
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Whether cardiac arrest occurred before or after arrival of emergency medical service team

Code	Code System	Print Name
LA17054-0	LOINC	Prior to EMS arrival
LA17055-7	LOINC	After EMS arrival

Cardiac Arrest Witness Role

Value Set	CardiacArrestWitnessRole - 2.16.840.1.113883.17.3.11.11
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Kind of person who witnessed a cardiac arrest

Code	Code System	Print Name
LA18020-0	LOINC	Witnessed by family member
LA18021-8	LOINC	Witnessed by healthcare provider
LA18022-6	LOINC	Witnessed by lay person
LA18023-4	LOINC	Not witnessed

Cardiac Rhythm Reading

Value Set	CardiacRhythmReading - 2.16.840.1.113883.17.3.11.16
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Kind of rhythm found in a cardiac arrest patient

Code	Code System	Print Name
LA12904-1	LOINC	Artifact
LA17059-9	LOINC	Other (not listed)
LA17068-0	LOINC	Asystole
LA17070-6	LOINC	PEA
LA17071-4	LOINC	Unknown AED non-shockable rhythm
LA17072-2	LOINC	Unknown AED shockable rhythm
LA17073-0	LOINC	Ventricular fibrillation
LA17074-8	LOINC	Ventricular tachycardia-pulseless
LA17083-9	LOINC	Agonal/idioventricular
LA17084-7	LOINC	Atrial fibrillation
LA17085-4	LOINC	Atrial flutter
LA17086-2	LOINC	AV block-1st degree
LA17087-0	LOINC	AV block-2nd degree-type 1
LA17088-8	LOINC	AV block-2nd degree-type 2
LA17089-6	LOINC	AV block-3rd degree

Code	Code System	Print Name
LA17090-4	LOINC	Junctional
LA17091-2	LOINC	Left bundle branch block
LA17093-8	LOINC	Paced rhythm
LA17094-6	LOINC	Premature atrial contractions
LA17095-3	LOINC	Premature ventricular contractions
LA17096-1	LOINC	Right bundle branch block
LA17097-9	LOINC	Sinus arrhythmia
LA17394-0	LOINC	Bradycardia
LA17099-5	LOINC	Sinus tachycardia
LA17100-1	LOINC	Supraventricular tachycardia
LA17101-9	LOINC	Torsades de points
LA17703-2	LOINC	STEMI-anterior ischemia
LA17704-0	LOINC	STEMI-inferior ischemia
LA17705-7	LOINC	STEMI-lateral ischemia
LA17706-5	LOINC	STEMI-posterior ischemia
LA17708-1	LOINC	Ventricular tachycardia with pulse
LA17718-0	LOINC	Sinus rhythm
LA18205-7	LOINC	Non-STEMI anterior ischemia
LA18206-5	LOINC	Non-STEMI inferior ischemia
LA18207-3	LOINC	Non-STEMI lateral ischemia
LA18208-1	LOINC	Non-STEMI posterior ischemia

Cardiopulmonary Resuscitation Type

Value Set	CardiopulmonaryResuscitationType - 2.16.840.1.113883.17.3.11.57
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Kind of procedure used for cardiopulmonary resuscitation

Code	Code System	Print Name
LA17749-5	LOINC	Compressions-continuous
LA17750-3	LOINC	Compressions-external band type device
LA17751-1	LOINC	Compressions-external plunger type device
LA17752-9	LOINC	Compressions-external thumper type device
LA17753-7	LOINC	Compressions-intermittant with ventilation
LA17754-5	LOINC	Compressions-other device (not listed)
LA17755-2	LOINC	Ventilation-bag valve mask
LA17756-0	LOINC	Ventilation-impedence threshold device

Code	Code System	Print Name
LA17757-8	LOINC	Ventilation-mouth to mouth
LA17758-6	LOINC	Ventilation-pocket mask

Chest Lung Assessment Finding

Value Set	ChestLungAssessmentFinding - 2.16.840.1.113883.17.3.11.29
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Finding resulting from EMS chest and lung assessment

Code	Code System	Print Name
LA17208-2	LOINC	Bleeding controlled
LA17209-0	LOINC	Bleeding uncontrolled
LA17214-0	LOINC	Puncture/stab wound
LA17215-7	LOINC	Swelling/bruising/contusion with pain
LA17220-7	LOINC	Swelling/bruising/contusion without pain
LA17222-3	LOINC	Accessory muscles used with breathing
LA17223-1	LOINC	Breath sounds-absent-left
LA17224-9	LOINC	Breath sounds-absent-right
LA17225-6	LOINC	Breath sounds-decreased-left
LA17226-4	LOINC	Breath sounds-decreased-right
LA17227-2	LOINC	Breath sounds-normal-left
LA17228-0	LOINC	Breath sounds-normal-right
LA17229-8	LOINC	Crush injury
LA17230-6	LOINC	Flail segment-left
LA17231-4	LOINC	Flail segment-right
LA17232-2	LOINC	Increased respiratory effort
LA17233-0	LOINC	Pain with inspiration/expiration-left
LA17234-8	LOINC	Pain with inspiration/expiration-right
LA17236-3	LOINC	Rhonchi/wheezing
LA17237-1	LOINC	Tenderness-left
LA17238-9	LOINC	Tenderness-right
LA17244-7	LOINC	Gunshot wound-entry
LA17245-4	LOINC	Gunshot wound-exit
LA18220-6	LOINC	Avulsion
LA18221-4	LOINC	Burn, blistering
LA18222-2	LOINC	Burn, charring
LA18223-0	LOINC	Burn, redness

Code	Code System	Print Name
LA18224-8	LOINC	Burn, white/waxy
LA18225-5	LOINC	Deformity
LA18226-3	LOINC	Foreign body
LA18229-7	LOINC	Rales-left
LA18230-5	LOINC	Rales-right
LA18231-3	LOINC	Retraction
LA18232-1	LOINC	Rhonchi-left
LA18233-9	LOINC	Rhonchi-right
LA18234-7	LOINC	Stridor-left
LA18235-4	LOINC	Stridor-right
LA18236-2	LOINC	Implanted device
LA18237-0	LOINC	Wheezing-expiratory-right
LA18238-8	LOINC	Wheezing-expiratory-left
LA18239-6	LOINC	Wheezing-inspiratory-left
LA18240-4	LOINC	Wheezing-inspiratory-right
LA18402-0	LOINC	Breath sounds-equal
LA6626-1	LOINC	Normal
LA6630-3	LOINC	Not done
LA7410-9	LOINC	Abrasion
LA7452-1	LOINC	Laceration
LA7460-4	LOINC	Pain

Complaint

Value Set	Complaint - 2.16.840.1.113883.17.3.11.49
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Kind of medical problem or incident reported

Code	Code System	Print Name
LA15468-4	LOINC	Abdominal pain
LA15903-0	LOINC	Headache
LA17117-5	LOINC	Allergic reaction/stings
LA17118-3	LOINC	Animal bite
LA17119-1	LOINC	Assault
LA17120-9	LOINC	Automated crash notification
LA17121-7	LOINC	Back pain (non-traumatic)
LA17122-5	LOINC	Breathing problems

Code	Code System	Print Name
LA17123-3	LOINC	Burns/explosion
LA17124-1	LOINC	Carbon monoxide poisoning/hazmat/inhalation/ chemical/biological/radiological/nuclear
LA17125-8	LOINC	Cardiac arrest/death
LA17126-6	LOINC	Chest pain (non-traumatic)
LA17127-4	LOINC	Choking
LA17128-2	LOINC	Convulsions/seizure
LA17129-0	LOINC	Diabetic problem
LA17131-6	LOINC	Electrocution/lightning
LA17132-4	LOINC	Eye problem/injury
LA17133-2	LOINC	Falls
LA17134-0	LOINC	Healthcare professional/admission
LA17135-7	LOINC	Heart problems/AICD
LA17136-5	LOINC	Heat/cold exposure
LA17137-3	LOINC	Hemorrhage/lacerations
LA17138-1	LOINC	Industrial accident/inaccessible incident/other entrapments (non-vehicle)
LA17140-7	LOINC	Overdose/poisoning/ingestion
LA17141-5	LOINC	Pandemic/epidemic/outbreak
LA17142-3	LOINC	Pregnancy/childbirth/miscarriage
LA17143-1	LOINC	Psychiatric problem/abnormal behavior/suicide attempt
LA17144-9	LOINC	Sick person
LA17145-6	LOINC	Stab/gunshot wound/penetrating trauma
LA17146-4	LOINC	Traffic/transportation incident
LA17147-2	LOINC	Transfer/interfacility/palliative Care
LA17148-0	LOINC	Unconscious/fainting/near-fainting
LA17149-8	LOINC	Unknown problem person down
LA17150-6	LOINC	Standby
LA18093-7	LOINC	Fire
LA18209-9	LOINC	No other appropriate choice
LA18210-7	LOINC	Medical alarm
LA18211-5	LOINC	Well person check
LA9553-4	LOINC	Stroke/CVA
LA9555-9	LOINC	Traumatic injury

Complaint Type

Value Set	Complaint Type - 2.16.840.1.113883.17.3.11.94
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Relative primacy of complaint

Code	Code System	Print Name
LA17059-9	LOINC	Other (not listed)
LA18923-5	LOINC	Chief - primary
LA18924-3	LOINC	Secondary

Confidentiality

Value Set	Confidentiality - 2.16.840.1.113883.1.11.10228
Code System	HL7 Confidentiality - 2.16.840.1.113883.5.25
Definition	Appropriateness for disclosure of information

Destination Choice Reason

Value Set	DestinationChoiceReason - 2.16.840.1.113883.17.3.11.68
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Kind of rationale for selecting a patient destination

Code	Code System	Print Name
LA17059-9	LOINC	Other (not listed)
LA17182-9	LOINC	Closest facility
LA17184-5	LOINC	Family choice
LA17185-2	LOINC	Insurance status/requirement
LA17186-0	LOINC	Law enforcement choice
LA17187-8	LOINC	On-line medical direction
LA17188-6	LOINC	Patient's choice
LA17189-4	LOINC	Patient's physician's choice
LA17190-2	LOINC	Protocol
LA17191-0	LOINC	Regional specialty center
LA18301-4	LOINC	Diversion

Destination Prearrival Activation

Value Set	DestinationPrearrivalActivation - 2.16.840.1.113883.17.3.11.87
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Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Kind of preparation requested at destination prior to patient arrival

Code	Code System	Print Name
LA18117-4	LOINC	Yes, adult trauma
LA18118-2	LOINC	Yes, cardiac arrest
LA18119-0	LOINC	Yes, obstetrics
LA18120-8	LOINC	Yes, other
LA18121-6	LOINC	Yes, pediatric trauma
LA18122-4	LOINC	Yes, STEMI
LA18123-2	LOINC	Yes, stroke
LA32-8	LOINC	No

Destination Type

Value Set	DestinationType - 2.16.840.1.113883.17.3.11.69
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Kind of facility

Code	Code System	Print Name
LA11504-0	LOINC	Hospital emergency department
LA14084-0	LOINC	Home
LA18686-8	LOINC	Hospital non-emergency department bed
LA18687-6	LOINC	Medical office/clinic
LA18688-4	LOINC	Morgue/mortuary
LA18689-2	LOINC	Nursing home/assisted living facility
LA18690-0	LOINC	Other destination
LA18691-8	LOINC	Other EMS responder (air)
LA18692-6	LOINC	Other EMS responder (ground)
LA18693-4	LOINC	Police/jail

Disaster Type

Value Set	DisasterType - 2.16.840.1.113883.17.3.11.9
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Kind of incident resulting in or likely to result in injuries or clinically adverse events

Code	Code System	Print Name
LA17594-5	LOINC	Weather

Code	Code System	Print Name
LA18089-5	LOINC	Biologic agent
LA18090-3	LOINC	Building failure
LA18091-1	LOINC	Chemical agent
LA18092-9	LOINC	Explosive device
LA18093-7	LOINC	Fire
LA18094-5	LOINC	Hostage event
LA18095-2	LOINC	Mass gathering
LA18096-0	LOINC	Mass illness
LA18097-8	LOINC	Nuclear agent
LA18098-6	LOINC	Radioactive device
LA18099-4	LOINC	Secondary destructive device
LA18100-0	LOINC	Shooting/sniper
LA18101-8	LOINC	Vehicular

Dispatch Delay Type

Value Set	DispatchDelayType - 2.16.840.1.113883.17.3.11.50
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Kind of circumstance delaying an EMS dispatch

Code	Code System	Print Name
LA17059-9	LOINC	Other (not listed)
LA17183-7	LOINC	Diversion/failure (of previous unit)
LA17579-6	LOINC	Caller (uncooperative)
LA17580-4	LOINC	High call volume
LA17581-2	LOINC	Location (inability to obtain)
LA17582-0	LOINC	No EMS vehicles (units) available
LA17584-6	LOINC	Technical failure (computer, phone etc.)
LA18081-2	LOINC	None/no delay
LA7540-3	LOINC	Language barrier

ECG Type

Value Set	ECGType - 2.16.840.1.113883.17.3.11.19
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Kind of electrocardiogram equipment

Code	Code System	Print Name
LA18664-5	LOINC	3 lead
LA18665-2	LOINC	4 lead
LA18666-0	LOINC	5 lead
LA18667-8	LOINC	12 lead-left sided (normal)
LA18668-6	LOINC	12 lead-right sided
LA18669-4	LOINC	15 lead
LA18670-2	LOINC	18 lead
LA18671-0	LOINC	Other ECG device

EMD Performed

Value Set	EMDPerformed - 2.16.840.1.113883.17.3.11.48
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Manner of performing emergency medical dispatch

Code	Code System	Print Name
LA17151-4	LOINC	Yes, with pre-arrival instructions
LA17152-2	LOINC	Yes, without pre-arrival instructions
LA17153-0	LOINC	Yes, unknown if pre-arrival instructions given
LA32-8	LOINC	No

EMS Level Of Service

Value Set	EMSLevelOfService - 2.16.840.1.113883.17.3.11.70
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Level of service provided for an encounter (as defined by CMS)

Code	Code System	Print Name
LA18102-6	LOINC	ALS, level 1
LA18103-4	LOINC	ALS, level 1 emergency
LA18104-2	LOINC	ALS, level 2
LA18105-9	LOINC	BLS
LA18106-7	LOINC	BLS, emergency
LA18107-5	LOINC	Fixed wing (airplane)
LA18108-3	LOINC	Paramedic intercept
LA18109-1	LOINC	Specialty care transport
LA18110-9	LOINC	Rotary wing (helicopter)

EMS Medication Administration Device

Value Set	EMSMedicationAdministrationDevice - 2.16.840.1.113883.17.3.11.100
Code System	SNOMEDCT - 2.16.840.1.113883.6.96
Definition	Kind of device used to administer a substance to a patient

Code	Code System	Print Name
39849001	SNOMEDCT	Nasal Oxygen Cannula
427591007	SNOMEDCT	Non-Rebreather Oxygen Mask
425926003	SNOMEDCT	Partial Rebreather Oxygen Mask
428285009	SNOMEDCT	Venturi Mask

Ethnicity

Value Set	Ethnicity - 2.16.840.1.113883.1.11.15836
Code System	Race and Ethnicity - CDC - 2.16.840.1.113883.6.238
Definition	Person's ethnic background

Ethnicity Group

Value Set	Ethnicity Group - 2.16.840.1.114222.4.11.837
Code System	Race and Ethnicity - CDC - 2.16.840.1.113883.6.238

Code	Code System	Print Name
2135-2	Race and Ethnicity - CDC	Hispanic or Latino
2186-5	Race and Ethnicity - CDC	Not Hispanic or Latino

Existence Of Contraindications To Thrombolytic Use

Value Set	ExistenceOfContraindicationsToThrombolyticUse - 2.16.840.1.113883.17.3.11.41
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Confidence that contraindication to thrombolytic use exist

Code	Code System	Print Name
LA17114-2	LOINC	Definite contraindications to thrombolytic use
LA17115-9	LOINC	Possible contraindications to thrombolytic Use
LA17116-7	LOINC	No contraindications to thrombolytic Use

Extremities Assessment Finding

Value Set	ExtremitiesAssessmentFinding - 2.16.840.1.113883.17.3.11.36
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Finding resulting from EMS extremity assessment

Code	Code System	Print Name
LA17208-2	LOINC	Bleeding controlled
LA17209-0	LOINC	Bleeding uncontrolled
LA17214-0	LOINC	Puncture/stab wound
LA17215-7	LOINC	Swelling/bruising/contusion with pain
LA17220-7	LOINC	Swelling/bruising/contusion without pain
LA17229-8	LOINC	Crush injury
LA17244-7	LOINC	Gunshot wound-entry
LA17245-4	LOINC	Gunshot wound-exit
LA17260-3	LOINC	Amputation-acute
LA17261-1	LOINC	Amputation-previous
LA17262-9	LOINC	Dislocation
LA17263-7	LOINC	Edema
LA17264-5	LOINC	Fracture-closed
LA17265-2	LOINC	Fracture-open
LA17266-0	LOINC	Motor function-abnormal/weakness
LA17267-8	LOINC	Motor function-absent
LA17268-6	LOINC	Motor function-normal
LA17269-4	LOINC	Pulse-abnormal
LA17270-2	LOINC	Pulse-absent
LA17271-0	LOINC	Pulse-normal
LA17272-8	LOINC	Sensation-abnormal
LA17273-6	LOINC	Sensation-absent
LA17274-4	LOINC	Sensation-normal
LA17344-5	LOINC	Paralysis
LA17709-9	LOINC	Tenderness
LA18220-6	LOINC	Avulsion
LA18222-2	LOINC	Burn, charring
LA18223-0	LOINC	Burn, redness
LA18224-8	LOINC	Burn, white/waxy
LA18225-5	LOINC	Deformity
LA18226-3	LOINC	Foreign body

Code	Code System	Print Name
LA18249-5	LOINC	Clubbing of fingers
LA6626-1	LOINC	Normal
LA6630-3	LOINC	Not done
LA7410-9	LOINC	Abrasion
LA7452-1	LOINC	Laceration
LA7460-4	LOINC	Pain

Extremity Finding Location

Value Set	ExtremityFindingLocation - 2.16.840.1.113883.17.3.11.37
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Location of finding resulting from EMS extremity assessment

Code	Code System	Print Name
LA18739-5	LOINC	Ankle-left
LA18740-3	LOINC	Ankle-right
LA18741-1	LOINC	Arm-upper-left
LA18742-9	LOINC	Arm-upper-right
LA18743-7	LOINC	Elbow-left
LA18744-5	LOINC	Elbow-right
LA18745-2	LOINC	Finger-2nd (index)-left
LA18746-0	LOINC	Finger-2nd (index)-right
LA18747-8	LOINC	Finger-3rd (middle)-left
LA18748-6	LOINC	Finger-3rd (middle)-right
LA18749-4	LOINC	Finger-4th (ring)-left
LA18750-2	LOINC	Finger-4th (ring)-right
LA18751-0	LOINC	Finger-5th (smallest)-left
LA18752-8	LOINC	Finger-5th (smallest)-right
LA18753-6	LOINC	Foot-dorsal-left
LA18754-4	LOINC	Foot-dorsal-right
LA18755-1	LOINC	Foot-plantar-right
LA18756-9	LOINC	Foot-plantar-left
LA18757-7	LOINC	Forearm-left
LA18758-5	LOINC	Forearm-right
LA18759-3	LOINC	Hand-dorsal-left
LA18760-1	LOINC	Hand-dorsal-right
LA18761-9	LOINC	Hand-palm-right

Code	Code System	Print Name
LA18762-7	LOINC	Hand-palm-left
LA18763-5	LOINC	Hip-left
LA18764-3	LOINC	Hip-right
LA18765-0	LOINC	Wrist-right
LA18766-8	LOINC	Wrist-left
LA18767-6	LOINC	Knee-left
LA18768-4	LOINC	Knee-right
LA18769-2	LOINC	Leg-lower-left
LA18770-0	LOINC	Leg-lower-right
LA18771-8	LOINC	Leg-upper-right
LA18772-6	LOINC	Leg-upper-left
LA18773-4	LOINC	Shoulder-left
LA18774-2	LOINC	Shoulder-right
LA18775-9	LOINC	Thumb-left
LA18776-7	LOINC	Thumb-right
LA18777-5	LOINC	Toe-1st (big)-left
LA18778-3	LOINC	Toe-1st (big)-right
LA18779-1	LOINC	Toe-2nd-left
LA18780-9	LOINC	Toe-2nd-right
LA18781-7	LOINC	Toe-3rd-left
LA18782-5	LOINC	Toe-3rd-right
LA18783-3	LOINC	Toe-4th-left
LA18784-1	LOINC	Toe-4th-right
LA18785-8	LOINC	Toe-5th (smallest)-left
LA18786-6	LOINC	Toe-5th (smallest)-right

Eye Assessment Finding

Value Set	EyeAssessmentFinding - 2.16.840.1.113883.17.3.11.38
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Finding resulting from EMS eye assessment

Code	Code System	Print Name
LA14698-7	LOINC	Missing
LA15255-5	LOINC	Reactive
LA15256-3	LOINC	Nonreactive
LA17275-1	LOINC	1 mm

Code	Code System	Print Name
LA17276-9	LOINC	2 mm
LA17277-7	LOINC	3 mm
LA17278-5	LOINC	4 mm
LA17279-3	LOINC	5 mm
LA17280-1	LOINC	6 mm
LA17281-9	LOINC	7 mm
LA17282-7	LOINC	Clouded
LA17283-5	LOINC	Hyphema
LA17284-3	LOINC	Open globe
LA17285-0	LOINC	Pupil-irregular/teardrop
LA17710-7	LOINC	Blind
LA18225-5	LOINC	Deformity
LA18226-3	LOINC	Foreign body
LA18250-3	LOINC	Cataract present
LA18251-1	LOINC	Dysconjugate gaze
LA18253-7	LOINC	Jaundiced sclera
LA18254-5	LOINC	Nonreactive prosthetic
LA18255-2	LOINC	Nystagmus noted
LA18256-0	LOINC	PERRL
LA18257-8	LOINC	Sluggish
LA18258-6	LOINC	8 mm or >
LA6630-3	LOINC	Not done

Eye Finding Location

Value Set	EyeFindingLocation - 2.16.840.1.113883.17.3.11.39
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Location of finding resulting from EMS eye assessment

Code	Code System	Print Name
LA18787-4	LOINC	Eyes-bilateral
LA18788-2	LOINC	Eye-left
LA18789-0	LOINC	Eye-right

FDA Route of Administration

Value Set	FDA Route of Administration
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Face Assessment Finding

Value Set	FaceAssessmentFinding - 2.16.840.1.113883.17.3.11.27
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Finding resulting from EMS face assessment

Code	Code System	Print Name
LA17208-2	LOINC	Bleeding controlled
LA17209-0	LOINC	Bleeding uncontrolled
LA17210-8	LOINC	Decapitation
LA17211-6	LOINC	Drainage
LA17213-2	LOINC	Mass/lesion
LA17214-0	LOINC	Puncture/stab wound
LA17215-7	LOINC	Swelling/bruising/contusion with pain
LA17216-5	LOINC	Asymmetric smile or droop
LA17220-7	LOINC	Swelling/bruising/contusion without pain
LA17244-7	LOINC	Gunshot wound-entry
LA17245-4	LOINC	Gunshot wound-exit
LA18220-6	LOINC	Avulsion
LA18221-4	LOINC	Burn, blistering
LA18222-2	LOINC	Burn, charring
LA18223-0	LOINC	Burn, redness
LA18224-8	LOINC	Burn, white/waxy
LA18225-5	LOINC	Deformity
LA18226-3	LOINC	Foreign body
LA6626-1	LOINC	Normal
LA6630-3	LOINC	Not done
LA7410-9	LOINC	Abrasion
LA7452-1	LOINC	Laceration
LA7460-4	LOINC	Pain

First Monitored Rhythm

Value Set	FirstMonitoredRhythm - 2.16.840.1.113883.17.3.11.14
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Kind of rhythm found in a cardiac arrest patient on initial field examination

Code	Code System	Print Name
LA17068-0	LOINC	Asystole
LA17070-6	LOINC	PEA
LA17071-4	LOINC	Unknown AED non-shockable rhythm
LA17072-2	LOINC	Unknown AED shockable rhythm
LA17073-0	LOINC	Ventricular fibrillation
LA17074-8	LOINC	Ventricular tachycardia-pulseless
LA17394-0	LOINC	Bradycardia

Glasgow Coma Score Special Circumstances

Value Set	GlasgowComaScoreSpecialCircumstances - 2.16.840.1.113883.17.3.11.89	
Code System	LOINC - 2.16.840.1.113883.6.1	
Definition	Circumstance confounding the assessment of one or more Glasgow Coma Scale observations	

Code	Code System	Print Name
LA17102-7	LOINC	Initial GCS has legitimate values without interventions such as intubation and sedation
LA17103-5	LOINC	Eye obstruction prevents eye assessment
LA17104-3	LOINC	Patient chemically sedated
LA17105-0	LOINC	Patient chemically paralyzed
LA17106-8	LOINC	Patient intubated

HL7 Administrative Gender

Value Set	HL7 Administrative Gender
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HL7 Confidentiality

Value Set	HL7 Confidentiality
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HL7 Human Language

Value Set	HL7 Human Language
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Head Assessment Finding

Value Set	HeadAssessmentFinding - 2.16.840.1.113883.17.3.11.26
Code System	LOINC - 2.16.840.1.113883.6.1

Definition	Finding resulting from EMS head assessment	
Code	Code System	Print Name
LA17208-2	LOINC	Bleeding controlled
LA17209-0	LOINC	Bleeding uncontrolled
LA17210-8	LOINC	Decapitation
LA17211-6	LOINC	Drainage
LA17213-2	LOINC	Mass/lesion
LA17214-0	LOINC	Puncture/stab wound
LA17215-7	LOINC	Swelling/bruising/contusion with pain
LA17220-7	LOINC	Swelling/bruising/contusion without pain
LA17244-7	LOINC	Gunshot wound-entry
LA17245-4	LOINC	Gunshot wound-exit
LA18220-6	LOINC	Avulsion
LA18221-4	LOINC	Burn, blistering
LA18222-2	LOINC	Burn, charring
LA18223-0	LOINC	Burn, redness
LA18224-8	LOINC	Burn, white/waxy
LA18225-5	LOINC	Deformity
LA18226-3	LOINC	Foreign body
LA6626-1	LOINC	Normal
LA6630-3	LOINC	Not done
LA7410-9	LOINC	Abrasion
LA7452-1	LOINC	Laceration
LA7460-4	LOINC	Pain

Heart Assessment Finding

Value Set	HeartAssessmentFinding - 2.16.840.1.113883.17.3.11.30	
Code System	LOINC - 2.16.840.1.113883.6.1	
Definition	Finding resulting from EMS heart assessment	
Code	Code System	Print Name
LA17239-7	LOINC	Heart sounds decreased
LA17240-5	LOINC	Murmur-diastolic
LA17241-3	LOINC	Murmur-systolic
LA18241-2	LOINC	Clicks
LA18242-0	LOINC	S1

Code	Code System	Print Name
LA18243-8	LOINC	S2
LA18244-6	LOINC	S3
LA18245-3	LOINC	S4
LA18246-1	LOINC	Rubs
LA6626-1	LOINC	Normal
LA6630-3	LOINC	Not done

Human language

Value Set	Human language - 2.16.840.1.113883.1.11.11526
Code System	HL7 Human Language - 2.16.840.1.113883.6.121

IC D-10

Value Set	ICD-10
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ICD-10 CM

Value Set	ICD-10 CM
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ICD-10 PCS

Value Set	ICD-10 PCS
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IV Site

Value Set	IVSite - 2.16.840.1.113883.17.3.11.56
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Body location of puncture for intravenous substance administration

Code	Code System	Print Name
LA18112-5	LOINC	Extremity-lower
LA18113-3	LOINC	Extremity-upper
LA18757-7	LOINC	Forearm-left
LA18758-5	LOINC	Forearm-right
LA18790-8	LOINC	Antecubital-left
LA18791-6	LOINC	Antecubital-right
LA18792-4	LOINC	External jugular-left

Code	Code System	Print Name
LA18793-2	LOINC	External jugular-right
LA18794-0	LOINC	Femoral-left
LA18795-7	LOINC	Femoral-right
LA18796-5	LOINC	Foot-left
LA18797-3	LOINC	Foot-right
LA18798-1	LOINC	Hand-right
LA18799-9	LOINC	Hand-left
LA18800-5	LOINC	Internal jugular-left
LA18801-3	LOINC	Internal jugular-right
LA18802-1	LOINC	IO-femur-left distal
LA18803-9	LOINC	IO-femur-right distal
LA18804-7	LOINC	IO-humerus-left
LA18805-4	LOINC	IO-humerus-right
LA18806-2	LOINC	IO-iliac crest-left
LA18807-0	LOINC	IO-iliac crest-right
LA18808-8	LOINC	IO-sternum
LA18809-6	LOINC	IO-tibia-left distal
LA18810-4	LOINC	IO-tibia-right distal
LA18811-2	LOINC	IO-tibia-left proximal
LA18812-0	LOINC	IO-tibia-right proximal
LA18813-8	LOINC	Other central access (PICC, portacath, not listed)
LA18814-6	LOINC	Other peripheral access (not listed)
LA18815-3	LOINC	Scalp
LA18816-1	LOINC	Subclavian-left
LA18817-9	LOINC	Subclavian-right
LA18818-7	LOINC	Umbilical

Incident Outcome

Value Set	IncidentOutcome - 2.16.840.1.113883.17.3.11.64
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Outcome of an emergency medical services encounter

Code	Code System	Print Name
LA17154-8	LOINC	Patient treated, transported by EMS
LA17155-5	LOINC	Canceled (prior to arrival at scene)
LA17156-3	LOINC	No patient found (canceled on scene)

Code	Code System	Print Name
LA17157-1	LOINC	Patient dead at scene-no EMS transport
LA17158-9	LOINC	Patient dead at scene-transported by EMS
LA17159-7	LOINC	Patient evaluated, no treatment/transport required
LA17160-5	LOINC	Patient refused evaluation/care (with transport)
LA17161-3	LOINC	Patient treated, released (AMA)
LA17162-1	LOINC	Patient treated, transferred care to another EMS professional
LA17163-9	LOINC	Patient treated, transported by law enforcement
LA17164-7	LOINC	Patient treated, transported by private vehicle
LA17165-4	LOINC	Standby-no services or support provided
LA17166-2	LOINC	Standby-public safety, fire, or EMS operational support provided
LA17167-0	LOINC	Transport of body parts or organs only
LA18080-4	LOINC	Patient treated, released (per protocol)
LA18212-3	LOINC	Assist, agency
LA18213-1	LOINC	Assist, public
LA18214-9	LOINC	Assist, unit
LA18215-6	LOINC	No patient contact (canceled on scene)
LA18216-4	LOINC	Patient refused evaluation/care (without transport)

Injury Risk Factor

Value Set	InjuryRiskFactor - 2.16.840.1.113883.17.3.11.4
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Circumstance affecting likelihood of injury

Code	Code System	Print Name
LA17348-6	LOINC	Fall adults: > 20 ft. (one story is equal to 10 ft.)
LA17349-4	LOINC	Fall children: > 10 ft. or 2-3 times the height of the child
LA17350-2	LOINC	Motorcycle crash > 20 mph
LA17352-8	LOINC	Crash death in same passenger compartment
LA17353-6	LOINC	Crash ejection (partial or complete) from vehicle
LA17357-7	LOINC	Crash intrusion: > 12 in. occupant site; > 18 in. any site
LA17360-1	LOINC	Auto v. pedestrian/bicyclist thrown, run over, or > 20 MPH impact
LA18124-0	LOINC	Crash vehicle telemetry data (AACN) consistent with high risk of injury

LOINC

Value Set	LOINC
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Length Based Weight Class

Value Set	LengthBasedWeightClass - 2.16.840.1.113883.17.3.11.24
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Weight category estimated by length

Code	Code System	Print Name
LA15553-3	LOINC	Blue
LA15554-1	LOINC	Grey
LA15555-8	LOINC	Green
LA17192-8	LOINC	Pink
LA17193-6	LOINC	Red
LA17194-4	LOINC	Purple
LA17195-1	LOINC	Yellow
LA17196-9	LOINC	Orange
LA4457-3	LOINC	White

Level Of Responsiveness

Value Set	LevelOfResponsiveness - 2.16.840.1.113883.17.3.11.21
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Kind of stimulation necessary to elicit a patient reaction

Code	Code System	Print Name
LA17107-6	LOINC	Painful
LA17108-4	LOINC	Verbal
LA9340-6	LOINC	Alert
LA9343-0	LOINC	Unresponsive

Mechanism Of Injury

Value Set	MechanismOfInjury - 2.16.840.1.113883.17.3.11.1
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Kind of physical phenomenon causing an injury

Code	Code System	Print Name
LA17335-3	LOINC	Blunt
LA17336-1	LOINC	Penetrating
LA46-8	LOINC	Other
LA7318-4	LOINC	Burn

Medication Administration Route

Value Set	MedicationAdministrationRoute - 2.16.840.1.113883.17.3.11.43
Code System	FDA Route of Administration - 2.16.840.1.113883.3.26.1.1.1
Definition	Physical route for introducing medications into a patient
Description	Subset of FDA routes of administration. Mappings to NEMESIS route codes, including modeling of orthogonal concepts (e.g., devices), is included in implementation guide text appendix.

Code	Code System	Print Name
C38208	FDA Route of Administration	Endotracheal
C38246	FDA Route of Administration	Intragastric
C38216	FDA Route of Administration	Respiratory (Inhalation)
C38222	FDA Route of Administration	Intra-Arterial
C38284	FDA Route of Administration	Nasal
C28161	FDA Route of Administration	Intramuscular
C38255	FDA Route of Administration	Intraocular
C38253	FDA Route of Administration	Intramedullary
C38276	FDA Route of Administration	Intravenous
C38285	FDA Route of Administration	Nasogastric
C38287	FDA Route of Administration	Ophthalmic
C38288	FDA Route of Administration	Oral
C38290	FDA Route of Administration	Other

Code	Code System	Print Name
C38192	FDA Route of Administration	Auricular (Otic)
C38295	FDA Route of Administration	Rectal
C38299	FDA Route of Administration	Subcutaneous
C38300	FDA Route of Administration	Sublingual
C38304	FDA Route of Administration	Topical
C38308	FDA Route of Administration	Transtracheal
C38305	FDA Route of Administration	Transdermal
C38271	FDA Route of Administration	Urethral
NewCode	FDA Route of Administration	
C38250	FDA Route of Administration	Intralesional

Medication Authorization Type

Value Set	MedicationAuthorizationType - 2.16.840.1.113883.17.3.11.47
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Channel or mode by which a medication administration is authorized by a licensed clinician

Code	Code System	Print Name
LA17187-8	LOINC	On-line medical direction
LA18654-6	LOINC	On-scene
LA18655-3	LOINC	Protocol (standing order)
LA18656-1	LOINC	Written orders (patient specific)

Medication Complication

Value Set	MedicationComplication - 2.16.840.1.113883.17.3.11.45
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Kind of abnormal effect associated with the administration of a medication

Code	Code System	Print Name
LA137-2	LOINC	None
LA15098-9	LOINC	Nausea
LA15099-7	LOINC	Vomiting
LA15424-7	LOINC	Diarrhea
LA17059-9	LOINC	Other (not listed)
LA17392-4	LOINC	Altered mental status
LA17393-2	LOINC	Apnea
LA17394-0	LOINC	Bradycardia
LA17396-5	LOINC	Hypoxia
TMP-LA17397-3a	LOINC	Itching
LA17713-1	LOINC	Injury
LA17714-9	LOINC	Tachycardia
LA18266-9	LOINC	Bradypnea
LA18267-7	LOINC	Tachypnea
LA7418-2	LOINC	Bleeding
LA7434-9	LOINC	Extravasation
LA7443-0	LOINC	Hypotension
LA7444-8	LOINC	Hypertension
LA9540-1	LOINC	Hyperthermia
LA9541-9	LOINC	Hypothermia
LA9548-4	LOINC	Respiratory distress
TMP-LA17397-3b	LOINC	Urticaria

Medication Not Given Reason

Value Set	MedicationNotGivenReason - 2.16.840.1.113883.17.3.11.92
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Rationale for not administering an otherwise indicated medication

Code	Code System	Print Name
LA15185-4	LOINC	Unable to complete
LA18921-9	LOINC	Medication already taken
LA18922-7	LOINC	Medication allergy
LA18925-0	LOINC	Denied by order
LA4216-3	LOINC	Contraindicated
LA4389-8	LOINC	Refused

Mental Status Finding

Value Set	MentalStatusFinding - 2.16.840.1.113883.17.3.11.84
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Finding resulting from EMS mental assessment

Code	Code System	Print Name
LA17286-8	LOINC	Normal baseline for patient
LA17287-6	LOINC	Combative
LA17288-4	LOINC	Oriented-person
LA17289-2	LOINC	Oriented-place
LA17290-0	LOINC	Oriented-time
LA18259-4	LOINC	Oriented-event
LA18260-2	LOINC	Pharmacologically sedated/paralyzed
LA6560-2	LOINC	Confused
LA6630-3	LOINC	Not done
LA7438-0	LOINC	Hallucinations
LA9343-0	LOINC	Unresponsive

Method Of ECG Interpretation

Value Set	MethodOfECGInterpretation - 2.16.840.1.113883.17.3.11.20
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Method for transforming ECG data into a clinical finding

Code	Code System	Print Name
LA18682-7	LOINC	Computer interpretation
LA18683-5	LOINC	Manual interpretation
LA18684-3	LOINC	Transmission with no interpretation
LA18685-0	LOINC	Transmission with remote interpretation

Neck Assessment Finding

Value Set	NeckAssessmentFinding - 2.16.840.1.113883.17.3.11.28
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Finding resulting from EMS neck assessment

Code	Code System	Print Name
LA17208-2	LOINC	Bleeding controlled

Code	Code System	Print Name
LA17209-0	LOINC	Bleeding uncontrolled
LA17210-8	LOINC	Decapitation
LA17214-0	LOINC	Puncture/stab wound
LA17215-7	LOINC	Swelling/bruising/contusion with pain
LA17217-3	LOINC	Jugular vein distention - JVD
LA17219-9	LOINC	Subcutaneous air
LA17220-7	LOINC	Swelling/bruising/contusion without pain
LA17244-7	LOINC	Gunshot wound-entry
LA17245-4	LOINC	Gunshot wound-exit
LA17612-5	LOINC	Stridor
LA18220-6	LOINC	Avulsion
LA18221-4	LOINC	Burn, blistering
LA18222-2	LOINC	Burn, charring
LA18223-0	LOINC	Burn, redness
LA18224-8	LOINC	Burn, white/waxy
LA18226-3	LOINC	Foreign body
LA18227-1	LOINC	Tracheal deviation-right
LA18228-9	LOINC	Tracheal deviation-left
LA6626-1	LOINC	Normal
LA6630-3	LOINC	Not done
LA7410-9	LOINC	Abrasion
LA7452-1	LOINC	Laceration
LA7460-4	LOINC	Pain

Neurological Assessment Finding

Value Set	NeurologicalAssessmentFinding - 2.16.840.1.113883.17.3.11.40
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Finding resulting from EMS neurological assessment

Code	Code System	Print Name
LA15899-0	LOINC	Seizures
LA17286-8	LOINC	Normal baseline for patient
LA17291-8	LOINC	Cerebellar function-abnormal
LA17292-6	LOINC	Cerebellar function-normal
LA17293-4	LOINC	Gait-abnormal
LA17294-2	LOINC	Gait-normal

Code	Code System	Print Name
LA17295-9	LOINC	Hemiplegia-left
LA17296-7	LOINC	Hemiplegia-right
LA17297-5	LOINC	Speech-normal
LA17298-3	LOINC	Speech-slurring
LA17299-1	LOINC	Strength-normal
LA17300-7	LOINC	Strength-symmetric
LA17301-5	LOINC	Tremors
LA17302-3	LOINC	Weakness-facial droop-left
LA17303-1	LOINC	Weakness-facial droop-right
LA17304-9	LOINC	Weakness-left sided
LA17305-6	LOINC	Weakness-right sided
LA18261-0	LOINC	Aphagia
LA18262-8	LOINC	Aphasia
LA18263-6	LOINC	Decerebrate posturing
LA18264-4	LOINC	Decorticate posturing
LA18265-1	LOINC	Strength-asymmetric
LA6630-3	LOINC	Not done

Non Drug Allergy Type

Value Set	NonDrugAllergyType - 2.16.840.1.113883.17.3.11.83
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Kinds of environmental allergens

Code	Code System	Print Name
LA137-2	LOINC	None
LA17059-9	LOINC	Other (not listed)
LA18356-8	LOINC	Chemical
LA18357-6	LOINC	Dander/dust/mold/pollen
LA18358-4	LOINC	Food allergy
LA18359-2	LOINC	Insect sting
LA18360-0	LOINC	Latex
LA18361-8	LOINC	Plant

Organ System

Value Set	OrganSystem - 2.16.840.1.113883.17.3.11.77
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Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Biological systems for the classification of disorders

Code	Code System	Print Name
LA16968-2	LOINC	Gastrointestinal
LA18114-1	LOINC	General/global
LA18277-6	LOINC	Cardiovascular
LA18278-4	LOINC	CNS/neuro
LA18279-2	LOINC	Endocrine/metabolic
LA18281-8	LOINC	Lymphatic/immune
LA18282-6	LOINC	Musculoskeletal/skin
LA18283-4	LOINC	Pulmonary
LA18284-2	LOINC	Renal
LA18285-9	LOINC	Reproductive
LA9534-4	LOINC	Behavioral / psychiatric disorder

Patient Condition Change

Value Set	PatientConditionChange - 2.16.840.1.113883.17.3.11.59
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Change in acuity of patient condition

Code	Code System	Print Name
LA11011-6	LOINC	Worse
LA17181-1	LOINC	Unchanged
LA65-8	LOINC	Improved

Patient Status

Value Set	PatientStatus - 2.16.840.1.113883.17.3.11.78
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Patient condition indicating urgency of treatment

Code	Code System	Print Name
LA17694-3	LOINC	Lower acuity (green)
LA17695-0	LOINC	Emergent (yellow)
LA17696-8	LOINC	Critical (red)
LA17697-6	LOINC	Dead without resuscitation efforts (black)

Pelvis Genitourinary Assessment

Value Set	PelvisGenitourinaryAssessment - 2.16.840.1.113883.17.3.11.33
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Finding resulting from EMS pelvic and genitourinary assessment

Code	Code System	Print Name
LA14123-6	LOINC	Unstable
LA17208-2	LOINC	Bleeding controlled
LA17209-0	LOINC	Bleeding uncontrolled
LA17213-2	LOINC	Mass/lesion
LA17214-0	LOINC	Puncture/stab wound
LA17215-7	LOINC	Swelling/bruising/contusion with pain
LA17220-7	LOINC	Swelling/bruising/contusion without pain
LA17244-7	LOINC	Gunshot wound-entry
LA17245-4	LOINC	Gunshot wound-exit
LA17248-8	LOINC	Bleeding-rectal
LA17249-6	LOINC	Bleeding-urethral
LA17250-4	LOINC	Bleeding-vaginal
LA17251-2	LOINC	Genital injury
LA17252-0	LOINC	Pelvic fracture
LA17253-8	LOINC	Pelvic instability
LA17254-6	LOINC	Penile priapism/erection
LA17255-3	LOINC	Pregnant-crowning
LA17709-9	LOINC	Tenderness
LA18220-6	LOINC	Avulsion
LA18221-4	LOINC	Burn, blistering
LA18222-2	LOINC	Burn, charring
LA18223-0	LOINC	Burn, redness
LA18224-8	LOINC	Burn, white/waxy
LA18225-5	LOINC	Deformity
LA18226-3	LOINC	Foreign body
LA6626-1	LOINC	Normal
LA6630-3	LOINC	Not done
LA7410-9	LOINC	Abrasion
LA7452-1	LOINC	Laceration
LA7460-4	LOINC	Pain

Pregnancy

Value Set	Pregnancy - 2.16.840.1.113883.17.3.11.42
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Estimation of patient's pregnant status and maturity

Code	Code System	Print Name
LA17329-6	LOINC	Yes, confirmed less than 12 weeks
LA17330-4	LOINC	Yes, confirmed 12 to 20 weeks
LA17331-2	LOINC	Yes, confirmed greater than 20 weeks
LA17332-0	LOINC	Possible, unconfirmed
LA32-8	LOINC	No

Prior Care Provider Role

Value Set	PriorCareProviderRole - 2.16.840.1.113883.17.3.11.12
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Role of person providing care to a patient before the arrival of EMS personnel

Code	Code System	Print Name
LA18016-8	LOINC	First responder-fire, law, EMS
LA18017-6	LOINC	Healthcare professional-non-EMS
LA18018-4	LOINC	Lay person-non-family
LA18019-2	LOINC	Other EMS professional - not part of dispatched response
LA9277-0	LOINC	Family member

Procedure Complication Type

Value Set	ProcedureComplicationType - 2.16.840.1.113883.17.3.11.58
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Kind of abnormal effect associated with the performance of a procedure

Code	Code System	Print Name
LA137-2	LOINC	None
LA15098-9	LOINC	Nausea
LA15099-7	LOINC	Vomiting
LA15424-7	LOINC	Diarrhea
LA17059-9	LOINC	Other (not listed)

Code	Code System	Print Name
LA17392-4	LOINC	Altered mental status
LA17393-2	LOINC	Apnea
LA17394-0	LOINC	Bradycardia
LA17396-5	LOINC	Hypoxia
TMP-LA17397-3a	LOINC	Itching
LA17489-8	LOINC	Esophageal intubation-immediately
LA17490-6	LOINC	Esophageal intubation-other
LA17713-1	LOINC	Injury
LA17714-9	LOINC	Tachycardia
LA18267-7	LOINC	Tachypnea
LA18268-5	LOINC	Portacath
LA7418-2	LOINC	Bleeding
LA7434-9	LOINC	Extravasation
LA7443-0	LOINC	Hypotension
LA7444-8	LOINC	Hypertension
LA9540-1	LOINC	Hyperthermia
LA9541-9	LOINC	Hypothermia
LA9548-4	LOINC	Respiratory distress
TMP-LA17397-3b	LOINC	Urticaria

Protocol

Value Set	Protocol - 2.16.840.1.113883.17.3.11.73
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Clinical category of formal guideline used to direct care

Code	Code System	Print Name
LA17398-1	LOINC	Airway
LA17491-4	LOINC	Airway-failed
LA17492-2	LOINC	Airway-obstruction/foreign body
LA17494-8	LOINC	Airway-Rapid Sequence Induction (RSI-Paralytic)
LA17495-5	LOINC	Airway-sedation assisted (nonparalytic)
LA17496-3	LOINC	Cardiac arrest- asystole
LA17497-1	LOINC	Cardiac arrest- pulseless electrical activity
LA17498-9	LOINC	Cardiac arrest- ventricular fibrillation/pulseless ventricular tachycardia
LA17499-7	LOINC	Cardiac arrest-hypothermia-therapeutic

Code	Code System	Print Name
LA17500-2	LOINC	Cardiac arrest-post resuscitation care
LA17501-0	LOINC	Environmental-altitude sickness
LA17502-8	LOINC	Environmental-cold exposure
LA17503-6	LOINC	Environmental-frostbite/cold Injury
LA17504-4	LOINC	Environmental-heat exposure/exhaustion
LA17505-1	LOINC	Environmental-heat stroke/hyperthermia
LA17506-9	LOINC	Environmental-hypothermia
LA17507-7	LOINC	Exposure-airway/inhalation irritants
LA17508-5	LOINC	Exposure-biological/infectious
LA17509-3	LOINC	Exposure-blistering agents
LA17510-1	LOINC	Exposure-carbon monoxide/smoke inhalation
LA17511-9	LOINC	Exposure-chemicals to eye
LA17512-7	LOINC	Exposure-cyanide
LA17513-5	LOINC	Exposure-explosive/blast injury
LA17514-3	LOINC	Exposure-nerve agents
LA17515-0	LOINC	Exposure-radiologic agents
LA17516-8	LOINC	General-back pain
LA17517-6	LOINC	General-behavioral/patient restraint
LA17518-4	LOINC	General-dental problems
LA17519-2	LOINC	General-epistaxis
LA17520-0	LOINC	General-fever
LA17521-8	LOINC	General-individualized patient protocol
LA17522-6	LOINC	General-indwelling medical devices/equipment
LA17523-4	LOINC	General-IV access
LA17524-2	LOINC	General-medical device malfunction
LA17525-9	LOINC	General-pain control
LA17526-7	LOINC	General-spinal immobilization/clearance
LA17527-5	LOINC	General-universal patient care/initial patient contact
LA17528-3	LOINC	Injury-amputation
LA17529-1	LOINC	Injury-bites and envenomations-land
LA17530-9	LOINC	Injury-bites and envenomations-marine
LA17531-7	LOINC	Injury-bleeding/hemorrhage control
LA17532-5	LOINC	Injury-burns-thermal
LA17533-3	LOINC	Injury-cardiac arrest
LA17534-1	LOINC	Injury-crush syndrome
LA17535-8	LOINC	Injury-diving emergencies

Code	Code System	Print Name
LA17536-6	LOINC	Injury-drowning/near drowning
LA17537-4	LOINC	Injury-electrical injuries
LA17538-2	LOINC	Injury-extremity
LA17539-0	LOINC	Injury-eye
LA17540-8	LOINC	Injury-head
LA17541-6	LOINC	Injury-impaled object
LA17542-4	LOINC	Injury-multisystem
LA17543-2	LOINC	Injury-spinal cord
LA17544-0	LOINC	Medical-abdominal pain
LA17545-7	LOINC	Medical-allergic reaction/anaphylaxis
LA17546-5	LOINC	Medical-altered mental status
LA17547-3	LOINC	Medical-bradycardia
LA17548-1	LOINC	Medical-cardiac chest pain
LA17549-9	LOINC	Medical-diarrhea
LA17550-7	LOINC	Medical-hyperglycemia
LA17551-5	LOINC	Medical-hypertension
LA17552-3	LOINC	Medical-hypoglycemia/diabetic emergency
LA17553-1	LOINC	Medical-hypotension/shock (non-trauma)
LA17554-9	LOINC	Medical-influenza-like illness/ upper respiratory infection
LA17555-6	LOINC	Medical-nausea/vomiting
LA17556-4	LOINC	Medical-newborn/ neonatal resuscitation
LA17557-2	LOINC	Medical-overdose/poisoning/toxic ingestion
LA17558-0	LOINC	Medical-pulmonary edema/CHF
LA17559-8	LOINC	Medical-respiratory distress/asthma/COPD/croup/ reactive airway disease
LA17560-6	LOINC	Medical-seizure
LA17561-4	LOINC	Medical-ST-elevation myocardial infarction (STEMI)
LA17562-2	LOINC	Medical-stroke/TIA
LA17563-0	LOINC	Medical-supraventricular tachycardia (including atrial fibrillation)
LA17564-8	LOINC	Medical-syncope
LA17565-5	LOINC	Medical-ventricular tachycardia (with pulse)
LA17566-3	LOINC	OB/GYN-childbirth/labor/delivery
LA17567-1	LOINC	OB/GYN-eclampsia
LA17568-9	LOINC	OB/GYN-gynecologic emergencies
LA17569-7	LOINC	OB/GYN-pregnancy related emergencies

Code	Code System	Print Name
LA17570-5	LOINC	OB/GYN-post-partum hemorrhage
LA18269-3	LOINC	General-cardiac arrest
LA46-8	LOINC	Other
LA6630-3	LOINC	Not done

Protocol Age Category

Value Set	ProtocolAgeCategory - 2.16.840.1.113883.17.3.11.86
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Group of patient ages

Code	Code System	Print Name
LA17571-3	LOINC	General
LA17572-1	LOINC	Adult only
LA17573-9	LOINC	Pediatric only

Provider Adverse Event Type

Value Set	ProviderAdverseEventType - 2.16.840.1.113883.17.3.11.72
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Kind of adverse event affecting a care provider

Code	Code System	Print Name
LA137-2	LOINC	None
LA17059-9	LOINC	Other (not listed)
LA17402-1	LOINC	Death-cardiac arrest
LA17403-9	LOINC	Death-injury related
LA17404-7	LOINC	Death-other (not listed)
LA17405-4	LOINC	Exposure-airborne respiratory/biological/aerosolized secretions
LA17406-2	LOINC	Exposure-body fluid contact to broken skin
LA17407-0	LOINC	Exposure-body fluid contact with eye
LA17408-8	LOINC	Exposure-body fluid contact with intact skin
LA17409-6	LOINC	Exposure-body fluid contact with mucosal surface
LA17410-4	LOINC	Exposure-needle stick with body fluid injection
LA17411-2	LOINC	Exposure-needle stick without body fluid injection
LA17412-0	LOINC	Exposure-toxin/chemical/hazmat
LA17413-8	LOINC	Injury-lifting/back/musculoskeletal

Code	Code System	Print Name
LA17414-6	LOINC	Injury-other (not listed)

Provider Response Role

Value Set	ProviderResponseRole - 2.16.840.1.113883.17.3.11.80
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Role filled by an EMS professional

Code	Code System	Print Name
LA18707-2	LOINC	Driver/pilot-response
LA18708-0	LOINC	Driver/pilot-transport
LA18709-8	LOINC	Other crew member response role
LA18710-6	LOINC	Other patient caregiver-at scene
LA18711-4	LOINC	Other patient caregiver-transport
LA18712-2	LOINC	Primary patient caregiver-at scene
LA18713-0	LOINC	Primary patient caregiver-transport

Provider Role

Value Set	ProviderRole - 2.16.840.1.113883.17.3.11.46
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Class of person providing care to an EMS patient, including the patient

Code	Code System	Print Name
LA15276-1	LOINC	Student
LA18695-9	LOINC	Critical care paramedic
LA18696-7	LOINC	2009 advanced emergency medical technician (AEMT)
LA18697-5	LOINC	2009 emergency medical responder (EMR)
LA18698-3	LOINC	2009 emergency medical technician (EMT)
LA18699-1	LOINC	2009 paramedic
LA18700-7	LOINC	First responder
LA18701-5	LOINC	EMT-basic
LA18702-3	LOINC	EMT-intermediate
LA18703-1	LOINC	EMT-paramedic
LA18704-9	LOINC	Other healthcare professional
LA18705-6	LOINC	Other non-healthcare professional
LA18706-4	LOINC	Community paramedicine

Code	Code System	Print Name
LA18714-8	LOINC	Patient/lay person
LA4687-5	LOINC	Physician
LA9297-8	LOINC	Respiratory therapist
LA9401-6	LOINC	Nurse

Provider Role Level

Value Set	ProviderRoleLevel - 2.16.840.1.113883.17.3.11.81
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Class of person providing care to an EMS patient, excluding the patient

Code	Code System	Print Name
LA15276-1	LOINC	Student
LA18695-9	LOINC	Critical care paramedic
LA18696-7	LOINC	2009 advanced emergency medical technician (AEMT)
LA18697-5	LOINC	2009 emergency medical responder (EMR)
LA18698-3	LOINC	2009 emergency medical technician (EMT)
LA18699-1	LOINC	2009 paramedic
LA18700-7	LOINC	First responder
LA18701-5	LOINC	EMT-basic
LA18702-3	LOINC	EMT-intermediate
LA18703-1	LOINC	EMT-paramedic
LA18704-9	LOINC	Other healthcare professional
LA18705-6	LOINC	Other non-healthcare professional
LA18706-4	LOINC	Community paramedicine
LA4687-5	LOINC	Physician
LA9297-8	LOINC	Respiratory therapist
LA9401-6	LOINC	Nurse

Race and Ethnicity - CDC

Value Set	Race and Ethnicity - CDC
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Race Category

Value Set	RaceCategory - 2.16.840.1.114222.4.11.836
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Code	Code System	Print Name
1002-5	Race and Ethnicity - CDC	American Indian or Alaska Native
2028-9	Race and Ethnicity - CDC	Asian
2054-5	Race and Ethnicity - CDC	Black or African American
2076-8	Race and Ethnicity - CDC	Native Hawaiian or Other Pacific Islander
2131-1	Race and Ethnicity - CDC	Other Race
2106-3	Race and Ethnicity - CDC	White

Reason Procedure not Performed

Value Set	Reason Procedure not Performed - 2.16.840.1.113883.17.3.11.95
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Rationale for not completing an otherwise indicated procedure

Code	Code System	Print Name
LA15185-4	LOINC	Unable to complete
LA18925-0	LOINC	Denied by order
LA4216-3	LOINC	Contraindicated
LA4389-8	LOINC	Refused

Reason Procedure not Performed Superset

Value Set	Reason Procedure not Performed Superset - 2.16.840.1.113883.17.3.11.100
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Rationale for not completing an otherwise indicated procedure, including CPR

Code	Code System	Print Name
LA15185-4	LOINC	Unable to complete
LA18925-0	LOINC	Denied by order
LA4216-3	LOINC	Contraindicated
LA4389-8	LOINC	Refused
LA17063-1	LOINC	Considered futile
LA17064-9	LOINC	DNR orders
LA17065-6	LOINC	Signs of circulation

Registry Type

Value Set	RegistryType - 2.16.840.1.113883.17.3.11.74
Code System	LOINC - 2.16.840.1.113883.6.1

Definition	Kind of research repository in which a patient record might be included	
Code	Code System	Print Name
LA17057-3	LOINC	Drowning
LA17058-1	LOINC	Trauma
LA17059-9	LOINC	Other (not listed)
LA17398-1	LOINC	Airway
LA17399-9	LOINC	Spinal cord injury
LA17400-5	LOINC	STEMI/acute cardiac
LA17401-3	LOINC	Traumatic brain injury
LA7318-4	LOINC	Burn
LA9535-1	LOINC	Cardiac arrest
LA9553-4	LOINC	Stroke/CVA

Response Delay Type

Value Set	ResponseDelayType - 2.16.840.1.113883.17.3.11.51	
Code System	LOINC - 2.16.840.1.113883.6.1	
Definition	Kind of circumstance delaying an EMS response	
Code	Code System	Print Name
LA17059-9	LOINC	Other (not listed)
LA17583-8	LOINC	Scene safety (not secure for EMS)
LA17585-3	LOINC	Crowd
LA17586-1	LOINC	Directions/unable to locate
LA17587-9	LOINC	Distance
LA17588-7	LOINC	HazMat
LA17590-3	LOINC	Staff delay
LA17591-1	LOINC	Traffic
LA17592-9	LOINC	Vehicle crash involving this unit
LA17593-7	LOINC	Vehicle failure of this unit
LA17594-5	LOINC	Weather
LA18081-2	LOINC	None/no delay
LA18270-1	LOINC	Rendezvous transport unavailable
LA18271-9	LOINC	Route obstruction (e.g., train)
LA18301-4	LOINC	Diversion

Resuscitation Not Attempted Reason

Value Set	ResuscitationNotAttemptedReason - 2.16.840.1.113883.17.3.11.90
Definition	Rationale for not attempting to resuscitate a patient

Code	Code System	Print Name
LA17063-1		Considered futile
LA17064-9		DNR orders
LA17065-6		Signs of circulation

Resuscitation Discontinue Reason

Value Set	ResuscitationDiscontinueReason - 2.16.840.1.113883.17.3.11.62
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Rationale for aborting attempt to resuscitate a patient

Code	Code System	Print Name
LA17078-9	LOINC	DNR
LA17079-7	LOINC	Medical control order
LA17080-5	LOINC	Obvious signs of death
LA17081-3	LOINC	Protocol/policy requirements completed
LA17082-1	LOINC	Return of spontaneous circulation (pulse or BP noted)
LA18204-0	LOINC	Physically unable to perform

Return Of Spontaneous Circulation

Value Set	ReturnOfSpontaneousCirculation - 2.16.840.1.113883.17.3.11.15
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Timeframe for return of circulation to a patient

Code	Code System	Print Name
LA17075-5	LOINC	Yes, prior to arrival at the ED
LA17076-3	LOINC	Yes, at arrival at the ED
LA17077-1	LOINC	Yes, sustained for 20 consecutive minutes
LA32-8	LOINC	No

Rx Norm

Value Set	RxNorm
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Safety Equipment Type

Value Set	SafetyEquipmentType - 2.16.840.1.113883.17.3.11.7
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Kind of safety equipment

Code	Code System	Print Name
LA137-2	LOINC	None
LA17375-9	LOINC	Child booster seat
LA17376-7	LOINC	Helmet worn
LA17377-5	LOINC	Infant car seat forward facing
LA17378-3	LOINC	Infant car seat rear facing
LA17379-1	LOINC	Lap belt with shoulder belt
LA17380-9	LOINC	Lap belt without shoulder belt
LA17382-5	LOINC	Protective non-clothing gear
LA46-8	LOINC	Other
LA9381-0	LOINC	Shoulder belt
LA9391-9	LOINC	Eye protection
LA9392-7	LOINC	Protective clothing
LA9393-5	LOINC	Personal flotation device

Scene Delay Type

Value Set	SceneDelayType - 2.16.840.1.113883.17.3.11.52
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Kind of circumstance delaying EMS operations on scene

Code	Code System	Print Name
LA17059-9	LOINC	Other (not listed)
LA17585-3	LOINC	Crowd
LA17586-1	LOINC	Directions/unable to locate
LA17587-9	LOINC	Distance
LA17588-7	LOINC	HazMat
LA17590-3	LOINC	Staff delay
LA17591-1	LOINC	Traffic
LA17592-9	LOINC	Vehicle crash involving this unit
LA17593-7	LOINC	Vehicle failure of this unit
LA17594-5	LOINC	Weather

Code	Code System	Print Name
LA17595-2	LOINC	Extrication
LA17596-0	LOINC	Safety-crew/staging
LA17597-8	LOINC	Safety-patient
LA18081-2	LOINC	None/no delay
LA18272-7	LOINC	Awaiting air unit
LA18273-5	LOINC	Awaiting ground unit
LA18275-0	LOINC	Patient access
LA18276-8	LOINC	Triage/multiple patients
LA7540-3	LOINC	Language barrier

Service Level

Value Set	ServiceLevel - 2.16.840.1.113883.17.3.11.70
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Level of EMS service as defined by CMS

Code	Code System	Print Name
LA18102-6	LOINC	ALS, level 1
LA18103-4	LOINC	ALS, level 1 emergency
LA18104-2	LOINC	ALS, level 2
LA18105-9	LOINC	BLS
LA18106-7	LOINC	BLS, emergency
LA18107-5	LOINC	Fixed wing (airplane)
LA18108-3	LOINC	Paramedic intercept
LA18109-1	LOINC	Specialty care transport
LA18110-9	LOINC	Rotary wing (helicopter)

Service Type

Value Set	ServiceType - 2.16.840.1.113883.17.3.11.79
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Category of service requested of an EMS agency

Code	Code System	Print Name
LA17150-6	LOINC	Standby
LA18715-5	LOINC	911 response (scene)
LA18716-3	LOINC	Intercept

Code	Code System	Print Name
LA18717-1	LOINC	Interfacility transport
LA18718-9	LOINC	Medical transport
LA18719-7	LOINC	Mutual aid
LA18720-5	LOINC	Public assistance/other not listed

Skin Assessment

Value Set	SkinAssessment - 2.16.840.1.113883.17.3.11.25
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Finding resulting from EMS skin assessment

Code	Code System	Print Name
LA15475-9	LOINC	Cold
LA17197-7	LOINC	Clammy
LA17198-5	LOINC	Cyanotic
LA17199-3	LOINC	Dry
LA17200-9	LOINC	Red (erythematous)
LA17201-7	LOINC	Flushed
LA17202-5	LOINC	Hot
LA17203-3	LOINC	Jaundiced
LA17204-1	LOINC	Lividity
LA17205-8	LOINC	Mottled
LA17206-6	LOINC	Pale
LA17207-4	LOINC	Warm
LA18217-2	LOINC	Diaphoretic
LA18218-0	LOINC	Poor turgor
LA18219-8	LOINC	Tenting
LA6626-1	LOINC	Normal
LA6630-3	LOINC	Not done

Stroke Scale

Value Set	StrokeScale - 2.16.840.1.113883.17.3.11.88
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Type of instrument used to evaluate for stroke

Code	Code System	Print Name
LA17110-0	LOINC	Cincinnati
LA17111-8	LOINC	Los Angeles
LA17112-6	LOINC	Miami emergency neurologic deficit (MEND)
LA17113-4	LOINC	NIH
LA18300-6	LOINC	Other stroke scale type
LA3774-2	LOINC	Massachusetts

Stroke Scale Interpretation

Value Set	Stroke Scale Interpretation - 2.16.840.1.113883.17.3.11.93
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Finding based on a stroke scale instrument

Code	Code System	Print Name
LA17109-2	LOINC	Non-conclusive
LA6576-8	LOINC	Positive
LA6577-6	LOINC	Negative

Transport Delay Type

Value Set	TransportDelayType - 2.16.840.1.113883.17.3.11.53
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Kind of circumstance delaying EMS transport

Code	Code System	Print Name
LA17059-9	LOINC	Other (not listed)
LA17585-3	LOINC	Crowd
LA17586-1	LOINC	Directions/unable to locate
LA17587-9	LOINC	Distance
LA17588-7	LOINC	HazMat
LA17589-5	LOINC	Safety
LA17590-3	LOINC	Staff delay
LA17591-1	LOINC	Traffic
LA17592-9	LOINC	Vehicle crash involving this unit
LA17593-7	LOINC	Vehicle failure of this unit
LA17594-5	LOINC	Weather
LA18081-2	LOINC	None/no delay

Code	Code System	Print Name
LA18270-1	LOINC	Rendezvous transport unavailable
LA18271-9	LOINC	Route obstruction (e.g., train)
LA18301-4	LOINC	Diversion

Transport Method

Value Set	TransportMethod - 2.16.840.1.113883.17.3.11.65
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Physical mode of patient transport

Code	Code System	Print Name
LA17168-8	LOINC	Ground-ambulance
LA17169-6	LOINC	Air medical-fixed wing
LA17170-4	LOINC	Air medical-rotor craft
LA17171-2	LOINC	Ground-ATV or rescue vehicle
LA17172-0	LOINC	Ground-bariatric
LA17173-8	LOINC	Ground-mass casualty bus/vehicle
LA17174-6	LOINC	Ground-wheelchair van
LA17175-3	LOINC	Ground-other not listed
LA17176-1	LOINC	Water-boat

Transportation Mode

Value Set	TransportationMode - 2.16.840.1.113883.17.3.11.66
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Urgency of transport

Code	Code System	Print Name
LA17177-9	LOINC	Emergent (immediate response)
LA17178-7	LOINC	Emergent downgraded to non-emergent
LA17179-5	LOINC	Non-emergent upgraded to emergent
LA17180-3	LOINC	Non-emergent

Trauma Center Criteria

Value Set	TraumaCenterCriteria - 2.16.840.1.113883.17.3.11.3
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Patient findings used to determine appropriate destination

Code	Code System	Print Name
LA17337-9	LOINC	Glasgow Coma Score less than 14
LA17338-7	LOINC	Respiratory rate < 10 or >29 or (<20 in infant < one year)
LA17339-5	LOINC	Systolic blood pressure less than 90
LA17340-3	LOINC	Amputation proximal to wrist and ankle
LA17341-1	LOINC	Crushed, degloved, or mangled extremity
LA17342-9	LOINC	Flail chest
LA17343-7	LOINC	Open or depressed skull fracture
LA17344-5	LOINC	Paralysis
LA17345-2	LOINC	Pelvic fracture(s)
LA17346-0	LOINC	Penetrating injury to head, neck, torso, and extremities proximal to elbow and knee
LA17347-8	LOINC	Two or more proximal long-bone fractures

Turn Around Delay Type

Value Set	TurnAroundDelayType - 2.16.840.1.113883.17.3.11.54
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Kind of circumstance delaying EMS readiness after an incident

Code	Code System	Print Name
LA17059-9	LOINC	Other (not listed)
LA17587-9	LOINC	Distance
LA17590-3	LOINC	Staff delay
LA17592-9	LOINC	Vehicle crash involving this unit
LA17593-7	LOINC	Vehicle failure of this unit
LA17594-5	LOINC	Weather
LA17598-6	LOINC	Clean-up
LA17599-4	LOINC	Decontamination
LA17600-0	LOINC	Documentation
LA17601-8	LOINC	ED overcrowding/transfer of care
LA17602-6	LOINC	Equipment/supply replenishment
LA17603-4	LOINC	Transport unavailable
LA18081-2	LOINC	None/no delay
LA18270-1	LOINC	Rendezvous transport unavailable
LA18271-9	LOINC	Route obstruction (e.g., train)
LA7497-6	LOINC	Equipment failure

Unit Response Role

Value Set	UnitResponseRole - 2.16.840.1.113883.17.3.11.82
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Role unit plays in response to an incident

Code	Code System	Print Name
LA17574-7	LOINC	Air transport
LA17575-4	LOINC	Ground transport
LA17576-2	LOINC	Non-transport (care or assistance)
LA17577-0	LOINC	Rescue
LA17578-8	LOINC	Supervisor (administrative only)

Vehicle Impact Area

Value Set	VehicleImpactArea - 2.16.840.1.113883.17.3.11.5
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Direction from which a vehicle is struck

Code	Code System	Print Name
LA10137-0	LOINC	5
LA10138-8	LOINC	6
LA10139-6	LOINC	7
LA10140-4	LOINC	8
LA10141-2	LOINC	9
LA13942-0	LOINC	10
LA14557-5	LOINC	11
LA14558-3	LOINC	12
LA6112-2	LOINC	1
LA6113-0	LOINC	2
LA6114-8	LOINC	3
LA6115-5	LOINC	4

Vehicle Passenger Location

Value Set	VehiclePassengerLocation - 2.16.840.1.113883.17.3.11.6
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Location of a passenger within a vehicle

Code	Code System	Print Name
LA17361-9	LOINC	Front seat-left side (or motorcycle driver)
LA17362-7	LOINC	Front seat-right side
LA17363-5	LOINC	Front seat-middle
LA17364-3	LOINC	Second seat-left side (or motorcycle passenger)
LA17365-0	LOINC	Second seat-middle
LA17366-8	LOINC	Second seat-right side
LA17367-6	LOINC	Third row-left side (or motorcycle passenger)
LA17368-4	LOINC	Third row-right side
LA17369-2	LOINC	Third row-middle
LA17370-0	LOINC	Sleeper section of cab (truck)
LA17371-8	LOINC	Passenger in other enclosed passenger or cargo area (non-trailing unit such as a bus, etc.)
LA17372-6	LOINC	Passenger in unenclosed passenger or cargo area (non-trailing unit such as a pickup, etc.)
LA17373-4	LOINC	Trailing unit
LA17374-2	LOINC	Riding on vehicle exterior (non-trailing unit)
LA4489-6	LOINC	Unknown

SAMPLE

In this example, the agency is represented with the root OID "2.16.840.1.113883.19.1." This OID represents a node (".1") under the HL7 Example domain ("2.16.840.1.113883.19"). This hypothetical organization has assigned identifiers under six nodes: 1. documents 2. patients 3. events 4. document artifacts (sections, organizers, statements) 5. facilities 6. devices (including the software that generated the report) These OIDs are used in the Instance Identifier data type in the "root" attribute. Providers are identified using a National Provider Identifier (root = "2.16.840.1.113883.4.6"), but the NPI has no "example" namespace for fictitious providers. Actual NPI identifiers are numbers; we have used strings that do not fit the NPI pattern to avoid inadvertently identifying an actual provider. This example report does not demonstrate every statement specified in the guide, but it does cover every pattern required to construct a valid document.

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  <!--This example is based on ALS test case #1 from the Minnesota EMS Regulatory Board, available at http://www.emsrb.state.mn.us. Example and guide developed by the National EMS Information System and Ockham Information Services LLC under the auspices of Health Level 7, with support from the US National Highway Traffic Safety Administration, the Centers for Disease Control, and the Health Resources and Services Administration, as well as dozens of other government agencies, universities, and professional organizations. Example prepared for 2014 publication of normative implementation guide.-->
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          <family>Paramedic</family>
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                <td>Billing Condition</td>
                <td>Puncture wound with foreign body of left front wall of thorax with penetration intothoracic cavity</td>
                <td></td>
              </tr>
              <tr>
                <td>EMS level of service</td>
                <td>ALS, level 1</td>
                <td></td>
              </tr>
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          </table>
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            <td>Currently on medication</td>
            <td>No information</td>
            <td></td>
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      </table>
    </text>
  </section>

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          <td>Patient on anticoagulants</td>
          <td>No information</td>
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            <td>Existence of drug allergy</td>
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          <tr>
            <td>Alcohol - drug use</td>
            <td>Smell of alcohol on breath</td>
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  </section>

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|  |  |
| --- | --- |
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| <td></td> | <td>ChestAndLungsAssessmentFinding</td> |
| <td>Gunshot wound - entry</td> |  |
| </tr> |  |
| <td>ChestAndLungsAssessmentFinding</td> | <td>Breath sounds-decreased-left</td> |
| <td></td> |  |
| </tr> |  |
| <td>Abdomen assessment</td> | <td>Normal</td> |
| <td>targetSiteCode: Generalized</td> |  |
| </tr> |  |
| <td>Abdomen assessment</td> | <td>Other</td> |
| <td>GI normal</td> |  |
| </tr> |  |
| <td>Pelvic and genitourinary assessment</td> | <td>Normal</td> |
| <td></td> |  |
| <td>Extremities assessment</td> | <td>Normal</td> |
| <td></td> |  |
| <td>Patient Pregnancy</td> | <td>Not Applicable</td> |
| <td></td> |  |
| <td>Last Oral Intake</td> | <td>No Information</td> |
| <td></td> |  |
| <td>Patient Age</td> | <td>28 years</td> |
| <td></td> |  |
| <td>Contraindications to thrombolytic use</td> | <td>No Information</td> |
| <td></td> |  |
| <td>Barrier to care</td> | <td>Unconscious</td> |
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| <value xsi:type="CD" code="LA17208-2" displayName="Bleeding controlled" codeSystem="2.16.840.1.113883.6.1"/> |  |
| <value xsi:type="CD" code="LA17244-7" displayName="Gunshot wound entry" codeSystem="2.16.840.1.113883.6.1"/> |  |
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| <value xsi:type="CD" nullFlavor="OTH"> |  |
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| </value> |  |
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    <code code="67517-3" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Last oral intake"/>
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    <value xsi:type="PQ" value="28" unit="a"/>
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            <th>site</th>
            <th>dose</th>
            <th>device</th>
            <th>performer</th>
            <th>response</th>
          </tr>
        </thead>
        <tbody>
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            <td>2012 01 01 1604</td>
            <td>Oxygen</td>
            <td>Respiratory</td>
            <td>structure of respiratory region of nose</td>
            <td>15 L/min</td>
            <td>partial rebreather mask</td>
            <td>EMT-paramedic: 908786906</td>
            <td>Unchanged</td>
          </tr>
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      <paragraph><content styleCode="Bold">S </content>Called for motor vehicle crash</paragraph>
      <paragraph><content styleCode="Bold">O </content>Restrained make patient found in driver's seat of 4-door sedan. Pt unresponsive. Law
enforcement holding c-spine and placed nasal airway for snoring respirations. Bystanders state vehicle swerved off road and came to stop. Exam showed Pt
suffered a gun shot wound to L side at 5th intercostal space. </paragraph>

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<paragraph><content styleCode="Bold">A </content>Patent with nasal airway</paragraph>
<paragraph><content styleCode="Bold">B </content>Labored at 22 with decreased lung sounds</paragraph>
<paragraph><content styleCode="Bold">C </content>Sinus tach rapid, regular 108-142</paragraph>
<paragraph><content styleCode="Bold">D </content>Decreased level of consciousness with GCS = 9, AVPU = P</paragraph>
<paragraph><content styleCode="Bold">E </content>HEENT: intact, no trauma noted. Neck: supple, no JVD; Trachea midline. Chest: GSW as noted; decreased LS to left side. ABD: soft nontender. Pelvis: intact. GI: intact. Ext: moves all extremities with pupose upon painful stimulation, no trauma noted. </paragraph>
<paragraph><content styleCode="Bold">PLAN </content>C collar, nasal airway with O2 @ 15 LPM via NRB, LSB, monitor. Sinus tach, no ectopy, occlusive dressing. Reassess: O2 sats decreased, labored breathing. Treatment: needle chest decompression L side. Transport lights and siren. Enroute two IVs established. Diverted to XXX hospital. Breathing improved. Care and report to ED staff.</paragraph>
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            <td></td>
          </tr>
          <tr>
            <td>Reason for choosing destination</td>
            <td>Diversion</td>
            <td></td>
          </tr>
          <tr>
            <td>Prearrival activation performed</td>
            <td>False</td>
            <td></td>
          </tr>
          <tr>
            <td>Patient condition change at destination</td>
            <td>Improved</td>
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            <td>Protocol age category</td>
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          </tr>
          <tr>
            <td>Candidate for registry </td>
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          </tr>
          <tr>
            <td>Response</td>
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            <td></td>
          </tr>
          <tr>
            <td>Scene</td>
            <td>None</td>
            <td></td>
          </tr>
          <tr>
            <td>Transport</td>
            <td>None</td>
            <td></td>
          </tr>
          <tr>
            <td>Turnaround</td>
            <td>None</td>
            <td></td>
          </tr>
        </tbody>
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        <tbody>
          <tr>
            <td>Acme EMT Services</td>
            <td>46.786939 deg</td>
            <td>-92.098194 deg</td>
          </tr>
        </tbody>
      </table>
    </text>
  </section>
</component>

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      <td>No information</td>
      <td>No information</td>
      <td>No information</td>
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      <templateId root="null"/>
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<td>Primary impression</td>
<td>Unspecified injury of thorax</td>
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<td>Primary symptom</td>
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</tr>
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<td>Other symptom</td>
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<td>Secondary impression</td>
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| Dispatch notified time | 2012 0101 1545 +0600 |  |
| Unit notified time | 2012 0101 1546 +0600 |  |
| Unit on route time | 2012 0101 1548 +0600 |  |
| Unit on scene time | 2012 0101 1559 +0600 |  |
| Unit at patient time | 2012 0101 1559 +0600 |  |
| Unit left scene time | 2012 0101 1625 +0600 |  |
| Patient at destination time | 2012 0101 1650 +0600 |  |
| Unit back in service time | 2012 0101 1710 +0600 |  |
  


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      <paragraph>Injury Mechanism: Penetrating</paragraph>
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      <paragraph>Safety equipment: Lap belt without shoulder belt</paragraph>
      <paragraph>Airbag deployment: No airbag deployed</paragraph>
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REFERENCES

- HL7 Implementation Guide: CDA Release 2 – Continuity of Care Document (CCD) A CDA implementation of ASTM E2369-05 Standard Specification for Continuity of Care Record[®] (CCR) April 01, 2007 available through [HL7](#).
- HL7 Implementation Guide for CDA Release 2 Quality Reporting Document Architecture (QRDA) Draft Standard for Trial Use March 2009. Available at: [Quality Reporting Document Architecture \(QRDA\)](#)
- HL7 Implementation Guide for CDA Release 2 CDA for Public Health Case Reports (PHCR) Informative Standard October 2009. Available through [HL7](#).
- HL7 Implementation Guide for CDA Release 2: NHSN Healthcare Associated Infection (HAI) Reports, Release 2 Draft Standard for Trial Use January 2009 Available at: [NHSN Healthcare Associated Infection \(HAI\) Reports](#)
- Dolin RH, Alschuler L, Boyer S, Beebe C, Behlen FM, Biron PV, Shabo A, (Editors). HL7 Clinical Document Architecture, Release 2.0. ANSI-approved HL7 Standard; May 2005. Ann Arbor, Mich.: Health Level Seven, Inc. Available through [HL7](#) or if an HL7 member with the following link: [CDA Release 2 Normative Web Edition](#).
- [LOINC[®]](#) : Logical Observation Identifiers Names and Codes, Regenstrief Institute.
- [SNOMED CT[®]](#) : SNOMED Clinical Terms SNOMED International Organization.
- Extensible Markup Language, www.w3.org/XML.
- Dolin RH, Alschuler L, Boyer S, Beebe C, Behlen FM, Biron PV, Shabo A., HL7 Clinical Document Architecture, Release 2. J Am Med Inform Assoc. 2006;13:30-39. Available at: <http://www.jamia.org/cgi/reprint/13/1/30>.
- Using SNOMED CT in HL7 Version 3; Implementation Guide, Release 1.5. Available through [HL7](#) or if an HL7 member with the following link: [Using SNOMED CT in HL7 Version 3](#)
- National Emergency Medical Services Information System (NEMSIS) Data Dictionary, version 3. Available at NEMSIS.org
- HL7 EMS Domain Analysis Model, available from HL7 or via the HL7 wiki [HL7 wiki](#).

