

**Implementation Guide for CDA Release 2
Emergency Medical
Services Patient Care Report
(US REALM)**



Contents

Acknowledgments.....	7
Revision History.....	9
List of Figures.....	11
 Chapter 1: INTRODUCTION.....	 13
Overview.....	14
Audience.....	14
Scope.....	14
Approach.....	14
Units.....	15
Null and Negative Values.....	15
Null Value Mapping.....	15
Organization of This Guide.....	15
Templates.....	15
Vocabulary and Value Sets.....	16
Use of Templates.....	16
Originator Responsibilities.....	16
Recipient Responsibilities.....	16
Conventions Used in This Guide.....	16
Conformance Requirements.....	16
Keywords.....	17
XML Examples.....	18
 Chapter 2: DOCUMENT TEMPLATES.....	 19
Patient Care Report.....	20
 Chapter 3: SECTION TEMPLATES.....	 31
Derived CDA Section.....	32
EMS Advance Directives Section.....	32
EMS Allergies And Adverse Reactions Section.....	33
EMS Billing Section.....	34
EMS Cardiac Arrest Event Section.....	35
EMS Current Medication Section.....	38
EMS Dispatch.....	39
EMS Disposition Section.....	40
EMS Injury Incident Description Section.....	43
EMS Medications Administered Section.....	46
EMS Past Medical History.....	48
EMS Patient Care Narrative.....	49
EMS Personnel Adverse Event.....	50
EMS Physical Assessment Section.....	51
EMS Procedures Performed Section.....	55
EMS Protocol Section.....	58
EMS Response.....	59
EMS Scene Section.....	62
EMS Situation Section.....	64

EMS Social History.....	67
EMS Times Section.....	68
EMS Vital Signs Section.....	70

Chapter 4: CLINICAL STATEMENT TEMPLATES..... 75

Chapter 5: OTHER CLASSES..... 77

Derived Entry.....	78
--------------------	----

Chapter 6: VALUE SETS..... 79

AED Use Prior To EMS Arrival.....	82
Abdomen Assessment Finding.....	82
Abdominal Finding Location.....	83
Administrative Gender.....	83
Advance Directive Type.....	83
Airbag Status.....	84
Airway Device Confirmation Method.....	84
Airway Device Type.....	84
Alcohol Drug Use Indicator.....	85
Anatomic Location.....	85
Back Spine Assessment Finding.....	85
Back Spine Finding Location.....	86
Barrier To Care.....	87
Cardiac Arrest Cause.....	87
Cardiac Arrest Timing.....	88
Cardiac Arrest Witness Role.....	88
Cardiac Rhythm Reading.....	88
Cardinality.....	91
Cardiopulmonary Resuscitation Type.....	91
Chest Lung Assessment Finding.....	91
Complaint.....	93
Complaint Type.....	94
Confidentiality.....	94
Current Medication Administration Route.....	94
Destination Choice Reason.....	95
Destination Prearrival Activation.....	95
Destination Type.....	95
Disaster Type.....	96
Dispatch Delay Type.....	96
ECG Type.....	97
EMD Performed.....	97
EMS Billing Condition.....	98
EMS Condition Code.....	98
EMS Level Of Service.....	98
Environmental Allergy Type.....	98
Existence Of Contraindications To Thrombolytic Use.....	99
Extremities Assessment Finding.....	99
Extremity Finding Location.....	100
Eye Assessment Finding.....	102
Eye Finding Location.....	102
Face Assessment Finding.....	103
First Monitored Rhythm.....	103
GCS eye response.....	104

GCS motor response.....	104
GCS verbal response.....	105
Glasgow Coma Score Qualifier.....	105
HL7 Administrative Gender.....	105
HL7 Confidentiality.....	105
HL7 Human Language.....	105
Head Assessment Finding.....	106
Heart Assessment Finding.....	106
Human language.....	107
IV Site.....	107
Incident Outcome.....	108
Injury Risk Factor.....	109
LOINC.....	109
Length Based Tape Measure.....	109
Level Of Responsiveness.....	110
Mechanism Of Injury.....	110
Medication Administered Route.....	110
Medication Authorization Type.....	110
Medication Complication.....	111
Medication Not Given Reason.....	111
Mental Status Finding.....	112
Method Of ECG Interpretation.....	112
Neck Assessment Finding.....	113
Neurological Assessment Finding.....	113
Organ System.....	114
Patient Condition Change.....	115
Patient Status.....	115
Patient Status Change.....	115
Pelvis Genitourinary Assessment.....	115
Pregnancy.....	116
Prior Care Provider Role.....	117
Procedure Complication Type.....	117
Protocol.....	118
Protocol Age Category.....	120
Provider Adverse Event Type.....	121
Provider Response Role.....	121
Provider Role.....	122
Provider Role Level.....	122
Race and Ethnicity.....	123
Race and Ethnicity.....	123
Reason Procedure not Performed.....	123
Registry Type.....	123
Response Delay Type.....	124
Resuscitation Attempt.....	124
Resuscitation Not Attempted Reason.....	125
Resuscitation Discontinue Reason.....	125
Return Of Spontaneous Circulation.....	125
Safety Equipment Type.....	126
Scene Delay Type.....	126
Service Level.....	127
Service Type.....	127
Skin Assessment.....	127
Stroke Scale.....	128
Stroke Scale Score.....	128
Transport Delay Type.....	129
Transport Method.....	129

Transport Mode.....	130
Transportation Mode.....	130
Trauma Center Criteria.....	130
Turn Around Delay Type.....	131
Unit Response Role.....	131
Vehicle Impact Area.....	131
Vehicle Passenger Location.....	132
 Chapter 7: Appendices.....	 133
Object Identifiers for US State Departments of Motor Vehicles.....	134
Nulls and Negative Action Values.....	135
UCUM Unit Mapping.....	136
REFERENCES.....	139

Acknowledgments

This implementation guide was developed with the support and sponsorship of the National EMS Information System (NEMSIS), directed by Clay Mann. Additional clinical guidance was provided by Dr. Greg Mears. NEMSIS is supported by 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.

Shakir Consulting was instrumental in the creation of the domain analysis model and constrained model that inform this specification.

The HL7 Patient Care, Emergency Care, and Clinical Interoperability Council working groups sponsored the project, but we also leaned heavily on the work done by HL7's Structured Documents committee, as well as exemplary guides produced by other teams, most notably the Healthcare Associated Infections team. Special thanks go to Russ Hamm, Jerry Sable, Rob Hausam, Keith Boone, Dan Leonard, and Dan Vreeman.

The work could not have been completed without the indefatigable assistance of Jaci Phillips and the support of the Regenstrief institute.

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Revision History

Rev	Date	By Whom	Changes
R1 D1	May 2011	Jay Lyle	Initial draft, level two
R1 D2	September 2011	Jay Lyle	Revisions from May ballot; extended to level 3
R1 D3	December 2011	Jay Lyle	Revisions from September ballot
R1 D4	June 2012	Jay Lyle	Implemented in MDHT

A detailed list of changes from the October ballot follows, also noting minor changes applied in the subsequent process of publishing in MDHT.

ID Change	Changed By	Date Changed
1 5/2011 #1: Updated address constraint format	JLyle	Jun-11
2 5/2011 #2: Updated appendix B	JLyle	Jun-11
3 5/2011 #3: Called out conformance statements from referenced standards with formatting (shading).	JLyle	Jun-11
4 5/2011 #4: Changed ID practice constraint from SHALL to SHOULD (was conf-6 to 8; now conf-3 & 4).	JLyle	Jun-11
5 5/2011 #5: Changed strength of confidentiality code system from SHALL to SHOULD (was conf-12; now conf-8).	JLyle	Jun-11
6 5/2011 #6: Added constraints to prevent mixed content and support identified address parts and cardinality (all addresses).	JLyle	Jun-11
7 5/2011 #7: Added regex constraint to ensure field is a telephone number. (Was conf-21; now GHC conf.)	JLyle	Jun-11
8 5/2011 #8: Provided guidance on family names (was conf-24; now conf-10).	JLyle	Jun-11
9 5/2011 #9: Use CDC race and ethnicity codes (was conf-28-29; now conf-12)	JLyle	Jun-11
10 5/2011 #11: "Vocab OK with either dynamic binding or concept domain binding; due to lack of realm administrative body in US, we will use dynamic"	JLyle	Jun-11
11 Articulated section data as clinical statements	JLyle	Jun-11
12 Changed template OIDs from IHE to NEMESIS	JLyle	Jun-11
13 Updated section on approach to nulls and negatives with resulting changes to medications, medical history, and allergies; added appendix for mapping of NEMESIS values.	JLyle	Jun-11
14 Added EncompassingEncounter/Location/HealthCareFacility/Place	JLyle	Jun-11
15 Added destination participant	JLyle	Jun-11
16 9/2011: all typographical changes	JLyle	Jun-11
17 9/2011 #2: added organizer for non-medication allergies	JLyle	Nov-11
18 9/2011 # 5: changed 'Adverse Event' to 'Exposures or Injuries of EMS Personnel'	JLyle	Nov-11

ID Change	Changed By	Date Changed
19 9/2011 #6: Updated LOINC codes	JLyle	Dec-11
20 9/2011 #7, 68: Included vocabularies in appendix	IP	
21 9/2011 #8: Included copyright information for copyrighted IP	JLyle	Dec-11
22 9/2011 #9: Provide URL for CDA schema for implementers	JLyle	Dec-11
23 9/2011 #12: Provide URL for LOINC for implementers	JLyle	Dec-11
24 9/2011 #13: Provide URL for IHE framework for implementers	JLyle	Dec-11
25 9/2011 #15: Provide examples of new and old constraints (see change #3 above)	JLyle	Dec-11
26 9/2011 #18: Moved description of GHC from 6.2 to 6.1, prior to its first use	JLyle	Dec-11
27 9/2011 #19: Swapped order of conf-1 (GHC) and conf-2 (document) (really?)	JLyle	Dec-11
28 9/2011 #22: Updated optionality constraints	IP	
29 9/2011 #23: confirmed tel regex	JLyle	Dec-11
30 9/2011 #24: Ensure all GHC constraints have reference numbers	JLyle	Dec-11
31 9/2011 #25: Added explanation for 2nd race code entry	JLyle	Dec-11
32 9/2011 #29: Added root instructions for dispatch id and performer id (hmm)	JLyle	Dec-11
33 9/2011 #38: Update value set references with correct format indicating static or dynamic	JLyle	Dec-11
34 9/2011 #39-46: Updated xpath for entryRelationship/Observation	JLyle	Dec-11
35 9/2011 #49: added conditional requirement for drug allergy observation	JLyle	Dec-11
36 9/2011 #50: Changed blood coagulation disorder from SCT to ICD	JLyle	Dec-11
37 9/2011 #54: Changed pain scale to ordinal	JLyle	Dec-11
38 9/2011 #55: Corrected Glasgow Coma ranges	JLyle	Dec-11
39 9/2011 #58: Specified entryRelationship/typeCode Caus Comp* Mfst Refr Rson Subj	JLyle	Dec-11
40 9/2011 #59, 61: Update conformance criterion numbering	IP	
41 9/2011 #69: Include table of required and optional sections	JLyle	Dec-11
42 9/2011 #70: Add “open” to template definitions	IP	
43 Changed CONF-34 destination entity from id to name	JLyle	Dec-11

List of Figures

Figure 1: Template name and "conforms to" appearance..... 16

Figure 2: Template-based conformance statements example..... 17

Figure 3: CCD conformance statements example..... 17

Figure 4: ClinicalDocument example..... 18

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.

CDA, or Clinical Document Architecture, 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. An EMS Patient Care Report is also known as a run report.

Further information about CDA is available at [HL7.org](http://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, the Health Resources and Services Administration, the University of Utah, and the University of North Carolina.

We expect this standard to change during the DSTU period. Issues should be reported on the HL7 Draft Standard for Trial Use (DSTU) comment page at <http://www.hl7.org/dstucomments/>. For more information and status on the progress of this specification during the DSTU period, consult the HL7 wiki, EMS projects page.

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.

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 NEMESIS elements to the CDA schema are included in this document. 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 NEMESIS 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 NEMESIS 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 in “level one” documents, or they may populate the structured sections as specified herein.

Because the NEMESIS data set is so broad, it extends beyond the Emergency Transfer of Care specified by Integrating the Healthcare Enterprise (IHE). These templates may be harmonized in the future; at this point, they are distinct.

Approach

We first converted the NEMESIS specification into an analysis model in 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. Both DAM and DIM are scheduled for publication in 2013, but they can be found on the HL7 Wiki.

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 iteration is no longer correct.

Harmonization with Emergency Department specifications and *Data Elements for Emergency Department Systems*(DEEDS) involved use of extant 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. 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 was not performed during the encounter or that it has never been performed on the patient. 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 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. Questions supporting observations about procedures can differentiate between encounter and patient history, letting assertions about the truth or existence of the knowledge obtain in the appropriate scope.

As a result, the medical history sections include, in addition to problems, procedures, medications, and allergies, observations regarding the existence of problems, procedures, medications, and allergies.

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 are 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 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. See *Templates by Containment* for a listing of the higher level templates by containment; the appendix *Templates Used in This Guide* includes a table of all of the templates *Organized Hierarchically*.

Vocabulary and Value Sets

Vocabularies recommended in this guide are from standard vocabularies. When SNOMED codes are used, rules defined in *Using SNOMED CT in HL7 Version 3* are adhered to. In many cases, these vocabularies are further constrained into value sets for use within this guide. Value set names and OIDs are summarized in the table *Summary of Value Sets*. Each named value set in this summary table is stored in a template database that will be maintained by CHCA.

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

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 various figures 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:h17-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 2.16.840.1.113883.17.3.10.1]

1. **SHALL** conform to *Consol General Header Constraints* template (templateId: 2.16.840.1.113883.10.20.22.1.1)
 2. **SHALL** contain exactly one [1..1] **@classCode**= "DOCCLIN" (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
 3. **SHALL** contain exactly one [1..1] **@moodCode**= "EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)
 4. **SHALL** contain exactly one [1..1] **code** (CONF:5253)/**@code**= "67796-3" *EMS Patient Care Report* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 5. Contains zero or one [0..1] **author**
 - a. This author **SHALL** contain zero or one [0..1] **@typeCode**= "AUT"
 - b. This author Contains zero or one [0..1] **assignedAuthor**
 - a. This assignedAuthor **SHALL** contain zero or one [0..1] **@classCode**= "ASSIGNED"
 - b. This assignedAuthor Contains zero or one [0..1] **assignedAuthoringDevice**
 - 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 space
6. **SHALL** contain exactly one [1..1] **recordTarget**
 - a. This recordTarget **SHALL** conform to *Consol Record Target*
 - b. This recordTarget Contains zero or one [0..1] **patientRole**
 - a. This patientRole **SHALL** contain at least one [1..*] **addr**

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
 - b. This patientRole Contains at least one [1..*] **id**

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.
 - c. This patientRole Contains zero or more [0..*] **telecom**

NEMESIS Trace: EPatient.18
 - d. This patientRole Contains zero or one [0..1] **patient**
 - a. This patient Contains zero or one [0..1] **birthTime**

NEMESIS Trace

EPatient.17

- b. This patient **SHALL** contain zero or one [0..1] **ethnicGroupCode**, where the @code **SHALL** be selected from (CodeSystem: 2.16.840.1.113883.6.238 Race and Ethnicity - CDC)

NEMESIS Trace: EPatient.14

- c. This patient Contains zero or more [0..*] **name**

*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.*

- d. This patient **SHALL** contain zero or one [0..1] **raceCode**, where the @code **SHALL** be selected from (CodeSystem: 2.16.840.1.113883.6.238 Race and Ethnicity - CDC)

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.

- e. This patient **SHALL** contain zero or more [0..*] **sDTCRaceCode**, where the @code **SHALL** be selected from (CodeSystem: 2.16.840.1.113883.6.238 Race and Ethnicity - CDC)

NEMESIS Trace: EPatient.14

- f. This patient **SHALL** contain exactly one [1..1] **administrativeGenderCode**, where the @code **SHALL** be selected from (CodeSystem: 2.16.840.1.113883.5.1 AdministrativeGenderCode)

*NEMESIS Trace: EPatient.13***7. MAY** contain zero or one [0..1] **author**

- a. This author Contains zero or one [0..1] **assignedAuthor**

- a. This assignedAuthor **SHALL** contain exactly one [1..1] **id**

NEMESIS Trace: EOther.08

- b. This assignedAuthor **SHALL** contain zero or more [0..*] **addr**

*NEMESIS Trace**DProfessional.04 . . . /AssignedAuthor/addr/streetAddressLine**DProfessional.05 . . . /AssignedAuthor/addr/city**DProfessional.06 . . . /AssignedAuthor/addr/state**DProfessional.07 . . . /AssignedAuthor/addr/postalCode**DProfessional.08 . . . /AssignedAuthor/addr/country*

- c. This assignedAuthor **SHALL** contain exactly one [1..1] **telecom**

NEMESIS Trace: DProfessional.09

- d. This assignedAuthor Contains zero or one [0..1] **assignedPerson**

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

- b. This assignedPerson **SHALL** contain exactly one [1..1] **name** (CONF:9406)

NEMESIS Trace

DProfessional.01 . . . Person/name/family

DProfessional.02 . . . Person/name/given

DProfessional.03 . . . Person/name/given

8. **MAY** contain exactly one [1..1] **componentOf** (CONF:9955)

- a. This componentOf **SHALL** contain exactly one [1..1] **encompassingEncounter** (CONF:9956)
 - a. This encompassingEncounter **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:9958)
 - b. This encompassingEncounter **SHALL** contain at least one [1..*] **id** (CONF:9959)

9. Contains zero or one [0..1] **componentOf**

- a. This componentOf **SHALL** contain zero or one [0..1] **@typeCode= "COMP "**
- b. This componentOf Contains zero or one [0..1] **encompassingEncounter**
 - a. This encompassingEncounter **SHALL** contain exactly one [1..1] **effectiveTime**

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

- b. This encompassingEncounter Contains zero or one [0..1] **location**
 - a. This location **SHALL** contain exactly one [1..1] **healthCareFacility**
 - a. This healthCareFacility **SHALL** contain exactly one [1..1] **id**
 - b. This healthCareFacility **SHALL** contain exactly one [1..1] **location**
 - a. This location **SHALL** contain zero or one [0..1] **@classCode= "PLC "**
 - b. This location **MAY** contain zero or one [0..1] **name**

NEMESIS Trace: EScene.13

- c. This location **MAY** contain zero or one [0..1] **addr**

NEMESIS Trace: EScene.15-21

- c. This healthCareFacility **SHALL** contain exactly one [1..1] **code**, where the @code **SHALL** be selected from ValueSet [UnitResponseRole](#) 2.16.840.1.113883.17.3.5.82 **STATIC**

NEMESIS Trace: EResponse.07

10. **SHALL** contain exactly one [1..1] **component**

- a. Contains exactly one [1..1] [EMS Billing Section](#) (templateId: 2.16.840.1.113883.17.3.10.1.5)

11. **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, it may be advantageous to default to "1" in the first instance.*

12. **SHALL** contain exactly one [1..1] **id** (CONF:5363)

- *NEMESIS trace: ERecord.01*

13. **SHALL** contain exactly one [1..1] **title** = "EMS Patient Care Report" (CONF:5254)

14. **MAY** contain zero or one [0..1] **component**

- a. Contains exactly one [1..1] [EMS Injury Incident Description Section](#) (templateId: 2.16.840.1.113883.17.3.10.1.17)

15. **SHALL** contain exactly one [1..1] **component**

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

16. **MAY** contain zero or one [0..1] **component**

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

17. SHOULD contain zero or one [0..1] **component**

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

18. SHALL contain exactly one [1..1] **component**

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

19. SHALL contain exactly one [1..1] **component**

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

20. SHALL contain exactly one [1..1] **component**

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

21. SHALL contain exactly one [1..1] **component**

- a. Contains exactly one [1..1] *EMS Physical Assessment Section* (templateId: 2.16.840.1.113883.17.3.10.1.20)

22. MAY contain zero or one [0..1] **component**

- a. Contains exactly one [1..1] *EMS Medications Administered Section* (templateId: 2.16.840.1.113883.17.3.10.1.18)

23. SHALL contain exactly one [1..1] **component**

- a. Contains exactly one [1..1] *EMS Procedures Performed Section* (templateId: 2.16.840.1.113883.17.3.10.1.21)

24. SHALL contain exactly one [1..1] **component**

- a. Contains exactly one [1..1] *EMS Patient Care Narrative* (templateId: 2.16.840.1.113883.17.3.10.1.1)

25. SHALL contain exactly one [1..1] **component**

- a. Contains exactly one [1..1] *EMS Scene Section* (templateId: 2.16.840.1.113883.17.3.10.1.8)

Patient Care Report example

```
<?xml version="1.0" encoding="UTF-8"?>
<ClinicalDocument xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns="urn:hl7-org:v3" xmlns:sdtc="urn:hl7-org:sdtc"
xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd" classCode="DOCCLIN"
moodCode="EVN">
  <realmCode code="US"/>
  <typeId root="2.16.840.1.113883.1.3"/>
  <templateId root="2.16.840.1.113883.10.20.22.1.1"/>
  <templateId root="2.16.840.1.113883.17.3.10.1"/>
  <id root="639159099" extension="MDHT"/>
  <code code="67796-3" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS Patient Care Report"/>
  <title>EMS Patient Care Report</title>
  <effectiveTime/>
  <confidentialityCode codeSystem="2.16.840.1.113883.5.25"
codeSystemName="ConfidentialityCode"/>
  <setId root="79c5833d-f3bd-4878-bc21-ba22ba26fa2a" extension="MDHT"/>
  <versionNumber value="1"/>
  <recordTarget>
    <patientRole>
      <id root="1062803331" extension="MDHT"/>
      <addr/>
      <patient>
        <administrativeGenderCode codeSystem="2.16.840.1.113883.5.1"
codeSystemName="AdministrativeGenderCode"/>
```

```

        <raceCode codeSystem="2.16.840.1.113883.6.238" codeSystemName="Race
and Ethnicity - CDC"/>
        <sdct:raceCode codeSystem="2.16.840.1.113883.6.238"
codeSystemName="Race and Ethnicity - CDC"/>
        <ethnicGroupCode codeSystem="2.16.840.1.113883.6.238"
codeSystemName="Race and Ethnicity - CDC"/>
    </patient>
    </patientRole>
</recordTarget>
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    <time/>
    <assignedAuthor classCode="ASSIGNED">
        <id root="262982858" extension="MDHT"/>
        <assignedAuthoringDevice/>
    </assignedAuthor>
</author>
<author>
    <time/>
    <assignedAuthor>
        <id root="270141566" extension="MDHT"/>
        <addr/>
        <telecom/>
        <assignedPerson/>
    </assignedAuthor>
</author>
<custodian/>
<componentOf typeCode="COMP">
    <encompassingEncounter>
        <effectiveTime>
            <low value="2012"/>
            <high value="2012"/>
        </effectiveTime>
        <location/>
    </encompassingEncounter>
</componentOf>
<component>
    <structuredBody>
        <component>
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                <templateId root="2.16.840.1.113883.17.3.10.1.5"/>
                <id root="1096268149" extension="MDHT"/>
                <code code="67659-3" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
                <title>TEXT FOR TITLE</title>
                <entry>
                    <observation>
                        <code code="67556-1" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
                    </observation>
                </entry>
                <entry>
                    <observation>
                        <code code="69464-6" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS level of service"/>
                    </observation>
                </entry>
            </section>
        </component>
        <component>
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                <templateId root="2.16.840.1.113883.17.3.10.1.17"/>
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```



```

    <code code="11374-6" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Injury incident description"/>
    <title>TEXT FOR TITLE</title>
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      <observation>
        <code code="69543-7" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Injury Cause"/>
      </observation>
    </entry>
    <entry>
      <observation>
        <code code="67494-5" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Injury Mechanism"/>
      </observation>
    </entry>
    <entry>
      <observation>
        <code code="67495-2" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Trauma Center Critieria"/>
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    </entry>
    <entry>
      <observation>
        <code code="67496-0" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Other injury risk factors"/>
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    </entry>
    <entry>
      <observation>
        <code code="67497-8" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Location of impact on the vehicle"/>
      </observation>
    </entry>
    <entry>
      <observation>
        <code code="67498-6" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Location of patient in vehicle"/>
      </observation>
    </entry>
    <entry>
      <observation>
        <code code="67499-4" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Safety equipment"/>
      </observation>
    </entry>
    <entry>
      <observation>
        <code code="67500-9" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Airbag deployment"/>
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    </entry>
    <entry>
      <observation>
        <code code="67501-7" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Height of fall"/>
      </observation>
    </entry>
    <entry>
      <observation>
        <code code="69463-8" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Suspected intentional or unintentional
disaster"/>
      </observation>
    </entry>

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    </section>
  </component>
  <component>
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codeSystemName="LOINC" displayName="EMS Current Medications"/>
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codeSystemName="LOINC" displayName="Currently on medication"/>
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codeSystemName="LOINC"/>
        </observation>
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      <entry>
        <substanceAdministration classCode="SBADM">
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codeSystemName="LOINC"/>
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      <templateId root="2.16.840.1.113883.17.3.10.1.14"/>
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codeSystemName="LOINC" displayName="EMS CARDIAC ARREST EVENT"/>
      <title>EMS Cardiac Arrest Event</title>
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          <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4"
codeSystemName="HL7ActCode" displayName="ASSERTION"/>
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      <code code="67840-9" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS Advance Directives"/>
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      <entry>
        <observation>
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codeSystemName="LOINC" displayName="Advanced directive"/>
        </observation>
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        <code code="67841?7" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS Allergies and Adverse Reactions"/>
        <title>EMS Allergies and Adverse Reactions</title>
        <entry>
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        </entry>
        <entry>
            <organizer/>
        </entry>
    </section>
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        <code code="67842?5" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS past medical history"/>
        <title>EMS Past Medical History</title>
        <entry>
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        </entry>
        <entry>
            <organizer/>
        </entry>
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<component>
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        <id root="1734194828" extension="MDHT"/>
        <code code="67843?3" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS Social History"/>
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        <entry>
            <observation>
                <code code="69757?3" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Indications of drug or alcohol use by
the patient"/>
            </observation>
        </entry>
        <entry>
            <observation>
                <code code="67669?2" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Alcohol - drug use"/>
            </observation>
        </entry>
    </section>
</component>
<component>
    <section>
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        <id root="554072106" extension="MDHT"/>
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codeSystemName="LOINC"/>
        <title>TEXT FOR TITLE</title>
        <entry>
            <organizer/>
        </entry>
    </section>

```

```

        <entry>
          <observation>
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codeSystemName="LOINC" displayName="Patient Pregnancy"/>
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        </entry>
        <entry>
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codeSystemName="LOINC" displayName="Last oral intake"/>
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        </entry>
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            <code code="30525?0" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Patient age"/>
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        </entry>
        <entry>
          <observation>
            <code code="67523?1" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Contraindications to thrombolytic use"/
>
          </observation>
        </entry>
        <entry>
          <observation>
            <code code="67523?1" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Barriers to patient care"/>
          </observation>
        </entry>
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    </component>
    <component>
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        <id root="771553279" extension="MDHT"/>
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codeSystemName="LOINC" displayName="Medications administered"/>
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        <entry>
          <substanceAdministration classCode="SBADM">
            <routeCode codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
          </substanceAdministration>
        </entry>
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    </component>
    <component>
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        <templateId root="2.16.840.1.113883.17.3.10.1.21"/>
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        <code code="67802?9" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS Procedures Performed"/>
        <title>EMS Procedures Performed</title>
        <entry>
          <procedure>
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            <statusCode code="Aborted"/>
            <approachSiteCode codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
          </procedure>

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        </entry>
      </section>
    </component>
    <component>
      <section>
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        <id root="781028956" extension="MDHT"/>
        <code code="67781?5" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS Patient Care Report Narrative"/>
        <title>EMS Patient Care Report Narrative</title>
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    <component>
      <section>
        <typeId root="2.16.840.1.113883.1.3"/>
        <templateId root="2.16.840.1.113883.17.3.10.1.8"/>
        <id root="387030957" extension="MDHT"/>
        <code code="67665?0" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS Scene"/>
        <title>EMS Scene</title>
        <entry>
          <observation>
            <code code="67665?0" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS reporter is first unit on scene"/>
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        </entry>
        <entry>
          <observation>
            <code code="67481?2" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Name of first unit on scene"/>
          </observation>
        </entry>
        <entry>
          <observation>
            <code code="67489?5" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS Count of patients at scene"/>
          </observation>
        </entry>
        <entry>
          <observation/>
        </entry>
      </section>
    </component>
  </structuredBody>
</component>
</ClinicalDocument>

```

Chapter

3

SECTION TEMPLATES

Topics:

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

Derived CDA Section

[Section: templateId null]

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

1. Contains exactly one [1..1] **entry**, where its type is *Derived Entry*
 - a. Contains exactly one [1..1] *Derived Entry* (templateId: 2.16.840.1.113883.17.3.10.1.24)

Derived CDA Section example

```
<?xml version="1.0" encoding="UTF-8"?>
<section xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd">
  <id root="698512218" extension="MDHT"/>
  <title>TEXT FOR TITLE</title>
  <entry/>
</section>
```

EMS Advance Directives Section

[Section: templateId 2.16.840.1.113883.17.3.10.1.12]

1. **SHALL** conform to *Derived CDA Section*
2. **SHALL** contain zero or one [0..1] **code/@code**= "67840-9" *EMS Advance Directives* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
3. **SHOULD** contain zero or one [0..1] **title** = "EMS Advance Directives"
4. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry Contains zero or one [0..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**= "67516-5" *Advanced directive* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *AdvanceDirectiveType* 2.16.840.1.113883.17.3.5.63 **STATIC**

EMS Advance Directives Section example

```
<?xml version="1.0" encoding="UTF-8"?>
<section xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd">
  <templateId root="2.16.840.1.113883.17.3.10.1.12"/>
  <id root="1831207001" extension="MDHT"/>
  <code code="67840-9" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS Advance Directives"/>
  <title>EMS Advance Directives</title>
  <entry>
    <observation>
```



```

    <code code="67516-5" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Advanced directive"/>
  </observation>
</entry>
</section>

```

EMS Allergies And Adverse Reactions Section

[Section: templateId 2.16.840.1.113883.17.3.10.1.13]

1. **SHALL** conform to *Derived CDA Section*
2. **SHALL** contain exactly one [1..1] **code**/**@code**="67841?7" *EMS Allergies and Adverse Reactions* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
3. **SHOULD** contain zero or one [0..1] **title** = "EMS Allergies and Adverse Reactions"
4. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **SHALL** contain exactly one [1..1] **organizer**
 - a. This organizer **SHALL** contain exactly one [1..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **code**/**@code**="67794?8" *Existence of drug allergy* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This component Contains zero or more [0..*] **value** with data type BL

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.
 - b. This organizer **MAY** contain zero or more [0..*] **component**
 - a. Such components Contains exactly one [1..1] **code**
 - b. Such components **SHALL** contain exactly one [1..1] **value** with data type CD/**@code**="106190000" *allergy* (CodeSystem: 2.16.840.1.113883.6.96 SNOMEDCT)
 - c. Such components Contains exactly one [1..1] **participant**
 - a. This participant Contains exactly one [1..1] **participantRole**
 - a. This participantRole Contains exactly one [1..1] **playingEntity**
 - a. This playingEntity **SHALL** contain exactly one [1..1] **code**, where the **@code** **SHALL** be selected from (CodeSystem: 2.16.840.1.113883.6.88 RxNorm)

NEMESIS Trace: EHistory.06

- 5. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry Contains exactly one [1..1] **organizer**
 - a. This organizer **SHALL** contain exactly one [1..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **code**/**@code**="69747?4" *EMS Existence of environmental allergy* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This component Contains zero or one [0..1] **value** with data type BL

If NEMESIS EHistory.07 has no values, this is FALSE; otherwise it is TRUE.
 - b. This organizer **MAY** contain zero or more [0..*] **component**

- a. Such components **SHALL** contain exactly one [1..1] **code/@code**="69748?2" *Known allergies to food or environmental agents* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
- b. Such components **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *EnvironmentalAllergyType* 2.16.840.1.113883.17.3.5.83 **STATIC**

EMS Allergies And Adverse Reactions Section example

```
<?xml version="1.0" encoding="UTF-8"?>
<section xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd">
  <templateId root="2.16.840.1.113883.17.3.10.1.13"/>
  <id root="1169518437" extension="MDHT"/>
  <code code="67841?7" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS Allergies and Adverse Reactions"/>
  <title>EMS Allergies and Adverse Reactions</title>
  <entry>
    <organizer>
      <statusCode code="completed"/>
    </organizer>
  </entry>
  <entry>
    <organizer>
      <statusCode code="completed"/>
    </organizer>
  </entry>
</section>
```

EMS Billing Section

[Section: templateId 2.16.840.1.113883.17.3.10.1.5]

1. **SHALL** conform to *Derived CDA Section*
2. **SHALL** contain zero or one [0..1] **code/@code**="67659-3" (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
3. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="67556-1" (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain zero or more [0..*] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *EMSBillingCondition* 2.16.840.1.113883.17.3.5.71 **STATIC**
4. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="69464-6" *EMS level of service* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain zero or more [0..*] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *EMSLevelOfService* 2.16.840.1.113883.17.3.5.70 **STATIC**

EMS Billing Section example

```
<?xml version="1.0" encoding="UTF-8"?>
<section xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd">
  <templateId root="2.16.840.1.113883.17.3.10.1.5"/>
  <id root="63513576" extension="MDHT"/>
  <code code="67659-3" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
  <title>TEXT FOR TITLE</title>
  <entry>
    <observation>
      <code code="67556-1" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
      <value xsi:type="CD" code="591900001"/>
    </observation>
  </entry>
  <entry>
    <observation>
      <code code="69464-6" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS level of service"/>
      <value xsi:type="CD" code="112334445"/>
    </observation>
  </entry>
</section>
```

EMS Cardiac Arrest Event Section

[Section: templateId 2.16.840.1.113883.17.3.10.1.14]

1. **SHALL** conform to *Derived CDA Section*
2. **SHALL** contain zero or one [0..1] **code/@code**="67799-7" *EMS CARDIAC ARREST EVENT*
(CodeSystem: 2.16.840.1.113883.6.1 LOINC)
3. **SHOULD** contain exactly one [1..1] **title** = "EMS Cardiac Arrest Event"
4. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **SHALL** contain zero or one [0..1] **observation**
 - a. This observation Contains zero or one [0..1] **@negationInd**
Populate as true if NEMESIS EArrest.01 = "No"
 - b. This observation **SHALL** contain exactly one [1..1] **code/@code**="ASSERTION" *ASSERTION*
(CodeSystem: 2.16.840.1.113883.5.4 HL7ActCode)
 - c. This observation Contains zero or one [0..1] **effectiveTime**
NEMESIS Trace: EArrest.14
 - d. This observation **SHALL** contain exactly one [1..1] **value** with data type CD/**@code**="410429000" *cardiac arrest* (CodeSystem: 2.16.840.1.113883.6.96 SNOMEDCT)
NEMESIS Trace: EArrest.01
 - e. This observation Contains zero or one [0..1] **entryRelationship**
 - a. This entryRelationship Contains exactly one [1..1] **@inversionInd**="TRUE"
 - b. This entryRelationship Contains exactly one [1..1] **@typeCode**="SUBJ"
 - c. This entryRelationship Contains exactly one [1..1] **observation**

- a. This observation **SHALL** contain exactly one [1..1] **code/@code**="67503-3" *Cardiac arrest cause* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
- b. This observation **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *CardiacArrestCause* 2.16.840.1.113883.17.3.5.10 **STATIC**

NEMESIS Trace: EArrest.02

- f. This observation Contains zero or one [0..1] **entryRelationship**
 - a. This entryRelationship **SHALL** contain exactly one [1..1] **@inversionInd**="TRUE"
 - b. This entryRelationship Contains exactly one [1..1] **@typeCode**="SUBJ"
 - c. This entryRelationship Contains exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="67502-5" (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *CardiacArrestTiming* 2.16.840.1.113883.17.3.5.91 **STATIC**

NEMESIS Trace: EArrest.01

- g. This observation Contains zero or one [0..1] **informant**
 - a. This informant Contains exactly one [1..1] **@typeCode**="INF"
- h. This observation Contains zero or one [0..1] **entryRelationship**
 - a. This entryRelationship Contains exactly one [1..1] **@inversionInd**="TRUE"
 - b. This entryRelationship Contains exactly one [1..1] **@typeCode**="SUBJ"
 - c. This entryRelationship Contains exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="67506-6" *CPR prior to EMS arrival* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation Contains zero or more [0..*] **value** with data type BL

NEMESIS Trace: EArrest.05

- c. This observation Contains zero or one [0..1] **participant**
 - a. This participant Contains exactly one [1..1] **@typeCode**="RESP"
 - b. This participant Contains zero or one [0..1] **participantRole**
 - a. This participantRole **SHALL** contain zero or one [0..1] **code**, where the @code **SHALL** be selected from ValueSet *PriorCareProviderRole* 2.16.840.1.113883.17.3.5.12 **STATIC**
- i. This observation Contains zero or one [0..1] **entryRelationship**
 - a. This entryRelationship Contains zero or one [0..1] **@inversionInd**="TRUE"
 - b. This entryRelationship Contains exactly one [1..1] **@typeCode**="SUBJ"
 - c. This entryRelationship Contains exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="67508-2" *AED use prior to EMS arrival* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain zero or more [0..*] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *AEDUsePriorToEMSArrival* 2.16.840.1.113883.17.3.5.13 **STATIC**

NEMESIS Trace: EArrest.07

- c. This observation Contains zero or one [0..1] **participant**
 - a. This participant Contains exactly one [1..1] **@typeCode**="RESP"
 - b. This participant Contains exactly one [1..1] **participantRole**

- a. This participantRole **SHALL** contain zero or one [0..1] **code**, where the @code **SHALL** be selected from ValueSet [PriorCareProviderRole](#) 2.16.840.1.113883.17.3.5.12 **STATIC**

NEMESIS Trace: EArrest.08

- j. This observation Contains zero or one [0..1] **entryRelationship**
 - a. This entryRelationship Contains zero or one [0..1] @inversionInd="TRUE"
 - b. This entryRelationship Contains exactly one [1..1] @typeCode="SUBJ"
 - c. This entryRelationship Contains exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code**/@code="67513-2" *Return of spontaneous circulation* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain zero or more [0..*] **value** with data type CD, where the @code **SHALL** be selected from ValueSet [ReturnOfSpontaneousCirculation](#) 2.16.840.1.113883.17.3.5.15 **STATIC**

NEMESIS Trace: EArrest.12

- k. This observation Contains zero or more [0..*] **entryRelationship**
 - a. Such entryRelationships Contains exactly one [1..1] @inversionInd="TRUE"
 - b. Such entryRelationships Contains exactly one [1..1] @typeCode="SUBJ"
 - c. Such entryRelationships Contains exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code**/@code="67519-9" *Cardiac rhythm* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet [CardiacRhythmReading](#) 2.16.840.1.113883.17.3.5.16 **STATIC**

NEMESIS Trace: EArrest.17

EMS Cardiac Arrest Event Section example

```
<?xml version="1.0" encoding="UTF-8"?>
<section xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd">
  <templateId root="2.16.840.1.113883.17.3.10.1.14"/>
  <id root="1902435885" extension="MDHT"/>
  <code code="67799-7" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS CARDIAC ARREST EVENT"/>
  <title>EMS Cardiac Arrest Event</title>
  <entry>
    <observation>
      <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4"
codeSystemName="HL7ActCode" displayName="ASSERTION"/>
      <informant typeCode="INF"/>
      <entryRelationship typeCode="SUBJ" inversionInd="true"/>
      <entryRelationship typeCode="SUBJ" inversionInd="true"/>
      <entryRelationship typeCode="SUBJ" inversionInd="true"/>
      <entryRelationship typeCode="SUBJ" inversionInd="true"/>
      <entryRelationship typeCode="SUBJ" inversionInd="true"/>
      <entryRelationship typeCode="SUBJ" inversionInd="true"/>
    </observation>
  </entry>
</section>
```

EMS Current Medication Section

[Section: templateId 2.16.840.1.113883.17.3.10.1.15]

NEMESIS Trace: EHistory.12

1. **SHALL** conform to [Derived CDA Section](#)
2. **SHALL** contain zero or one [0..1] **code/@code**= "67844-1" *EMS Current Medications* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
3. Contains zero or one [0..1] **title**
4. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to [Derived Entry](#) template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry Contains zero or one [0..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**= "67791-4" *Currently on medication* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation Contains zero or more [0..*] **value** with data type BL

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.
5. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to [Derived Entry](#) template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry Contains zero or one [0..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**= "69749-0" (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation Contains zero or more [0..*] **value** with data type BL

If EHistory.12 has the value "No anticoagulants," the value is False
6. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to [Derived Entry](#) template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry Contains zero or one [0..1] **substanceAdministration**
 - a. This substanceAdministration Contains zero or one [0..1] **@negationInd**

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"
 - b. This substanceAdministration Contains zero or one [0..1] **@nullFlavor**

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"
 - c. This substanceAdministration Contains zero or one [0..1] **doseQuantity**

NEMESIS Trace: EHistory.13, EHistory.14
 - d. This substanceAdministration **SHALL** contain zero or one [0..1] **routeCode**, where the **@code** **SHALL** be selected from ValueSet [CurrentMedicationAdministrationRoute](#) 2.16.840.1.113883.17.3.5.17 **STATIC**

NEMESIS Trace: EMedication.15

EMS Current Medication Section example

```
<?xml version="1.0" encoding="UTF-8"?>
<section xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd">
  <templateId root="2.16.840.1.113883.17.3.10.1.15"/>
  <id root="1342716953" extension="MDHT"/>
  <code code="67844-1" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS Current Medications"/>
  <title>TEXT FOR TITLE</title>
  <entry>
    <observation>
      <code code="67791-4" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Currently on medication"/>
    </observation>
  </entry>
  <entry>
    <observation>
      <code code="69749-0" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
    </observation>
  </entry>
  <entry>
    <substanceAdministration>
      <routeCode codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
      <consumable/>
    </substanceAdministration>
  </entry>
</section>
```

EMS Dispatch

[Section: templateId 2.16.840.1.113883.17.3.10.1.2]

1. **SHALL** conform to *Derived CDA Section*
2. **SHALL** contain exactly one [1..1] **code**/**@code**="67660?1" *Dispatch* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
3. **SHALL** contain exactly one [1..1] **text**
4. **SHALL** contain exactly one [1..1] **title** = "EMS Dispatch"
5. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **MAY** contain zero or one [0..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code**/**@code**="67488?7" *EMDPerformed* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type CD, where the **@code** **SHALL** be selected from ValueSet *EMDPerformed* 2.16.840.1.113883.17.3.5.48 **STATIC**
6. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **MAY** contain zero or one [0..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code**
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type CD, where the **@code** **SHALL** be selected from ValueSet *Complaint* 2.16.840.1.113883.17.3.5.49 **STATIC**

EMS Dispatch example

```
<?xml version="1.0" encoding="UTF-8"?>
<section xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd">
  <templateId root="2.16.840.1.113883.17.3.10.1.2"/>
  <id root="1737449971" extension="MDHT"/>
  <code code="67660?1" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Dispatch"/>
  <title>EMS Dispatch</title>
  <text/>
  <entry>
    <observation>
      <code code="67488?7" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMDPerformed"/>
      <value xsi:type="CD" code="1404574533"/>
    </observation>
  </entry>
  <entry>
    <observation>
      <code code="1607975325"/>
      <value xsi:type="CD" code="360055343"/>
    </observation>
  </entry>
</section>
```

EMS Disposition Section

[Section: templateId 2.16.840.1.113883.17.3.10.1.4]

1. **SHALL** conform to *Derived CDA Section*
2. **SHALL** contain exactly one [1..1] **code**/**@code**="67796?3" *EMS Disposition* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
3. **SHALL** contain exactly one [1..1] **text**
4. **SHALL** contain exactly one [1..1] **title** = "EMS Disposition"
5. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code**/**@code**="67547?0" *EMS Number of patients* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type INT
6. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code**/**@code**="67548?8" *EMS incident disposition* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type CD, where the **@code** **SHALL** be selected from ValueSet *IncidentOutcome* 2.16.840.1.113883.17.3.5.64 **STATIC**
7. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)

- b. This entry **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code="67550?4"** *EMS transport mode* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *TransportMode* 2.16.840.1.113883.17.3.5.66 **STATIC**
- 8. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code="67550?4"** *EMS transport mode* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *TransportMode* 2.16.840.1.113883.17.3.5.66 **STATIC**
- 9. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code="67552?0"** *EMS reason for choosing destination* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *DestinationChoiceReason* 2.16.840.1.113883.17.3.5.68 **STATIC**
- 10. **SHALL** contain exactly one [1..1] **entry**
 - a. Contains exactly one [1..1] *Derived Entry* (templateId: 2.16.840.1.113883.17.3.10.1.24)
- 11. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code="69462?0"** *EMS prearrival activation performed* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type BL
 - c. This observation **SHALL** contain zero or one [0..1] **effectiveTime**
NEMESIS Trace: EDisposition.25
Required if value is TRUE
- 12. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code="67551?2"** *EMS patient condition change at destination* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *PatientConditionChange* 2.16.840.1.113883.17.3.5.59 **STATIC**

EMS Disposition Section example

```
<?xml version="1.0" encoding="UTF-8"?>
<section xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd">
```

```

<templateId root="2.16.840.1.113883.17.3.10.1.4"/>
<id root="1823774662" extension="MDHT"/>
<code code="67796?3" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS Disposition"/>
<title>EMS Disposition</title>
<text/>
<entry>
  <observation>
    <code code="67547?0" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS Number of patients"/>
    <value xsi:type="INT" value="1"/>
  </observation>
</entry>
<entry>
  <observation>
    <code code="67548?8" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS incident disposition"/>
    <value xsi:type="CD" code="175755983"/>
  </observation>
</entry>
<entry>
  <observation>
    <code code="67550?4" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS transport mode"/>
    <value xsi:type="CD" code="1038077052"/>
  </observation>
</entry>
<entry>
  <observation>
    <code code="67550?4" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS transport mode"/>
    <value xsi:type="CD" code="138915666"/>
  </observation>
</entry>
<entry>
  <observation>
    <code code="67552?0" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS reason for choosing destination"/>
    <value xsi:type="CD" code="257064636"/>
  </observation>
</entry>
<entry/>
<entry>
  <observation>
    <code code="69462?0" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS prearrival activation performed"/>
    <effectiveTime>
      <low value="2012"/>
      <high value="2012"/>
    </effectiveTime>
    <value xsi:type="BL"/>
  </observation>
</entry>
<entry>
  <observation>
    <code code="67551?2" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS patient condition change at
destination"/>
    <value xsi:type="CD" code="958533564"/>
  </observation>
</entry>
</section>

```

EMS Injury Incident Description Section

[Section: templateId 2.16.840.1.113883.17.3.10.1.17]

Known Subclasses: *EMS Injury Incident Description Section*

1. **SHALL** conform to *Derived CDA Section*
2. **SHALL** contain exactly one [1..1] **code/@code="11374-6" Injury incident description** (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
3. Contains zero or one [0..1] **text**
4. Contains zero or one [0..1] **title**
5. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry Contains exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code="69543-7" Injury Cause** (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from
Add binding to ICD-10 chapter XX
6. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry Contains zero or one [0..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code="67494-5" Injury Mechanism** (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *MechanismOfInjury* 2.16.840.1.113883.17.3.5.1 **STATIC**
7. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry Contains zero or one [0..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code="67495-2" Trauma Center Criteria** (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain at least one [1..*] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *TraumaCenterCriteria* 2.16.840.1.113883.17.3.5.3 **STATIC**
8. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry Contains zero or one [0..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code="67496-0" Other injury risk factors** (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain at least one [1..*] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *InjuryRiskFactor* 2.16.840.1.113883.17.3.5.4 **STATIC**
9. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)

b. This entry Contains zero or one [0..1] **observation**

- a.** This observation **SHALL** contain exactly one [1..1] **code/@code**= "67497-8" *Location of impact on the vehicle* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
- b.** This observation **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *VehicleImpactArea* 2.16.840.1.113883.17.3.5.5 **STATIC**

10. SHALL contain exactly one [1..1] **entry**

- a.** This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
- b.** This entry Contains zero or one [0..1] **observation**
 - a.** This observation **SHALL** contain exactly one [1..1] **code/@code**= "67498-6" *Location of patient in vehicle* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b.** This observation **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *VehiclePassengerLocation* 2.16.840.1.113883.17.3.5.6 **STATIC**

11. SHALL contain exactly one [1..1] **entry**

- a.** This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
- b.** This entry Contains zero or one [0..1] **observation**
 - a.** This observation **SHALL** contain exactly one [1..1] **code/@code**= "67499-4" *Safety equipment* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b.** This observation **SHALL** contain at least one [1..*] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *SafetyEquipmentType* 2.16.840.1.113883.17.3.5.7 **STATIC**

12. SHALL contain exactly one [1..1] **entry**

- a.** This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
- b.** This entry Contains zero or one [0..1] **observation**
 - a.** This observation **SHALL** contain exactly one [1..1] **code/@code**= "67500-9" *Airbag deployment* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b.** This observation **SHALL** contain zero or more [0..*] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *AirbagStatus* 2.16.840.1.113883.17.3.5.8 **STATIC**

13. SHALL contain exactly one [1..1] **entry**

- a.** This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
- b.** This entry Contains zero or one [0..1] **observation**
 - a.** This observation **SHALL** contain exactly one [1..1] **code/@code**= "67501-7" *Height of fall* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b.** This observation **SHALL** contain exactly one [1..1] **value** with data type PQ, where the @code **SHALL** be selected from ValueSet **STATIC**

14. SHALL contain exactly one [1..1] **entry**

- a.** This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
- b.** This entry Contains zero or one [0..1] **observation**
 - a.** This observation **SHALL** contain exactly one [1..1] **code/@code**= "69463-8" *Suspected intentional or unintentional disaster* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b.** This observation **SHALL** contain at least one [1..*] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *DisasterType* 2.16.840.1.113883.17.3.5.9 **STATIC**

EMS Injury Incident Description Section example

```

<?xml version="1.0" encoding="UTF-8"?>
<section xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd">
  <templateId root="2.16.840.1.113883.17.3.10.1.17"/>
  <id root="1949635768" extension="MDHT"/>
  <code code="11374-6" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Injury incident description"/>
  <title>TEXT FOR TITLE</title>
  <entry>
    <observation>
      <code code="69543-7" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Injury Cause"/>
    </observation>
  </entry>
  <entry>
    <observation>
      <code code="67494-5" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Injury Mechanism"/>
    </observation>
  </entry>
  <entry>
    <observation>
      <code code="67495-2" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Trauma Center Critieria"/>
    </observation>
  </entry>
  <entry>
    <observation>
      <code code="67496-0" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Other injury risk factors"/>
    </observation>
  </entry>
  <entry>
    <observation>
      <code code="67497-8" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Location of impact on the vehicle"/>
    </observation>
  </entry>
  <entry>
    <observation>
      <code code="67498-6" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Location of patient in vehicle"/>
    </observation>
  </entry>
  <entry>
    <observation>
      <code code="67499-4" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Safety equipment"/>
    </observation>
  </entry>
  <entry>
    <observation>
      <code code="67500-9" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Airbag deployment"/>
    </observation>
  </entry>
  <entry>
    <observation>
      <code code="67501-7" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Height of fall"/>
    </observation>
  </entry>

```

```

</entry>
<entry>
  <observation>
    <code code="69463-8" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Suspected intentional or unintentional
disaster"/>
  </observation>
</entry>
</section>

```

EMS Medications Administered Section

[Section: templateId 2.16.840.1.113883.17.3.10.1.18]

1. **SHALL** conform to *Derived CDA Section*
2. **SHALL** contain zero or one [0..1] **code**/@code="67849?0" *Medications administered* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
3. **SHALL** contain zero or one [0..1] **text**
4. **SHALL** contain zero or one [0..1] **title**
5. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **MAY** contain zero or one [0..1] **substanceAdministration**
 - a. This substanceAdministration **SHALL** contain exactly one [1..1] **@classCode**= "SBADM" (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
 - b. This substanceAdministration **MAY** contain zero or one [0..1] **@negationInd**

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 drawn from 2.16.840.1.113883.17.3.5.42 Medication omission reason and value = "Assertion."
 - c. This substanceAdministration **SHALL** contain exactly one [1..1] **doseQuantity**

NEMESIS Trace: EMedications.05, 06
 - d. This substanceAdministration **SHALL** contain exactly one [1..1] **effectiveTime**

NEMESIS Trace: EMedications.01
 - e. This substanceAdministration **SHALL** contain zero or one [0..1] **routeCode**, where the @code **SHALL** be selected from ValueSet *MedicationAdministeredRoute* 2.16.840.1.113883.17.3.5.43 **STATIC**

NEMESIS Trace: EMedications.04
 - f. This substanceAdministration **MAY** contain zero or one [0..1] **entryRelationship**
 - a. This entryRelationship **SHALL** contain exactly one [1..1] **@inversionInd**= "TRUE "
 - b. This entryRelationship **SHALL** contain exactly one [1..1] **@typeCode**/@code="RSON" *Reason* (CodeSystem: 2.16.840.1.113883.5.1002 HL7ActRelationshipType)
 - c. This entryRelationship **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code**/@code="ASSERTION" *Assertion* (CodeSystem: 2.16.840.1.113883.5.4 HL7ActCode)

- b. This observation **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet [MedicationNotGivenReason](#) 2.16.840.1.113883.17.3.5.92 **STATIC**
- g. This substanceAdministration **SHALL** contain exactly one [1..1] **consumable**
 - a. This consumable **SHALL** contain exactly one [1..1] **manufacturedProduct**
 - a. This manufacturedProduct **SHALL** contain exactly one [1..1] **manufacturedLabeledDrug**
 - a. This manufacturedLabeledDrug **SHALL** contain zero or one [0..1] **code**, where the @code **SHALL** be selected from (CodeSystem: 2.16.840.1.113883.6.88 RxNorm)

NEMESIS Trace: EMedications.03
- h. This substanceAdministration **SHALL** contain exactly one [1..1] **entryRelationship**
 - a. This entryRelationship **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="67540?5" *Response to medication* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain zero or more [0..*] **value** with data type CD, where the @code **SHALL** be selected from ValueSet [PatientConditionChange](#) 2.16.840.1.113883.17.3.5.59 **STATIC**
- i. This substanceAdministration **SHALL** contain at least one [1..*] **entryRelationship**
 - a. Such entryRelationships **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="67541?3" *Medication complication* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain zero or more [0..*] **value** with data type CD, where the @code **SHALL** be selected from ValueSet [MedicationComplication](#) 2.16.840.1.113883.17.3.5.45 **STATIC**
- j. This substanceAdministration **SHALL** contain exactly one [1..1] **entryRelationship**
 - a. This entryRelationship **SHALL** contain exactly one [1..1] **observation**

NEMESIS Trace: EMedications.02

 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="67539?7" *Prior administration* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type BL

NEMESIS Trace: EMedications.02
- k. This substanceAdministration **MAY** contain zero or one [0..1] **participant**

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

 - a. This participant **SHALL** contain exactly one [1..1] **participantRole**
 - a. This participantRole **SHALL** contain exactly one [1..1] **code**, where the @code **SHALL** be selected from ValueSet [ProviderRole](#) 2.16.840.1.113883.17.3.5.46 **STATIC**

NEMESIS Trace: EMedications.10
 - b. This participantRole **SHALL** contain exactly one [1..1] **id**

NEMESIS Trace: EMedications.09

This participation is required if the medication is administered by the crew; i.e., if EMSMedicationPriorAdministrationObservation is FALSE.
- l. This substanceAdministration **MAY** contain zero or one [0..1] **entryRelationship**

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**
 - a. This act **SHALL** contain exactly one [1..1] **@classCode/@code= "INFRM"** (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
 - b. This act **SHALL** contain exactly one [1..1] **code**, where the @code **SHALL** be selected from ValueSet [MedicationAuthorizationType](#) 2.16.840.1.113883.17.3.5.47 **STATIC**

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

EMS Medications Administered Section example

```
<?xml version="1.0" encoding="UTF-8"?>
<section xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd">
  <templateId root="2.16.840.1.113883.17.3.10.1.18"/>
  <id root="527874619" extension="MDHT"/>
  <code code="67849?0" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Medications administered"/>
  <title>TEXT FOR TITLE</title>
  <text/>
  <entry>
    <substanceAdministration classCode="SBADM">
      <effectiveTime value="20120629"/>
      <routeCode codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
      <doseQuantity/>
      <consumable/>
      <participant/>
      <entryRelationship typeCode="RSON" inversionInd="true"/>
      <entryRelationship/>
      <entryRelationship/>
      <entryRelationship/>
      <entryRelationship/>
    </substanceAdministration>
  </entry>
</section>
```

EMS Past Medical History

[Section: templateId 2.16.840.1.113883.17.3.10.1.19]

1. **SHALL** conform to [Derived CDA Section](#)
2. **SHALL** contain exactly one [1..1] **code/@code= "67842?5"** *EMS past medical history* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
3. **SHOULD** contain zero or one [0..1] **title** = "EMS Past Medical History"
4. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to [Derived Entry](#) template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **MAY** contain zero or one [0..1] **organizer**

INLINE

- a. This organizer **SHALL** contain exactly one [1..1] **component**

INLINE

- a. This component **SHALL** contain exactly one [1..1] **code/@code**="67793?0" *Has the patient had any significant medical conditions* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
- b. This component Contains zero or more [0..*] **value** with data type BL

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.

INLINE

- b. This organizer **MAY** contain zero or more [0..*] **component**

INLINE

- a. Such components **SHALL** contain exactly one [1..1] **code/@code**="68487?8" *EMS History of Condition* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
- b. Such components **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from

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.

INLINE

INLINE

5. **SHALL** contain exactly one [1..1] **entry**

- a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
- b. This entry Contains zero or one [0..1] **organizer**
- a.

EMS Past Medical History example

```
<?xml version="1.0" encoding="UTF-8"?>
<section xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd">
  <templateId root="2.16.840.1.113883.17.3.10.1.19"/>
  <id root="519242788" extension="MDHT"/>
  <code code="67842?5" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS past medical history"/>
  <title>EMS Past Medical History</title>
  <entry>
    <organizer>
      <statusCode code="completed"/>
    </organizer>
  </entry>
  <entry>
    <organizer>
      <statusCode code="completed"/>
    </organizer>
  </entry>
</section>
```

EMS Patient Care Narrative

[Section: templateId 2.16.840.1.113883.17.3.10.1.1]

1. **SHALL** contain exactly one [1..1] **code/@code**="67781?5" *EMS Patient Care Report Narrative* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
2. **SHALL** contain exactly one [1..1] **text**
 - *NEMESIS Trace: ENarrative.01*
3. **SHALL** contain exactly one [1..1] **title** = "EMS Patient Care Report Narrative"

EMS Patient Care Narrative example

```
<?xml version="1.0" encoding="UTF-8"?>
<section xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd">
  <templateId root="2.16.840.1.113883.17.3.10.1.1"/>
  <id root="1708774768" extension="MDHT"/>
  <code code="67781?5" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS Patient Care Report Narrative"/>
  <title>EMS Patient Care Report Narrative</title>
  <text/>
</section>
```

EMS Personnel Adverse Event

[Section: templateId 2.16.840.1.113883.17.3.10.1.6]

1. **SHALL** conform to *Derived CDA Section*
2. **SHALL** contain exactly one [1..1] **code/@code**="67658?5" *Exposures or injuries of EMS personnel* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
3. **SHALL** contain exactly one [1..1] **text**
4. **SHALL** contain exactly one [1..1] **title** = "Exposures or Injuries of EMS Personnel"
5. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="67554?6" *EMS personnel exposed or injured* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type BL
6. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="67555?3" *EMS personnel adverse event type* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *ProviderAdverseEventType* 2.16.840.1.113883.17.3.5.72 **STATIC**

EMS Personnel Adverse Event example

```
<?xml version="1.0" encoding="UTF-8"?>
<section xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd">
  <templateId root="2.16.840.1.113883.17.3.10.1.6"/>
  <id root="1650946188" extension="MDHT"/>
```

```

<code code="67658?5" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Exposures or injuries of EMS
personnel"/>
<title>Exposures or Injuries of EMS Personnel</title>
<text/>
<entry>
  <observation>
    <code code="67554?6" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS personnel exposed or injured"/>
    <value xsi:type="BL"/>
  </observation>
</entry>
<entry>
  <observation>
    <code code="67555?3" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS personnel adverse event type"/>
    <value xsi:type="CD" code="378216319"/>
  </observation>
</entry>
</section>

```

EMS Physical Assessment Section

[Section: templateId 2.16.840.1.113883.17.3.10.1.20]

1. **SHALL** conform to [Derived CDA Section](#)
2. **SHALL** contain exactly one [1..1] **code/@code="67668?4"** (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
3. **SHALL** contain exactly one [1..1] **text**
4. **SHOULD** contain exactly one [1..1] **title**
5. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to [Derived Entry](#) template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **SHALL** contain at least one [1..*] **organizer**
 - a. Such organizers **SHALL** contain exactly one [1..1] **effectiveTime**
NEMESIS Trace: EExam.03
 - b. Such organizers **MAY** contain zero or one [0..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **code/@code="8335?2"** (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This component **SHALL** contain exactly one [1..1] **value** with data type PQ
UCUM units should be 'kg'
 - c. Such organizers **MAY** contain zero or one [0..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **code/@code="67670?0"** (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This component **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet [LengthBasedTapeMeasure](#) 2.16.840.1.113883.17.3.5.24 **STATIC**
 - d. Such organizers **MAY** contain zero or one [0..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **code/@code="67524?9"** (CodeSystem: 2.16.840.1.113883.6.1 LOINC)

- b. This component **SHALL** contain at least one [1..*] **value** with data type CD, where the @code **SHALL** be selected from ValueSet [SkinAssessment](#) 2.16.840.1.113883.17.3.5.25 **STATIC**
- e. Such organizers **MAY** contain zero or one [0..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **code/@code**= "67525?6" (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This component **SHALL** contain at least one [1..*] **value** with data type CD, where the @code **SHALL** be selected from ValueSet [HeadAssessmentFinding](#) 2.16.840.1.113883.17.3.5.26 **STATIC**
- f. Such organizers **MAY** contain zero or one [0..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **code/@code**= "67526?4" (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This component **SHALL** contain at least one [1..*] **value** with data type CD, where the @code **SHALL** be selected from ValueSet [FaceAssessmentFinding](#) 2.16.840.1.113883.17.3.5.27 **STATIC**
- g. Such organizers **MAY** contain zero or one [0..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **code/@code**= "67527?2" *Neck assessment finding* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This component **SHALL** contain zero or more [0..*] **value** with data type CD, where the @code **SHALL** be selected from ValueSet [NeckAssessmentFinding](#) 2.16.840.1.113883.17.3.5.28 **STATIC**
- h. Such organizers **MAY** contain zero or one [0..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **code/@code**= "67528?0" *Chest and lungs assessment* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This component **SHALL** contain at least one [1..*] **value** with data type CD, where the @code **SHALL** be selected from ValueSet [ChestLungAssessmentFinding](#) 2.16.840.1.113883.17.3.5.29 **STATIC**
- i. Such organizers **MAY** contain zero or one [0..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **code/@code**= "67529?8" *Heart assessment finding* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This component **SHALL** contain at least one [1..*] **value** with data type CD, where the @code **SHALL** be selected from ValueSet [HeartAssessmentFinding](#) 2.16.840.1.113883.17.3.5.30 **STATIC**
- j. Such organizers **MAY** contain zero or more [0..*] **component**
 - a. Such components **SHALL** contain exactly one [1..1] **code/@code**= "67530?6" *Abdomen assessment* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. Such components **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet [AbdomenAssessmentFinding](#) 2.16.840.1.113883.17.3.5.31 **STATIC**
 - c. Such components **SHALL** contain exactly one [1..1] **targetSiteCode**, where the @code **SHALL** be selected from ValueSet [AbdominalFindingLocation](#) 2.16.840.1.113883.17.3.5.32 **STATIC**
- k. Such organizers **MAY** contain zero or one [0..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **code/@code**= "67531?4" *Pelvic and genitourinary assessment* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This component **SHALL** contain at least one [1..*] **value** with data type CD, where the @code **SHALL** be selected from ValueSet [PelvisGenitourinaryAssessment](#) 2.16.840.1.113883.17.3.5.33 **STATIC**
- l. Such organizers **MAY** contain zero or more [0..*] **component**

- a. Such components **SHALL** contain exactly one [1..1] **code/@code**="67532?2" *Back and spine assessment* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
- b. Such components **SHALL** contain exactly one [1..1] **targetSiteCode**, where the @code **SHALL** be selected from ValueSet *BackSpineFindingLocation* 2.16.840.1.113883.17.3.5.35 **STATIC**
- c. Such components **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *BackSpineAssessmentFinding* 2.16.840.1.113883.17.3.5.34 **STATIC**
- m. Such organizers **MAY** contain zero or more [0..*] **component**
 - a. Such components **SHALL** contain exactly one [1..1] **code/@code**="67533?0" *Extremities assessment* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. Such components **MAY** contain exactly one [1..1] **targetSiteCode**, where the @code **SHALL** be selected from ValueSet *ExtremityFindingLocation* 2.16.840.1.113883.17.3.5.37 **STATIC**
 - c. Such components **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *ExtremitiesAssessmentFinding* 2.16.840.1.113883.17.3.5.36 **STATIC**
- n. Such organizers **MAY** contain zero or more [0..*] **component**
 - a. Such components **SHALL** contain exactly one [1..1] **code/@code**="67534?8" *Eye assessment* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. Such components **SHALL** contain exactly one [1..1] **targetSiteCode**, where the @code **SHALL** be selected from ValueSet *EyeFindingLocation* 2.16.840.1.113883.17.3.5.39 **STATIC**
 - c. Such components **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *EyeAssessmentFinding* 2.16.840.1.113883.17.3.5.38 **STATIC**
- o. Such organizers **MAY** contain zero or one [0..1] **component**
 - a. This component **MAY** contain exactly one [1..1] **code/@code**="67535?5" *Mental status assessment* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This component **SHALL** contain at least one [1..*] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *MentalStatusFinding* 2.16.840.1.113883.17.3.5.84 **STATIC**
- p. Such organizers **MAY** contain zero or one [0..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **code/@code**="67536?3" *Neurological status assessment* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This component **SHALL** contain zero or more [0..*] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *NeurologicalAssessmentFinding* 2.16.840.1.113883.17.3.5.40 **STATIC**
- 6. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **MAY** contain zero or one [0..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="67471?3" *Patient Pregnancy* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *Pregnancy* 2.16.840.1.113883.17.3.5.42 **STATIC**
- 7. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **MAY** contain zero or one [0..1] **observation**

- a. This observation **SHALL** contain exactly one [1..1] **code/@code**="67517?3" *Last oral intake*
(CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type TS
8. **SHALL** contain exactly one [1..1] **entry**
- a. This entry **SHALL** conform to *Derived Entry* template (templateId:
2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="30525?0" *Patient age*
(CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type PQ

UCUM units SHOULD be 'a'
9. **SHALL** contain exactly one [1..1] **entry**
- a. This entry **SHALL** conform to *Derived Entry* template (templateId:
2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **MAY** contain zero or one [0..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="67523?1" *Contraindications to
thrombolytic use* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain at least one [1..*] **value** with data type CD, where the @code
SHALL be selected from ValueSet *ExistenceOfContraindicationsToThrombolyticUse*
2.16.840.1.113883.17.3.5.41 **STATIC**
10. **SHALL** contain exactly one [1..1] **entry**
- a. This entry **SHALL** conform to *Derived Entry* template (templateId:
2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="67523?1" *Barriers to patient care*
(CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain zero or more [0..*] **value** with data type CD, where the @code
SHALL be selected from ValueSet *BarrierToCare* 2.16.840.1.113883.17.3.5.85
STATIC

EMS Physical Assessment Section example

```
<?xml version="1.0" encoding="UTF-8"?>
<section xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd">
  <templateId root="2.16.840.1.113883.17.3.10.1.20"/>
  <id root="856195317" extension="MDHT"/>
  <code code="67668?4" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
  <title>TEXT FOR TITLE</title>
  <text/>
  <entry>
    <organizer>
      <statusCode code="completed"/>
      <effectiveTime>
        <low value="2012"/>
        <high value="2012"/>
      </effectiveTime>
    </organizer>
  </entry>
  <entry>
    <observation>
```

```

        <code code="67471?3" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Patient Pregnancy"/>
        <value xsi:type="CD" code="181507450"/>
    </observation>
</entry>
<entry>
    <observation>
        <code code="67517?3" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Last oral intake"/>
        <value xsi:type="TS"/>
    </observation>
</entry>
<entry>
    <observation>
        <code code="30525?0" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Patient age"/>
        <value xsi:type="PQ"/>
    </observation>
</entry>
<entry>
    <observation>
        <code code="67523?1" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Contraindications to thrombolytic use"/
>
    </observation>
</entry>
<entry>
    <observation>
        <code code="67523?1" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Barriers to patient care"/>
        <value xsi:type="CD" code="1122121880"/>
    </observation>
</entry>
</section>

```

EMS Procedures Performed Section

[Section: templateId 2.16.840.1.113883.17.3.10.1.21]

1. **SHALL** conform to *Derived CDA Section*
2. **SHALL** contain exactly one [1..1] **code/@code**="67802?9" *EMS Procedures Performed* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
3. **SHALL** contain exactly one [1..1] **text**
4. **SHALL** contain exactly one [1..1] **title** = "EMS Procedures Performed"
5. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **SHALL** contain zero or more [0..*] **procedure**
 - a. Such procedures **SHALL** contain exactly one [1..1] **code**

NEMESIS Trace: EProcedures.03

If EArrest.10 = true, include here as ICD?10 PCS "6A4"

For EArrest.03, it is permissible to use NEMESIS value set Cardiopulmonary Resuscitation Type (2.16.840.1.113883.17.3.5.57)

3003001 Attempted Defibrillation = 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 these values if necessary

3003003 *Attempted Ventilation: use more detailed Cardiopulmonary Resuscitation Type (2.16.840.1.113883.17.3.5.57); reader may infer from these values if necessary*
 3003007 *Not Attempted-Considered Futile = Assistance 5A0; SuccessfulObservation = False; ReasonNotAttempted required*
 3003009 *Not Attempted-DNR Orders = Assistance 5A0; SuccessfulObservation = False; ReasonNotAttempted required*
 3003011 *Not Attempted-Signs of Circulation = Assistance 5A0; SuccessfulObservation = False; ReasonNotAttempted required*

- b. Such procedures **SHALL** contain exactly one [1..1] **effectiveTime**

NEMESIS Trace: EProcedures.01 goes in effectiveTime.low
If an abandoned time is recorded, EArrest.15 goes in effectiveTime.high

- c. Such procedures **MAY** contain zero or one [0..1] **entryRelationship**

- a. This entryRelationship **SHALL** contain exactly one [1..1] **observation**

- a. This observation **SHALL** contain exactly one [1..1] **code/@code="ASSERTION"** *Assertion* (CodeSystem: 2.16.840.1.113883.5.4 HL7ActCode)
 b. This observation **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *ResuscitationDiscontinueReason* 2.16.840.1.113883.17.3.5.62 **STATIC**

- d. Such procedures **MAY** contain zero or one [0..1] **statusCode/@code="Aborted"** *Aborted* (CodeSystem: 2.16.840.1.113883.5.14 ActStatus)

NEMESIS Trace: EArrest.15

- e. Such procedures **MAY** contain zero or one [0..1] **approachSiteCode**, where the @code **SHALL** be selected from ValueSet *IVSite* 2.16.840.1.113883.17.3.5.56 **STATIC**

NEMESIS Trace: EProcedures.13

Required conditionally if procedure code is intravenous catheterization (E303)

- f. Such procedures **SHALL** contain exactly one [1..1] **entryRelationship**

- a. This entryRelationship **SHALL** contain zero or one [0..1] **observation**

- a. This observation **SHALL** contain exactly one [1..1] **code/@code="67542?1"** *Procedure performed prior to EMS arrival* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 b. This observation **SHALL** contain exactly one [1..1] **value** with data type BL

- g. Such procedures **SHALL** contain exactly one [1..1] **entryRelationship**

- a. This entryRelationship **SHALL** contain exactly one [1..1] **observation**

NEMESIS Trace: EProcedures.05

- a. This observation **SHALL** contain exactly one [1..1] **code/@code="67543?9"** *Number of procedure attempts* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 b. This observation **SHALL** contain exactly one [1..1] **value** with data type INT

NEMESIS Trace: EProcedures.05

- h. Such procedures **SHALL** contain exactly one [1..1] **entryRelationship**

- a. This entryRelationship **SHALL** contain exactly one [1..1] **observation**

- a. This observation **SHALL** contain exactly one [1..1] **code/@code="67544?7"** *Procedure successful indicator* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 b. This observation **SHALL** contain exactly one [1..1] **value** with data type BL

- i. Such procedures **SHALL** contain exactly one [1..1] **entryRelationship**

- a. This entryRelationship **SHALL** contain exactly one [1..1] **observation**

- a. This observation **SHALL** contain exactly one [1..1] **code/@code="67545?4"** *Procedure complication* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)

- b. This observation **SHALL** contain at least one [1..*] **value** with data type CD, where the @code **SHALL** be selected from ValueSet [ProcedureComplicationType](#) 2.16.840.1.113883.17.3.5.58 **STATIC**
 - j. Such procedures **SHALL** contain exactly one [1..1] **entryRelationship**
 - a. This entryRelationship **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="67546?2" *Procedure patient response* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain zero or more [0..*] **value** with data type CD, where the @code **SHALL** be selected from ValueSet [PatientConditionChange](#) 2.16.840.1.113883.17.3.5.59 **STATIC**
 - k. Such procedures **SHALL** contain exactly one [1..1] **performer**
 - a. This performer **SHALL** contain exactly one [1..1] **assignedEntity**
 - a. This assignedEntity **SHALL** contain exactly one [1..1] **code**, where the @code **SHALL** be selected from ValueSet [ProviderRole](#) 2.16.840.1.113883.17.3.5.46 **STATIC**

NEMESIS Trace: EProcedures.10
 - b. This assignedEntity **SHALL** contain exactly one [1..1] **id**

NEMESIS Trace: EProcedures.09, ID equal to the EMS professional's agency ID number
 - l. Such procedures **MAY** contain zero or one [0..1] **entryRelationship**

NEMESIS Trace: EAirway.04; required if procedure code is airway placement, i.e., 0CHY7BZ
 - a. This entryRelationship Contains exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="TBD" (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **methodCode**, where the @code **SHALL** be selected from ValueSet [AirwayDeviceConfirmationMethod](#) 2.16.840.1.113883.17.3.5.60 **STATIC**
 - c. This observation **SHALL** contain exactly one [1..1] **value** with data type BL
 - d. This observation **SHALL** contain exactly one [1..1] **effectiveTime**

NEMESIS Trace: EAirway.02. If the confirmation is negated, this SHALL be "NA."
 - e. This observation **SHALL** contain exactly one [1..1] **participant**
 - a. This participant **SHALL** contain exactly one [1..1] **participantRole**
 - a. This participantRole **SHALL** contain exactly one [1..1] **playingDevice**
 - a. This playingDevice **SHALL** contain zero or one [0..1] **code**, where the @code **SHALL** be selected from ValueSet [AirwayDeviceType](#) 2.16.840.1.113883.17.3.5.61 **STATIC**

NEMESIS Trace: EAirway.04; required if procedure code is airway placement, i.e., 0CHY7BZ
 - m. Such procedures **MAY** contain zero or one [0..1] **participant**
 - a. This participant **SHALL** contain exactly one [1..1] **participantRole**
 - a. This participantRole **SHALL** contain exactly one [1..1] **playingDevice**
 - a. This playingDevice **SHALL** contain zero or one [0..1] **code**, where the @code **SHALL** be selected from ValueSet [AirwayDeviceType](#) 2.16.840.1.113883.17.3.5.61 **STATIC**

EMS Procedures Performed Section example

```
<?xml version="1.0" encoding="UTF-8"?>
```

```

<section xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd">
  <templateId root="2.16.840.1.113883.17.3.10.1.21"/>
  <id root="568538626" extension="MDHT"/>
  <code code="67802?9" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS Procedures Performed"/>
  <title>EMS Procedures Performed</title>
  <text/>
  <entry>
    <procedure>
      <templateId root="null"/>
      <code code="251986590"/>
      <statusCode code="Aborted"/>
      <effectiveTime>
        <low value="2012"/>
        <high value="2012"/>
      </effectiveTime>
      <approachSiteCode codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
      <performer/>
      <participant/>
      <entryRelationship/>
      <entryRelationship/>
      <entryRelationship/>
      <entryRelationship/>
      <entryRelationship/>
      <entryRelationship/>
      <entryRelationship/>
    </procedure>
  </entry>
</section>

```

EMS Protocol Section

[Section: templateId 2.16.840.1.113883.17.3.10.1.7]

1. **SHALL** conform to *Derived CDA Section*
2. **SHALL** contain zero or one [0..1] **code/@code**="67537?1" *EMS Protocol* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
3. Contains zero or one [0..1] **text**
4. Contains zero or one [0..1] **title**
5. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="67537?1" *EMS protocol* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *Protocol* 2.16.840.1.113883.17.3.5.73 **STATIC**
6. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="67538?9" *EMS Protocol age category* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)

- b. This observation **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet [ProtocolAgeCategory](#) 2.16.840.1.113883.17.3.5.86 **STATIC**

7. SHALL contain exactly one [1..1] **entry**

- a. This entry **SHALL** conform to [Derived Entry](#) template (templateId: 2.16.840.1.113883.17.3.10.1.24)
- b. This entry **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="67553?8" *EMS candidate patient registry* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet [RegistryType](#) 2.16.840.1.113883.17.3.5.74 **STATIC**

EMS Protocol Section example

```
<?xml version="1.0" encoding="UTF-8"?>
<section xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd">
  <templateId root="2.16.840.1.113883.17.3.10.1.7"/>
  <id root="18783462" extension="MDHT"/>
  <code code="67537?1" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS Protocol"/>
  <title>TEXT FOR TITLE</title>
  <entry>
    <observation>
      <code code="67537?1" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS protocol"/>
      <value xsi:type="CD" code="1557516679"/>
    </observation>
  </entry>
  <entry>
    <observation>
      <code code="67538?9" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS Protocol age category"/>
      <value xsi:type="CD" code="499952267"/>
    </observation>
  </entry>
  <entry>
    <observation>
      <code code="67553?8" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS candidate patient registry"/>
      <value xsi:type="CD" code="1789614770"/>
    </observation>
  </entry>
</section>
```

EMS Response

[Section: templateId 2.16.840.1.113883.17.3.10.1.3]

1. **SHALL** conform to [Derived CDA Section](#)
2. **SHALL** contain exactly one [1..1] **code/@code**="67664?3" *EMS Response* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
3. **SHALL** contain exactly one [1..1] **text**
4. **SHALL** contain exactly one [1..1] **title** = "EMS Response"
5. **SHALL** contain exactly one [1..1] **entry**

- a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **SHALL** contain exactly one [1..1] **organizer**
 - a. This organizer **SHALL** contain exactly one [1..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code**/@code="67480?4" *Dispatch delay* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *DispatchDelayType* 2.16.840.1.113883.17.3.5.50 **STATIC**
 - b. This organizer **SHALL** contain exactly one [1..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code**/@code="67557?9" *Response delay* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *ResponseDelayType* 2.16.840.1.113883.17.3.5.51 **STATIC**
 - c. This organizer **SHALL** contain exactly one [1..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code**/@code="67558?7" *Scene delay* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *SceneDelayType* 2.16.840.1.113883.17.3.5.52 **STATIC**
 - d. This organizer **SHALL** contain exactly one [1..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code**/@code="67559?5" *Transport delay* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *TransportDelayType* 2.16.840.1.113883.17.3.5.53 **STATIC**
 - e. This organizer **SHALL** contain exactly one [1..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code**/@code="67560?3" *Turnaround delay* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *TurnAroundDelayType* 2.16.840.1.113883.17.3.5.54 **STATIC**
6. **SHALL** contain exactly one [1..1] **entry**
- a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **SHALL** contain zero or one [0..1] **organizer**
 - a. This organizer **MAY** contain zero or one [0..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code**/@code="69466?1" *Dispatch Location Name* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)

- b. This observation **SHALL** contain exactly one [1..1] **value** with data type ST
 - b. This organizer **MAY** contain zero or one [0..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="52002?3" *Dispatch Location Latitude* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type PQ
UCUM units SHOULD be "deg". This may require conversion from a parsed "degree + minutes" representation to a decimal representation.
 - c. This organizer **MAY** contain zero or one [0..1] **component**
 - a.
7. **SHALL** contain exactly one [1..1] **entry**
- a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **SHALL** contain exactly one [1..1] **organizer**
 - a. This organizer **MAY** contain zero or one [0..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="67484?6" *EMS Response odometer beginning reading* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type PQ
UCUM units SHOULD be "[mi_i]"
 - b. This organizer **MAY** contain zero or one [0..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="67485?3" *EMS Response odometer on-scene reading* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type PQ
UCUM units SHOULD be "[mi_i]"
 - c. This organizer **MAY** contain zero or one [0..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="67486?1" *EMS Response odometer destination reading* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type PQ
UCUM units SHOULD be "[mi_i]"
8. **SHALL** contain exactly one [1..1] **entry**
- a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="67482?0" *Response mode to scene* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *TransportationMode* 2.16.840.1.113883.17.3.5.66 **STATIC**

EMS Response example

```
<?xml version="1.0" encoding="UTF-8"?>
```

```

<section xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd">
  <templateId root="2.16.840.1.113883.17.3.10.1.3"/>
  <id root="1314842655" extension="MDHT"/>
  <code code="67664?3" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS Response"/>
  <title>EMS Response</title>
  <text/>
  <entry>
    <organizer>
      <statusCode code="completed"/>
      <component/>
      <component/>
      <component/>
      <component/>
      <component/>
    </organizer>
  </entry>
  <entry>
    <organizer>
      <statusCode code="completed"/>
      <component>
        <templateId root="null"/>
      </component>
      <component>
        <templateId root="null"/>
      </component>
      <component>
        <templateId root="null"/>
      </component>
    </organizer>
  </entry>
  <entry>
    <organizer>
      <statusCode code="completed"/>
      <component/>
      <component/>
      <component/>
    </organizer>
  </entry>
  <entry>
    <observation>
      <code code="67482?0" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Response mode to scene"/>
      <value xsi:type="CD" code="1424102576"/>
    </observation>
  </entry>
</section>

```

EMS Scene Section

[Section: templateId 2.16.840.1.113883.17.3.10.1.8]

1. **SHALL** conform to [Derived CDA Section](#)
2. **SHALL** contain exactly one [1..1] **code**/@code="67665?0" *EMS Scene* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
3. **SHALL** contain exactly one [1..1] **text**
4. **SHALL** contain exactly one [1..1] **title** = "EMS Scene"
5. **SHALL** contain exactly one [1..1] **entry**

- a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code="67665?0"** *EMS reporter is first unit on scene* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type BL
6. **SHALL** contain exactly one [1..1] **entry**
- a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code="67481?2"** *Name of first unit on scene* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type ST
7. **SHALL** contain exactly one [1..1] **entry**
- a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code="67489?5"** *EMS Count of patients at scene* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type INT
8. **SHALL** contain exactly one [1..1] **entry**
- a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code**
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type BL

EMS Scene Section example

```
<?xml version="1.0" encoding="UTF-8"?>
<section xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd">
  <templateId root="2.16.840.1.113883.17.3.10.1.8"/>
  <id root="273251202" extension="MDHT"/>
  <code code="67665?0" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS Scene"/>
  <title>EMS Scene</title>
  <text/>
  <entry>
    <observation>
      <code code="67665?0" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS reporter is first unit on scene"/>
      <value xsi:type="BL"/>
    </observation>
  </entry>
  <entry>
    <observation>
      <code code="67481?2" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Name of first unit on scene"/>
      <value xsi:type="ST">TEXT FOR VALUE</value>
    </observation>
  </entry>
  <entry>
    <observation>
```

```

    <code code="67489?5" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS Count of patients at scene"/>
    <value xsi:type="INT" value="1"/>
  </observation>
</entry>
<entry>
  <observation>
    <code code="2098854762"/>
    <value xsi:type="BL"/>
  </observation>
</entry>
</section>

```

EMS Situation Section

[Section: templateId 2.16.840.1.113883.17.3.10.1.9]

1. **SHALL** conform to *Derived CDA Section*
2. **SHALL** contain exactly one [1..1] **code/@code="67666?8" EMS Situation** (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
3. **SHALL** contain exactly one [1..1] **text**
4. **SHALL** contain exactly one [1..1] **title**
5. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **MAY** contain zero or more [0..*] **observation**
 - a. Such observations **SHALL** contain exactly one [1..1] **code/@code="10154?3" EMS complaint** (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. Such observations **MAY** contain zero or one [0..1] **value** with data type ST
 - c. Such observations **MAY** contain zero or one [0..1] **entryRelationship**
 - a. This entryRelationship Contains exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code="67491?1" Complaint duration** (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type PQ
Units SHALL be selected from UCUM time units (i.e., s, min, h, d, wk, mo, a)
 - d. Such observations **MAY** contain zero or one [0..1] **entryRelationship**
 - a. This entryRelationship Contains at least one [1..*] **observation**
 - a. Such observations **SHALL** contain exactly one [1..1] **code**, where the @code **SHALL** be selected from (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. Such observations **SHALL** contain exactly one [1..1] **value** with data type CD
 - e. Such observations **SHOULD** contain exactly one [1..1] **targetSiteCode**, where the @code **SHALL** be selected from ValueSet *AnatomicLocation* 2.16.840.1.113883.17.3.5.76 **STATIC**
NEMESIS Trace: ESituation.07
Complaint site is required if complaint is type "Chief complaint"
 - f. Such observations **SHOULD** contain zero or one [0..1] **entryRelationship**
The organ system is required if the complaint is of type "Chief complaint"
 - a. This entryRelationship **SHALL** contain exactly one [1..1] **observation**

- a. This observation **SHALL** contain exactly one [1..1] **code/@code**="69468?7" *Organ system* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
- b. This observation **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *OrganSystem* 2.16.840.1.113883.17.3.5.77 **STATIC**

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

6. SHALL contain exactly one [1..1] **entry**

- a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
- b. This entry **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="TBD" (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type TS

7. SHALL contain exactly one [1..1] **entry**

- a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
- b. This entry **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="69467?9" *Possible injury* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type BL

8. SHALL contain exactly one [1..1] **entry**

- a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
- b. This entry **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="67774?0" *EMS Primary Symptom* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type CD/@code="ADD ICD 10"

9. SHALL contain exactly one [1..1] **entry**

- a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)

10. SHALL contain exactly one [1..1] **entry**

- a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
- b. This entry **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="67492?9" *Provider Primary Impression* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type CD/@code="ADD ICD10 CM"

11. SHALL contain exactly one [1..1] **entry**

- a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)

12. SHALL contain exactly one [1..1] **entry**

- a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
- b. This entry **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="67493?7" *Initial Patient Acuity* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)

- b. This observation **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *PatientStatus* 2.16.840.1.113883.17.3.5.78 **STATIC**

EMS Situation Section example

```
<?xml version="1.0" encoding="UTF-8"?>
<section xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd">
  <templateId root="2.16.840.1.113883.17.3.10.1.9"/>
  <id root="1246174561" extension="MDHT"/>
  <code code="67666?8" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS Situation"/>
  <title>TEXT FOR TITLE</title>
  <text/>
  <entry>
    <observation>
      <code code="10154?3" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS complaint"/>
      <value xsi:type="ST">TEXT FOR VALUE</value>
      <targetSiteCode codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
      <entryRelationship/>
      <entryRelationship/>
      <entryRelationship/>
    </observation>
  </entry>
  <entry>
    <observation>
      <code code="TBD" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
      <value xsi:type="TS"/>
    </observation>
  </entry>
  <entry>
    <observation>
      <code code="69467?9" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Possible injury"/>
      <value xsi:type="BL"/>
    </observation>
  </entry>
  <entry>
    <observation>
      <code code="67774?0" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS Primary Symptom"/>
      <value xsi:type="CD" code="236649960"/>
    </observation>
  </entry>
</entry>
<entry>
  <observation>
    <code code="67492?9" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Provider Primary Impression"/>
    <value xsi:type="CD" code="819372819"/>
  </observation>
</entry>
<entry>
  <observation>
    <code code="67493?7" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Initial Patient Acuity"/>
    <value xsi:type="CD" code="861541078"/>
  </observation>
</entry>
```

```
</section>
```

EMS Social History

[Section: templateId 2.16.840.1.113883.17.3.10.1.22]

1. **SHALL** conform to *Derived CDA Section*
2. **SHALL** contain exactly one [1..1] **code/@code**="67843?3" *EMS Social History* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
3. **SHOULD** contain zero or one [0..1] **title** = "EMS Social History"
4. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **SHALL** contain exactly one [1..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="69757?3" *Indications of drug or alcohol use by the patient* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation Contains zero or more [0..*] **value** with data type CD
5. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **MAY** contain zero or more [0..*] **observation**
 - a. Such observations **SHALL** contain exactly one [1..1] **code/@code**="67669?2" *Alcohol - drug use* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. Such observations **SHALL** contain zero or more [0..*] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *AlcoholDrugUseIndicator* 2.16.840.1.113883.17.3.5.18 **STATIC**

EMS Social History example

```
<?xml version="1.0" encoding="UTF-8"?>
<section xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd">
  <templateId root="2.16.840.1.113883.17.3.10.1.22"/>
  <id root="26100347" extension="MDHT"/>
  <code code="67843?3" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS Social History"/>
  <title>EMS Social History</title>
  <entry>
    <observation>
      <code code="69757?3" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Indications of drug or alcohol use by
the patient"/>
    </observation>
  </entry>
  <entry>
    <observation>
      <code code="67669?2" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Alcohol - drug use"/>
    </observation>
  </entry>
</section>
```

EMS Times Section

[Section: templateId 2.16.840.1.113883.17.3.10.1.10]

1. **SHALL** conform to *Derived CDA Section*
2. **SHALL** contain zero or one [0..1] **code/@code**="67667-6" *EMS Times* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
3. **SHALL** contain zero or one [0..1] **text**
4. **SHOULD** contain zero or one [0..1] **title**="EMS Times"
5. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **SHALL** contain zero or one [0..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="69475?2" *Unit left scene time* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type TS
6. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **SHALL** contain zero or one [0..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="69476?0" *Patient arrived at destination time* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type TS
7. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **SHALL** contain zero or one [0..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="69477?8" *Unit back in service time* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type TS
8. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **SHALL** contain zero or one [0..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="69470?3" *Dispatch notified time* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type TS
9. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
 - b. This entry **SHALL** contain zero or one [0..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code**="69474?5" *Unit at patient time* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type TS
10. **SHALL** contain exactly one [1..1] **entry**
 - a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)

- b. This entry **SHALL** contain zero or one [0..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code="69473?7"** *Unit on scene time*
(CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type TS

11. SHALL contain exactly one [1..1] **entry**

- a. This entry **SHALL** conform to *Derived Entry* template (templateId:
2.16.840.1.113883.17.3.10.1.24)
- b. This entry **SHALL** contain zero or one [0..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code="69472?9"** *Unit en route time*
(CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type TS

12. SHALL contain exactly one [1..1] **entry**

- a. This entry **SHALL** conform to *Derived Entry* template (templateId:
2.16.840.1.113883.17.3.10.1.24)
- b. This entry **SHALL** contain zero or one [0..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code="69471?1"** *Unit notified time*
(CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type TS

13. SHALL contain exactly one [1..1] **entry**

- a. This entry **SHALL** conform to *Derived Entry* template (templateId:
2.16.840.1.113883.17.3.10.1.24)
- b. This entry **SHALL** contain zero or one [0..1] **observation**
 - a. This observation **SHALL** contain exactly one [1..1] **code/@code="69469?5"** *Call time*
(CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This observation **SHALL** contain exactly one [1..1] **value** with data type TS

EMS Times Section example

```
<?xml version="1.0" encoding="UTF-8"?>
<section xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd">
  <templateId root="2.16.840.1.113883.17.3.10.1.10"/>
  <id root="1782944656" extension="MDHT"/>
  <code code="67667-6" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS Times"/>
  <title>EMS Times</title>
  <text/>
  <entry>
    <observation>
      <code code="69475?2" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Unit left scene time"/>
      <value xsi:type="TS"/>
    </observation>
  </entry>
  <entry>
    <observation>
      <code code="69476?0" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Patient arrived at destination time"/>
      <value xsi:type="TS"/>
    </observation>
  </entry>
  <entry>
    <observation>
```

```

        <code code="69477?8" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Unit back in service time"/>
        <value xsi:type="TS"/>
    </observation>
</entry>
<entry>
    <observation>
        <code code="69470?3" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Dispatch notified time"/>
        <value xsi:type="TS"/>
    </observation>
</entry>
<entry>
    <observation>
        <code code="69474?5" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Unit at patient time"/>
        <value xsi:type="TS"/>
    </observation>
</entry>
<entry>
    <observation>
        <code code="69473?7" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Unit on scene time"/>
        <value xsi:type="TS"/>
    </observation>
</entry>
<entry>
    <observation>
        <code code="69472?9" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Unit en route time"/>
        <value xsi:type="TS"/>
    </observation>
</entry>
<entry>
    <observation>
        <code code="69471?1" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Unit notified time"/>
        <value xsi:type="TS"/>
    </observation>
</entry>
<entry>
    <observation>
        <code code="69469?5" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Call time"/>
        <value xsi:type="TS"/>
    </observation>
</entry>
</section>

```

EMS Vital Signs Section

[Section: templateId 2.16.840.1.113883.17.3.10.1.23]

1. **SHALL** conform to [Derived CDA Section](#)
2. **SHALL** contain exactly one [1..1] **code/@code**="67801?1" *EMS Vital Signs* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
3. **SHOULD** contain exactly one [1..1] **title** = "EMS Vital Signs"
4. **SHALL** contain exactly one [1..1] **entry**

- a. This entry **SHALL** conform to *Derived Entry* template (templateId: 2.16.840.1.113883.17.3.10.1.24)
- b. This entry **SHALL** contain at least one [1..*] **organizer**
 - a. Such organizers **SHALL** contain exactly one [1..1] **effectiveTime**
NEMESIS Trace: EVitals.01
 - b. Such organizers **SHALL** contain exactly one [1..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **code/@code="67518?1"** *Obtained prior to units EMS care* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This component Contains zero or more [0..*] **value** with data type BL
 - c. Such organizers **SHALL** contain exactly one [1..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **code/@code="67519?9"** *Cardiac rhythm* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This component **SHALL** contain exactly one [1..1] **methodCode**, where the @code **SHALL** be selected from ValueSet *MethodOfECGInterpretation* 2.16.840.1.113883.17.3.5.20 **STATIC**
NEMESIS Trace: EVitals.05
 - c. This component **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet *ECGType* 2.16.840.1.113883.17.3.5.19 **STATIC**
NEMESIS Trace: EVitals.03
 - d. Such organizers **SHALL** contain exactly one [1..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **code/@code="8480?6"** *Intravascular systolic* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This component **SHALL** contain exactly one [1..1] **value** with data type PQ
UCUM units SHOULD be "mm[Hg]".
 - e. Such organizers **MAY** contain zero or one [0..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **code/@code="8462-4"** *Intravascular diastolic* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This component **SHALL** contain exactly one [1..1] **value** with data type PQ
UCUM units SHOULD be "mm[Hg]".
 - f. Such organizers **SHOULD** contain exactly one [1..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **code/@code="8867?4"** *Heart rate* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This component **SHALL** contain zero or more [0..*] **value** with data type PQ
UCUM units SHOULD be "/min".
 - g. Such organizers **SHALL** contain exactly one [1..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **code/@code="9279?1"** *Breaths* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This component **SHALL** contain exactly one [1..1] **value** with data type PQ
UCUM units SHOULD be "/min".
 - h. Such organizers **MAY** contain zero or one [0..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **code/@code="8310?5"** *Body temperature* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This component **SHALL** contain exactly one [1..1] **value** with data type PQ
UCUM units SHOULD be "Cel".

- i. Such organizers **SHALL** contain exactly one [1..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **code/@code="2710?2" Oxygen saturation** (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This component **SHALL** contain exactly one [1..1] **value**
UCUM units will typically be "%".
- j. Such organizers **SHALL** contain exactly one [1..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **code/@code="19889?5" Carbon dioxide/ Gas.total.at end expiration** (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This component **SHALL** contain exactly one [1..1] **value**
UCUM units will typically be "%".
- k. Such organizers **MAY** contain zero or one [0..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **code/@code="19911?7" Diffusion capacity.carbon monoxide** (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This component **SHALL** contain zero or more [0..*] **value** with data type PQ
UCUM units will typically be "[ppm]".
- l. Such organizers **SHALL** contain exactly one [1..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **code/@code="2339?0" Glucose** (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This component **SHALL** contain zero or more [0..*] **value** with data type PQ
UCUM units will typically be "mg/dl".
- m. Such organizers **SHALL** contain exactly one [1..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **code/@code="67775?7" Level of responsiveness** (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This component **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet [LevelOfResponsiveness](#) 2.16.840.1.113883.17.3.5.21 **STATIC**
- n. Such organizers **SHALL** contain exactly one [1..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **code/@code="56840?2" Pain severity verbal numeric scale** (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This component Contains zero or more [0..*] **value** with data type INT
An ordinal value between 0 and 10, inclusive. There are three scales, but the values are equivalent.
- o. Such organizers **SHALL** contain exactly one [1..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **code/@code="67520?7" Stroke scale overall interpretation** (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This component **SHALL** contain exactly one [1..1] **value** with data type CD, where the @code **SHALL** be selected from ValueSet **STATIC**
NEMESIS Trace: EVitals.29
 - c. This component **SHALL** contain exactly one [1..1] **methodCode**, where the @code **SHALL** be selected from ValueSet [StrokeScale](#) 2.16.840.1.113883.17.3.5.88 **STATIC**
NEMESIS Trace: EVitals.30
- p. Such organizers **SHALL** contain exactly one [1..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **code/@code="9267?6" Glasgow coma score.eye opening** (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This component **SHALL** contain exactly one [1..1] **value** with data type INT

- b. This component **SHALL** contain exactly one [1..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **code/@code**="9268?4" *Glasgow coma score.motor* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This component **SHALL** contain zero or more [0..*] **value**
- c. This component **MAY** contain zero or one [0..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **code/@code**="55285?1" *Glasgow coma score special circumstances* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This component **MAY** contain zero or more [0..*] **value** with data type CD
- d. This component **SHOULD** contain zero or one [0..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **code/@code**="9269?2" *Glasgow coma score.total* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This component **SHALL** contain exactly one [1..1] **value** with data type INT
Integer value equal to the sum of verbal, motor, and eye
- e. This component **SHALL** contain exactly one [1..1] **component**
 - a. This component **SHALL** contain exactly one [1..1] **code/@code**="9270?0" *Glasgow coma score.verbal* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
 - b. This component **SHALL** contain exactly one [1..1] **value**

EMS Vital Signs Section example

```
<?xml version="1.0" encoding="UTF-8"?>
<section xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd">
  <templateId root="2.16.840.1.113883.17.3.10.1.23"/>
  <id root="1859048026" extension="MDHT"/>
  <code code="67801?1" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EMS Vital Signs"/>
  <title>EMS Vital Signs</title>
  <entry>
    <organizer>
      <statusCode code="completed"/>
      <effectiveTime>
        <low value="2012"/>
        <high value="2012"/>
      </effectiveTime>
    </organizer>
  </entry>
</section>
```

Chapter

4

CLINICAL STATEMENT TEMPLATES

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.

Chapter

5

OTHER CLASSES

Topics:

- [Derived Entry](#)

This section of the Implementation Guide describes other classes that are not CDA Clinical Documents, Sections, or Clinical Statements.

Chapter

6

VALUE SETS

Topics:

- *AED Use Prior To EMS Arrival*
- *Abdomen Assessment Finding*
- *Abdominal Finding Location*
- *Administrative Gender*
- *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*
- *Cardinality*
- *Cardiopulmonary Resuscitation Type*
- *Chest Lung Assessment Finding*
- *Complaint*
- *Complaint Type*
- *Confidentiality*
- *Current Medication Administration Route*
- *Destination Choice Reason*
- *Destination Prearrival Activation*
- *Destination Type*
- *Disaster Type*
- *Dispatch Delay Type*
- *ECG Type*
- *EMD Performed*
- *EMS Billing Condition*

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

- *EMS Condition Code*
- *EMS Level Of Service*
- *Environmental Allergy Type*
- *Existence Of Contraindications To Thrombolytic Use*
- *Extremities Assessment Finding*
- *Extremity Finding Location*
- *Eye Assessment Finding*
- *Eye Finding Location*
- *Face Assessment Finding*
- *First Monitored Rhythm*
- *GCS eye response*
- *GCS motor response*
- *GCS verbal response*
- *Glasgow Coma Score Qualifier*
- *HL7 Administrative Gender*
- *HL7 Confidentiality*
- *HL7 Human Language*
- *Head Assessment Finding*
- *Heart Assessment Finding*
- *Human language*
- *IV Site*
- *Incident Outcome*
- *Injury Risk Factor*
- *LOINC*
- *Length Based Tape Measure*
- *Level Of Responsiveness*
- *Mechanism Of Injury*
- *Medication Administered Route*
- *Medication Authorization Type*
- *Medication Complication*
- *Medication Not Given Reason*
- *Mental Status Finding*
- *Method Of ECG Interpretation*
- *Neck Assessment Finding*
- *Neurological Assessment Finding*
- *Organ System*
- *Patient Condition Change*
- *Patient Status*
- *Patient Status Change*
- *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*
- *Race and Ethnicity*
- *Reason Procedure not Performed*
- *Registry Type*
- *Response Delay Type*
- *Resuscitation Attempt*
- *Resuscitation Not Attempted Reason*
- *Resuscitation Discontinue Reason*
- *Return Of Spontaneous Circulation*
- *Safety Equipment Type*
- *Scene Delay Type*
- *Service Level*
- *Service Type*
- *Skin Assessment*
- *Stroke Scale*
- *Stroke Scale Score*
- *Transport Delay Type*
- *Transport Method*
- *Transport Mode*
- *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 - 2.16.840.1.113883.17.3.5.13
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17066-4	LA17066-4	LOINC	
LA17067-2	LA17067-2	LOINC	
LA32-8	LA32-8	LOINC	

Abdomen Assessment Finding

Value Set	AbdomenAssessmentFinding - 2.16.840.1.113883.17.3.5.31
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17208-2	LA17208-2	LOINC	
LA17209-0	LA17209-0	LOINC	
LA17213-2	LA17213-2	LOINC	
LA17214-0	LA17214-0	LOINC	
LA17215-7	LA17215-7	LOINC	
LA17220-7	LA17220-7	LOINC	
LA17242-1	LA17242-1	LOINC	
LA17243-9	LA17243-9	LOINC	
LA17244-7	LA17244-7	LOINC	
LA17245-4	LA17245-4	LOINC	
LA17246-2	LA17246-2	LOINC	
LA17247-0	LA17247-0	LOINC	
LA17709-9	LA17709-9	LOINC	
LA18220-6	LA18220-6	LOINC	
LA18221-4	LA18221-4	LOINC	
LA18222-2	LA18222-2	LOINC	
LA18223-0	LA18223-0	LOINC	
LA18224-8	LA18224-8	LOINC	
LA18226-3	LA18226-3	LOINC	
LA18247-9	LA18247-9	LOINC	
LA18248-7	LA18248-7	LOINC	
LA6626-1	LA6626-1	LOINC	

Concept Code	Concept Name	Code System	Description
LA6630-3	LA6630-3	LOINC	
LA7410-9	LA7410-9	LOINC	
LA7452-1	LA7452-1	LOINC	
LA7460-4	LA7460-4	LOINC	

Abdominal Finding Location

Value Set	AbdominalFindingLocation - 2.16.840.1.113883.17.3.5.32
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA12698-9	LA12698-9	LOINC	
LA18721-3	LA18721-3	LOINC	
LA18722-1	LA18722-1	LOINC	
LA18723-9	LA18723-9	LOINC	
LA18724-7	LA18724-7	LOINC	
LA18725-4	LA18725-4	LOINC	

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	Administrative Gender

Advance Directive Type

Value Set	AdvanceDirectiveType - 2.16.840.1.113883.17.3.5.63
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA137-2	LA137-2	LOINC	
LA17059-9	LA17059-9	LOINC	
LA17319-7	LA17319-7	LOINC	
LA17320-5	LA17320-5	LOINC	
LA17321-3	LA17321-3	LOINC	
LA17322-1	LA17322-1	LOINC	

Airbag Status

Value Set	AirbagStatus - 2.16.840.1.113883.17.3.5.8
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17384-1	LA17384-1	LOINC	
LA17385-8	LA17385-8	LOINC	
LA17386-6	LA17386-6	LOINC	
LA17387-4	LA17387-4	LOINC	
LA17388-2	LA17388-2	LOINC	
LA46-8	LA46-8	LOINC	

Airway Device Confirmation Method

Value Set	AirwayDeviceConfirmationMethod - 2.16.840.1.113883.17.3.5.60
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA18672-8	LA18672-8	LOINC	
LA18673-6	LA18673-6	LOINC	
LA18674-4	LA18674-4	LOINC	
LA18675-1	LA18675-1	LOINC	
LA18676-9	LA18676-9	LOINC	
LA18677-7	LA18677-7	LOINC	
LA18678-5	LA18678-5	LOINC	
LA18679-3	LA18679-3	LOINC	
LA18680-1	LA18680-1	LOINC	
LA18681-9	LA18681-9	LOINC	

Airway Device Type

Value Set	AirwayDeviceType - 2.16.840.1.113883.17.3.5.61
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA18004-4	LA18004-4	LOINC	
LA18657-9	LA18657-9	LOINC	
LA18658-7	LA18658-7	LOINC	

Concept Code	Concept Name	Code System	Description
LA18659-5	LA18659-5	LOINC	
LA18660-3	LA18660-3	LOINC	
LA18661-1	LA18661-1	LOINC	
LA18662-9	LA18662-9	LOINC	
LA18663-7	LA18663-7	LOINC	

Alcohol Drug Use Indicator

Value Set	AlcoholDrugUseIndicator - 2.16.840.1.113883.17.3.5.18
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17323-9	LA17323-9	LOINC	
LA17324-7	LA17324-7	LOINC	
LA17325-4	LA17325-4	LOINC	
LA17326-2	LA17326-2	LOINC	
LA17327-0	LA17327-0	LOINC	
LA17328-8	LA17328-8	LOINC	

Anatomic Location

Value Set	AnatomicLocation - 2.16.840.1.113883.17.3.5.76
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA12703-7	LA12703-7	LOINC	
LA12705-2	LA12705-2	LOINC	
LA12706-0	LA12706-0	LOINC	
LA18111-7	LA18111-7	LOINC	
LA18112-5	LA18112-5	LOINC	
LA18113-3	LA18113-3	LOINC	
LA18114-1	LA18114-1	LOINC	
LA18115-8	LA18115-8	LOINC	
LA18116-6	LA18116-6	LOINC	

Back Spine Assessment Finding

Value Set	BackSpineAssessmentFinding - 2.16.840.1.113883.17.3.5.34
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Code System	LOINC - 2.16.840.1.113883.6.1
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Concept Code	Concept Name	Code System	Description
LA17208-2	LA17208-2	LOINC	
LA17209-0	LA17209-0	LOINC	
LA17214-0	LA17214-0	LOINC	
LA17215-7	LA17215-7	LOINC	
LA17220-7	LA17220-7	LOINC	
LA17244-7	LA17244-7	LOINC	
LA17245-4	LA17245-4	LOINC	
LA17256-1	LA17256-1	LOINC	
LA17257-9	LA17257-9	LOINC	
LA17258-7	LA17258-7	LOINC	
LA17259-5	LA17259-5	LOINC	
LA18220-6	LA18220-6	LOINC	
LA18221-4	LA18221-4	LOINC	
LA18222-2	LA18222-2	LOINC	
LA18223-0	LA18223-0	LOINC	
LA18224-8	LA18224-8	LOINC	
LA18225-5	LA18225-5	LOINC	
LA18226-3	LA18226-3	LOINC	
LA6626-1	LA6626-1	LOINC	
LA6630-3	LA6630-3	LOINC	
LA7410-9	LA7410-9	LOINC	
LA7452-1	LA7452-1	LOINC	
LA7460-4	LA7460-4	LOINC	

Back Spine Finding Location

Value Set	BackSpineFindingLocation - 2.16.840.1.113883.17.3.5.35
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA18726-2	LA18726-2	LOINC	
LA18727-0	LA18727-0	LOINC	
LA18728-8	LA18728-8	LOINC	
LA18729-6	LA18729-6	LOINC	
LA18730-4	LA18730-4	LOINC	

Concept Code	Concept Name	Code System	Description
LA18731-2	LA18731-2	LOINC	
LA18732-0	LA18732-0	LOINC	
LA18733-8	LA18733-8	LOINC	
LA18734-6	LA18734-6	LOINC	
LA18735-3	LA18735-3	LOINC	
LA18736-1	LA18736-1	LOINC	
LA18737-9	LA18737-9	LOINC	
LA18738-7	LA18738-7	LOINC	

Barrier To Care

Value Set	BarrierToCare - 2.16.840.1.113883.17.3.5.85
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17306-4	LA17306-4	LOINC	
LA17307-2	LA17307-2	LOINC	
LA17308-0	LA17308-0	LOINC	
LA17309-8	LA17309-8	LOINC	
LA17310-6	LA17310-6	LOINC	
LA17311-4	LA17311-4	LOINC	
LA17312-2	LA17312-2	LOINC	
LA17313-0	LA17313-0	LOINC	
LA17314-8	LA17314-8	LOINC	
LA17315-5	LA17315-5	LOINC	
LA17316-3	LA17316-3	LOINC	
LA17317-1	LA17317-1	LOINC	
LA17318-9	LA17318-9	LOINC	
LA17711-5	LA17711-5	LOINC	
LA6301-1	LA6301-1	LOINC	

Cardiac Arrest Cause

Value Set	CardiacArrestCause - 2.16.840.1.113883.17.3.5.10
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17056-5	LA17056-5	LOINC	
LA17058-1	LA17058-1	LOINC	
LA17059-9	LA17059-9	LOINC	
LA17977-2	LA17977-2	LOINC	
LA17978-0	LA17978-0	LOINC	
LA17979-8	LA17979-8	LOINC	
LA17980-6	LA17980-6	LOINC	
LA9539-3	LA9539-3	LOINC	

Cardiac Arrest Timing

Value Set	CardiacArrestTiming - 2.16.840.1.113883.17.3.5.91
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17054-0	LA17054-0	LOINC	
LA17055-7	LA17055-7	LOINC	
LA32-8	LA32-8	LOINC	

Cardiac Arrest Witness Role

Value Set	CardiacArrestWitnessRole - 2.16.840.1.113883.17.3.5.11
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA18020-0	LA18020-0	LOINC	
LA18021-8	LA18021-8	LOINC	
LA18022-6	LA18022-6	LOINC	
LA18023-4	LA18023-4	LOINC	

Cardiac Rhythm Reading

Value Set	CardiacRhythmReading - 2.16.840.1.113883.17.3.5.16
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA12904-1	LA12904-1	LOINC	
LA12904-1	LA12904-1	LOINC	

Concept Code	Concept Name	Code System	Description
LA17059-9	LA17059-9	LOINC	
LA17059-9	LA17059-9	LOINC	
LA17068-0	LA17068-0	LOINC	
LA17068-0	LA17068-0	LOINC	
LA17070-6	LA17070-6	LOINC	
LA17070-6	LA17070-6	LOINC	
LA17071-4	LA17071-4	LOINC	
LA17071-4	LA17071-4	LOINC	
LA17072-2	LA17072-2	LOINC	
LA17072-2	LA17072-2	LOINC	
LA17073-0	LA17073-0	LOINC	
LA17073-0	LA17073-0	LOINC	
LA17074-8	LA17074-8	LOINC	
LA17074-8	LA17074-8	LOINC	
LA17083-9	LA17083-9	LOINC	
LA17083-9	LA17083-9	LOINC	
LA17084-7	LA17084-7	LOINC	
LA17084-7	LA17084-7	LOINC	
LA17085-4	LA17085-4	LOINC	
LA17085-4	LA17085-4	LOINC	
LA17086-2	LA17086-2	LOINC	
LA17086-2	LA17086-2	LOINC	
LA17087-0	LA17087-0	LOINC	
LA17087-0	LA17087-0	LOINC	
LA17088-8	LA17088-8	LOINC	
LA17088-8	LA17088-8	LOINC	
LA17089-6	LA17089-6	LOINC	
LA17089-6	LA17089-6	LOINC	
LA17090-4	LA17090-4	LOINC	
LA17090-4	LA17090-4	LOINC	
LA17091-2	LA17091-2	LOINC	
LA17091-2	LA17091-2	LOINC	
LA17093-8	LA17093-8	LOINC	
LA17093-8	LA17093-8	LOINC	
LA17094-6	LA17094-6	LOINC	
LA17094-6	LA17094-6	LOINC	

Concept Code	Concept Name	Code System	Description
LA17095-3	LA17095-3	LOINC	
LA17095-3	LA17095-3	LOINC	
LA17096-1	LA17096-1	LOINC	
LA17096-1	LA17096-1	LOINC	
LA17097-9	LA17097-9	LOINC	
LA17097-9	LA17097-9	LOINC	
LA17098-7	LA17098-7	LOINC	
LA17098-7	LA17098-7	LOINC	
LA17099-5	LA17099-5	LOINC	
LA17099-5	LA17099-5	LOINC	
LA17100-1	LA17100-1	LOINC	
LA17100-1	LA17100-1	LOINC	
LA17101-9	LA17101-9	LOINC	
LA17101-9	LA17101-9	LOINC	
LA17703-2	LA17703-2	LOINC	
LA17703-2	LA17703-2	LOINC	
LA17704-0	LA17704-0	LOINC	
LA17704-0	LA17704-0	LOINC	
LA17705-7	LA17705-7	LOINC	
LA17705-7	LA17705-7	LOINC	
LA17706-5	LA17706-5	LOINC	
LA17706-5	LA17706-5	LOINC	
LA17708-1	LA17708-1	LOINC	
LA17708-1	LA17708-1	LOINC	
LA17718-0	LA17718-0	LOINC	
LA17718-0	LA17718-0	LOINC	
LA18205-7	LA18205-7	LOINC	
LA18205-7	LA18205-7	LOINC	
LA18206-5	LA18206-5	LOINC	
LA18206-5	LA18206-5	LOINC	
LA18207-3	LA18207-3	LOINC	
LA18207-3	LA18207-3	LOINC	
LA18208-1	LA18208-1	LOINC	
LA18208-1	LA18208-1	LOINC	

Cardinality

Value Set	Cardinality - 2.16.840.1.113883.17.3.5.75
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA137-2	LA137-2	LOINC	
LA15382-7	LA15382-7	LOINC	
LA17717-2	LA17717-2	LOINC	

Cardiopulmonary Resuscitation Type

Value Set	CardiopulmonaryResuscitationType - 2.16.840.1.113883.17.3.5.57
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17749-5	LA17749-5	LOINC	
LA17750-3	LA17750-3	LOINC	
LA17751-1	LA17751-1	LOINC	
LA17752-9	LA17752-9	LOINC	
LA17753-7	LA17753-7	LOINC	
LA17754-5	LA17754-5	LOINC	
LA17755-2	LA17755-2	LOINC	
LA17756-0	LA17756-0	LOINC	
LA17757-8	LA17757-8	LOINC	
LA17758-6	LA17758-6	LOINC	

Chest Lung Assessment Finding

Value Set	ChestLungAssessmentFinding - 2.16.840.1.113883.17.3.5.29
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17208-2	LA17208-2	LOINC	
LA17209-0	LA17209-0	LOINC	
LA17214-0	LA17214-0	LOINC	
LA17215-7	LA17215-7	LOINC	
LA17220-7	LA17220-7	LOINC	
LA17222-3	LA17222-3	LOINC	

Concept Code	Concept Name	Code System	Description
LA17223-1	LA17223-1	LOINC	
LA17224-9	LA17224-9	LOINC	
LA17225-6	LA17225-6	LOINC	
LA17226-4	LA17226-4	LOINC	
LA17227-2	LA17227-2	LOINC	
LA17228-0	LA17228-0	LOINC	
LA17229-8	LA17229-8	LOINC	
LA17230-6	LA17230-6	LOINC	
LA17231-4	LA17231-4	LOINC	
LA17232-2	LA17232-2	LOINC	
LA17233-0	LA17233-0	LOINC	
LA17234-8	LA17234-8	LOINC	
LA17236-3	LA17236-3	LOINC	
LA17237-1	LA17237-1	LOINC	
LA17238-9	LA17238-9	LOINC	
LA17244-7	LA17244-7	LOINC	
LA17245-4	LA17245-4	LOINC	
LA18220-6	LA18220-6	LOINC	
LA18221-4	LA18221-4	LOINC	
LA18222-2	LA18222-2	LOINC	
LA18223-0	LA18223-0	LOINC	
LA18224-8	LA18224-8	LOINC	
LA18225-5	LA18225-5	LOINC	
LA18226-3	LA18226-3	LOINC	
LA18229-7	LA18229-7	LOINC	
LA18230-5	LA18230-5	LOINC	
LA18231-3	LA18231-3	LOINC	
LA18232-1	LA18232-1	LOINC	
LA18233-9	LA18233-9	LOINC	
LA18234-7	LA18234-7	LOINC	
LA18235-4	LA18235-4	LOINC	
LA18236-2	LA18236-2	LOINC	
LA18237-0	LA18237-0	LOINC	
LA18238-8	LA18238-8	LOINC	
LA18239-6	LA18239-6	LOINC	
LA18240-4	LA18240-4	LOINC	

Concept Code	Concept Name	Code System	Description
LA18402-0	LA18402-0	LOINC	
LA6626-1	LA6626-1	LOINC	
LA6630-3	LA6630-3	LOINC	
LA7410-9	LA7410-9	LOINC	
LA7452-1	LA7452-1	LOINC	
LA7460-4	LA7460-4	LOINC	

Complaint

Value Set	Complaint - 2.16.840.1.113883.17.3.5.49
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA15468-4	LA15468-4	LOINC	
LA15903-0	LA15903-0	LOINC	
LA17117-5	LA17117-5	LOINC	
LA17118-3	LA17118-3	LOINC	
LA17119-1	LA17119-1	LOINC	
LA17120-9	LA17120-9	LOINC	
LA17121-7	LA17121-7	LOINC	
LA17122-5	LA17122-5	LOINC	
LA17123-3	LA17123-3	LOINC	
LA17124-1	LA17124-1	LOINC	
LA17125-8	LA17125-8	LOINC	
LA17126-6	LA17126-6	LOINC	
LA17127-4	LA17127-4	LOINC	
LA17128-2	LA17128-2	LOINC	
LA17129-0	LA17129-0	LOINC	
LA17131-6	LA17131-6	LOINC	
LA17132-4	LA17132-4	LOINC	
LA17133-2	LA17133-2	LOINC	
LA17134-0	LA17134-0	LOINC	
LA17135-7	LA17135-7	LOINC	
LA17136-5	LA17136-5	LOINC	
LA17137-3	LA17137-3	LOINC	
LA17138-1	LA17138-1	LOINC	
LA17140-7	LA17140-7	LOINC	

Concept Code	Concept Name	Code System	Description
LA17141-5	LA17141-5	LOINC	
LA17142-3	LA17142-3	LOINC	
LA17143-1	LA17143-1	LOINC	
LA17144-9	LA17144-9	LOINC	
LA17145-6	LA17145-6	LOINC	
LA17146-4	LA17146-4	LOINC	
LA17147-2	LA17147-2	LOINC	
LA17148-0	LA17148-0	LOINC	
LA17149-8	LA17149-8	LOINC	
LA17150-6	LA17150-6	LOINC	
LA18093-7	LA18093-7	LOINC	
LA18209-9	LA18209-9	LOINC	
LA18210-7	LA18210-7	LOINC	
LA18211-5	LA18211-5	LOINC	
LA9553-4	LA9553-4	LOINC	
LA9555-9	LA9555-9	LOINC	

Complaint Type

Value Set	Complaint Type - 2.16.840.1.113883.17.3.5.94
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Complaint Type

Concept Code	Concept Name	Code System	Description
LA17059-9	LA17059-9	LOINC	
LA18923-5	LA18923-5	LOINC	
LA18924-3	LA18924-3	LOINC	

Confidentiality

Value Set	Confidentiality - 2.16.840.1.113883.1.11.10228
Code System	HL7 Confidentiality - 2.16.840.1.113883.5.25
Definition	Confidentiality

Current Medication Administration Route

Value Set	CurrentMedicationAdministrationRoute - 2.16.840.1.113883.17.3.5.17
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Code System	LOINC - 2.16.840.1.113883.6.1
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Destination Choice Reason

Value Set	DestinationChoiceReason - 2.16.840.1.113883.17.3.5.68
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17059-9	LA17059-9	LOINC	
LA17182-9	LA17182-9	LOINC	
LA17184-5	LA17184-5	LOINC	
LA17185-2	LA17185-2	LOINC	
LA17186-0	LA17186-0	LOINC	
LA17187-8	LA17187-8	LOINC	
LA17188-6	LA17188-6	LOINC	
LA17189-4	LA17189-4	LOINC	
LA17190-2	LA17190-2	LOINC	
LA17191-0	LA17191-0	LOINC	
LA18301-4	LA18301-4	LOINC	

Destination Prearrival Activation

Value Set	DestinationPrearrivalActivation - 2.16.840.1.113883.17.3.5.87
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA18117-4	LA18117-4	LOINC	
LA18118-2	LA18118-2	LOINC	
LA18119-0	LA18119-0	LOINC	
LA18120-8	LA18120-8	LOINC	
LA18121-6	LA18121-6	LOINC	
LA18122-4	LA18122-4	LOINC	
LA18123-2	LA18123-2	LOINC	
LA32-8	LA32-8	LOINC	

Destination Type

Value Set	DestinationType - 2.16.840.1.113883.17.3.5.69
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA11504-0	LA11504-0	LOINC	
LA14084-0	LA14084-0	LOINC	
LA18686-8	LA18686-8	LOINC	
LA18687-6	LA18687-6	LOINC	
LA18688-4	LA18688-4	LOINC	
LA18689-2	LA18689-2	LOINC	
LA18690-0	LA18690-0	LOINC	
LA18691-8	LA18691-8	LOINC	
LA18692-6	LA18692-6	LOINC	
LA18693-4	LA18693-4	LOINC	

Disaster Type

Value Set	DisasterType - 2.16.840.1.113883.17.3.5.9
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17594-5	LA17594-5	LOINC	
LA18089-5	LA18089-5	LOINC	
LA18090-3	LA18090-3	LOINC	
LA18091-1	LA18091-1	LOINC	
LA18092-9	LA18092-9	LOINC	
LA18093-7	LA18093-7	LOINC	
LA18094-5	LA18094-5	LOINC	
LA18095-2	LA18095-2	LOINC	
LA18096-0	LA18096-0	LOINC	
LA18097-8	LA18097-8	LOINC	
LA18098-6	LA18098-6	LOINC	
LA18099-4	LA18099-4	LOINC	
LA18100-0	LA18100-0	LOINC	
LA18101-8	LA18101-8	LOINC	

Dispatch Delay Type

Value Set	DispatchDelayType - 2.16.840.1.113883.17.3.5.50
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17059-9	LA17059-9	LOINC	
LA17183-7	LA17183-7	LOINC	
LA17579-6	LA17579-6	LOINC	
LA17580-4	LA17580-4	LOINC	
LA17581-2	LA17581-2	LOINC	
LA17582-0	LA17582-0	LOINC	
LA17584-6	LA17584-6	LOINC	
LA18081-2	LA18081-2	LOINC	
LA7540-3	LA7540-3	LOINC	

ECG Type

Value Set	ECGType - 2.16.840.1.113883.17.3.5.19
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA18664-5	LA18664-5	LOINC	
LA18665-2	LA18665-2	LOINC	
LA18666-0	LA18666-0	LOINC	
LA18667-8	LA18667-8	LOINC	
LA18668-6	LA18668-6	LOINC	
LA18669-4	LA18669-4	LOINC	
LA18670-2	LA18670-2	LOINC	
LA18671-0	LA18671-0	LOINC	

EMD Performed

Value Set	EMDPerformed - 2.16.840.1.113883.17.3.5.48
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17151-4	LA17151-4	LOINC	
LA17152-2	LA17152-2	LOINC	
LA17153-0	LA17153-0	LOINC	
LA32-8	LA32-8	LOINC	

EMS Billing Condition

Value Set	EMSBillingCondition - 2.16.840.1.113883.17.3.5.71
Code System	LOINC - 2.16.840.1.113883.6.1

EMS Condition Code

Value Set	EMSConditionCode - 2.16.840.1.113883.17.3.5.71
Code System	LOINC - 2.16.840.1.113883.6.1

EMS Level Of Service

Value Set	EMSLevelOfService - 2.16.840.1.113883.17.3.5.70
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA18102-6	LA18102-6	LOINC	
LA18103-4	LA18103-4	LOINC	
LA18104-2	LA18104-2	LOINC	
LA18105-9	LA18105-9	LOINC	
LA18106-7	LA18106-7	LOINC	
LA18107-5	LA18107-5	LOINC	
LA18108-3	LA18108-3	LOINC	
LA18109-1	LA18109-1	LOINC	
LA18110-9	LA18110-9	LOINC	

Environmental Allergy Type

Value Set	EnvironmentalAllergyType - 2.16.840.1.113883.17.3.5.83
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA137-2	LA137-2	LOINC	
LA17059-9	LA17059-9	LOINC	
LA18356-8	LA18356-8	LOINC	
LA18357-6	LA18357-6	LOINC	
LA18358-4	LA18358-4	LOINC	
LA18359-2	LA18359-2	LOINC	
LA18360-0	LA18360-0	LOINC	

Concept Code	Concept Name	Code System	Description
LA18361-8	LA18361-8	LOINC	

Existence Of Contraindications To Thrombolytic Use

Value Set	ExistenceOfContraindicationsToThrombolyticUse - 2.16.840.1.113883.17.3.5.41
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17114-2	LA17114-2	LOINC	
LA17115-9	LA17115-9	LOINC	
LA17116-7	LA17116-7	LOINC	

Extremities Assessment Finding

Value Set	ExtremitiesAssessmentFinding - 2.16.840.1.113883.17.3.5.36
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17208-2	LA17208-2	LOINC	
LA17209-0	LA17209-0	LOINC	
LA17214-0	LA17214-0	LOINC	
LA17215-7	LA17215-7	LOINC	
LA17220-7	LA17220-7	LOINC	
LA17229-8	LA17229-8	LOINC	
LA17244-7	LA17244-7	LOINC	
LA17245-4	LA17245-4	LOINC	
LA17260-3	LA17260-3	LOINC	
LA17261-1	LA17261-1	LOINC	
LA17262-9	LA17262-9	LOINC	
LA17263-7	LA17263-7	LOINC	
LA17264-5	LA17264-5	LOINC	
LA17265-2	LA17265-2	LOINC	
LA17266-0	LA17266-0	LOINC	
LA17267-8	LA17267-8	LOINC	
LA17268-6	LA17268-6	LOINC	
LA17269-4	LA17269-4	LOINC	
LA17270-2	LA17270-2	LOINC	

Concept Code	Concept Name	Code System	Description
LA17271-0	LA17271-0	LOINC	
LA17272-8	LA17272-8	LOINC	
LA17273-6	LA17273-6	LOINC	
LA17274-4	LA17274-4	LOINC	
LA17344-5	LA17344-5	LOINC	
LA17709-9	LA17709-9	LOINC	
LA18220-6	LA18220-6	LOINC	
LA18222-2	LA18222-2	LOINC	
LA18223-0	LA18223-0	LOINC	
LA18224-8	LA18224-8	LOINC	
LA18225-5	LA18225-5	LOINC	
LA18226-3	LA18226-3	LOINC	
LA18249-5	LA18249-5	LOINC	
LA6626-1	LA6626-1	LOINC	
LA6630-3	LA6630-3	LOINC	
LA7410-9	LA7410-9	LOINC	
LA7452-1	LA7452-1	LOINC	
LA7460-4	LA7460-4	LOINC	

Extremity Finding Location

Value Set	ExtremityFindingLocation - 2.16.840.1.113883.17.3.5.37
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA18739-5	LA18739-5	LOINC	
LA18740-3	LA18740-3	LOINC	
LA18741-1	LA18741-1	LOINC	
LA18742-9	LA18742-9	LOINC	
LA18743-7	LA18743-7	LOINC	
LA18744-5	LA18744-5	LOINC	
LA18745-2	LA18745-2	LOINC	
LA18746-0	LA18746-0	LOINC	
LA18747-8	LA18747-8	LOINC	
LA18748-6	LA18748-6	LOINC	
LA18749-4	LA18749-4	LOINC	
LA18750-2	LA18750-2	LOINC	

Concept Code	Concept Name	Code System	Description
LA18751-0	LA18751-0	LOINC	
LA18752-8	LA18752-8	LOINC	
LA18753-6	LA18753-6	LOINC	
LA18754-4	LA18754-4	LOINC	
LA18755-1	LA18755-1	LOINC	
LA18756-9	LA18756-9	LOINC	
LA18757-7	LA18757-7	LOINC	
LA18758-5	LA18758-5	LOINC	
LA18759-3	LA18759-3	LOINC	
LA18760-1	LA18760-1	LOINC	
LA18761-9	LA18761-9	LOINC	
LA18762-7	LA18762-7	LOINC	
LA18763-5	LA18763-5	LOINC	
LA18764-3	LA18764-3	LOINC	
LA18765-0	LA18765-0	LOINC	
LA18766-8	LA18766-8	LOINC	
LA18767-6	LA18767-6	LOINC	
LA18768-4	LA18768-4	LOINC	
LA18769-2	LA18769-2	LOINC	
LA18770-0	LA18770-0	LOINC	
LA18771-8	LA18771-8	LOINC	
LA18772-6	LA18772-6	LOINC	
LA18773-4	LA18773-4	LOINC	
LA18774-2	LA18774-2	LOINC	
LA18775-9	LA18775-9	LOINC	
LA18776-7	LA18776-7	LOINC	
LA18777-5	LA18777-5	LOINC	
LA18778-3	LA18778-3	LOINC	
LA18779-1	LA18779-1	LOINC	
LA18780-9	LA18780-9	LOINC	
LA18781-7	LA18781-7	LOINC	
LA18782-5	LA18782-5	LOINC	
LA18783-3	LA18783-3	LOINC	
LA18784-1	LA18784-1	LOINC	
LA18785-8	LA18785-8	LOINC	
LA18786-6	LA18786-6	LOINC	

Eye Assessment Finding

Value Set	EyeAssessmentFinding - 2.16.840.1.113883.17.3.5.38
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA14698-7	LA14698-7	LOINC	
LA15255-5	LA15255-5	LOINC	
LA15256-3	LA15256-3	LOINC	
LA17275-1	LA17275-1	LOINC	
LA17276-9	LA17276-9	LOINC	
LA17277-7	LA17277-7	LOINC	
LA17278-5	LA17278-5	LOINC	
LA17279-3	LA17279-3	LOINC	
LA17280-1	LA17280-1	LOINC	
LA17281-9	LA17281-9	LOINC	
LA17282-7	LA17282-7	LOINC	
LA17283-5	LA17283-5	LOINC	
LA17284-3	LA17284-3	LOINC	
LA17285-0	LA17285-0	LOINC	
LA17710-7	LA17710-7	LOINC	
LA18225-5	LA18225-5	LOINC	
LA18226-3	LA18226-3	LOINC	
LA18250-3	LA18250-3	LOINC	
LA18251-1	LA18251-1	LOINC	
LA18253-7	LA18253-7	LOINC	
LA18254-5	LA18254-5	LOINC	
LA18255-2	LA18255-2	LOINC	
LA18256-0	LA18256-0	LOINC	
LA18257-8	LA18257-8	LOINC	
LA18258-6	LA18258-6	LOINC	
LA6630-3	LA6630-3	LOINC	

Eye Finding Location

Value Set	EyeFindingLocation - 2.16.840.1.113883.17.3.5.39
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA18787-4	LA18787-4	LOINC	
LA18788-2	LA18788-2	LOINC	
LA18789-0	LA18789-0	LOINC	

Face Assessment Finding

Value Set	FaceAssessmentFinding - 2.16.840.1.113883.17.3.5.27
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17208-2	LA17208-2	LOINC	
LA17209-0	LA17209-0	LOINC	
LA17210-8	LA17210-8	LOINC	
LA17211-6	LA17211-6	LOINC	
LA17213-2	LA17213-2	LOINC	
LA17214-0	LA17214-0	LOINC	
LA17215-7	LA17215-7	LOINC	
LA17216-5	LA17216-5	LOINC	
LA17220-7	LA17220-7	LOINC	
LA17244-7	LA17244-7	LOINC	
LA17245-4	LA17245-4	LOINC	
LA18220-6	LA18220-6	LOINC	
LA18221-4	LA18221-4	LOINC	
LA18222-2	LA18222-2	LOINC	
LA18223-0	LA18223-0	LOINC	
LA18224-8	LA18224-8	LOINC	
LA18225-5	LA18225-5	LOINC	
LA18226-3	LA18226-3	LOINC	
LA6626-1	LA6626-1	LOINC	
LA6630-3	LA6630-3	LOINC	
LA7410-9	LA7410-9	LOINC	
LA7452-1	LA7452-1	LOINC	
LA7460-4	LA7460-4	LOINC	

First Monitored Rhythm

Value Set	FirstMonitoredRhythm - 2.16.840.1.113883.17.3.5.14
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Code System	LOINC - 2.16.840.1.113883.6.1
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Concept Code	Concept Name	Code System	Description
LA17068-0	LA17068-0	LOINC	
LA17070-6	LA17070-6	LOINC	
LA17071-4	LA17071-4	LOINC	
LA17072-2	LA17072-2	LOINC	
LA17073-0	LA17073-0	LOINC	
LA17074-8	LA17074-8	LOINC	
LA17394-0	LA17394-0	LOINC	

GCS eye response

Value Set	GCS eye response - 2.16.840.1.113883.17.3.5.99
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	GCS eye response

Concept Code	Concept Name	Code System	Description
LA17798-2	LA17798-2	LOINC	
LA9345-5	LA9345-5	LOINC	
LA9346-3	LA9346-3	LOINC	
LA9347-1	LA9347-1	LOINC	

GCS motor response

Value Set	GCS motor response - 2.16.840.1.113883.17.3.5.96
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	GCS motor response

Concept Code	Concept Name	Code System	Description
LA17727-1	LA17727-1	LOINC	
LA17797-4	LA17797-4	LOINC	
LA6562-8	LA6562-8	LOINC	
LA6563-6	LA6563-6	LOINC	
LA6564-4	LA6564-4	LOINC	
LA6566-9	LA6566-9	LOINC	

GCS verbal response

Value Set	GCS verbal response - 2.16.840.1.113883.17.3.5.98
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	GCS verbal response

Concept Code	Concept Name	Code System	Description
LA17793-3	LA17793-3	LOINC	
LA17794-1	LA17794-1	LOINC	
LA17795-8	LA17795-8	LOINC	
LA17796-6	LA17796-6	LOINC	
LA6557-8	LA6557-8	LOINC	

Glasgow Coma Score Qualifier

Value Set	GlasgowComaScoreQualifier - 2.16.840.1.113883.17.3.5.89
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17102-7	LA17102-7	LOINC	
LA17103-5	LA17103-5	LOINC	
LA17104-3	LA17104-3	LOINC	
LA17105-0	LA17105-0	LOINC	
LA17106-8	LA17106-8	LOINC	

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 - 2.16.840.1.113883.17.3.5.26
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17208-2	LA17208-2	LOINC	
LA17209-0	LA17209-0	LOINC	
LA17210-8	LA17210-8	LOINC	
LA17211-6	LA17211-6	LOINC	
LA17213-2	LA17213-2	LOINC	
LA17214-0	LA17214-0	LOINC	
LA17215-7	LA17215-7	LOINC	
LA17220-7	LA17220-7	LOINC	
LA17244-7	LA17244-7	LOINC	
LA17245-4	LA17245-4	LOINC	
LA18220-6	LA18220-6	LOINC	
LA18221-4	LA18221-4	LOINC	
LA18222-2	LA18222-2	LOINC	
LA18223-0	LA18223-0	LOINC	
LA18224-8	LA18224-8	LOINC	
LA18225-5	LA18225-5	LOINC	
LA18226-3	LA18226-3	LOINC	
LA6626-1	LA6626-1	LOINC	
LA6630-3	LA6630-3	LOINC	
LA7410-9	LA7410-9	LOINC	
LA7452-1	LA7452-1	LOINC	
LA7460-4	LA7460-4	LOINC	

Heart Assessment Finding

Value Set	HeartAssessmentFinding - 2.16.840.1.113883.17.3.5.30
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17239-7	LA17239-7	LOINC	
LA17240-5	LA17240-5	LOINC	
LA17241-3	LA17241-3	LOINC	

Concept Code	Concept Name	Code System	Description
LA18241-2	LA18241-2	LOINC	
LA18242-0	LA18242-0	LOINC	
LA18243-8	LA18243-8	LOINC	
LA18244-6	LA18244-6	LOINC	
LA18245-3	LA18245-3	LOINC	
LA18246-1	LA18246-1	LOINC	
LA6626-1	LA6626-1	LOINC	
LA6630-3	LA6630-3	LOINC	

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
Definition	Human language

IV Site

Value Set	IVSite - 2.16.840.1.113883.17.3.5.56
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA18112-5	LA18112-5	LOINC	
LA18113-3	LA18113-3	LOINC	
LA18757-7	LA18757-7	LOINC	
LA18758-5	LA18758-5	LOINC	
LA18790-8	LA18790-8	LOINC	
LA18791-6	LA18791-6	LOINC	
LA18792-4	LA18792-4	LOINC	
LA18793-2	LA18793-2	LOINC	
LA18794-0	LA18794-0	LOINC	
LA18795-7	LA18795-7	LOINC	
LA18796-5	LA18796-5	LOINC	
LA18797-3	LA18797-3	LOINC	
LA18798-1	LA18798-1	LOINC	
LA18799-9	LA18799-9	LOINC	
LA18800-5	LA18800-5	LOINC	
LA18801-3	LA18801-3	LOINC	

Concept Code	Concept Name	Code System	Description
LA18802-1	LA18802-1	LOINC	
LA18803-9	LA18803-9	LOINC	
LA18804-7	LA18804-7	LOINC	
LA18805-4	LA18805-4	LOINC	
LA18806-2	LA18806-2	LOINC	
LA18807-0	LA18807-0	LOINC	
LA18808-8	LA18808-8	LOINC	
LA18809-6	LA18809-6	LOINC	
LA18810-4	LA18810-4	LOINC	
LA18811-2	LA18811-2	LOINC	
LA18812-0	LA18812-0	LOINC	
LA18813-8	LA18813-8	LOINC	
LA18814-6	LA18814-6	LOINC	
LA18815-3	LA18815-3	LOINC	
LA18816-1	LA18816-1	LOINC	
LA18817-9	LA18817-9	LOINC	
LA18818-7	LA18818-7	LOINC	

Incident Outcome

Value Set	IncidentOutcome - 2.16.840.1.113883.17.3.5.64
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17154-8	LA17154-8	LOINC	
LA17155-5	LA17155-5	LOINC	
LA17156-3	LA17156-3	LOINC	
LA17157-1	LA17157-1	LOINC	
LA17158-9	LA17158-9	LOINC	
LA17159-7	LA17159-7	LOINC	
LA17160-5	LA17160-5	LOINC	
LA17161-3	LA17161-3	LOINC	
LA17162-1	LA17162-1	LOINC	
LA17163-9	LA17163-9	LOINC	
LA17164-7	LA17164-7	LOINC	
LA17165-4	LA17165-4	LOINC	
LA17166-2	LA17166-2	LOINC	

Concept Code	Concept Name	Code System	Description
LA17167-0	LA17167-0	LOINC	
LA18080-4	LA18080-4	LOINC	
LA18212-3	LA18212-3	LOINC	
LA18213-1	LA18213-1	LOINC	
LA18214-9	LA18214-9	LOINC	
LA18215-6	LA18215-6	LOINC	
LA18216-4	LA18216-4	LOINC	

Injury Risk Factor

Value Set	InjuryRiskFactor - 2.16.840.1.113883.17.3.5.4
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17348-6	LA17348-6	LOINC	
LA17349-4	LA17349-4	LOINC	
LA17350-2	LA17350-2	LOINC	
LA17352-8	LA17352-8	LOINC	
LA17353-6	LA17353-6	LOINC	
LA17357-7	LA17357-7	LOINC	
LA17360-1	LA17360-1	LOINC	
LA18124-0	LA18124-0	LOINC	

LOINC

Value Set	LOINC
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Length Based Tape Measure

Value Set	LengthBasedTapeMeasure - 2.16.840.1.113883.17.3.5.24
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA15553-3	LA15553-3	LOINC	
LA15554-1	LA15554-1	LOINC	
LA15555-8	LA15555-8	LOINC	
LA17192-8	LA17192-8	LOINC	
LA17193-6	LA17193-6	LOINC	

Concept Code	Concept Name	Code System	Description
LA17194-4	LA17194-4	LOINC	
LA17195-1	LA17195-1	LOINC	
LA17196-9	LA17196-9	LOINC	
LA4457-3	LA4457-3	LOINC	

Level Of Responsiveness

Value Set	LevelOfResponsiveness - 2.16.840.1.113883.17.3.5.21
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17107-6	LA17107-6	LOINC	
LA17108-4	LA17108-4	LOINC	
LA9340-6	LA9340-6	LOINC	
LA9343-0	LA9343-0	LOINC	

Mechanism Of Injury

Value Set	MechanismOfInjury - 2.16.840.1.113883.17.3.5.1
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17335-3	LA17335-3	LOINC	
LA17336-1	LA17336-1	LOINC	
LA46-8	LA46-8	LOINC	
LA7318-4	LA7318-4	LOINC	

Medication Administered Route

Value Set	MedicationAdministeredRoute - 2.16.840.1.113883.17.3.5.43
Code System	LOINC - 2.16.840.1.113883.6.1

Medication Authorization Type

Value Set	MedicationAuthorizationType - 2.16.840.1.113883.17.3.5.47
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17187-8	LA17187-8	LOINC	
LA18654-6	LA18654-6	LOINC	
LA18655-3	LA18655-3	LOINC	
LA18656-1	LA18656-1	LOINC	

Medication Complication

Value Set	MedicationComplication - 2.16.840.1.113883.17.3.5.45
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA137-2	LA137-2	LOINC	
LA15098-9	LA15098-9	LOINC	
LA15099-7	LA15099-7	LOINC	
LA15424-7	LA15424-7	LOINC	
LA17059-9	LA17059-9	LOINC	
LA17392-4	LA17392-4	LOINC	
LA17393-2	LA17393-2	LOINC	
LA17394-0	LA17394-0	LOINC	
LA17396-5	LA17396-5	LOINC	
LA17397-3	LA17397-3	LOINC	
LA17713-1	LA17713-1	LOINC	
LA17714-9	LA17714-9	LOINC	
LA18266-9	LA18266-9	LOINC	
LA18267-7	LA18267-7	LOINC	
LA7418-2	LA7418-2	LOINC	
LA7434-9	LA7434-9	LOINC	
LA7443-0	LA7443-0	LOINC	
LA7444-8	LA7444-8	LOINC	
LA9540-1	LA9540-1	LOINC	
LA9541-9	LA9541-9	LOINC	
LA9548-4	LA9548-4	LOINC	

Medication Not Given Reason

Value Set	MedicationNotGivenReason - 2.16.840.1.113883.17.3.5.92
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA15185-4	LA15185-4	LOINC	
LA18921-9	LA18921-9	LOINC	
LA18922-7	LA18922-7	LOINC	
LA18925-0	LA18925-0	LOINC	
LA4216-3	LA4216-3	LOINC	
LA4389-8	LA4389-8	LOINC	

Mental Status Finding

Value Set	MentalStatusFinding - 2.16.840.1.113883.17.3.5.84
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17286-8	LA17286-8	LOINC	
LA17287-6	LA17287-6	LOINC	
LA17288-4	LA17288-4	LOINC	
LA17289-2	LA17289-2	LOINC	
LA17290-0	LA17290-0	LOINC	
LA18259-4	LA18259-4	LOINC	
LA18260-2	LA18260-2	LOINC	
LA6560-2	LA6560-2	LOINC	
LA6630-3	LA6630-3	LOINC	
LA7438-0	LA7438-0	LOINC	
LA9343-0	LA9343-0	LOINC	

Method Of ECG Interpretation

Value Set	MethodOfECGInterpretation - 2.16.840.1.113883.17.3.5.20
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA18682-7	LA18682-7	LOINC	
LA18683-5	LA18683-5	LOINC	
LA18684-3	LA18684-3	LOINC	
LA18685-0	LA18685-0	LOINC	

Neck Assessment Finding

Value Set	NeckAssessmentFinding - 2.16.840.1.113883.17.3.5.28
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17208-2	LA17208-2	LOINC	
LA17209-0	LA17209-0	LOINC	
LA17210-8	LA17210-8	LOINC	
LA17214-0	LA17214-0	LOINC	
LA17215-7	LA17215-7	LOINC	
LA17217-3	LA17217-3	LOINC	
LA17219-9	LA17219-9	LOINC	
LA17220-7	LA17220-7	LOINC	
LA17244-7	LA17244-7	LOINC	
LA17245-4	LA17245-4	LOINC	
LA17612-5	LA17612-5	LOINC	
LA18220-6	LA18220-6	LOINC	
LA18221-4	LA18221-4	LOINC	
LA18222-2	LA18222-2	LOINC	
LA18223-0	LA18223-0	LOINC	
LA18224-8	LA18224-8	LOINC	
LA18226-3	LA18226-3	LOINC	
LA18227-1	LA18227-1	LOINC	
LA18228-9	LA18228-9	LOINC	
LA6626-1	LA6626-1	LOINC	
LA6630-3	LA6630-3	LOINC	
LA7410-9	LA7410-9	LOINC	
LA7452-1	LA7452-1	LOINC	
LA7460-4	LA7460-4	LOINC	

Neurological Assessment Finding

Value Set	NeurologicalAssessmentFinding - 2.16.840.1.113883.17.3.5.40
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA15899-0	LA15899-0	LOINC	

Concept Code	Concept Name	Code System	Description
LA17286-8	LA17286-8	LOINC	
LA17291-8	LA17291-8	LOINC	
LA17292-6	LA17292-6	LOINC	
LA17293-4	LA17293-4	LOINC	
LA17294-2	LA17294-2	LOINC	
LA17295-9	LA17295-9	LOINC	
LA17296-7	LA17296-7	LOINC	
LA17297-5	LA17297-5	LOINC	
LA17298-3	LA17298-3	LOINC	
LA17299-1	LA17299-1	LOINC	
LA17300-7	LA17300-7	LOINC	
LA17301-5	LA17301-5	LOINC	
LA17302-3	LA17302-3	LOINC	
LA17303-1	LA17303-1	LOINC	
LA17304-9	LA17304-9	LOINC	
LA17305-6	LA17305-6	LOINC	
LA18261-0	LA18261-0	LOINC	
LA18262-8	LA18262-8	LOINC	
LA18263-6	LA18263-6	LOINC	
LA18264-4	LA18264-4	LOINC	
LA18265-1	LA18265-1	LOINC	
LA6630-3	LA6630-3	LOINC	

Organ System

Value Set	OrganSystem - 2.16.840.1.113883.17.3.5.77
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA16968-2	LA16968-2	LOINC	
LA18114-1	LA18114-1	LOINC	
LA18277-6	LA18277-6	LOINC	
LA18278-4	LA18278-4	LOINC	
LA18279-2	LA18279-2	LOINC	
LA18281-8	LA18281-8	LOINC	
LA18282-6	LA18282-6	LOINC	
LA18283-4	LA18283-4	LOINC	

Concept Code	Concept Name	Code System	Description
LA18284-2	LA18284-2	LOINC	
LA18285-9	LA18285-9	LOINC	
LA9534-4	LA9534-4	LOINC	

Patient Condition Change

Value Set	PatientConditionChange - 2.16.840.1.113883.17.3.5.59
Code System	LOINC - 2.16.840.1.113883.6.1

Patient Status

Value Set	PatientStatus - 2.16.840.1.113883.17.3.5.78
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17694-3	LA17694-3	LOINC	
LA17695-0	LA17695-0	LOINC	
LA17696-8	LA17696-8	LOINC	
LA17697-6	LA17697-6	LOINC	

Patient Status Change

Value Set	Patient Status Change - 2.16.840.1.113883.17.3.5.67
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Patient Status Change

Concept Code	Concept Name	Code System	Description
LA11011-6	LA11011-6	LOINC	
LA11011-6	LA11011-6	LOINC	
LA17181-1	LA17181-1	LOINC	
LA17181-1	LA17181-1	LOINC	
LA65-8	LA65-8	LOINC	
LA65-8	LA65-8	LOINC	

Pelvis Genitourinary Assessment

Value Set	PelvisGenitourinaryAssessment - 2.16.840.1.113883.17.3.5.33
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA14123-6	LA14123-6	LOINC	
LA17208-2	LA17208-2	LOINC	
LA17209-0	LA17209-0	LOINC	
LA17213-2	LA17213-2	LOINC	
LA17214-0	LA17214-0	LOINC	
LA17215-7	LA17215-7	LOINC	
LA17220-7	LA17220-7	LOINC	
LA17244-7	LA17244-7	LOINC	
LA17245-4	LA17245-4	LOINC	
LA17248-8	LA17248-8	LOINC	
LA17249-6	LA17249-6	LOINC	
LA17250-4	LA17250-4	LOINC	
LA17251-2	LA17251-2	LOINC	
LA17252-0	LA17252-0	LOINC	
LA17253-8	LA17253-8	LOINC	
LA17254-6	LA17254-6	LOINC	
LA17255-3	LA17255-3	LOINC	
LA17709-9	LA17709-9	LOINC	
LA18220-6	LA18220-6	LOINC	
LA18221-4	LA18221-4	LOINC	
LA18222-2	LA18222-2	LOINC	
LA18223-0	LA18223-0	LOINC	
LA18224-8	LA18224-8	LOINC	
LA18225-5	LA18225-5	LOINC	
LA18226-3	LA18226-3	LOINC	
LA6626-1	LA6626-1	LOINC	
LA6630-3	LA6630-3	LOINC	
LA7410-9	LA7410-9	LOINC	
LA7452-1	LA7452-1	LOINC	
LA7460-4	LA7460-4	LOINC	

Pregnancy

Value Set	Pregnancy - 2.16.840.1.113883.17.3.5.42
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17329-6	LA17329-6	LOINC	
LA17330-4	LA17330-4	LOINC	
LA17331-2	LA17331-2	LOINC	
LA17332-0	LA17332-0	LOINC	
LA32-8	LA32-8	LOINC	

Prior Care Provider Role

Value Set	PriorCareProviderRole - 2.16.840.1.113883.17.3.5.12
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA18016-8	LA18016-8	LOINC	
LA18017-6	LA18017-6	LOINC	
LA18018-4	LA18018-4	LOINC	
LA18019-2	LA18019-2	LOINC	
LA9277-0	LA9277-0	LOINC	

Procedure Complication Type

Value Set	ProcedureComplicationType - 2.16.840.1.113883.17.3.5.58
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA137-2	LA137-2	LOINC	
LA15098-9	LA15098-9	LOINC	
LA15099-7	LA15099-7	LOINC	
LA15424-7	LA15424-7	LOINC	
LA17059-9	LA17059-9	LOINC	
LA17392-4	LA17392-4	LOINC	
LA17393-2	LA17393-2	LOINC	
LA17394-0	LA17394-0	LOINC	
LA17396-5	LA17396-5	LOINC	
LA17397-3	LA17397-3	LOINC	
LA17489-8	LA17489-8	LOINC	
LA17490-6	LA17490-6	LOINC	
LA17713-1	LA17713-1	LOINC	

Concept Code	Concept Name	Code System	Description
LA17714-9	LA17714-9	LOINC	
LA18267-7	LA18267-7	LOINC	
LA18268-5	LA18268-5	LOINC	
LA7418-2	LA7418-2	LOINC	
LA7434-9	LA7434-9	LOINC	
LA7443-0	LA7443-0	LOINC	
LA7444-8	LA7444-8	LOINC	
LA9540-1	LA9540-1	LOINC	
LA9541-9	LA9541-9	LOINC	
LA9548-4	LA9548-4	LOINC	

Protocol

Value Set	Protocol - 2.16.840.1.113883.17.3.5.73
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17398-1	LA17398-1	LOINC	
LA17491-4	LA17491-4	LOINC	
LA17492-2	LA17492-2	LOINC	
LA17494-8	LA17494-8	LOINC	
LA17495-5	LA17495-5	LOINC	
LA17496-3	LA17496-3	LOINC	
LA17497-1	LA17497-1	LOINC	
LA17498-9	LA17498-9	LOINC	
LA17499-7	LA17499-7	LOINC	
LA17500-2	LA17500-2	LOINC	
LA17501-0	LA17501-0	LOINC	
LA17502-8	LA17502-8	LOINC	
LA17503-6	LA17503-6	LOINC	
LA17504-4	LA17504-4	LOINC	
LA17505-1	LA17505-1	LOINC	
LA17506-9	LA17506-9	LOINC	
LA17507-7	LA17507-7	LOINC	
LA17508-5	LA17508-5	LOINC	
LA17509-3	LA17509-3	LOINC	
LA17510-1	LA17510-1	LOINC	

Concept Code	Concept Name	Code System	Description
LA17511-9	LA17511-9	LOINC	
LA17512-7	LA17512-7	LOINC	
LA17513-5	LA17513-5	LOINC	
LA17514-3	LA17514-3	LOINC	
LA17515-0	LA17515-0	LOINC	
LA17516-8	LA17516-8	LOINC	
LA17517-6	LA17517-6	LOINC	
LA17518-4	LA17518-4	LOINC	
LA17519-2	LA17519-2	LOINC	
LA17520-0	LA17520-0	LOINC	
LA17521-8	LA17521-8	LOINC	
LA17522-6	LA17522-6	LOINC	
LA17523-4	LA17523-4	LOINC	
LA17524-2	LA17524-2	LOINC	
LA17525-9	LA17525-9	LOINC	
LA17526-7	LA17526-7	LOINC	
LA17527-5	LA17527-5	LOINC	
LA17528-3	LA17528-3	LOINC	
LA17529-1	LA17529-1	LOINC	
LA17530-9	LA17530-9	LOINC	
LA17531-7	LA17531-7	LOINC	
LA17532-5	LA17532-5	LOINC	
LA17533-3	LA17533-3	LOINC	
LA17534-1	LA17534-1	LOINC	
LA17535-8	LA17535-8	LOINC	
LA17536-6	LA17536-6	LOINC	
LA17537-4	LA17537-4	LOINC	
LA17538-2	LA17538-2	LOINC	
LA17539-0	LA17539-0	LOINC	
LA17540-8	LA17540-8	LOINC	
LA17541-6	LA17541-6	LOINC	
LA17542-4	LA17542-4	LOINC	
LA17543-2	LA17543-2	LOINC	
LA17544-0	LA17544-0	LOINC	
LA17545-7	LA17545-7	LOINC	
LA17546-5	LA17546-5	LOINC	

Concept Code	Concept Name	Code System	Description
LA17547-3	LA17547-3	LOINC	
LA17548-1	LA17548-1	LOINC	
LA17549-9	LA17549-9	LOINC	
LA17550-7	LA17550-7	LOINC	
LA17551-5	LA17551-5	LOINC	
LA17552-3	LA17552-3	LOINC	
LA17553-1	LA17553-1	LOINC	
LA17554-9	LA17554-9	LOINC	
LA17555-6	LA17555-6	LOINC	
LA17556-4	LA17556-4	LOINC	
LA17557-2	LA17557-2	LOINC	
LA17558-0	LA17558-0	LOINC	
LA17559-8	LA17559-8	LOINC	
LA17560-6	LA17560-6	LOINC	
LA17561-4	LA17561-4	LOINC	
LA17562-2	LA17562-2	LOINC	
LA17563-0	LA17563-0	LOINC	
LA17564-8	LA17564-8	LOINC	
LA17565-5	LA17565-5	LOINC	
LA17566-3	LA17566-3	LOINC	
LA17567-1	LA17567-1	LOINC	
LA17568-9	LA17568-9	LOINC	
LA17569-7	LA17569-7	LOINC	
LA17570-5	LA17570-5	LOINC	
LA18269-3	LA18269-3	LOINC	
LA46-8	LA46-8	LOINC	
LA6630-3	LA6630-3	LOINC	

Protocol Age Category

Value Set	ProtocolAgeCategory - 2.16.840.1.113883.17.3.5.86
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17571-3	LA17571-3	LOINC	
LA17572-1	LA17572-1	LOINC	
LA17573-9	LA17573-9	LOINC	

Provider Adverse Event Type

Value Set	ProviderAdverseEventType - 2.16.840.1.113883.17.3.5.72
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA137-2	LA137-2	LOINC	
LA17059-9	LA17059-9	LOINC	
LA17402-1	LA17402-1	LOINC	
LA17403-9	LA17403-9	LOINC	
LA17404-7	LA17404-7	LOINC	
LA17405-4	LA17405-4	LOINC	
LA17406-2	LA17406-2	LOINC	
LA17407-0	LA17407-0	LOINC	
LA17408-8	LA17408-8	LOINC	
LA17409-6	LA17409-6	LOINC	
LA17410-4	LA17410-4	LOINC	
LA17411-2	LA17411-2	LOINC	
LA17412-0	LA17412-0	LOINC	
LA17413-8	LA17413-8	LOINC	
LA17414-6	LA17414-6	LOINC	

Provider Response Role

Value Set	ProviderResponseRole - 2.16.840.1.113883.17.3.5.80
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA18707-2	LA18707-2	LOINC	
LA18708-0	LA18708-0	LOINC	
LA18709-8	LA18709-8	LOINC	
LA18710-6	LA18710-6	LOINC	
LA18711-4	LA18711-4	LOINC	
LA18712-2	LA18712-2	LOINC	
LA18713-0	LA18713-0	LOINC	

Provider Role

Value Set	ProviderRole - 2.16.840.1.113883.17.3.5.46
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA15276-1	LA15276-1	LOINC	
LA18695-9	LA18695-9	LOINC	
LA18696-7	LA18696-7	LOINC	
LA18697-5	LA18697-5	LOINC	
LA18698-3	LA18698-3	LOINC	
LA18699-1	LA18699-1	LOINC	
LA18700-7	LA18700-7	LOINC	
LA18701-5	LA18701-5	LOINC	
LA18702-3	LA18702-3	LOINC	
LA18703-1	LA18703-1	LOINC	
LA18704-9	LA18704-9	LOINC	
LA18705-6	LA18705-6	LOINC	
LA18706-4	LA18706-4	LOINC	
LA18714-8	LA18714-8	LOINC	
LA4687-5	LA4687-5	LOINC	
LA9297-8	LA9297-8	LOINC	
LA9401-6	LA9401-6	LOINC	

Provider Role Level

Value Set	ProviderRoleLevel - 2.16.840.1.113883.17.3.5.81
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA15276-1	LA15276-1	LOINC	
LA18695-9	LA18695-9	LOINC	
LA18696-7	LA18696-7	LOINC	
LA18697-5	LA18697-5	LOINC	
LA18698-3	LA18698-3	LOINC	
LA18699-1	LA18699-1	LOINC	
LA18700-7	LA18700-7	LOINC	
LA18701-5	LA18701-5	LOINC	

Concept Code	Concept Name	Code System	Description
LA18702-3	LA18702-3	LOINC	
LA18703-1	LA18703-1	LOINC	
LA18704-9	LA18704-9	LOINC	
LA18705-6	LA18705-6	LOINC	
LA18706-4	LA18706-4	LOINC	
LA4687-5	LA4687-5	LOINC	
LA9297-8	LA9297-8	LOINC	
LA9401-6	LA9401-6	LOINC	

Race and Ethnicity

Value Set	Race and Ethnicity
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Race and Ethnicity

Value Set	Race and Ethnicity
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Reason Procedure not Performed

Value Set	Reason Procedure not Performed - 2.16.840.1.113883.17.3.5.95
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Reason Procedure not Performed

Concept Code	Concept Name	Code System	Description
LA15185-4	LA15185-4	LOINC	
LA18925-0	LA18925-0	LOINC	
LA4216-3	LA4216-3	LOINC	
LA4389-8	LA4389-8	LOINC	

Registry Type

Value Set	RegistryType - 2.16.840.1.113883.17.3.5.74
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17057-3	LA17057-3	LOINC	
LA17058-1	LA17058-1	LOINC	
LA17059-9	LA17059-9	LOINC	

Concept Code	Concept Name	Code System	Description
LA17398-1	LA17398-1	LOINC	
LA17399-9	LA17399-9	LOINC	
LA17400-5	LA17400-5	LOINC	
LA17401-3	LA17401-3	LOINC	
LA7318-4	LA7318-4	LOINC	
LA9535-1	LA9535-1	LOINC	
LA9553-4	LA9553-4	LOINC	

Response Delay Type

Value Set	ResponseDelayType - 2.16.840.1.113883.17.3.5.51
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17059-9	LA17059-9	LOINC	
LA17583-8	LA17583-8	LOINC	
LA17585-3	LA17585-3	LOINC	
LA17586-1	LA17586-1	LOINC	
LA17587-9	LA17587-9	LOINC	
LA17588-7	LA17588-7	LOINC	
LA17590-3	LA17590-3	LOINC	
LA17591-1	LA17591-1	LOINC	
LA17592-9	LA17592-9	LOINC	
LA17593-7	LA17593-7	LOINC	
LA17594-5	LA17594-5	LOINC	
LA18081-2	LA18081-2	LOINC	
LA18270-1	LA18270-1	LOINC	
LA18271-9	LA18271-9	LOINC	
LA18301-4	LA18301-4	LOINC	

Resuscitation Attempt

Value Set	Resuscitation Attempt - 2.16.840.1.113883.17.3.5.97
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Resuscitation Attempt

Concept Code	Concept Name	Code System	Description
LA17060-7	LA17060-7	LOINC	
LA17061-5	LA17061-5	LOINC	
LA17062-3	LA17062-3	LOINC	

Resuscitation Not Attempted Reason

Value Set	ResuscitationNotAttemptedReason - 2.16.840.1.113883.17.3.5.90
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Concept Code	Concept Name	Code System	Description
LA17063-1	LA17063-1		
LA17064-9	LA17064-9		
LA17065-6	LA17065-6		

Resuscitation Discontinue Reason

Value Set	ResuscitationDiscontinueReason - 2.16.840.1.113883.17.3.5.62
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17078-9	LA17078-9	LOINC	
LA17079-7	LA17079-7	LOINC	
LA17080-5	LA17080-5	LOINC	
LA17081-3	LA17081-3	LOINC	
LA17082-1	LA17082-1	LOINC	
LA18204-0	LA18204-0	LOINC	

Return Of Spontaneous Circulation

Value Set	ReturnOfSpontaneousCirculation - 2.16.840.1.113883.17.3.5.15
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17075-5	LA17075-5	LOINC	
LA17076-3	LA17076-3	LOINC	
LA17077-1	LA17077-1	LOINC	
LA32-8	LA32-8	LOINC	

Safety Equipment Type

Value Set	SafetyEquipmentType - 2.16.840.1.113883.17.3.5.7
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA137-2	LA137-2	LOINC	
LA17375-9	LA17375-9	LOINC	
LA17376-7	LA17376-7	LOINC	
LA17377-5	LA17377-5	LOINC	
LA17378-3	LA17378-3	LOINC	
LA17379-1	LA17379-1	LOINC	
LA17380-9	LA17380-9	LOINC	
LA17382-5	LA17382-5	LOINC	
LA46-8	LA46-8	LOINC	
LA9381-0	LA9381-0	LOINC	
LA9391-9	LA9391-9	LOINC	
LA9392-7	LA9392-7	LOINC	
LA9393-5	LA9393-5	LOINC	

Scene Delay Type

Value Set	SceneDelayType - 2.16.840.1.113883.17.3.5.52
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17059-9	LA17059-9	LOINC	
LA17585-3	LA17585-3	LOINC	
LA17586-1	LA17586-1	LOINC	
LA17587-9	LA17587-9	LOINC	
LA17588-7	LA17588-7	LOINC	
LA17590-3	LA17590-3	LOINC	
LA17591-1	LA17591-1	LOINC	
LA17592-9	LA17592-9	LOINC	
LA17593-7	LA17593-7	LOINC	
LA17594-5	LA17594-5	LOINC	
LA17595-2	LA17595-2	LOINC	
LA17596-0	LA17596-0	LOINC	

Concept Code	Concept Name	Code System	Description
LA17597-8	LA17597-8	LOINC	
LA18081-2	LA18081-2	LOINC	
LA18272-7	LA18272-7	LOINC	
LA18273-5	LA18273-5	LOINC	
LA18275-0	LA18275-0	LOINC	
LA18276-8	LA18276-8	LOINC	
LA7540-3	LA7540-3	LOINC	

Service Level

Value Set	ServiceLevel - 2.16.840.1.113883.17.3.5.70
Code System	LOINC - 2.16.840.1.113883.6.1

Service Type

Value Set	ServiceType - 2.16.840.1.113883.17.3.5.79
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17150-6	LA17150-6	LOINC	
LA18715-5	LA18715-5	LOINC	
LA18716-3	LA18716-3	LOINC	
LA18717-1	LA18717-1	LOINC	
LA18718-9	LA18718-9	LOINC	
LA18719-7	LA18719-7	LOINC	
LA18720-5	LA18720-5	LOINC	

Skin Assessment

Value Set	SkinAssessment - 2.16.840.1.113883.17.3.5.25
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA15475-9	LA15475-9	LOINC	
LA17197-7	LA17197-7	LOINC	
LA17198-5	LA17198-5	LOINC	
LA17199-3	LA17199-3	LOINC	
LA17200-9	LA17200-9	LOINC	

Concept Code	Concept Name	Code System	Description
LA17201-7	LA17201-7	LOINC	
LA17202-5	LA17202-5	LOINC	
LA17203-3	LA17203-3	LOINC	
LA17204-1	LA17204-1	LOINC	
LA17205-8	LA17205-8	LOINC	
LA17206-6	LA17206-6	LOINC	
LA17207-4	LA17207-4	LOINC	
LA18217-2	LA18217-2	LOINC	
LA18218-0	LA18218-0	LOINC	
LA18219-8	LA18219-8	LOINC	
LA6626-1	LA6626-1	LOINC	
LA6630-3	LA6630-3	LOINC	

Stroke Scale

Value Set	StrokeScale - 2.16.840.1.113883.17.3.5.88
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17110-0	LA17110-0	LOINC	
LA17111-8	LA17111-8	LOINC	
LA17112-6	LA17112-6	LOINC	
LA17113-4	LA17113-4	LOINC	
LA18300-6	LA18300-6	LOINC	
LA3774-2	LA3774-2	LOINC	

Stroke Scale Score

Value Set	Stroke Scale Score - 2.16.840.1.113883.17.3.5.93
Code System	LOINC - 2.16.840.1.113883.6.1
Definition	Stroke Scale Score

Concept Code	Concept Name	Code System	Description
LA17109-2	LA17109-2	LOINC	
LA6576-8	LA6576-8	LOINC	
LA6577-6	LA6577-6	LOINC	

Transport Delay Type

Value Set	TransportDelayType - 2.16.840.1.113883.17.3.5.53
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17059-9	LA17059-9	LOINC	
LA17585-3	LA17585-3	LOINC	
LA17586-1	LA17586-1	LOINC	
LA17587-9	LA17587-9	LOINC	
LA17588-7	LA17588-7	LOINC	
LA17589-5	LA17589-5	LOINC	
LA17590-3	LA17590-3	LOINC	
LA17591-1	LA17591-1	LOINC	
LA17592-9	LA17592-9	LOINC	
LA17593-7	LA17593-7	LOINC	
LA17594-5	LA17594-5	LOINC	
LA18081-2	LA18081-2	LOINC	
LA18270-1	LA18270-1	LOINC	
LA18271-9	LA18271-9	LOINC	
LA18301-4	LA18301-4	LOINC	

Transport Method

Value Set	TransportMethod - 2.16.840.1.113883.17.3.5.65
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17168-8	LA17168-8	LOINC	
LA17169-6	LA17169-6	LOINC	
LA17170-4	LA17170-4	LOINC	
LA17171-2	LA17171-2	LOINC	
LA17172-0	LA17172-0	LOINC	
LA17173-8	LA17173-8	LOINC	
LA17174-6	LA17174-6	LOINC	
LA17175-3	LA17175-3	LOINC	
LA17176-1	LA17176-1	LOINC	

Transport Mode

Value Set	TransportMode - 2.16.840.1.113883.17.3.5.66
Code System	LOINC - 2.16.840.1.113883.6.1

Transportation Mode

Value Set	TransportationMode - 2.16.840.1.113883.17.3.5.66
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17177-9	LA17177-9	LOINC	
LA17177-9	LA17177-9	LOINC	
LA17178-7	LA17178-7	LOINC	
LA17178-7	LA17178-7	LOINC	
LA17179-5	LA17179-5	LOINC	
LA17179-5	LA17179-5	LOINC	
LA17180-3	LA17180-3	LOINC	
LA17180-3	LA17180-3	LOINC	

Trauma Center Criteria

Value Set	TraumaCenterCriteria - 2.16.840.1.113883.17.3.5.3
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17337-9	LA17337-9	LOINC	
LA17338-7	LA17338-7	LOINC	
LA17339-5	LA17339-5	LOINC	
LA17340-3	LA17340-3	LOINC	
LA17341-1	LA17341-1	LOINC	
LA17342-9	LA17342-9	LOINC	
LA17343-7	LA17343-7	LOINC	
LA17344-5	LA17344-5	LOINC	
LA17345-2	LA17345-2	LOINC	
LA17346-0	LA17346-0	LOINC	
LA17347-8	LA17347-8	LOINC	

Turn Around Delay Type

Value Set	TurnAroundDelayType - 2.16.840.1.113883.17.3.5.54
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17059-9	LA17059-9	LOINC	
LA17587-9	LA17587-9	LOINC	
LA17590-3	LA17590-3	LOINC	
LA17592-9	LA17592-9	LOINC	
LA17593-7	LA17593-7	LOINC	
LA17594-5	LA17594-5	LOINC	
LA17598-6	LA17598-6	LOINC	
LA17599-4	LA17599-4	LOINC	
LA17600-0	LA17600-0	LOINC	
LA17601-8	LA17601-8	LOINC	
LA17602-6	LA17602-6	LOINC	
LA17603-4	LA17603-4	LOINC	
LA18081-2	LA18081-2	LOINC	
LA18270-1	LA18270-1	LOINC	
LA18271-9	LA18271-9	LOINC	
LA7497-6	LA7497-6	LOINC	

Unit Response Role

Value Set	UnitResponseRole - 2.16.840.1.113883.17.3.5.82
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17574-7	LA17574-7	LOINC	
LA17575-4	LA17575-4	LOINC	
LA17576-2	LA17576-2	LOINC	
LA17577-0	LA17577-0	LOINC	
LA17578-8	LA17578-8	LOINC	

Vehicle Impact Area

Value Set	VehicleImpactArea - 2.16.840.1.113883.17.3.5.5
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Code System	LOINC - 2.16.840.1.113883.6.1
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Concept Code	Concept Name	Code System	Description
LA10137-0	LA10137-0	LOINC	
LA10138-8	LA10138-8	LOINC	
LA10139-6	LA10139-6	LOINC	
LA10140-4	LA10140-4	LOINC	
LA10141-2	LA10141-2	LOINC	
LA13942-0	LA13942-0	LOINC	
LA14557-5	LA14557-5	LOINC	
LA14558-3	LA14558-3	LOINC	
LA6112-2	LA6112-2	LOINC	
LA6113-0	LA6113-0	LOINC	
LA6114-8	LA6114-8	LOINC	
LA6115-5	LA6115-5	LOINC	

Vehicle Passenger Location

Value Set	VehiclePassengerLocation - 2.16.840.1.113883.17.3.5.6
Code System	LOINC - 2.16.840.1.113883.6.1

Concept Code	Concept Name	Code System	Description
LA17361-9	LA17361-9	LOINC	
LA17362-7	LA17362-7	LOINC	
LA17363-5	LA17363-5	LOINC	
LA17364-3	LA17364-3	LOINC	
LA17365-0	LA17365-0	LOINC	
LA17366-8	LA17366-8	LOINC	
LA17367-6	LA17367-6	LOINC	
LA17368-4	LA17368-4	LOINC	
LA17369-2	LA17369-2	LOINC	
LA17370-0	LA17370-0	LOINC	
LA17371-8	LA17371-8	LOINC	
LA17372-6	LA17372-6	LOINC	
LA17373-4	LA17373-4	LOINC	
LA17374-2	LA17374-2	LOINC	
LA4489-6	LA4489-6	LOINC	

Chapter

7

Appendices

Topics:

- *Object Identifiers for US State Departments of Motor Vehicles*
- *Nulls and Negative Action Values*
- *UCUM Unit Mapping*

test appendices section

Object Identifiers for US State Departments of Motor Vehicles

These OIDs have been assigned to US state DMVs by HL7 for the purpose of providing namespaces for driver's license numbers.

OID	State Administrator
2.16.840.1.113883.4.3.1	Alabama Motor Vehicle Bureau
2.16.840.1.113883.4.3.2	Alaska Motor Vehicle Bureau
2.16.840.1.113883.4.3.4	Arizona Motor Vehicle Bureau
2.16.840.1.113883.4.3.5	Arkansas Motor Vehicle Bureau
2.16.840.1.113883.4.3.6	California Motor Vehicle Bureau
2.16.840.1.113883.4.3.8	Colorado Motor Vehicle Bureau
2.16.840.1.113883.4.3.9	Connecticut Motor Vehicle Bureau
2.16.840.1.113883.4.3.10	Delaware Motor Vehicle Bureau
2.16.840.1.113883.4.3.11	District of Columbia Motor Vehicle Bureau
2.16.840.1.113883.4.3.12	Florida Motor Vehicle Bureau
2.16.840.1.113883.4.3.13	Georgia Motor Vehicle Bureau
2.16.840.1.113883.4.3.15	Hawaii Motor Vehicle Bureau
2.16.840.1.113883.4.3.16	Idaho Motor Vehicle Bureau
2.16.840.1.113883.4.3.17	Illinois Motor Vehicle Bureau
2.16.840.1.113883.4.3.18	Indiana Bureau for Motor Vehicles (BMV)
2.16.840.1.113883.4.3.19	Iowa Motor Vehicle Bureau
2.16.840.1.113883.4.3.20	Kansas Motor Vehicle Bureau
2.16.840.1.113883.4.3.21	Kentucky Motor Vehicle Bureau
2.16.840.1.113883.4.3.22	Louisiana Motor Vehicle Bureau
2.16.840.1.113883.4.3.23	Maine Motor Vehicle Bureau
2.16.840.1.113883.4.3.24	Maryland Motor Vehicle Bureau
2.16.840.1.113883.4.3.25	Massachusetts Motor Vehicle Bureau
2.16.840.1.113883.4.3.26	Michigan Motor Vehicle Bureau
2.16.840.1.113883.4.3.27	Minnesota Motor Vehicle Bureau
2.16.840.1.113883.4.3.28	Mississippi Motor Vehicle Bureau
2.16.840.1.113883.4.3.29	Missouri Motor Vehicle Bureau
2.16.840.1.113883.4.3.30	Montana Motor Vehicle Bureau
2.16.840.1.113883.4.3.31	Nebraska Motor Vehicle Bureau
2.16.840.1.113883.4.3.32	Nevada Motor Vehicle Bureau
2.16.840.1.113883.4.3.33	New Hampshire Motor Vehicle Bureau
2.16.840.1.113883.4.3.34	New Jersey Motor Vehicle Bureau
2.16.840.1.113883.4.3.35	New Mexico Motor Vehicle Bureau
2.16.840.1.113883.4.3.36	New York Motor Vehicle Bureau

2.16.840.1.113883.4.3.37	North Carolina Motor Vehicle Bureau
2.16.840.1.113883.4.3.38	North Dakota Motor Vehicle Bureau
2.16.840.1.113883.4.3.39	Ohio Motor Vehicle Bureau
2.16.840.1.113883.4.3.40	Oklahoma Motor Vehicle Bureau
2.16.840.1.113883.4.3.41	Oregon Motor Vehicle Bureau
2.16.840.1.113883.4.3.42	Pennsylvania Motor Vehicle Bureau
2.16.840.1.113883.4.3.44	Rhode Island Motor Vehicle Bureau
2.16.840.1.113883.4.3.45	South Carolina Motor Vehicle Bureau
2.16.840.1.113883.4.3.46	South Dakota Motor Vehicle Bureau
2.16.840.1.113883.4.3.47	Tennessee Motor Vehicle Bureau
2.16.840.1.113883.4.3.48	Texas Motor Vehicle Bureau
2.16.840.1.113883.4.3.49	Utah Motor Vehicle Bureau
2.16.840.1.113883.4.3.50	Vermont Motor Vehicle Bureau
2.16.840.1.113883.4.3.51	Virginia Motor Vehicle Bureau
2.16.840.1.113883.4.3.53	Washington Motor Vehicle Bureau
2.16.840.1.113883.4.3.54	West Virginia Motor Vehicle Bureau
2.16.840.1.113883.4.3.55	Wisconsin Motor Vehicle Bureau
2.16.840.1.113883.4.3.56	Wyoming Motor Vehicle Bureau

Nulls and Negative Action Values

This table maps NEMESIS null and negative action values to the appropriate values and structures in the HL7 CDA specification.

	NEMESIS Negative Action Values	Type	NullFlavorCase		Solution
1	Unable to Complete	null	NI	observation	Observation.value = null (NI); obs.text = "unable to complete"
2	Unable to Complete	null	NI	medication	Add Boolean observation; put null value in observation.text = "unable to complete"
3	Unable to Complete	null	NI	procedure	Add Boolean observation; put null value in observation.text = "unable to complete"
4	Refused	null	ASKU (NT)	observation	Observation.value = null (ASKU)
5	Refused	neg		observation	Observation.value = null (ASKU); with a relationship to an act with this code
6	Refused	null	ASKU (NT)	medication history	Add Boolean observation; Observation.value = null (ASKU)
7	Refused	neg		medication given	negate specific medication with a relationship to an act with this code (refused)
8	Refused	null	ASKU (NT)	procedure history	Add Boolean observation; Observation.value = null (ASKU)

9	Refused	neg		procedure performed	negate specific procedure with a relationship to an act with this code
10	Exam finding not present	null	NAV	observation	Observation.value = null (NAV)
11	No known drug allergies	none		observation: negation value	q= allergy; negate; a="no known drug allergies"
12	None reported	none		observation: alcohol	q= alcohol/drug ind; a="none"
13	None reported	none		observation: history (condition)	Add Boolean observation; observation.value = "none"
14	None reported	none		medication	Add Boolean observation; observation.value = "none"
15	None reported	none		procedure	Add Boolean observation; observation.value = "none"
16	No anticoagulants or bleeding disorder	none		medication	Negate med code = 372862008 anticoagulant (Type:= substance) or 81839001 anticoagulant (Type:= pharmaceutical / biologic product)
17	No anticoagulants or bleeding disorder	none		observation	Negate observation value = 64779008 bleeding disorder (Type:= clinical finding). There is no single coherent IDC-10 code for bleeding disorder
18	Contraindication noted	neg		medication, procedure	negate specific procedure or medication with a relationship to an act with this code
19	Denied by order	neg		medication, procedure	negate specific procedure or medication with a relationship to an act with this code
20	Medication allergy	neg		medication	negate specific medication with a relationship to an act with this code
21	Medication already taken	neg		medication	negate specific medication with a relationship to an act with this code
Null Values					
22	Not Applicable	null	NA		null: NA
23	Not Recorded	null	NI		null: NI; add detail to obs.text or proc.text
24	Not Reported	null	NI		null: NI; add detail to obs.text or proc.text

UCUM Unit Mapping

This appendix provides UCUM codes for units provided by NEMESIS specifications.

NEMESIS Question	NEMESIS Code	Description	PQ QTY	PQ Units (UCUM)	Supporting values
emedications.06	3706001	Grams	Yes	g	
emedications.06	3706003	Inches	Yes	[IN_I]	

emedications.06	3706005	International Units	Yes	[iU]	
emedications.06	3706007	Keep Vein Open (To Keep Open)	No		substanceAdministration.value.nullFlavor = QS (sufficient quantity); codeSystem = 2.16.840.1.113883.5.1008
emedications.06	3706009	Liters	Yes	L	
emedications.06	3706011	Liters Per Minute	Yes	L/min	
emedications.06	3706013	MDI Puffs	Yes	1	substanceAdministration.administrationUnitCode = PUFF; codeSystem = 2.16.840.1.113883.1.11.14570
emedications.06	3706015	Micrograms	Yes	ug	
emedications.06	3706017	Micrograms per Kilogram per Minute	Yes	ug/kg/min	
emedications.06	3706019	Milliequivalents	Yes	meq	
emedications.06	3706021	Milligrams	Yes	mg	
emedications.06	3706023	Milligrams Per Kilogram Per Minute	Yes	mg/kg/min	
emedications.06	3706025	Milliliters	Yes	mL	
emedications.06	3706027	Milliliters Per Hour	Yes	mL/h	
emedications.06	3706029	Other	Yes	1	substanceAdministration.value.units = OTH; codeSystem = 2.16.840.1.113883.5.1008
ehistory.14	3114001	cm	Yes	cm	
ehistory.14	3114003	gms	Yes	g	
ehistory.14	3114005	gtts (drops)	Yes	1	substanceAdministration.administrationUnitCode = DROP; codeSystem = 2.16.840.1.113883.1.11.14420
ehistory.14	3114007	inches	Yes	[IN_I]	
ehistory.14	3114009	iu	Yes	[iU]	
ehistory.14	3114011	kvo (keep vein open)	No		substanceAdministration.value.nullFlavor = QS (sufficient quantity); codeSystem = 2.16.840.1.113883.5.1008
ehistory.14	3114013	l/min (fluid administration)	Yes	L/min	
ehistory.14	3114015	liters	Yes	L	
ehistory.14	3114017	LPM (gas administration)	Yes	L/min	
ehistory.14	3114019	mcg	Yes	ug	
ehistory.14	3114021	mcg/kg/min	Yes	ug/kg/min	
ehistory.14	3114023	mcg/min	Yes	ug/min	
ehistory.14	3114025	meq	Yes	meq	

ehistory.14	3114027	metered dose	Yes	1	substanceAdministration.value.units = OTH; codeSystem = 2.16.840.1.113883.5.1008
ehistory.14	3114029	mg	Yes	mg	
ehistory.14	3114031	mg/kg	Yes	mg/kg	
ehistory.14	3114033	mg/kg/min	Yes	mg/kg/min	
ehistory.14	3114035	mg/min	Yes	mg/min	
ehistory.14	3114037	ml	Yes	mL	
ehistory.14	3114039	ml/hr	Yes	mL/h	
ehistory.14	3114041	other (Not Listed)	Yes	1	substanceAdministration.value.units = OTH; codeSystem = 2.16.840.1.113883.5.1008
ehistory.14	3114043	puffs	Yes	1	substanceAdministration.administrationUnitCode = PUFF; codeSystem =2.16.840.1.113883.1.11.14570
ehistory.14	3114045	units/hr	Yes	1/h	
epatient.16	2516001	Days	Yes	d	
epatient.16	2516003	Hours	Yes	h	
epatient.16	2516005	Minutes	Yes	min	
epatient.16	2516007	Months	Yes	mo	
epatient.16	2516009	Years	Yes	a	
esituation.06	2806001	Seconds	Yes	s	
esituation.06	2806003	Minutes	Yes	min	
esituation.06	2806005	Hours	Yes	h	
esituation.06	2806007	Days	Yes	d	
esituation.06	2806009	Weeks	Yes	wk	
esituation.06	2806011	Months	Yes	mo	
esituation.06	2806013	Years	Yes	a	

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, to be published in 2013, but available to members on the HL7 wiki [HL7 wiki](#).

