

Integrating the Healthcare Enterprise



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**IHE Patient Care Coordination
Technical Framework Supplement**

10

**Referral for Interfacility Patient Transport
(RIPT)**

HL7® FHIR® STU 3

Using Resources at FMM Level 0-N

15

Rev. 2.0 – Draft for Public Comment

For review and comment only.

DO NOT implement this public comment version.

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Please verify you have the most recent version of this document. See [here](#) for Trial Implementation and Final Text versions and [here](#) for Public Comment versions.

Foreword

This is a supplement to the IHE Patient Care Coordination Technical Framework. Each supplement undergoes a process of public comment and trial implementation before being 30 incorporated into the volumes of the Technical Frameworks.

This supplement is published on January 12, 2021 for Public Comment. Comments are invited and can be submitted at http://www.ihe.net/PCC_Public_Comments. In order to be considered in development of the Trial Implementation version of the supplement, comments must be received by February 11, 2021.

35 This supplement describes changes to the existing technical framework documents.

“Boxed” instructions like the sample below indicate to the Volume Editor how to integrate the relevant section(s) into the relevant Technical Framework volume.

Amend Section X.X by the following:

Where the amendment adds text, make the added text **bold underline**. Where the amendment 40 removes text, make the removed text **bold strikethrough**. When entire new sections are added, introduce with editor’s instructions to “add new text” or similar, which for readability are not bolded or underlined.

General information about IHE can be found at www.ihe.net.

45 Information about the IHE Patient Care Coordination domain can be found at ihe.net/IHE_Domains.

Information about the organization of IHE Technical Frameworks and Supplements and the process used to create them can be found at http://ihe.net/IHE_Process and <http://ihe.net/Profiles>.

The current version of the IHE Patient Care Coordination Technical Framework can be found at 50 http://ihe.net/Technical_Frameworks.

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Introduction to this Supplement

Whenever possible, IHE profiles are based on established and stable underlying standards. However, if an IHE domain determines that an emerging standard has high likelihood of industry adoption, and the standard offers significant benefits for the use cases it is attempting to address, the domain may develop IHE profiles based on such a standard. During Trial Implementation, the IHE domain will update and republish the IHE profile as the underlying standard evolves.

Product implementations and site deployments may need to be updated in order for them to remain interoperable and conformant with an updated IHE profile.

This IPS Profile incorporates content from Release 4 of the emerging HL7® FHIR® specification. HL7 describes FHIR Change Management and Versioning at <https://www.hl7.org/fhir/versions.html>.

HL7 provides a rating of the maturity of FHIR content based on the FHIR Maturity Model (FMM): level 0 (draft) through N (Normative). See <http://hl7.org/fhir/versions.html#maturity>.

The FMM levels for FHIR content used in this profile are listed in the following table.

FHIR Resource Name	FMM Level
Documents	3
Composition	2
Patient	N
Practitioner	3
MedicationStatement	3
Medication	3
AllergyIntolerance	3
Condition	3
Immunization	3
Procedure	3
Organization	3
DeviceUseStatement	0
Device	2
Observation	N
Specimen	2
Imaging Study	3
DiagnosticReport	3
CarePlan	2
Consent	2

FHIR Resource Name	FMM Level
VitalSigns	N/A
ServiceRequest	2

- 165 When a professional transport takes place, there is information that needs to be recorded into a transport organization's patient record, needed for patient care that is not electronically available to the transport team. Much of the information is currently available in standard formats in electronic discharge summaries used in US, Canada and European healthcare settings using the HL7 CDA Release 2.0 Standard. Other standards, such as HL7 FHIR resources could also be used to communicate this information between the discharging facility and EMS transport company. The way that the transport company is contacted for the transport is out of the scope of this profile
- 170 The use of electronic transfer summaries benefits both hospitals and transport companies by decreasing staff time used to communicate such information, and hospitals will further benefit in reduced patient wait times for transfers and increase bed availability that could result from this time efficient transfer of this information. IHE is an excellent venue to solve this problem because it already has substantial experience with the standards that will be used and the necessary content and the knowledge of CDA-based discharge summaries (e.g., MS XPHR). IHE will also provide a mechanism for Transport system vendors and Hospital system vendors to establish and test a solution. Much of the content is already in the current, real world, EMR systems in hospitals and patient care facilities. This is regularly used when a patient is being transferred from a hospital into the rehab facility where the patient information is electronically sent to the facility that the patient is going to go into. This system can then be reused to fulfill transport system information needs.
- 175
- 180

185 Open Issues and Questions

1. How can we reuse transactions and create transactions based on its use in QEDm?
 2. Patient Medical History and risk factors map to multiple FHIR resources: Procedures, conditions, date of onset.
 3. Should we subsume the mappings in the ETS and ITS Profiles into this profile and deprecate them?
 4. There is a FHIR resource gap for Transport instructions.
 5. Should the Transport Data Consumer and Transport Data Responder Actors have a more generic name such as Data Consumer and Data Responder?
 6. There is no LOINC code for Revised Trauma Score.
 7. Cannot find the NEMSIS copyright statement.
- 190

Closed Issues

1. (2/7/2017) Profile needs to be renamed to become more universal.

The committee discussed and agreed on the profile renaming to Routine Interfacility patient Transport (RIPT).

- 200 2. (4/27/2017) There is no CDA section for “the Certificate of Medical Necessity” and no FHIR source to match it.

The committee discussed and agreed to create a CDA section in the Profile for the “Certificate of Medical Necessity”. The FHIR source for it will be composition.type.

3. (4/27/2017) There is no CDA section for “Transport Instructions”.

- 205 The Committee discussed and agreed to create a CDA section for “Transport Instructions”.

4. (4/27/2017) Should patient matching be profiled in this due to possibility of MRN not being sent over properly?

The Committee discussed and agreed that this is out of scope for this profile.

- 210 5. (4/27/2017) Do we use the term query or retrieve in transaction titles?

The Committee discussed and agreed that the term “query” is the most appropriate as the transaction title for this profile.

6. (4/27/2017) There are some attributes in this profile hat are not included in NEMSIS.

- 215 The committee discussed and agreed to include these attributes in the profile and that it is up to NEMSIS to make the custom elements to absorb it.

7. (4/27/2017) Is it the responsibility of the content creator or the content consumer to map to the custom the NEMSIS defined codes?

The Committee discussed and agreed that it will be the responsibility of the implantation to create the mapping required for the custom NEMSIS codes.

220

IHE Technical Frameworks General Introduction

The [IHE Technical Framework General Introduction](#) is shared by all of the IHE domain technical frameworks. Each technical framework volume contains links to this document where appropriate.

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IHE Technical Frameworks General Introduction Appendices

The [IHE Technical Framework General Introduction Appendices](#) are components shared by all of the IHE domain technical frameworks. Each technical framework volume contains links to these documents where appropriate.

270 *Update the following appendices to the General Introduction as indicated below. Note that these are not appendices to this domain's Technical Framework (TF-1, TF-2, TF-3 or TF-4) but rather, they are appendices to the IHE Technical Frameworks General Introduction located [here](#).*

275 Appendix A – Actor Summary Definitions

Add the following new or modified actors to the IHE Technical Frameworks General Introduction Appendix A:

New (or modified) Actor Name	Description
No new actors	

280 Appendix B – Transaction Summary Definitions

Add the following new or modified transactions to the IHE Technical Frameworks General Introduction Appendix B:

New (or modified) Transaction Name and Number	Definition
No new transactions	

285 Appendix D – Glossary

Add the following new or modified glossary terms to the IHE Technical Frameworks General Introduction Appendix D.

New (or modified) Glossary Term	Definition	Synonyms	Acronym/Abbreviation
No new terms			

Volume 1 – Profiles

X Referral for Interfacility Patient Transport (RIPT) Profile

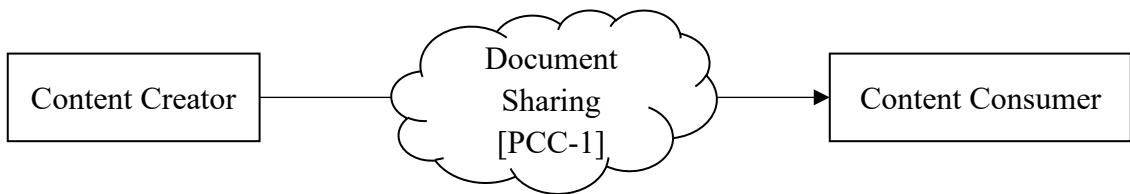
- 295 Transport organizations must record information about patients being transferred under their care so that the organizations can minimize errors in their patient care record and the patient can have accurate and an appropriate level of care for their condition. This information is either gathered verbally through nursing staff or by perusing extensive paperwork to find the information needed for the transport patient care record. Once the transport is completed, the same information is
- 300 also communicated as part of the transport summary. While this is often done in electronic information systems today, a lack of standards means that duplicate entry is commonplace, leading to a higher chance for data entry errors by transport staff. In fact, there is approximately a 67% error associated with manual entry of patient information transferred into an electronic system, not to mention various other errors when there are misspellings⁴. Creating a patient
- 305 summary for the transport team is a low-cost approach that builds on existing functionality as it reuses much of the information that is typically documented in hospital systems today. This will make it easy to find an efficient way to transfer information that is already in the EMR system and only needs to be efficiently transferred to another system.
- 310 Once the current transfer of information issue is solved, the transport team's time spent gathering information in the hospital can be greatly reduced and the team can spend more time providing care to the patient, rather than spending prolonged periods of time searching for, and manually re-entering, the needed information for patient transport and informed patient care. Improved throughput for Emergency Department (ED) and inpatient bed availability become a hospital benefit, by creating a faster turnover rate for hospital discharge. This profile specifies the CDA and FHIR transactions that will be used to carry out this transaction. The exchange of the patient identifier is out of scope for this profile. This must be determined by the implementation (e.g., out of band, PIX, PDQ).
- 315

X.1 RIPT Actors, Transactions, and Content Modules

- 320 This section defines the actors, transactions, and/or content modules in this profile. General definitions of actors are given in the Technical Frameworks General Introduction Appendix A at http://ihe.net/Technical_Frameworks.

- 325 Figure X.1-1 shows the actors directly involved in the RIPT Profile and the relevant transactions between them. If needed for context, other actors that may be indirectly involved due to their participation in other related profiles are shown in dotted lines. Actors which have a mandatory grouping are shown in conjoined boxes.

⁴ Retrieved 1/15/2017 from <http://www.medscape.com/viewarticle/834566>



330

Figure X.1-1: RIPT Actor Diagram

Table X.1-1 lists the transactions for each actor directly involved in the RIPT Profile. To claim compliance with this profile, an actor shall support all required transactions (labeled “R”) and may support the optional transactions (labeled “O”).

Table X.1-1: RIPT Profile - Actors and Transactions

Actors	Transactions	Optionality	Reference
Content Creator	Document Sharing [PCC-1]	R	PCC TF-2: 3.1
Content Consumer	Document Sharing [PCC-1]	R	PCC TF-2: 3.1

335

A product implementation using this profile must group actors from this profile with actors from a workflow or transport profile to be functional. The grouping of the content module described in this profile to specific actors is described in more detail in the “Required Actor Groupings” section below.

340

Table X.1-2 lists the content module(s) defined in the RIPT Profile. To claim support with this profile, an actor shall support all required content modules (labeled “R”) and may support optional content modules (labeled “O”).

Table X.1-2: RIPT Profile - Actors and Content Modules

Actors	Content Modules	Optionality	Reference
Content Creator	Content Module 1 Transport Data Summary and Template ID	R	PCC TF-3: 6.3.1.D
Content Consumer	Content Module 1 Transport Data Summary and Template ID	O	PCC TF-3: 6.3.1.D

345

X.1.1 Actor Descriptions and Actor Profile Requirements

Most requirements are documented in Transactions (Volume 2) and Content Modules (Volume 3). This section documents any additional requirements on profile’s actors.

X.1.1.1 Content Creator

- 350 The Content Creator shall be responsible for the creation of content of an Interfacility Transport Referral document containing the data elements defined in PCC TF-3: 6.3.1.D or, where the FHIR is used, containing the FHIR Document Bundle defined TF-3: 6.6.x.1.

X.1.1.2 Content Consumer

- 355 The Content Consumer shall be responsible for the creation of content of an Interfacility Transport Referral document containing the data elements defined in PCC TF-3: 6.3.1.D.5 or, where the FHIR is used, containing the FHIR Document Bundle defined TF-3: 6.6.x.1.

X.1.1.2.1 Trigger Events

Upon the discharge or transfer of a patient referral will be generated.

X.2 RIPT Actor Options

- 360 Options that may be selected for each actor in this profile, if any, are listed in the Table X.2-1. Dependencies between options when applicable are specified in notes.

Table X.2-1: Referral for Interfacility Patient Transport - Actors and Options

Actor	Option Name	Reference
Content Creator	CDA Option ^{Note}	Section X.2.1
	FHIR Option ^{Note 1}	Section X.2.2
Content Consumer	View Option ^{Note 2}	PCC TF-2: 3.1.1
	Document Import Option ^{Note 2}	PCC TF-2: 3.1.2
	Section Import Option ^{Note 2}	PCC TF-2: 3.1.3
	Discrete Data Import Option ^{Note 2}	PCC TF-2: 3.1.4

Note 1: The Content Creator must be able to support at least one of these options.

Note 2: The Content Consumer must implement at least one of these options.

365 X.2.1 CDA Option

This option defines the processing requirements placed on the Content Creators for producing a CDA structured document version of the Interfacility Transport Referral document. The CDA details are in Volume 3, Section 6.3.1.

X.2.2 FHIR Option

- 370 This option defines the processing requirements placed on the Content Creators for producing a FHIR document bundle version of the Interfacility Transport Referral document. The FHIR bundle details are in TF-3: 6.6.x.1

X.3 RIPT Required Actor Groupings

There are no required actor groupings for this profile

375 X.4 RIPT Overview

Patient discharge is shown using FHIR transactions and CDA documents to make the flow of the patient information from the hospital to the transport team paperless. This reduces the time spent gathering information and errors developed through manual input of the information.

X.4.1 Concepts

- 380 Transport companies' main goal is to transport a patient from point A to point B while caring for any of the patient's medical needs. In the absence of interoperability, when a patient needs a medical transport, the transport providers are required to develop a patient record using the information found in the discharge summary. If done manually inputting this information often takes 30 minutes and creates a lag in the discharge process and increases the amount of time that
385 the transport team spends on each call.

X.4.2 Use Cases

X.4.2.1 Use Case #1: Hospital Discharge to Transport with information Query

The use case describes the discharge process in a hospital after treatment has been carried out using an information query for the transfer of patient information.

390 **X.4.2.1.1 Hospital Discharge to Transport Use Case Description with information
Query**

- 395 Alison Patel, a 28-year-old female, is going home from the hospital after having an infection due to systemic fibrosis. The doctors prescribed oxygen after treatment, and call a transport company to take her to rehab. Alison is a paraplegic and is wheelchair bound. Due to the prescribed oxygen, there needs to be monitoring for her transport. The hospital provides the transport team with the transport summary. The information is then available to the transport provider system where it is retrieved to populate the patient information record for the transport.

- 400 The contacted transport care team arrives on scene for the transport, prepared with portable oxygen. The R.N. transfers care to the transport team who then goes into Alison's room to meet her. The transport is then carried out.

X.4.2.1.2 Hospital Discharge to Transport Using Information Query Process Flow

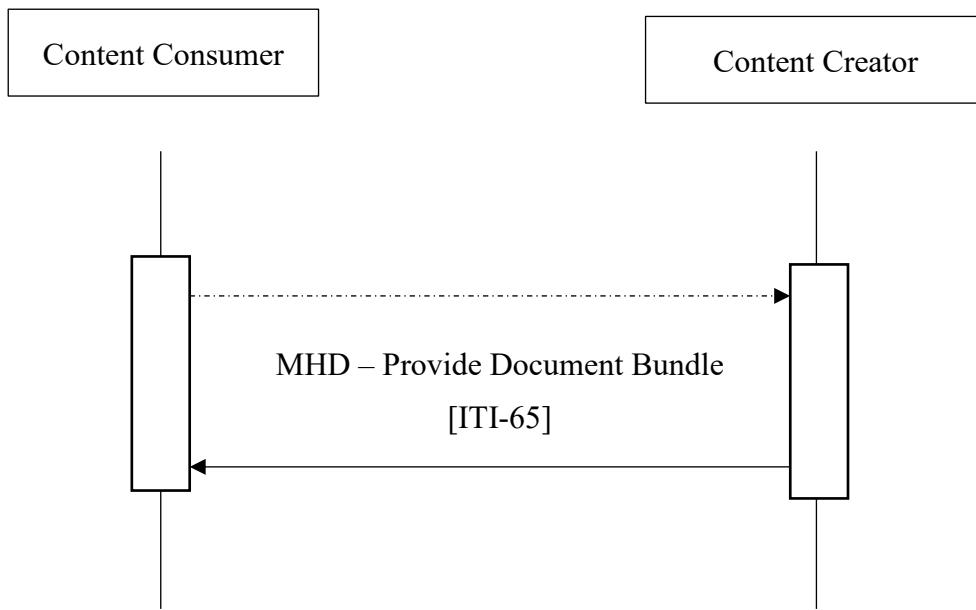


Figure X.4.2.1.2-1: Basic Process Flow in Discharge to Transport Using FHIR Profile

405 Pre-conditions:

1. Hospital EMR has patient information in the system
2. Physician Clears Patient for discharge
3. Transport provider is contacted and minimum required patient data is shared with the transport provider (name, gender, date of birth, MRN)
- 410 4. The pickup time is arranged
5. Transport patient care record is ready to retrieve information and both the EMR and patient care record have an established XD* infrastructure.
6. A referral document is sent to the transport team prior to their arrival

415 Main Flow:

1. Transport team receives nurse report and transfer of care
2. Patient contact is made and transport is started

Post-conditions:

1. Patient information is updated in the patient care record system during transport.
- 420 2. Patient is transferred to the care of the drop-off facility staff.

X.4.2.2 Use Case #2: Emergency Transport from Long-Term Care Facility

The use case describes the Emergency process at a long-term care facility when a transport to a hospital is needed and carried out.

425 X.4.2.2.1 Emergency Transport from Long-Term Care Facility Use Case Description

430 John Smith, an 87-year-old male living in a long-term care facility. The patient is suffering from a cardiac event and an emergency transport is needed. The long-term care facility contacts a transport provider and generates an electronic patient summary. The contracted transport care team arrives on scene for the transport. The long-term care facility provides the transport team with the transport summary CDA document. The electronic patient information consumed into their patient care system. The nurse transfers care to the transport team and the team takes the necessary care for the patient's condition and starts the transport.

X.4.2.2.2 Hospital Discharge to Transport Using CDA Process Flow



435

Figure X.4.2.2.2-1: Basic Process Flow in Discharge to Transport Using CDA Profile

Pre-conditions:

- 440 1. The long-term care facility EMR has patient information in the system
2. Patient is considered to have an emergency event and a hospital trip needs to be made
3. Transport provider is contacted and minimum required patient data is shared with the transport provider (name, gender, date of birth, MRN)
4. Transport patient care record is ready to consume information and both the EMR and patient care record have an established XD* infrastructure.

445 Main Flow:

1. Transport teams arrives at pick-up location and imports the patient information into the patient care record system.
2. Transport team receives nurse report and transfer of care
3. Patient contact is made and transport is started

450 Post-conditions:

1. Patient information is updated in the patient care record system during transport.
2. Patient is transferred to the care of the closest appropriate hospital staff.

X.5 RIPT Security Considerations

455 Actors in the RIPT Profile create, modify, and consume patient demographics, clinical and administrative information which includes personally identifiable health information. This information must be protected against unauthorized access, modification or tampering. This profile recommends but does not require that connections between actors be grouped with the Secure Node or Secure Application Actors from the IHE ATNA Profile.

460 These actors ensure appropriate user authentication and authorization to access the application and protect personally identifiable health information against unauthorized access, modification or tampering while the information is in transit.

The security considerations for a content module are dependent upon the security provisions defined by the grouped actor(s). There may be jurisdictional restrictions on some patient content available to transport systems.

465 X.6 RIPT Cross Profile Considerations

470 The use of the IHE XD* family of transactions is encouraged to support standards-based interoperability between systems acting as the RIPT Content Creator and RIPT Content Consumer. However, this profile does not require any groupings with ITI XD* actors to facilitate transport of the content document it defines. Below is a summary of recommended IHE transport transactions that MAY be utilized by systems playing the roles of RIPT Content Creator or RIPT Content Consumer to support the standard use case defined in this profile:

- 475 • A Document Source in XDS.b, a Portable Media Creator in XDM, or a Document Source in XDR might be grouped with the RIPT Content Creator. A Document Consumer in XDS.b, a Portable Media Importer in XDM, or a Document Recipient in XDR might be grouped with the RIPT Content Consumer. A registry/repository-based infrastructure is defined by the IHE Cross Enterprise Document Sharing (XDS.b) that includes profile support that can be leveraged to facilitate retrieval of public health related information from a document sharing infrastructure: Multi-Patient Query (MPQ), and Document Metadata Subscription (DSUB).
- 480 • A reliable messaging-based infrastructure is defined by the IHE Cross Enterprise Document Reliable Interchange (XDR) Profile. Document Source in XDR might be grouped with the RIPT Content Creator. A Document Recipient in XDR might be grouped with the RIPT Content Consumer.

485 Detailed descriptions of these transactions can be found in the IHE IT Infrastructure Technical Framework.

X.7 RIPT Data Elements

This profile defines specific data element content. These data elements are used to create the Transport Data. This set of data elements in the form are identified and defined in Appendix A.

490

Appendices

N/A

495

Volume 2 – Transactions

No new transactions.

500

Volume 2 Appendices

N/A

Volume 2 Namespace Additions

None

505

Volume 3 – Content Modules

5 Namespaces and Vocabularies

codeSystem	codeSystemName	Description
2.16.840.1.113883.6.90o	ICD10	International Classification of Diseases, Clinical Modifiers, Version 10
2.16.840.1.113883.6.88	RxNorm	RxNorm
2.16.840.1.113883.6.96	SNOMED-CT	SNOMED Controlled Terminology
NA	NEMSIS	National EMS Information System
2.16.840.1.113883.6.1	LOINC	Logical Observation Identifier Names and Codes

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Profile	Format Code	Media Type	Template ID
Referral for Interfacility Patient Transport (RIPT)	urn:ihe:pcc:ript:2017	text/xml	1.3.6.1.4.1.19376.1.5.3.1.1.28.1

6 Content Modules

Add consideration for consuming systems to be responsible for translating Standard specific codes to NEMSIS codes
515

6.3.1 CDA Document Content Modules

6.3.1.D Routine Interfacility Patient Transport (RIPT) Document Content Module

6.3.1.D.1 Format Code

The XDSDocumentEntry format code for this content is **urn:ihe:pcc:ript:2017**

520 **6.3.1.D.2 Parent Template**

International Patient Summary (2.16.840.1.113883.10.22.1.1)

6.3.1.D.3 Referenced Standards

All standards which are referenced in this document are listed below with their common abbreviation, full title, and link to the standard.

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Table 6.3.1.D.3-1: Referral for Interfacility Patient Transport Document - Referenced Standards

Abbreviation	Title	URL
NEMESIS	National EMS Information Services	https://nemesis.org/media/nemesis_v3/release-3.5.0/DataDictionary/PDFHTML/EMSDEMSTATE/index.html
HL7 FHIR	HL7 FHIR standard R4	http://hl7.org/fhir/r4/
CDAR2	HL7 CDA Release 2.0	http://www.hl7.org/documentcenter/public/standards/dstu/CDAR2_IG PROCNOTE DSTU R1_2010JUL.zip
HL7 EMS DAM	HL7 Version 3 Domain Analysis Model, Emergency Medical Services, Release 1	http://www.hl7.org/implement/standards/product_brief.cfm?product_id=421
HL7 EMS DIM	HL7 version 3 Domain Information Model; Emergency Model Services, release 1	http://www.hl7.org/implement/standards/product_brief.cfm?product_id=302
IPS	International Patient Summary	http://build.fhir.org/ig/HL7/fhir-ips/StructureDefinition-Composition-uv-ips.html

6.3.1.D.4 Data Element Requirement Mappings to CDA

This section identifies the mapping of data between referenced standards into the CDA implementation guide.

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Table 6.3.1.D.4-1: Routine Interfacility Patient Transport (RIPT) - Data Element Requirement Mappings to CDA

RIPT Data Elements	IPS CDA
Patient Attributes	/ClinicalDocument/[IPS CDA recordTarget]
Patient's name	/ClinicalDocument/[IPS CDA recordTarget]/patientRole/patient/name
Address	/ClinicalDocument/[IPS CDA recordTarget]/patientRole/addr
Telecoms	/ClinicalDocument/[IPS CDA recordTarget]/patientRole/telecom
Administrative gender	/ClinicalDocument/[IPS CDA recordTarget]/patientRole/patient/administrativeGenderCode
Date of birth	/ClinicalDocument/[IPS CDA recordTarget]/patientRole/patient/birthTime
Patient's preferred language	/ClinicalDocument/[IPS CDA recordTarget]/patientRole/patient/languageCommunication/languageCode
Healthcare related identifiers	see below
Patient identifier	/ClinicalDocument/[IPS CDA recordTarget]/patientRole/id
Insurance information	see below
Insurance identifier	/ClinicalDocument/[IPS CDA recordTarget]/patientRole/id
Patient's Address Book	see below
Preferred healthcare providers	/ClinicalDocument/[IPS Patient Contacts]/code
Healthcare provider (person)	/ClinicalDocument/[IPS Patient Contacts]/associatedEntity/associatedPerson
Healthcare provider Name	/ClinicalDocument/[IPS Patient Contacts]/associatedEntity/associatedPerson/name
Healthcare provider Role	/ClinicalDocument/[IPS Patient Contacts]/associatedEntity/code

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RIPT Data Elements	IPS CDA
Healthcare provider Telecoms	/ClinicalDocument/[IPS Patient Contacts]/associatedEntity/telecom
Healthcare provider (organization)	/ClinicalDocument/[IPS Patient Contacts]/associatedEntity/scopingOrganization
Organization's name	/ClinicalDocument/[IPS Patient Contacts]/associatedEntity/scopingOrganization/name
Organization's Telecoms	/ClinicalDocument/[IPS Patient Contacts]/associatedEntity/telecom
Other's address details	see below
Addressee	/ClinicalDocument/[IPS Patient Contacts]/associatedEntity/associatedPerson /ClinicalDocument/[IPS CDA recordTarget]/patientRole/guardian
Addressee Role	/ClinicalDocument/[IPS Patient Contacts]/associatedEntity/code /ClinicalDocument/[IPS CDA recordTarget]/patientRole/guardian
Addressee Name	/ClinicalDocument/[IPS Patient Contacts]/associatedEntity/associatedPerson/name /ClinicalDocument/[IPS CDA recordTarget]/patientRole/guardianPerson/name
Addressee Address	/ClinicalDocument/[IPS Patient Contacts]/associatedEntity/addr /ClinicalDocument/[IPS CDA recordTarget]/patientRole/guardian/addr
Addressee Telecoms	/ClinicalDocument/[IPS Patient Contacts]/associatedEntity/telecom /ClinicalDocument/[IPS CDA recordTarget]/patientRole/guardian/telecom
Advance Directives Section	/ClinicalDocument/[IPS Advance Directives Section]
Advance Directives	/ClinicalDocument/[IPS Advance Directives Section]
Advance Directive	/ClinicalDocument/[IPS Advance Directives Section]/entry/[IPS Advance Directive Organizer] /ClinicalDocument/[IPS Advance Directives Section]
Person Authorizing Directive	/ClinicalDocument/[IPS Advance Directives Section]/entry/[IPS Advance Directive Organizer]/component/[IPS Advance Directive Observation]/participant /ClinicalDocument/[IPS Advance Directives Section]/entry/[IPS Advance Directive Organizer]/component/[IPS Advance Directive Observation]/author
Person Authorizing Name	/ClinicalDocument/[IPS Advance Directives Section]/entry/[IPS Advance Directive Organizer]/component/[IPS Advance Directive Observation]/participant/participantRole/playingEntity/name /ClinicalDocument/[IPS Advance Directives Section]/entry/[IPS Advance Directive Organizer]/component/[IPS Advance Directive Observation]/author/assignedAuthor/assignedPerson/name
Person Authorizing Role	/ClinicalDocument/[IPS Advance Directives Section]/entry/[IPS Advance Directive Organizer]/component/[IPS Advance Directive Observation]/participant/participantRole/code /ClinicalDocument/[IPS Advance Directives Section]/entry/[IPS Advance Directive Organizer]/component/[IPS Advance Directive Observation]/author/assignedAuthor/code
Person Authorizing Telecoms	/ClinicalDocument/[IPS Advance Directives Section]/entry/[IPS Advance Directive Organizer]/component/[IPS Advance Directive Observation]/participant/participantRole/telecom /ClinicalDocument/[IPS Advance Directives Section]/entry/[IPS Advance Directive Organizer]/component/[IPS Advance Directive Observation]/author/assignedAuthor/telecom

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RIPT Data Elements	IPS CDA
Directive Category	/ClinicalDocument/[IPS Advance Directives Section]/entry/[IPS Advance Directive Organizer]/component/[IPS Advance Directive Observation]/code
Directive Description	/ClinicalDocument/[IPS Advance Directives Section]/text
Reference to Legal Document	/ClinicalDocument/[IPS Advance Directives Section]/entry/[IPS Advance Directive Organizer]/component/[IPS Advance Directive Observation]/reference/externalDocument
Allergies and Intolerances	/ClinicalDocument/[IPS Allergies and Intolerances Section]
Allergies/Intolerances content status	/ClinicalDocument/[IPS Allergies and Intolerances Section]/entry/[IPS Allergy and Intolerance Concern]/entryRelationship/[IPS Allergy or Intolerance]/observation/code
Allergies and Intolerances	/ClinicalDocument/[IPS Allergies and Intolerances Section]/entry/[IPS Allergy and Intolerance Concern]/entryRelationship/[IPS Allergy or Intolerance]
Allergy/Intolerance	/ClinicalDocument/[IPS Allergies and Intolerances Section]/entry/[IPS Allergy and Intolerance Concern]/entryRelationship/[IPS Allergy or Intolerance]
Allergy/Intolerance description	/ClinicalDocument/[IPS Allergies and Intolerances Section]/text
Allergy/Intolerance Clinical status	/ClinicalDocument/[IPS Allergies and Intolerances Section]/entry/[IPS Allergy and Intolerance Concern]/entryRelationship/[IPS Allergy or Intolerance]/entryRelationship/[IPS Allergy Status Observation]/value
Allergy/Intolerance Onset Date	/ClinicalDocument/[IPS Allergies and Intolerances Section]/entry/[IPS Allergy and Intolerance Concern]/entryRelationship/[IPS Allergy or Intolerance]/observation/effectiveTime/low
Allergy/Intolerance End Date	/ClinicalDocument/[IPS Allergies and Intolerances Section]/entry/[IPS Allergy and Intolerance Concern]/entryRelationship/[IPS Allergy or Intolerance]/observation/effectiveTime/high
Allergy/Intolerance Criticality	/ClinicalDocument/[IPS Allergies and Intolerances Section]/entry/[IPS Allergy and Intolerance Concern]/entryRelationship/[IPS Allergy or Intolerance]/entryRelationship/[IPS Criticality Observation]
Allergy/Intolerance Certainty	/ClinicalDocument/[IPS Allergies and Intolerances Section]/entry/[IPS Allergy and Intolerance Concern]/entryRelationship/[IPS Allergy or Intolerance]/entryRelationship/[IPS Allergy Certainty Observation]
Allergy/Intolerance Type of propensity	/ClinicalDocument/[IPS Allergies and Intolerances Section]/entry/[IPS Allergy and Intolerance Concern]/entryRelationship/[IPS Allergy or Intolerance]/observation/code
Allergy/Intolerance Diagnosis	/ClinicalDocument/[IPS Allergies and Intolerances Section]/entry/[IPS Allergy and Intolerance Concern]/entryRelationship/[IPS Allergy or Intolerance]/value
Allergy/Intolerance Reaction	/ClinicalDocument/[IPS Allergies and Intolerances Section]/entry/[IPS Allergy and Intolerance Concern]/entryRelationship/[IPS Allergy or Intolerance]/entryRelationship/[IPS Reaction Manifestation]
Allergy/Intolerance Manifestation of the reaction	/ClinicalDocument/[IPS Allergies and Intolerances Section]/entry/[IPS Allergy and Intolerance Concern]/entryRelationship/[IPS Allergy or Intolerance]/entryRelationship/[IPS Reaction Manifestation]/value
Allergy/Intolerance Severity	/ClinicalDocument/[IPS Allergies and Intolerances Section]/entry/[IPS Allergy and Intolerance Concern]/entryRelationship/[IPS Allergy or Intolerance]/entryRelationship/[IPS Reaction Manifestation]/entryRelationship/[IPS Severity Observation]

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RIPT Data Elements	IPS CDA
Allergy/Intolerance Agent	/ClinicalDocument/[IPS Allergies and Intolerances Section]/entry/[IPS Allergy and Intolerance Concern]/entryRelationship/[IPS Allergy or Intolerance]/participant
Allergy/Intolerance Agent code	/ClinicalDocument/[IPS Allergies and Intolerances Section]/entry/[IPS Allergy and Intolerance Concern]/entryRelationship/[IPS Allergy or Intolerance]/participant/participantRole/playingEntity/code
Allergy/Intolerance Category	/ClinicalDocument/[IPS Allergies and Intolerances Section]/entry/[IPS Allergy and Intolerance Concern]/entryRelationship/[IPS Allergy or Intolerance]/participant/participantRole/playingEntity/code
Functional Status Section	/ClinicalDocument/[IPS Functional Status Section]
Disabilities	/ClinicalDocument/[IPS Functional Status Section]
Disability	/ClinicalDocument/[IPS Functional Status Section]
Disability Description	/ClinicalDocument/[IPS Functional Status Section]/text
Disability Code	/ClinicalDocument/[IPS Functional Status Section]/entry/observation/value
Onset Date	/ClinicalDocument/[IPS Functional Status Section]/entry/observation/effectiveTime/low
Functional assessments (determines autonomy)	/ClinicalDocument/[IPS Functional Status Section]
Functional Assessment (type performed)	/ClinicalDocument/[IPS Functional Status Section]
Functional Assessment description	/ClinicalDocument/[IPS Functional Status Section]/text
Date of assessment	/ClinicalDocument/[IPS Functional Status Section]/entry/[IPS Survey Panel]/effectiveTime /ClinicalDocument/[IPS Functional Status Section]/entry/[IPS Survey Panel]/component/[IPS Survey Observation]/effectiveTime
Functional Assessment Type	/ClinicalDocument/[IPS Functional Status Section]/entry/[IPS Survey Panel]/code /ClinicalDocument/[IPS Functional Status Section]/entry/[IPS Survey Panel]/component/[IPS Survey Observation]/code
Functional Assessment Result	/ClinicalDocument/[IPS Functional Status Section]/entry/[IPS Survey Panel]/component/[IPS Survey Observation]/value
Functional Assessment	/ClinicalDocument/[IPS Functional Status Section]/entry/[IPS Survey Panel]/component/[IPS Survey Observation]
History of Past Problems	/ClinicalDocument/[IPS History of Past Illness Section]
Past problems	/ClinicalDocument/[IPS History of Past Illness Section]/entry/[IPS Problem Concern Entry]
Past problem	/ClinicalDocument/[IPS History of Past Illness Section]/entry/[IPS Problem Concern Entry]
Problem type	/ClinicalDocument/[IPS History of Past Illness Section]/entry/[IPS Problem Concern Entry]/entryRelationship/[IPS Problem Entry]/code
Problem Description	/ClinicalDocument/[IPS History of Past Illness Section]/text
Problem Diagnosis	/ClinicalDocument/[IPS History of Past Illness Section]/entry/[IPS Problem Concern Entry]/entryRelationship/[IPS Problem Entry]/value
Problem Severity	/ClinicalDocument/[IPS History of Past Illness Section]/entry/[IPS Problem Concern Entry]/entryRelationship/[IPS Problem Entry]/entryRelationship/[IPS Severity Observation]

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RIPT Data Elements	IPS CDA
Problem Onset Date	/ClinicalDocument/[IPS History of Past Illness Section]/entry/[IPS Problem Concern Entry]/entryRelationship/[IPS Problem Entry]/effectiveTime/low
Problem Status	/ClinicalDocument/[IPS History of Past Illness Section]/entry/[IPS Problem Concern Entry]/entryRelationship/[IPS Problem Entry]/entryRelationship/[IPS Problem Status Observation]
Date Problem Resolved	/ClinicalDocument/[IPS History of Past Illness Section]/entry/[IPS Problem Concern Entry]/entryRelationship/[IPS Problem Entry]/effectiveTime/high
Specialist Contact for problem	Not explicitly specified (see open issues #41)
History of Pregnancy Section	/ClinicalDocument/[IPS History of Pregnancy Section]
Current pregnancy status	/ClinicalDocument/[IPS History of Pregnancy Section]/entry/[IPS Pregnancy Status Observation]
Pregnancy description	/ClinicalDocument/[IPS History of Pregnancy Section]/text
Pregnancy details	see below
Date of observation	/ClinicalDocument/[IPS History of Pregnancy Section]/entry/[IPS Pregnancy Status Observation]/effectiveTime
Pregnancy state	/ClinicalDocument/[IPS History of Pregnancy Section]/entry/[IPS Pregnancy Status Observation]/value
Expected delivery date	/ClinicalDocument/[IPS History of Pregnancy Section]/entry/[IPS Pregnancy Status Observation]/entryRelationship/[IPS Pregnancy Expected Delivery Date Observation]/value
Specialist contact	Not explicitly specified (see open issues #41)
Previous history of pregnancies	/ClinicalDocument/[IPS History of Pregnancy Section]
Previous pregnancies status	/ClinicalDocument/[IPS History of Pregnancy Section]/entry/[IPS Pregnancy Observation]/value
Previous pregnancies description	/ClinicalDocument/[IPS History of Pregnancy Section]/text
Previous pregnancies	/ClinicalDocument/[IPS History of Pregnancy Section]/entry/[IPS Pregnancy Observation]
Previous pregnancy details	/ClinicalDocument/[IPS History of Pregnancy Section]/entry/[IPS Pregnancy Observation]
Outcome date	/ClinicalDocument/[IPS History of Pregnancy Section]/entry/[IPS Pregnancy Observation]/effectiveTime
Outcome	/ClinicalDocument/[IPS History of Pregnancy Section]/entry/[IPS Pregnancy Observation]/value
Specialist contact	Not explicitly specified (see open issues #41)
Summary metric	/ClinicalDocument/[IPS History of Pregnancy Section]/entry/[IPS Pregnancy Outcome Observation]
History of Procedures	/ClinicalDocument/[IPS History of Procedures Section]
Procedures content status	/ClinicalDocument/[IPS History of Procedures Section]/entry/[IPS Procedure Entry]/code
Procedures	/ClinicalDocument/[IPS History of Procedures Section]/entry/[IPS Procedure Entry]
Procedure	/ClinicalDocument/[IPS History of Procedures Section]/entry/[IPS Procedure Entry]

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RIPT Data Elements	IPS CDA
Procedure code	/ClinicalDocument/[IPS History of Procedures Section]/entry/[IPS Procedure Entry]/code
Procedure description	/ClinicalDocument/[IPS History of Procedures Section]/text
Body site	/ClinicalDocument/[IPS History of Procedures Section]/entry/[IPS Procedure Entry]/targetSiteCode
Procedure date	/ClinicalDocument/[IPS History of Procedures Section]/entry/[IPS Procedure Entry]/effectiveTime
Immunizations	/ClinicalDocument/[IPS Immunizations Section]
Immunizations content status	/ClinicalDocument/[IPS Immunizations Section]/entry/[IPS Immunization]/consumable/[IPS Immunization Medication Information]/manufacturedProduct/manufacturedMaterial/code
Immunizations	/ClinicalDocument/[IPS Immunizations Section]/entry/[IPS Immunization]
Immunization	/ClinicalDocument/[IPS Immunizations Section]/entry/[IPS Immunization]
Vaccine for type of disease	/ClinicalDocument/[IPS Immunizations Section]/entry/[IPS Immunization]/consumable/[IPS Immunization Medication Information]/manufacturedProduct/manufacturedMaterial/code
Target diseases	
Target disease	
Date of immunization	/ClinicalDocument/[IPS Immunizations Section]/entry/[IPS Immunization]/effectiveTime
Product administered	/ClinicalDocument/[IPS Immunizations Section]/entry/[IPS Immunization]/consumable/[IPS Immunization Medication Information]/manufacturedProduct/manufacturedMaterial/code
Brand name	/ClinicalDocument/[IPS Immunizations Section]/entry/[IPS Immunization]/consumable/[IPS Immunization Medication Information]/manufacturedProduct/manufacturedMaterial/code
Product administration process	see below
Performer	/ClinicalDocument/[IPS Immunizations Section]/entry/[IPS Immunization]/performer
Route of administration	/ClinicalDocument/[IPS Immunizations Section]/entry/[IPS Immunization]/routeCode
Medical Devices	/ClinicalDocument/[IPS Medical Devices Section]
Device content status	/ClinicalDocument/[IPS Medical Devices Section]/entry/[IPS Medical Device]/participant/participantRole/playingDevice/code
Devices	/ClinicalDocument/[IPS Medical Devices Section]/entry/[IPS Medical Device]
Device	/ClinicalDocument/[IPS Medical Devices Section]/entry/[IPS Medical Device]
Device type	/ClinicalDocument/[IPS Medical Devices Section]/entry/[IPS Medical Device]/participant/participantRole/playingDevice/code
Device identifier	/ClinicalDocument/[IPS Medical Devices Section]/entry/[IPS Medical Device]/participant/participantRole/id
Use start date	/ClinicalDocument/[IPS Medical Devices Section]/entry/[IPS Medical Device]/effectiveTime/low
Use end date	/ClinicalDocument/[IPS Medical Devices Section]/entry/[IPS Medical Device]/effectiveTime/high

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RIPT Data Elements	IPS CDA
Medication Summary	/ClinicalDocument/[IPS Medication Summary Section]
Medication summary content status	/ClinicalDocument/[IPS Medication Summary Section]/entry/[IPS Medication Statement]/code
Medications	/ClinicalDocument/[IPS Medication Summary Section]/entry/[IPS Medication Statement]
Medication	/ClinicalDocument/[IPS Medication Summary Section]/entry/[IPS Medication Statement]
Reason	/ClinicalDocument/[IPS Medication Summary Section]/entry/[IPS Medication Statement]/entryRelationship/[Indication (V2)]
Medicinal product	/ClinicalDocument/[IPS Medication Summary Section]/entry/[IPS Medication Statement]/consumable/[IPS Medication Information]
Product code	/ClinicalDocument/[IPS Medication Summary Section]/entry/[IPS Medication Statement]/consumable/[IPS Medication Information]/manufacturedMaterial/code
Product common name (and strength)	/ClinicalDocument/[IPS Medication Summary Section]/entry/[IPS Medication Statement]/consumable/[IPS Medication Information]/manufacturedMaterial/asSpecializedKind/name
Pharmaceutical dose form	/ClinicalDocument/[IPS Medication Summary Section]/entry/[IPS Medication Statement]/consumable/[IPS Medication Information]/manufacturedMaterial/formCode
Brand name	/ClinicalDocument/[IPS Medication Summary Section]/entry/[IPS Medication Statement]/consumable/[IPS Medication Information]/manufacturedMaterial/asContent/containerPackagedProduct/name
Active ingredients	/ClinicalDocument/[IPS Medication Summary Section]/entry/[IPS Medication Statement]/consumable/[IPS Medication Information]/manufacturedMaterial/ingredient
Active ingredient	/ClinicalDocument/[IPS Medication Summary Section]/entry/[IPS Medication Statement]/consumable/[IPS Medication Information]/manufacturedMaterial/ingredient
Substance code	/ClinicalDocument/[IPS Medication Summary Section]/entry/[IPS Medication Statement]/consumable/[IPS Medication Information]/manufacturedMaterial/ingredient/ingredientSubstance/code
Strength	/ClinicalDocument/[IPS Medication Summary Section]/entry/[IPS Medication Statement]/consumable/[IPS Medication Information]/manufacturedMaterial/ingredient/quantity
Administration instruction	see below
Instruction	/ClinicalDocument/[IPS Medication Summary Section]/text
Period of medication use	/ClinicalDocument/[IPS Medication Summary Section]/entry/[IPS Medication Statement]/[UV Use Period]
Route of administration	/ClinicalDocument/[IPS Medication Summary Section]/entry/[IPS Medication Statement]/routeCode
Dose instruction	/ClinicalDocument/[IPS Medication Summary Section]/entry/[IPS Medication Statement]/entryRelationship/[IPS Subordinate SubstanceAdministration]
No. of units per intake	/ClinicalDocument/[IPS Medication Summary Section]/entry/[IPS Medication Statement]/entryRelationship/[IPS Subordinate SubstanceAdministration]/doseQuantity

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RIPT Data Elements	IPS CDA
Frequency of intake	/ClinicalDocument/[IPS Medication Summary Section]/entry/[IPS Medication Statement]/entryRelationship/[IPS Subordinate SubstanceAdministration]/effectiveTime
Plan of Care	/ClinicalDocument/[IPS Plan of Care Section]
Plans	/ClinicalDocument/[IPS Plan of Care Section]
Plan	/ClinicalDocument/[IPS Plan of Care Section]
Plan type	Not explicitly specified
Plan date	Not explicitly specified
Plan description	/ClinicalDocument/[IPS Plan of Care Section].text
Recommendations (Core Care Plan)	/ClinicalDocument/[IPS Plan of Care Section]/entry
Recommendation	/ClinicalDocument/[IPS Plan of Care Section]/entry/ [...] (several templates)
Recommendation for treatment	depends on the template used
Given recommendation date	depends on the template used
Applicable date	depends on the template used
Extensive Plan	Not explicitly specified
Problems	/ClinicalDocument/[IPS Problems Section]
Problems content status	/ClinicalDocument/[IPS Problems Section]/entry/[IPS Problem Concern Entry]/entryRelationship/[IPS Problem Entry]/code
Problems	/ClinicalDocument/[IPS Problems Section]/entry/[IPS Problem Concern Entry]
Problem	/ClinicalDocument/[IPS Problems Section]/entry/[IPS Problem Concern Entry]
Problem type	/ClinicalDocument/[IPS Problems Section]/entry/[IPS Problem Concern Entry]/entryRelationship/[IPS Problem Entry]/code
Problem description	/ClinicalDocument/[IPS Problems Section]/text
Diagnosis	/ClinicalDocument/[IPS Problems Section]/entry/[IPS Problem Concern Entry]/entryRelationship/[IPS Problem Entry]/value
Severity	/ClinicalDocument/[IPS Problems Section]/entry/[IPS Problem Concern Entry]/entryRelationship/[IPS Problem Entry]/entryRelationship/[IPS Severity Observation]/value
Onset date	/ClinicalDocument/[IPS Problems Section]/entry/[IPS Problem Concern Entry]/entryRelationship/[IPS Problem Entry]/effectiveTime/low
Problem status	/ClinicalDocument/[IPS Problems Section]/entry/[IPS Problem Concern Entry]/entryRelationship/[IPS Problem Entry]/entryRelationship/[IPS Problem Status Observation]/value
Specialist contact	Not explicitly specified (see open issues #41)
Results	/ClinicalDocument/[IPS Results Section]
Observation results	/ClinicalDocument/[IPS Results Section]/entry/[IPS Result Organizer] /ClinicalDocument/[IPS Results Section]/entry/[IPS Result Organizer]/ [...] (several observation templates)
Observation result	/ClinicalDocument/[IPS Results Section]/entry/[IPS Result Organizer] /ClinicalDocument/[IPS Results Section]/entry/[IPS Result Organizer]/ [...] (several observation templates)

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RIPT Data Elements	IPS CDA
Date of observation	/ClinicalDocument/[IPS Results Section]/entry/[IPS Result Organizer]/effectiveTime /ClinicalDocument/[IPS Results Section]/entry/[IPS Result Organizer]/component/observation/effectiveTime
Observation type	/ClinicalDocument/[IPS Results Section]/entry/[IPS Result Organizer]/code /ClinicalDocument/[IPS Results Section]/entry/[IPS Result Organizer]/component/observation/code
Result description	/ClinicalDocument/[IPS Results Section]/text
Value	/ClinicalDocument/[IPS Results Section]/entry/[IPS Result Organizer]/component/observation/value
Observation result	/ClinicalDocument/[IPS Results Section]/entry/[IPS Result Organizer]/component/observation
Performer	/ClinicalDocument/[IPS Results Section]/entry/[IPS Result Organizer]/performer /ClinicalDocument/[IPS Results Section]/entry/[IPS Result Organizer]/component/observation/performer
Observer	/ClinicalDocument/[IPS Results Section]/entry/[IPS Result Organizer]/author
Social History	/ClinicalDocument/[IPS Social History Section]
Life style factors	/ClinicalDocument/[IPS Social History Section]/entry
Life style factor	/ClinicalDocument/[IPS Social History Section]/entry/ [...] (several observation templates)
Life style factor description	/ClinicalDocument/[IPS Social History Section]/text
Life style factor details	/ClinicalDocument/[IPS Social History Section]/entry/observation/value
Reference date range	/ClinicalDocument/[IPS Social History Section]/entry/observation/effectiveTime
Vital Signs	/ClinicalDocument/[IPS Vital Signs Section]
Vital signs	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]
Vital sign	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]
Date of observation	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/effectiveTime
Observation type	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code
Result description	/ClinicalDocument/[IPS Vital Signs Section].text
Value	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Vital sign	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]
Physician Certification Statement	Reason for Referral
Date Physician Certification Statement Signed	Reason for Referral
Reason for Physician Certification Statement	Coded Reason for Referral
Healthcare Provider Type Signing Physician Certification Statement	Reason for Referral

RIPT Data Elements	IPS CDA
Last Name of Individual Signing Physician Certification Statement	Reason for Referral
First Name of Individual Signing Physician Certification Statement	Reason for Referral

6.3.1.D.5 Referral for Interfacility Patient Transport (RIPT) Document Content Module Specification

- 535 This section specifies the header, section, and entry content modules which comprise the Routine Interfacility Patient Transport (RIPT) Document Content Module, using the Template ID as the key identifier.
- Sections that are used according to the definitions in other specifications are identified with the relevant specification document. Additional constraints on vocabulary value sets, not specifically constrained within the section template, are also identified.
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Table 6.3.1.D.5-1: Referral for Interfacility Patient Transport (RIPT) Document Content Module Specification

Template Name	Referral for Interfacility Patient Transport (RIPT)				
Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.28.1				
Parent Template	International Patient Summary (2.16.840.1.113883.10.22.1.1)				
General Description	Routine Interfacility Patient Transport summary will contain the patient's medical information needed by the transport provider to properly care for the patient during transport.				
Document Code	SHALL BE 77596-5 Code System LOINC (CodeSystem: 2.16.840.1.113883.6.1 LOINC), "Transportation Summary Document"				
Opt and Card	Condition	Header Element or Section Name	Template ID	Specification Document	Vocabulary Constraint
Header Elements					
M [1..*]		author	2.16.840.1.113883.10.22.2.2	HL7 IPS CDA	
M [1..1]		custodian	2.16.840.1.113883.10.22.2.3	HL7 IPS CDA	
M [1..1]		documentationOf	2.16.840.1.113883.10.22.2.6	HL7 IPS CDA	
R [0..1]		legalAuthenticator	2.16.840.1.113883.10.22.2.4	HL7 IPS CDA	
M [1..1]		recordTarget	2.16.840.1.113883.10.22.2.1	HL7 IPS CDA	
R [0..*]		relatedDocument	2.16.840.1.113883.10.22.2.7	HL7 IPS CDA	
R		IPS Patient Contacts	2.16.840.1.113883.10.22.2.5	HL7 IPS CDA	

[0..*]					
RE [0..1]		IPS CDA Organization	2.16.840.1.113883.10.22.9.1	HL7 IPS CDA	PCC: IPS: TF3 - 6.3.2.H.2
RE [0..1]		IPS CDA Person	2.16.840.1.113883.10.22.9.3	HL7 IPS CDA	PCC: IPS: TF3 - 6.3.2.H.3
Sections					
RE [0..1]		IPS Advance Directives	2.16.840.1.113883.10.22.3.12	HL7 IPS CDA	
R [1..1]		IPS Allergies and Intolerances	2.16.840.1.113883.10.22.3.2	HL7 IPS CDA	PCC RIPT-3:6.3.1.D.5.4
RE [0..1]		IPS Functional Status	2.16.840.1.113883.10.22.3.8	HL7 IPS CDA	PCC RIPT-3:6.3.1.D.5.9
R [1..1]		IPS Medication Summary	2.16.840.1.113883.10.22.3.1	HL7 IPS CDA	PCC RIPT-3:6.3.1.D.5.6
R [1..1]		IPS History of Past Illness	2.16.840.1.113883.10.22.3.7	HL7 IPS CDA	
R [1..1]		IPS History of Procedures	2.16.840.1.113883.10.22.3.4	HL7 IPS CDA	PCC RIPT-3:6.3.1.D.5.5
R [1..1]		IPS Immunizations	2.16.840.1.113883.10.22.3.5	HL7 IPS CDA	
R [1..1]		IPS Medical Devices	2.16.840.1.113883.10.22.3.6	HL7 IPS CDA	
R [1..1]		IPS Social History	2.16.840.1.113883.10.22.3.10	HL7 IPS CDA	PCC RIPT-3:6.3.1.D.5.3
R [1..1]		IPS Vital Signs	2.16.840.1.113883.10.22.4.44	HL7 IPS CDA	PCC RIPT-3:6.3.1.D.5.10 PCC RIPT-3:6.3.1.D.5.11
R [1..1]		IPS Problems	2.16.840.1.113883.10.22.3.3	HL7 IPS CDA	PCC RIPT-3:6.3.1.D.5.1
R [1..1]		IPS Results	2.16.840.1.113883.10.22.3.14	HL7 IPS CDA	PCC RIPT-3:6.3.1.D.5.8
R [1..1]		IPS History of Pregnancy	2.16.840.1.113883.10.22.3.11	HL7 IPS CDA	PCC IPS TF - 6.3.3.10.S.3
RE[0..1]		Coded Reason for Referral	1.3.6.1.4.1.19376.1.5.3.1.3.2	PCC TF-2: 6.3.3.1.2	PCC RIPT-6.3.3.10.S1
RE[0..1]		Payer	1.3.6.1.4.1.19376.1.5.3.1.1.5.3. 7	PCC TF-2: 6.3.3.7.1	PCC RIPT-3:6.3.1.D.5.2
RE[0..1]		Transport Instructions	XXXXXX	XXXXX	PCC RIPT-6.3.3.10.S2

6.3.1.D.5.1 Active Problems Constraint

- 545 Within the Active Problems section the Content Creator SHALL be able to create a Problem concern entry (TemplateID 1.3.6.1.4.1.19376.1.5.3.1.4.5.2 [PCC TF-2]) to identify

- Medical/surgical History conditions and findings for the patient being transported. Including behaviors that may affect transport personnel (e.g., combativeness).
- 550 the .../code SHALL be “finding” and .../ value SHALL contain the coded value for the condition using the ICD-10-CM vocabulary.

6.3.1.D.5.2 Payor Constraint

Within the Payor section the Content Creator SHOULD be able to create a Coverage Entry (Template ID 1.3.6.1.4.1.19376.1.5.3.1.4.17 [PCC TF-2]) to identify the payment information for the patient being transported.

- 555 The coverage information SHOULD include:

Optionality	Cardinality	Name	Vocabulary
RE	0..*	Insurance Company Name	
RE	0..1	Insurance Company Billing Priority	
RE	0..1	Insurance Company Address	
RE	0..1	Insurance Company City	
RE	0..1	Insurance Company State	
RE	0..1	Insurance Company Zip code	
RE	0..1	Insurance Company Country	
RE	0..1	Insurance Group ID	
RE	0..1	Insurance Policy ID Number	
RE	0..1	Last Name of the Insured	
RE	0..1	First Name of the Insured	
RE	0..1	Middle initial/name of the Insured	
RE	0..1	Relationship to the Insured	NEMSIS
RE	0..1	Insurance Group Name	

6.3.1.D.5.3 Employer and School Information Constraint

- 560 Within the Employer and School information section the Content Creator SHALL be able to include the following data elements:

Optionality	Cardinality	Name	Vocabulary
RE	0..1	Patient's Employer	
RE	0..1	Patient's Employer's Address	
RE	0..1	Patient's Employer's City	
RE	0..1	Patient's Employer's State	
RE	0..1	Patient's Employer's Zip code	

Optionality	Cardinality	Name	Vocabulary
RE	0..1	Patient's Employer's Country	
RE	0..*	Patient's Employer's Primary Phone Number	NEMSIS

6.3.1.D.5.4 Allergies and Other Adverse Reactions Constraint

Within the Allergies and Other Adverse Reactions section the Content Creator SHALL be able to create an Allergies and Intolerances Concern entry (Template ID 1.3.6.1.4.1.19376.1.5.3.1.4.5.3 [PCC TF-2]) to identify the patient's medication and environmental/food allergies. Environmental/food allergies using SNOMED-CT SHOULD be used to identify the allergen. Medication allergies using RxNorm SHOULD be used to identify an allergy as a specific drug. To indicate an allergy to a class of drug ICD-10 SHOULD be used to indicate an allergy to a class of drug.

6.3.1.D.5.5 Procedures and Other Interventions Constraint

Within the Procedures and Other Interventions section the Content Creator SHALL be able to create a procedure entry (TemplateID 1.3.6.1.4.1.19376.1.5.3.1.4.19 [PCC TF-2]) to identify any procedures the patient has undergone using ICD-10-PCS

575 6.3.1.D.5.6 Medications Section Constraint

Within the Medications section the Content Creator SHALL be able to create a medications entry (TemplateID 1.3.6.1.4.1.19376.1.5.3.1.4.7 [PCC TF-2]) to identify the current medications that have been given to the patient using RxNorm. In a narrative form there SHALL be an indication of the date, and time of the last medication administered to the patient.

580 The entry SHALL include the following elements:

Optionality	Cardinality	Name
RE	0..*	Current Medications
RE	0..1	Current Medication Dose
RE	0..1	Current Medication Dosage Unit
RE	0..1	Current Medication Administration Route

6.3.1.D.5.7 Intake and Output Constraint

Within this optional section, the Intake and Output section the Content Creator SHALL include a narrative of the substance and the effectiveTime to indicate the time and date of the last oral intake.

6.3.1.D.5.8 Diagnostic findings Constraint

Within the Diagnostic Findings section SHALL include the narrative results of the Cardiac Rhythm / Electrocardiography (ECG) test, if known.

590 **6.3.1.D.5.9 Coded Results Constraint**

Within the Coded Results section the Content Creator SHALL be able to create a Coded Result entry (TemplateID 1.3.6.1.4.1.19376.1.5.3.1.3.28 [PCC TF-2]) that will include the type and method of the Cardiac Rhythm / Electrocardiography (ECG) test interpretation, if known.

6.3.1.D.5.10 Coded Vital Signs Constraint

595 Within the Coded Vital Signs section the Content Creator SHALL be able to create a Vital signs observation entries (TemplateID 1.3.6.1.4.1.19376.1.5.3.1.4.13.2 [PCC TF-2]) for the following vital signs:

Optionality	Cardinality	Name	LOINC	Constraint
RE	0..1	SBP (Systolic Blood Pressure)	8480-6	Indicating Method using valuesett from BloodPressureMeasurementMethod 2.16.840.1.113883.17.3.11.107
RE	0..1	DBP (Diastolic Blood Pressure)	8462-4	Indicating Method using valueset from BloodPressureMeasurementMethod 2.16.840.1.113883.17.3.11.107
RE	0..1	Mean Arterial Pressure	8478-0	Indicating Method using valuesett from BloodPressureMeasurementMethod 2.16.840.1.113883.17.3.11.107
RE	0..1	Heart Rate	8867-4	Indicating the method or heat rate measurement using 8886-4
RE	0..1	Pulse Oximetry	2710-2	
RE	0..1	Pulse Rhythm	44974-4	
RE	0..1	Respiratory Rate	9279-1	
RE	0..1	Respiratory Effort	80341-1	
RE	0..1	End Ttitle Carbon Dioxide (ETCO2)	19889-5	
RE	0..1	Carbon Monoxide (CO)	20563-3	
RE	0..1	Blood Glucose Level	2339-0	
RE	0..1	Glasgow Coma Score-Eye	9267-6	
RE	0..1	Glasgow Coma Score-Verbal	9270-0	

Optionality	Cardinality	Name	LOINC	Constraint
RE	0..1	Glasgow Coma Score-Motor	9268-4	
RE	0..1	Glasgow Coma Score-Qualifier	55285-1	
RE	0..1	Total Glasgow Coma Score	9269-2	
RE	0..1	Temperature	8310-5	
RE	0..1	Temperature Method	8327-9	
RE	0..1	Level of Responsiveness (AVPU)	11454-6	
RE	0..1	Pain Scale Score	38208-5	
RE	0..1	Pain Scale Type	80316-3	
RE	0..1	Stroke Scale Score	72089-6	
RE	0..1	Stroke Scale Type	67521-5	
RE	0..1	Reperfusion Checklist	67523-1	
RE	0..1	APGAR 1 minute 5 minute 10 Minute	48334-7 48333-9 48332-1	
RE	0..1	Revised Trauma Score	Pending	
RE	0..1	Estimated Body Weight in Kilograms	3141-9	
RE	0..1	Length Based Tape Measure	8302-2	

600 6.3.1.D.5.11 Coded Detailed Physical Exam Constraint

Within the Coded Detailed Physical Exam section the Content Creator SHALL be able to create the following subsections:

Optionality	Cardinality	Name
RE	0..1	Coded Detailed Physical Examination Section
RE	0..1	Integumentary System Section
RE	0..1	Head
RE	0..1	Ears, Nose, Mouth, and Throat Section
RE	0..1	Neck
RE	0..1	Thorax and Lungs
RE	0..1	Heart
RE	0..1	Abdomen

Optionality	Cardinality	Name
RE	0..1	Abdominal Assessment Finding Location
RE	0..1	Abdomen Assessment
RE	0..1	Genitalia
RE	0..1	Back and Spine Assessment Finding Location
RE	0..1	Back and Spine Assessment
RE	0..1	Extremity Assessment Finding Location
RE	0..1	Extremities Assessment
RE	0..1	Eye Assessment Finding Location
RE	0..1	Eye Assessment
RE	0..1	Neurologic System

605 **6.3.1.D.5.12 Coded Event Outcome Constraint**

Within the Coded Event Outcome section the Content Creator SHALL be able to create a Patient Transfer entry (Template ID 1.3.6.1.4.1.19376.1.5.3.1.1.25.1.4.1 [PCC TF-2]) to identify the destination facility for the patient, expressing the address in: .../participant/participantRole/addr

The address SHALL support the following elements:

610

Optionality	Cardinality	Name
RE	0..1	Destination Street Address
RE	1..1	Destination City
R	1..1	Destination State
R	1..1	Destination County
R	1..1	Destination ZIP Code
RE	1..1	Destination Country

6.3.1.D.6 Referral for Interfacility Patient Transport (RIPT) Conformance

615

CDA Release 2.0 documents that conform to the requirements of this document content module shall indicate their conformance by the inclusion of the <templateId> XML elements in the header of the document.

A CDA Document may conform to more than one template. This content module inherits from the Medical summary (1.3.6.1.4.1.19376.1.5.3.1.1.2) and so must conform to the requirements of those templates as well this document specification, Referral for Interfacility Patient Transport Document (TemplateID).

620

Add to Section 6.3.2 Header Content Modules

6.3.2 CDA Header Content Modules

No new Header Elements.

6.3.3 CDA Section Content Modules

625

Add to Section 6.3.3.10 Section Content Modules

6.3.3.10.S1 Certification of Medical Necessity - Section Content Module

Table 6.3.3.10.S1-1: Certification of Medical Necessity Section

Template Name	Certification of Medical Necessity				
Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.13.2.12				
Parent Template	None				
General Description	Indication of whether a physician certification statement (PCS) is available documenting the medical necessity for the EMS encounter. The Certification of Medical Necessity section includes the information necessary to document the justification for the medical transport, including the name and role of the person authorizing the medical transport. This information can be used to generate a Certificate of Medical Necessity (CMN) document for signature.				
Section Code	52016-3, LOINC, “Ambulance transport, Physician certification for transport information Set”				
Author	Patient's doctor or physician				
Informant	Patient's nurse or discharge planner				
Subject	current recordTarget				
Opt and Card	Condition	Data Element or Section Name	Template ID	Specification Document	Vocabulary Constraint
Entries					
R [1..1]		Medical Necessity Entry	1.3.6.1.4.1.19376.1.5.3.1.4.23	PCC TF-3: 6.3.4.E	

6.3.3.10.S2 Transport Instructions - Section Content Module

630

Table 6.3.3.10.S2-1: Transport Instructions Section

Template Name Transport Instructions					
Template ID 1.3.6.1.4.1.19376.1.5.3.1.1.26.1.7					
Parent Template None					
General Description This section contains narrative information provided by the patient's care provider(s) to indicate any care that should be rendered during the transport.					
Section Code 74213-0, LOINC, "Discharge instructions"					
Author Patient's care provider(s)					
Informant Patient's nurse or discharge planner					
Subject current recordTarget					
Opt and Card	Condition	Data Element or Section Name	Template ID	Specification Document	Vocabulary Constraint
Entries					
None					

6.3.4 CDA Entry Content Modules

Add to Section 6.3.4.E Entry Content Modules

6.3.4.E Medical Necessity Entry 1.3.6.1.4.1.19376.

635

The Medical Necessity observation is a Simple Observation that records the Reason for Physician Certification Statement.

6.3.4.E.1 Specification

```

<observation classCode='OBS' moodCode='EVN'>
  <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.13'>
    <templateId root='1.3.6.1.4.1.19376.'/>
    <id root='' extension=''/>
    <code code='15515-0' displayName='Ambulance transport, Medical reason for transport' codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC' />
    <text><reference value='#xxx' /></text>
    <value xsi:type='CE' />
    <effectiveTime value=''/>
    <performer typeCode='PRF'>
      <assignedEntity>
        <code></code>
        <assignedPerson><name></name></assignedPerson>
      </assignedEntity>
    </performer>
  </observation>

```

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645

650

6.3.4.E.1.1 moodCode='EVN'>

- 655 The Medical Necessity is recorded in an observation element, to describe the patient's medical necessity taken during the encounter. In event mood (moodCode='EVN'), this records the Medical Necessity.

6.3.4.E.1.2 <templateId root='1.3.6.1.4.1.19376.1.5.3/>

- 660 The templateId indicates that this Medical Necessity entry conforms to the constraints of this content module.

6.3.4.E.1.3 <id root=" extension="/>

This required element shall contain an identifier.

6.3.4.E.1.4 <code code="" displayName="" codeSystem="" codeSystemName="" />

- 665 This required element indicates the medical reason for ambulance transport. The code be 15515-0, LOINC, “Ambulance transport, Medical reason for transport”.

6.3.4.E.1.5 <value xsi:type='CE' .../>

The <value> element shall be present, and shall the coded reason for transport.

6.3.4.E.1.6 <text><reference value='#xxx' /></text>

The <text> element shall contain a narrative of the physician medical necessity statement.

670 **6.3.4.E.1.7 <effectiveTime><low value="/" /><effectiveTime/>**

This <low> element records the time and date that the Physician Certification Statement was signed.

6.3.4.E.1.8 <performer typeCode='PRF'> <assignedEntity><assignedPerson><name></assignedPerson></assignedEntity></performer>

- 675 The <performer> element shall be present, representing the Name of Individual Signing Physician Certification Statement in the <assignedEntity><assignedPerson><name> element.

6.3.4.E.1.9 <performer> <assignedEntity><code> </assignedEntity></performer>

The <performer> element shall be present representing the healthcare provider type of the individual signing the Physician Certification Statement in the <assignedEntity><code> element.

680 **6.3.4.E.1.10 <entryRelationship typeCode='DRIV'>**

Observations of Medical Necessity should provide an indication of whether a physician certification statement (PCS) is available documenting the medical necessity for the EMS encounter.

6.3.4.E.1.11 <observation> <templateId root=' '/></observation>

685 An observation of whether a physician certification statement (PCS) is available SHALL be included if known.

**6.3.4.E.1.12 <code code='52018-9' displayName='Ambulance transport, Physician certification for transport indicator' codeSystem='2.16.840.1.113883.6.1'>
codeSystemName='LOINC'**

690 This observation is an indication of whether a physician certification statement (PCS) is available documenting the medical necessity or the EMS encounter as indicated by the <code> element.

6.3.4.E.1.13 <value xsi:type='BL' value='true|false'>

695 The observation of whether a physician certification statement (PCS) is available may include a <value> element using the Boolean (xsi:type=' BL') data type to indicate simply whether or not the statement exists.

6.3.4.E.1.14 <reference typeCode='REFR'><externalDocument classCode='DOC' moodCode='EVN'><id root=' ' extension=' '/><text><reference value=' '/></text>

700 The observation of whether a physician certification statement (PCS) is available may contain a single reference to an external document. That reference shall be recorded as shown above. The <id> element shall contain the appropriate root and extension attributes to identify the document. The <text> element may be present to provide a URL link to the document in the value attribute of the <reference> element. If the <reference> element is present, the PCS in the narrative shall contain a <linkHTML> element to the same URL found in the value attribute.

705 **6.4 Section not applicable**

This heading is not currently used in a CDA document.

Add to Section 6.5 Value Sets

710

6.5 Transport Reason Value Sets

6.5.1 Transport Reason 1.3.6.1.4.1.19376.1.5.3.1.1.13.2.13

Coding Scheme	SNOMED-CT
160685001	Bed-ridden

Coding Scheme	SNOMED-CT
23852006	Cardiac monitoring (regime/therapy)
716777001	Hemodynamic monitoring (regime/therapy)
419284004	Altered mental status (finding)
67722007	At risk for joint contractures (finding)
65108000	At risk for joint contractures (finding)
225999004	At risk for violence (finding)
86340006	At risk of deep vein thrombosis (finding)
425423002	Intravenous therapy (regime/therapy)
238136002	Pain provoked by movement (finding)
134291007	Morbid obesity (disorder)
373062004	Multiple fractures (disorder)
225602000	Device used (finding)
35497000	Restraint maintenance (procedure)
26544005	Unable to sit unsupported (finding)
40174006	Muscle weakness (finding)
707808001	Isolation procedure (procedure)
410204009	Oxygen therapy support (regime/therapy)
62330004	Oxygen therapy management (procedure)
722179007	Decreased muscle function (finding)
225563000	Dependent for sitting (finding)
160685001	Pressure ulcer of buttock (disorder)

715 6.6 HL7 FHIR Content Module

6.6.X.1 FHIR Resource Bundle Content

These are the FHIR resource locations and structure definitions of the resources where the data elements are located.

FHIR Resource location	Optionality	Cardinality	Structured Definition
Composition	R	1..1	http://ihe.net/fhir/StructureDefinition/IHE.PCC.RIPT.Composition
Patient	R	1..1	http://build.fhir.org/ig/HL7/fhir-ips/StructureDefinition-Patient-uv-
Condition	RE	0..*	http://build.fhir.org/ig/HL7/fhir-ips/StructureDefinition-Condition-uv-
Procedure	RE	0..*	http://build.fhir.org/ig/HL7/fhir-ips/StructureDefinition-Procedure-uv-
Medication Statement	RE	0..*	http://build.fhir.org/ig/HL7/fhir-ips/StructureDefinition-MedicationStatement-uv-

FHIR Resource location	Optionality	Cardinality	Structured Definition
Allergy Intolerance	RE	0..*	http://build.fhir.org/ig/HL7/fhir-ips/StructureDefinition-AllergyIntolerance-uv-
Device	RE	0..1*	http://build.fhir.org/ig/HL7/fhir-ips/StructureDefinition-DeviceUseStatement-uv-
History of procedures	RE	0..1	http://build.fhir.org/ig/HL7/fhir-ips/StructureDefinition-Procedure-uv-ips.html
Immunizations	RE	0..1	http://build.fhir.org/ig/HL7/fhir-ips/StructureDefinition-Immunization-uv-ips.html
Observation Results	RE	0..1	http://build.fhir.org/ig/HL7/fhir-ips/StructureDefinition-Observation-results-uv-ips.html
Vital Signs	RE	0..1	http://hl7.org/fhir/R4/vitalsigns.html
Social History	RE	0..1	http://build.fhir.org/ig/HL7/fhir-ips/StructureDefinition-Observation-tobaccouse-uv-ips.html
Pregnancy Status	RE	0..1	http://build.fhir.org/ig/HL7/fhir-ips/StructureDefinition-Observation-pregnancy-status-uv-ips.html
Advance directives	RE	0..1	http://ihe.net/fhir/StructureDefinition/IHE.PCC.PCS.Conent
ServiceRequest	R	0..1	http://ihe.net/fhir/StructureDefinition/IHE.PCC.RIPT.ServiceRequest
Coverage	RE	0..*	http://ihe.net/fhir/StructureDefinition/IHE.PCC.RIPT.Coverage

720 6.6.X.1.2 FHIR Resource Data Specifications

The following table shows the mapping of the FHIR Resources supporting the content for the Transport Summary data Elements/Attributes.

NEMSIS Data Element	Cardinality	FHIR Resource location	Constraint
Last name	RE [0..1]	Patient:PatientUvIps.identifier	
First name	RE [0..1]	Patient:PatientUvIps.name	
middle initial	RE [0..1]	Patient:PatientUvIps.name	
home address	RE [0..1]	Patient:PatientUvIps.name	
home city	RE [0..1]	Patient:PatientUvIps.address	
home country	RE [0..1]	Patient:PatientUvIps.address	
home state	RE [0..1]	Patient:PatientUvIps.address	
home zip code	RE [0..1]	Patient:PatientUvIps.address	
country of residence	RE [0..1]	Patient:PatientUvIps.address	
home census tract	O [0..1]	Patient:PatientUvIps.address	
social security number	O [0..1]	Patient:PatientUvIps.identifier	
gender	RE [0..1]	Patient:PatientUvIps.gender	

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NEMSIS Data Element	Cardinality	FHIR Resource location	Constraint
race	O [0..1]	Patient.extension(us-core-race)	When used in the Unites States this element is required if known
Age	RE [0..1]	Patient:PatientUvIps.birthDate	
Age Units	RE [0..1]	Patient:PatientUvIps.birthDate	
Date of Birth	RE [0..1]	Patient:PatientUvIps.birthDate	
Patient's Phone Number	O [0..1]	Patient:PatientUvIps.telecom	
Patient's email	O [0..1]	Patient:PatientUvIps.telecom	
State Issuing Driver's License	O [0..1]	Patient:PatientUvIps.identifier	
Driver's License Number	O [0..1]	Patient:PatientUvIps.identifier	
Alternate Home Residence	O [0..1]	Patient:PatientUvIps.	
Primary Method of Payment	RE [0..1]	Coverage.type	
Document type: Certificate of medical necessity (CMN)	RE [0..1]	Servicerequest.reasonRefrence: DocumentReference	Where code is LOINC = 52016-3 Ambulance transport, Physician certification for transport Information set)
Physician Certification Statement Signed	RE [0..1]	Servicerequest.reasonRefrence: DocumentReference.content.attachment	Where code is LOINC = 52017-1 Ambulance transport, Physician certification for transport statement (narrative)Ambulance transport
Date Physician Certification Statement Signed	RE [0..1]	Servicerequest.reasonRefrence: DocumentReference.context.period	
Reason for Physician Certification Statement	RE [0..*]	Servicerequest.reasonCode	
Healthcare Provider Type Signing Physician Certification Statement	RE [0..1]	Servicerequest.reasonRefrence: DocumentReference.context.related: PractitionerRole.code	
Last Name of Individual Signing Physician Certification Statement	RE [0..1]	Servicerequest.reasonRefrence: DocumentReference.context.related: Practitioner.name	
First Name of Individual Signing Physician Certification Statement	RE [0..1]	Servicerequest.reasonRefrence: DocumentReference.context.related: Practitioner.name	
Insurance Company ID	RE [0..1]	Coverage.payor:Organization.idetifier	
Insurance Company Name	RE [0..1]	Coverage.payor:Organization.name	
Insurance Company Billing Priority	RE [0..1]	Coverage.type	

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NEMSIS Data Element	Cardinality	FHIR Resource location	Constraint
Insurance Company Address	RE [0..1]	Coverage.payor:Organization.address	
Insurance Company City	RE [0..1]	Coverage.payor:Organization.address	
Insurance Company State	RE [0..1]	Coverage.payor:Organization.address	
Insurance Company Zipcode	RE [0..1]	Coverage.payor:Organization.address	
Insurance Company Country	RE [0..1]	Coverage.payor:Organization.address	
Insurance Group ID	RE [0..1]	Coverage.class.value	
Insurance Policy ID Number	RE [0..1]	Coverage.class.value	
Last Name of the Insured	RE [0..1]	Coverage.policyHolder:Patient.name Coverage.policyHolder:RelatedPerson.name	When policyholder name is not the same as the patient then SHALL use the Related person name resource
First Name of the Insured	RE [0..1]	Coverage.policyHolder:Patient.name Coverage.policyHolder:RelatedPerson.name	When policyholder name is not the same as the patient then SHALL use the Related person name resource
Middle initial/name of the Insured	RE [0..1]	Coverage.policyHolder:Patient.name Coverage.policyHolder:RelatedPerson.name	When policyholder name is not the same as the patient then SHALL use the Related person name resource
Relationship to the Insured	RE [0..1]	Coverage.relationship	
Insurance Group Name	RE [0..1]	Coverage.class.name	
Closest Relative/Guardian Last Name	RE [0..1]	Patient:PatientUvIps.contact.name	
Closest Relative/Guardian First Name	RE [0..1]	Patient:PatientUvIps.contact.name	
Closest Relative/Guardian Middle Initial/Name	RE [0..1]	Patient:PatientUvIps.contact.name	
Closest Relative/Guardian Street Address	RE [0..1]	Patient:PatientUvIps.contact.address	
Closest Relative/Guardian City	RE [0..1]	Patient:PatientUvIps.contact.address	
Closest Relative/Guardian State	RE [0..1]	Patient:PatientUvIps.contact.address	
Closest Relative/Guardian Zip Code	RE [0..1]	Patient:PatientUvIps.contact.address	
Closest Relative/Guardian Country	RE [0..1]	Patient:PatientUvIps.contact.address	
Closest Relative/Guardian Phone Number	RE [0..1]	Patient:PatientUvIps.contact.telecom	

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NEMSIS Data Element	Cardinality	FHIR Resource location	Constraint
Closest Relative/Guardian Relationship	RE [0..1]	Patient:PatientUvIps.contact.relationship	
Patient's Employer	O [0..1]	Patient:PatientUvIps.contact.name	
Patient's Employer's Address	O [0..1]	Patient:PatientUvIps.contact.address	
Patient's Employer's City	O [0..1]	Patient:PatientUvIps.contact.address	
Patient's Employer's State	O [0..1]	Patient:PatientUvIps.contact.address	
Patient's Employer's Zip Code	O [0..1]	Patient:PatientUvIps.contact.address	
Patient's Employer's Country	O [0..1]	Patient:PatientUvIps.contact.address	
Patient's Employer's Primary Phone Number	O [0..1]	Patient:PatientUvIps.contact.telecom	
Last Name of Patient's Practitioner	RE [0..1]	Patient:PatientUvIps.generalPractitioner.name	
First Name of Patient's Practitioner	RE [0..1]	Patient:PatientUvIps.generalPractitioner.name	
Middle Initial/Name of Patient's Practitioner	RE [0..1]	Patient:PatientUvIps.generalPractitioner.name	
Advanced Directives	RE [0..1]	Composition.section:sectionAdvanceDirectives	
Medication Allergies	RE [0..*]	Composition.section:sectionAllergies.entry:allergyOrIntolerance	
Environmental/Food Allergies	RE [0..*]	Composition.section:sectionAllergies.entry:allergyOrIntolerance	
Medical/Surgical History	RE [0..*]	"Composition.section:sectionPastIllnessHx.entry:pastProblem Composition.section:sectionProceduresHx.entry:procedure"	
The Patient's Type of Immunization	O [0..1]	Composition.section:sectionImmunizations.entry:immunization.vaccineCode	
Immunization Year	O [0..1]	Composition.section:sectionImmunizations.entry:immunization occurrenceDate	
Current Medications	RE [0..1]	Composition.section:sectionMedications.entry:medicationStatement	
Current Medication Dose	RE [0..1]	Composition.section:sectionMedications.entry:medicationStatement.dosage.doseAndRate.dose[x]	
Current Medication Dosage Unit	RE [0..1]	Composition.section:sectionMedications.entry:medicationStatement.dosage.doseAndRate.dose[x]	
Current Medication Administration Route	RE [0..1]	Composition.section:sectionMedications.entry:medicationStatement.dosage.route	
Current Medication Frequency	RE [0..1]	Composition.section:sectionMedications.entry:medicationStatement.dosage.timing	
Presence of Emergency Information Form	O [0..1]	Encounter ← Observation.value[x]	

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NEMSIS Data Element	Cardinality	FHIR Resource location	Constraint
Alcohol/Drug Use Indicators	O [0..1]	Encounter ← Observation.value[x]	
Last Oral Intake	O [0..1]	Encounter ← Observation.value[x]	
Pregnancy	RE [0..1]	Composition.section:sectionPregnancyHx.entry:pregnancyStatus	
Date/Time Vital Signs Taken	RE [0..1]	Composition.section:sectionVitalSigns.entry:vitalSign.effective[x]	
Cardiac Rhythm / Electrocardiography (ECG)	RE [0..1]	"Composition.section:sectionVitalSigns.entry:vitalSign.value[x]"	
ECG Type	RE [0..1]	Composition.section:sectionVitalSigns.entry:vitalSign.component.value[x]"	
Method of ECG Interpretation	RE [0..1]	N/A	
SBP (Systolic Blood Pressure)	RE [0..1]	Composition.section:sectionVitalSigns.entry:vitalSign.code	
DBP (Diastolic Blood Pressure)	RE [0..1]	Composition.section:sectionVitalSigns.entry:vitalSign.value[x]	
Method of Blood Pressure Measurement	RE [0..1]	N/A	
Mean Arterial Pressure	RE [0..1]	Composition.section:sectionVitalSigns.entry:vitalSign.code	
Heart Rate	RE [0..1]	Composition.section:sectionVitalSigns.entry:vitalSign.value[x]	
Method of Heart Rate Measurement	RE [0..1]	N/A	
Pulse Oximetry	RE [0..1]	Composition.section:sectionVitalSigns.entry:vitalSign.code	
Pulse Rhythm	RE [0..1]	Composition.section:sectionVitalSigns.entry:vitalSign.value[x]	
Respiratory Rate	RE [0..1]	Composition.section:sectionVitalSigns.entry:vitalSign.component.value[x]	
Respiratory Effort	RE [0..1]	Composition.section:sectionVitalSigns.entry:vitalSign.code	
End Tidal Carbon Dioxide (ETCO2)	RE [0..1]	Composition.section:sectionVitalSigns.entry:vitalSign.value[x]	
Carbon Monoxide (CO)	RE [0..1]	Composition.section:sectionVitalSigns.entry:vitalSign.component.value[x]	
Blood Glucose Level	RE [0..1]	Composition.section:sectionVitalSigns.entry:vitalSign.code	
Glasgow Coma Score-Eye	RE [0..1]	Composition.section:sectionVitalSigns.entry:vitalSign.value[x]	
Glasgow Coma Score-Verbal	RE [0..1]	Composition.section:sectionVitalSigns.entry:vitalSign.component.value[x]	

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NEMSIS Data Element	Cardinality	FHIR Resource location	Constraint
Glasgow Coma Score-Motor	RE [0..1]	Composition.section:sectionVitalSigns.entry: vitalSign.code Composition.section:sectionVitalSigns.entry: vitalSign.value[x] Composition.section:sectionVitalSigns.entry: vitalSign.component.value[x]	
Glasgow Coma Score-Qualifier	RE [0..1]	Composition.section:sectionVitalSigns.entry: vitalSign.code Composition.section:sectionVitalSigns.entry: vitalSign.value[x] Composition.section:sectionVitalSigns.entry: vitalSign.component.value[x]	
Total Glasgow Coma Score	RE [0..1]	Composition.section:sectionVitalSigns.entry: vitalSign.code Composition.section:sectionVitalSigns.entry: vitalSign.value[x] Composition.section:sectionVitalSigns.entry: vitalSign.component.value[x]	
Temperature	RE [0..1]	Composition.section:sectionVitalSigns.entry: vitalSign.code Composition.section:sectionVitalSigns.entry: vitalSign.value[x] Composition.section:sectionVitalSigns.entry: vitalSign.component.value[x]	
Temperature Method	RE [0..1]	Composition.section:sectionVitalSigns.entry: vitalSign.code Composition.section:sectionVitalSigns.entry: vitalSign.value[x] Composition.section:sectionVitalSigns.entry: vitalSign.component.value[x]	
Level of Responsiveness (AVPU)	RE [0..1]	Composition.section:sectionVitalSigns.entry: vitalSign.code Composition.section:sectionVitalSigns.entry: vitalSign.value[x] Composition.section:sectionVitalSigns.entry: vitalSign.component.value[x]	
Pain Scale Score	RE [0..1]	Composition.section:sectionVitalSigns.entry: vitalSign.code Composition.section:sectionVitalSigns.entry: vitalSign.value[x] Composition.section:sectionVitalSigns.entry: vitalSign.component.value[x]	
Pain Scale Type	RE [0..1]	Composition.section:sectionVitalSigns.entry: vitalSign.code Composition.section:sectionVitalSigns.entry: vitalSign.value[x] Composition.section:sectionVitalSigns.entry: vitalSign.component.value[x]	

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NEMSIS Data Element	Cardinality	FHIR Resource location	Constraint
Stroke Scale Score	RE [0..1]	Composition.section:sectionVitalSigns.entry:vitalSign.code Composition.section:sectionVitalSigns.entry:vitalSign.value[x] Composition.section:sectionVitalSigns.entry:vitalSign.component.value[x]	
Stroke Scale Type	RE [0..1]	Composition.section:sectionVitalSigns.entry:vitalSign.code Composition.section:sectionVitalSigns.entry:vitalSign.value[x] Composition.section:sectionVitalSigns.entry:vitalSign.component.value[x]	
Reperfusion Checklist	RE [0..1]	Composition.section:sectionVitalSigns.entry:vitalSign.code Composition.section:sectionVitalSigns.entry:vitalSign.value[x] Composition.section:sectionVitalSigns.entry:vitalSign.component.value[x]	
APGAR	RE [0..1]	Composition.section:sectionVitalSigns.entry:vitalSign.code Composition.section:sectionVitalSigns.entry:vitalSign.value[x] Composition.section:sectionVitalSigns.entry:vitalSign.component.value[x]	
Revised Trauma Score	RE [0..1]	Composition.section:sectionVitalSigns.entry:vitalSign.code Composition.section:sectionVitalSigns.entry:vitalSign.value[x] Composition.section:sectionVitalSigns.entry:vitalSign.component.value[x]	
Date/Time of Laboratory or Imaging Result	RE [0..1]	Composition.section:sectionResults.entry:Observation.effective[x] Composition.section:sectionResults.entry:results-diagnosticReport.result:observation-results.effective[x]	
Study/Result Prior to this Unit's EMS Care	RE [0..1]	Composition.section:sectionResults.entry:Observation.effective[x] Composition.section:sectionResults.entry:results-diagnosticReport.result:observation-results.effective[x]	
Laboratory Result Type	RE [0..1]	Composition.section:sectionResults.entry:results-observation.category Composition.section:sectionResults.entry:results-diagnosticReport.result:observation-results.code	

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NEMSIS Data Element	Cardinality	FHIR Resource location	Constraint
Laboratory Result	RE [0..1]	Composition.section:sectionResults.text Composition.section:sectionResults.entry:Observation.text Composition.section:sectionResults.entry:results-observation.value[x] Composition.section:sectionResults.entry:results-diagnosticReport.result:observation-results.value[x]	
Imaging Study Type	RE [0..1]	Composition.section:sectionResults.entry:results-observation.category Composition.section:sectionResults.entry:results-diagnosticReport.result:observation-results.code	
Imaging Study Results	RE [0..1]	Composition.section:sectionResults.text Composition.section:sectionResults.entry:Observation.text Composition.section:sectionResults.entry:results-observation.value[x] Composition.section:sectionResults.entry:results-diagnosticReport.result:observation-results.value[x]	
Imaging Study File or Waveform Graphic Type	RE [0..1]	N/A	
Imaging Study File or Waveform Graphic	RE [0..1]	N/A	
Estimated Body Weight in Kilograms	RE [0..1]	Composition.section:sectionVitalSigns.entry:vitalSign.code Composition.section:sectionVitalSigns.entry:vitalSign.value[x] Composition.section:sectionVitalSigns.entry:vitalSign.component.value[x]	
Length Based Tape Measure	RE [0..1]	Composition.section:sectionVitalSigns.entry:vitalSign.code Composition.section:sectionVitalSigns.entry:vitalSign.value[x] Composition.section:sectionVitalSigns.entry:vitalSign.component.value[x]	
Date/Time of Assessment	RE [0..1]	Composition.section:sectionVitalSigns.entry:vitalSign.code Composition.section:sectionVitalSigns.entry:vitalSign.value[x] Composition.section:sectionVitalSigns.entry:vitalSign.component.value[x]	
Skin Assessment	RE [0..1]	Composition.section:sectionVitalSigns.entry:vitalSign.code Composition.section:sectionVitalSigns.entry:vitalSign.value[x] Composition.section:sectionVitalSigns.entry:vitalSign.component.value[x]	

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NEMSIS Data Element	Cardinality	FHIR Resource location	Constraint
Head Assessment	RE [0..1]	Composition.section:sectionVitalSigns.entry: vitalSign.code Composition.section:sectionVitalSigns.entry: vitalSign.value[x] Composition.section:sectionVitalSigns.entry: vitalSign.component.value[x]	
Face Assessment	RE [0..1]	Composition.section:sectionVitalSigns.entry: vitalSign.code Composition.section:sectionVitalSigns.entry: vitalSign.value[x] Composition.section:sectionVitalSigns.entry: vitalSign.component.value[x]	
Neck Assessment	RE [0..1]	Composition.section:sectionVitalSigns.entry: vitalSign.code Composition.section:sectionVitalSigns.entry: vitalSign.value[x] Composition.section:sectionVitalSigns.entry: vitalSign.component.value[x]	
Chest/Lungs Assessment	RE [0..1]	Composition.section:sectionVitalSigns.entry: vitalSign.code Composition.section:sectionVitalSigns.entry: vitalSign.value[x] Composition.section:sectionVitalSigns.entry: vitalSign.component.value[x]	
Heart Assessment	RE [0..1]	Composition.section:sectionVitalSigns.entry: vitalSign.code Composition.section:sectionVitalSigns.entry: vitalSign.value[x] Composition.section:sectionVitalSigns.entry: vitalSign.component.value[x]	
Abdominal Assessment Finding Location	RE [0..1]	Composition.section:sectionVitalSigns.entry: vitalSign.code Composition.section:sectionVitalSigns.entry: vitalSign.value[x] Composition.section:sectionVitalSigns.entry: vitalSign.component.value[x]	
Abdominal Assessment Finding Location	RE [0..1]	Composition.section:sectionVitalSigns.entry: vitalSign.code Composition.section:sectionVitalSigns.entry: vitalSign.value[x] Composition.section:sectionVitalSigns.entry: vitalSign.component.value[x]	
Abdomen Assessment	RE [0..1]	Composition.section:sectionVitalSigns.entry: vitalSign.code Composition.section:sectionVitalSigns.entry: vitalSign.value[x] Composition.section:sectionVitalSigns.entry: vitalSign.component.value[x]	

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NEMSIS Data Element	Cardinality	FHIR Resource location	Constraint
Pelvis/Genitourinary Assessment	RE [0..1]	Composition.section:sectionVitalSigns.entry: vitalSign.code Composition.section:sectionVitalSigns.entry: vitalSign.value[x] Composition.section:sectionVitalSigns.entry: vitalSign.component.value[x]	
Back and Spine Assessment Finding Location	RE [0..1]	Composition.section:sectionVitalSigns.entry: vitalSign.code Composition.section:sectionVitalSigns.entry: vitalSign.value[x] Composition.section:sectionVitalSigns.entry: vitalSign.component.value[x]	
Back and Spine Assessment	RE [0..1]	Composition.section:sectionVitalSigns.entry: vitalSign.code Composition.section:sectionVitalSigns.entry: vitalSign.value[x] Composition.section:sectionVitalSigns.entry: vitalSign.component.value[x]	
Extremity Assessment Finding Location	RE [0..1]	Composition.section:sectionVitalSigns.entry: vitalSign.code Composition.section:sectionVitalSigns.entry: vitalSign.value[x] Composition.section:sectionVitalSigns.entry: vitalSign.component.value[x]	
Extremities Assessment	RE [0..1]	Composition.section:sectionVitalSigns.entry: vitalSign.code Composition.section:sectionVitalSigns.entry: vitalSign.value[x] Composition.section:sectionVitalSigns.entry: vitalSign.component.value[x]	
Eye Assessment Finding Location	RE [0..1]	Composition.section:sectionVitalSigns.entry: vitalSign.code Composition.section:sectionVitalSigns.entry: vitalSign.value[x] Composition.section:sectionVitalSigns.entry: vitalSign.component.value[x]	
Eye Assessment	RE [0..1]	Composition.section:sectionVitalSigns.entry: vitalSign.code Composition.section:sectionVitalSigns.entry: vitalSign.value[x] Composition.section:sectionVitalSigns.entry: vitalSign.component.value[x]	
Mental Status Assessment	RE [0..1]	Composition.section:sectionVitalSigns.entry: vitalSign.code Composition.section:sectionVitalSigns.entry: vitalSign.value[x] Composition.section:sectionVitalSigns.entry: vitalSign.component.value[x]	

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NEMSIS Data Element	Cardinality	FHIR Resource location	Constraint
Neurological Assessment	RE [0..1]	Composition.section:sectionVitalSigns.entry: vitalSign.code Composition.section:sectionVitalSigns.entry: vitalSign.value[x] Composition.section:sectionVitalSigns.entry: vitalSign.component.value[x]	
Lung Assessment Finding Location	RE [0..1]	Composition.section:sectionVitalSigns.entry: vitalSign.code Composition.section:sectionVitalSigns.entry: vitalSign.value[x] Composition.section:sectionVitalSigns.entry: vitalSign.component.value[x]	
Lung Assessment	RE [0..1]	Composition.section:sectionVitalSigns.entry: vitalSign.code Composition.section:sectionVitalSigns.entry: vitalSign.value[x] Composition.section:sectionVitalSigns.entry: vitalSign.component.value[x]	
Chest Assessment Finding Location	RE [0..1]	Composition.section:sectionVitalSigns.entry: vitalSign.code Composition.section:sectionVitalSigns.entry: vitalSign.value[x] Composition.section:sectionVitalSigns.entry: vitalSign.component.value[x]	
Chest Assessment	RE [0..1]	Composition.section:sectionVitalSigns.entry: vitalSign.code Composition.section:sectionVitalSigns.entry: vitalSign.value[x] Composition.section:sectionVitalSigns.entry: vitalSign.component.value[x]	
Stroke/CVA Symptoms Resolved	RE [0..1]	Composition.section:sectionVitalSigns.entry: vitalSign.code Composition.section:sectionVitalSigns.entry: vitalSign.value[x] Composition.section:sectionVitalSigns.entry: vitalSign.component.value[x]	Where condition is stroke/CVA symptoms where clinicalStatus is resolved
Date/Time Procedure Performed	RE [0..1]	Composition.section:sectionProceduresHx.entry:procedure.performedDateTime	
Procedure Performed Prior to this Unit's EMS Care	RE [0..1]	Composition.section:sectionProceduresHx.entry:procedure.performedDateTime	
Procedure	RE [0..1]	Composition.section:sectionProceduresHx.entry:procedure	
Destination/Transferred To, Name	R [1..1]	ServiceRequest.locationReference: Location.name	
Destination Street Address	R [1..1]	ServiceRequest.locationReference: Location.address	Patient destination street address

NEMSIS Data Element	Cardinality	FHIR Resource location	Constraint
Destination City	R [1..1]	ServiceRequest.locationReference: Location.address	
Destination State	R [1..1]	ServiceRequest.locationReference: Location.address	
Destination County	RE [0..1]	ServiceRequest.locationReference: Location.address	
Destination ZIP Code	RE [0..1]	ServiceRequest.locationReference: Location.address	
Destination Country	RE [0..1]	ServiceRequest.locationReference: Location.address	

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Volume 3 Appendices

Appendix A – NEMESIS Mappings to FHIR and CDA

Table A-1: NEMESIS Mappings to FHIR and CDA

NEMESIS Data Element	NEMESIS v3.5.0	FHIR Resource location	CDA Location
Last name	ePatient.0_2	Patient:PatientUvIps.identifier	/ClinicalDocument/[IPS CDA recordTarget]/patientRole/patient/name
First name	ePatient.0_3	Patient:PatientUvIps.name	/ClinicalDocument/[IPS CDA recordTarget]/patientRole/patient/name
middle initial	ePatient.0_4	Patient:PatientUvIps.name	/ClinicalDocument/[IPS CDA recordTarget]/patientRole/patient/name
home address	ePatient.0_5	Patient:PatientUvIps.name	/ClinicalDocument/[IPS CDA recordTarget]/patientRole/addr
home city	ePatient.0_6	Patient:PatientUvIps.address	/ClinicalDocument/[IPS CDA recordTarget]/patientRole/addr
home country	ePatient.0_7	Patient:PatientUvIps.address	/ClinicalDocument/[IPS CDA recordTarget]/patientRole/addr
home state	ePatient.0_8	Patient:PatientUvIps.address	/ClinicalDocument/[IPS CDA recordTarget]/patientRole/addr
home zip code	ePatient.0_9	Patient:PatientUvIps.address	/ClinicalDocument/[IPS CDA recordTarget]/patientRole/addr
country of residence	ePatient.1_0	Patient:PatientUvIps.address	/ClinicalDocument/[IPS CDA recordTarget]/patientRole/addr
home census tract	ePatient.1_1	N/A	N/A
social security number	ePatient.1_2	Patient:PatientUvIps.identifier	/ClinicalDocument/[IPS CDA recordTarget]/patientRole/id
gender	ePatient.1_3	Patient:PatientUvIps.gender	/ClinicalDocument/[IPS CDA recordTarget]/patientRole/patient/administrativeGender Code
race	ePatient.1_4	Patient.extension(us-core-race)	N/A
Age	ePatient.1_5	Patient:PatientUvIps.birthDate	/ClinicalDocument/[IPS CDA recordTarget]/patientRole/patient/birthTime
Age Units	ePatient.1_6	Patient:PatientUvIps.birthDate	/ClinicalDocument/[IPS CDA recordTarget]/patientRole/patient/birthTime
Date of Birth	ePatient.1_7	Patient:PatientUvIps.birthDate	/ClinicalDocument/[IPS CDA recordTarget]/patientRole/patient/birthTime
Patient's Phone Number	ePatient.1_8	Patient:PatientUvIps.telecom	/ClinicalDocument/[IPS CDA recordTarget]/patientRole/telecom
Patient's email	ePatient.1_9	Patient:PatientUvIps.telecom	/ClinicalDocument/[IPS CDA recordTarget]/patientRole/telecom

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NEMSIS Data Element	NEMSIS v3.5.0	FHIR Resource location	CDA Location
State Issuing Driver's License	ePatient.20	Patient:PatientUvIps.identifier	/ClinicalDocument/[IPS CDA recordTarget]/patientRole/id
Driver's License Number	ePatient.21	Patient:PatientUvIps.identifier	/ClinicalDocument/[IPS CDA recordTarget]/patientRole/id
Alternate Home Residence	ePatient.22	Patient:PatientUvIps.address	N/A
Primary Method of Payment	ePayment.01	Coverage.type	N/A
Certificate of medical necessity (CMN)	ePayment.02	Servicerequest.reasonRefrenc e: DocumentReference	N/A
Physician Certification Statement Signed	eOther.15	Servicerequest.reasonRefrenc e: DocumentReference.content.a ttachment	N/A
Date Physician Certification Statement Signed	ePayment.03	Servicerequest.reasonRefrenc e: DocumentReference.context.p eriod	N/A
Reason for Physician Certification Statement	ePayment.04	Servicerequest.reasonCode	N/A
Healthcare Provider Type Signing Physician Certification Statement	ePayment.05	Servicerequest.reasonRefrenc e: DocumentReference.context.r elated: PractitionerRole.code	N/A
Last Name of Individual Signing Physician Certification Statement	ePayment.06	Servicerequest.reasonRefrenc e: DocumentReference.context.r elated: Practitioner.name	N/A
First Name of Individual Signing Physician Certification Statement	ePayment.07	Servicerequest.reasonRefrenc e: DocumentReference.context.r elated: Practitioner.name	N/A
Insurance Company ID	ePayment.09	Coverage.payor:Organization.idetifier	N/A

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NEMSIS Data Element	NEMSIS v3.5.0	FHIR Resource location	CDA Location
Insurance Company Name	ePayment.10	Coverage.payor:Organization.name	N/A
Insurance Company Billing Priority	ePayment.11	Coverage.type	N/A
Insurance Company Address	ePayment.12	Coverage.payor:Organization.address	N/A
Insurance Company City	ePayment.13	Coverage.payor:Organization.address	N/A
Insurance Company State	ePayment.14	Coverage.payor:Organization.address	N/A
Insurance Company Zipcode	ePayment.15	Coverage.payor:Organization.address	N/A
Insurance Company Country	ePayment.16	Coverage.payor:Organization.address	N/A
Insurance Group ID	ePayment.17	Coverage.class.value	N/A
Insurance Policy ID Number	ePayment.18	Coverage.class.value	N/A
Last Name of the Insured	ePayment.19	Coverage.policyHolder:Patient.name Coverage.policyHolder:RelatedPerson.name	N/A
First Name of the Insured	ePayment.20	Coverage.policyHolder:Patient.name Coverage.policyHolder:RelatedPerson.name	N/A
Middle initial/name of the Insured	ePayment.21	Coverage.policyHolder:Patient.name Coverage.policyHolder:RelatedPerson.name	N/A
Relationship to the Insured	ePayment.22	Coverage.relationship	N/A
Insurance Group Name	ePayment.58	Coverage.class.name	N/A
Date of Birth of the Insured	ePayment.59	Coverage.beniciary:patient.birthdate	N/A

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NEMESIS Data Element	NEMESIS v3.5.0	FHIR Resource location	CDA Location
Closest Relative/Guardian Last Name	ePayment.23	Patient:PatientUvIps.contact.name	/ClinicalDocument/[IPS Patient Contacts]/associatedEntity/associatedPerson/name /ClinicalDocument/[IPS CDA recordTarget]/patientRole/guardian/guardianPerson/name
Closest Relative/Guardian First Name	ePayment.24	Patient:PatientUvIps.contact.name	/ClinicalDocument/[IPS Patient Contacts]/associatedEntity/associatedPerson/name /ClinicalDocument/[IPS CDA recordTarget]/patientRole/guardian/guardianPerson/name
Closest Relative/Guardian Middle Initial/Name	ePayment.25	Patient:PatientUvIps.contact.name	/ClinicalDocument/[IPS Patient Contacts]/associatedEntity/associatedPerson/name /ClinicalDocument/[IPS CDA recordTarget]/patientRole/guardian/guardianPerson/name
Closest Relative/Guardian Street Address	ePayment.26	Patient:PatientUvIps.contact.address	/ClinicalDocument/[IPS Patient Contacts]/associatedEntity/addr /ClinicalDocument/[IPS CDA recordTarget]/patientRole/guardian/addr
Closest Relative/Guardian City	ePayment.27	Patient:PatientUvIps.contact.address	/ClinicalDocument/[IPS Patient Contacts]/associatedEntity/addr /ClinicalDocument/[IPS CDA recordTarget]/patientRole/guardian/addr
Closest Relative/Guardian State	ePayment.28	Patient:PatientUvIps.contact.address	/ClinicalDocument/[IPS Patient Contacts]/associatedEntity/addr /ClinicalDocument/[IPS CDA recordTarget]/patientRole/guardian/addr
Closest Relative/Guardian Zip Code	ePayment.29	Patient:PatientUvIps.contact.address	/ClinicalDocument/[IPS Patient Contacts]/associatedEntity/addr /ClinicalDocument/[IPS CDA recordTarget]/patientRole/guardian/addr
Closest Relative/Guardian Country	ePayment.30	Patient:PatientUvIps.contact.address	/ClinicalDocument/[IPS Patient Contacts]/associatedEntity/addr /ClinicalDocument/[IPS CDA recordTarget]/patientRole/guardian/addr
Closest Relative/Guardian Phone Number	ePayment.31	Patient:PatientUvIps.contact.telecom	/ClinicalDocument/[IPS Patient Contacts]/associatedEntity/telecom /ClinicalDocument/[IPS CDA recordTarget]/patientRole/guardian/telecom
Closest Relative/Guardian Relationship	ePayment.32	Patient:PatientUvIps.contact.relationship	/ClinicalDocument/[IPS Patient Contacts]/associatedEntity/code /ClinicalDocument/[IPS CDA recordTarget]/patientRole/guardian
Patient's Employer	ePayment.33	Patient:PatientUvIps.contact.name	/ClinicalDocument/[IPS Patient Contacts]/associatedEntity/associatedPerson/name
Patient's Employer's Address	ePayment.34	Patient:PatientUvIps.contact.address	/ClinicalDocument/[IPS Patient Contacts]/associatedEntity/addr

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NEMESIS Data Element	NEMESIS v3.5.0	FHIR Resource location	CDA Location
Patient's Employer's City	ePayment.35	Patient:PatientUvIps.contact.address	/ClinicalDocument/[IPS Patient Contacts]/associatedEntity/addr
Patient's Employer's State	ePayment.36	Patient:PatientUvIps.contact.address	/ClinicalDocument/[IPS Patient Contacts]/associatedEntity/addr
Patient's Employer's Zip Code	ePayment.37	Patient:PatientUvIps.contact.address	/ClinicalDocument/[IPS Patient Contacts]/associatedEntity/addr
Patient's Employer's Country	ePayment.38	Patient:PatientUvIps.contact.address	/ClinicalDocument/[IPS Patient Contacts]/associatedEntity/addr
Patient's Employer's Primary Phone Number	ePayment.39	Patient:PatientUvIps.contact.telecom	/ClinicalDocument/[IPS Patient Contacts]/associatedEntity/telecom
Last Name of Patient's Practitioner	eHistory.02	Patient:PatientUvIps.generalPractitioner.name	/ClinicalDocument/[IPS Patient Contacts]/associatedEntity/associatedPerson/name
First Name of Patient's Practitioner	eHistory.03	Patient:PatientUvIps.generalPractitioner.name	/ClinicalDocument/[IPS Patient Contacts]/associatedEntity/associatedPerson/name
Middle Initial/Name of Patient's Practitioner	eHistory.04	Patient:PatientUvIps.generalPractitioner.name	/ClinicalDocument/[IPS Patient Contacts]/associatedEntity/associatedPerson/name
Advanced Directives	eHistory.05	Composition.section:sectionAdvancedDirectives	/ClinicalDocument/[IPS Advance Directives Section]
Medication Allergies	eHistory.06	Composition.section:sectionAllergies.entry:allergyOrIntolerance	/ClinicalDocument/[IPS Allergies and Intolerances Section]/entry/[IPS Allergy and Intolerance Concern]/entryRelationship/[IPS Allergy or Intolerance]
Environmental/Food Allergies	eHistory.07	Composition.section:sectionAllergies.entry:allergyOrIntolerance	/ClinicalDocument/[IPS Allergies and Intolerances Section]/entry/[IPS Allergy and Intolerance Concern]/entryRelationship/[IPS Allergy or Intolerance]
Medical/Surgical History	eHistory.08	"Composition.section:sectionPastIllnessHx.entry:pastProblem Composition.section:sectionProceduresHx.entry:procedure"	/ClinicalDocument/[IPS History of Past Illness Section]/entry/[IPS Problem Concern Entry] /ClinicalDocument/[IPS History of Procedures Section]/entry/[IPS Procedure Entry]/code
The Patient's Type of Immunization	eHistory.10	Composition.section:sectionImmunizations.entry:immunization.vaccineCode	/ClinicalDocument/[IPS Immunizations Section]/entry/[IPS Immunization]/consumable/[IPS Immunization Medication Information]/manufacturedProduct/manufacturedMaterial/code
Immunization Year	eHistory.11	Composition.section:sectionImmunizations.entry:immunization occurrenceDateTime	/ClinicalDocument/[IPS Immunizations Section]/entry/[IPS Immunization]/effectiveTime

IHE Patient Care Coordination Technical Framework Supplement – Referral for Interfacility Patient Transport (RIPT)

NEMESIS Data Element	NEMESIS v3.5.0	FHIR Resource location	CDA Location
Current Medications	eHistory.12	Composition.section:sectionMedications.entry:medicationStatement	/ClinicalDocument/[IPS Medication Summary Section]/entry/[IPS Medication Statement]
Current Medication Dose	eHistory.13	Composition.section:sectionMedications.entry:medicationStatement.dosage.doseAndRate.dose[x]	/ClinicalDocument/[IPS Medication Summary Section]/entry/[IPS Medication Statement]/entryRelationship/[IPS Subordinate SubstanceAdministration]/doseQuantity
Current Medication Dosage Unit	eHistory.14	Composition.section:sectionMedications.entry:medicationStatement.dosage.doseAndRate.dose[x]	/ClinicalDocument/[IPS Medication Summary Section]/entry/[IPS Medication Statement]/entryRelationship/[IPS Subordinate SubstanceAdministration]/doseQuantity
Current Medication Administration Route	eHistory.15	Composition.section:sectionMedications.entry:medicationStatement.dosage.route	/ClinicalDocument/[IPS Medication Summary Section]/entry/[IPS Medication Statement]/routeCode
Current Medication Frequency	eHistory.20	Composition.section:sectionMedications.entry:medicationStatement.dosage.timing	/ClinicalDocument/[IPS Medication Summary Section]/entry/[IPS Medication Statement]/entryRelationship/[IPS Subordinate SubstanceAdministration]/effectiveTime
Presence of Emergency Information Form	eHistory.16	Encounter ←Observation.value[x]	N/A
Alcohol/Drug Use Indicators	eHistory.17	Encounter ←Observation.value[x]	N/A
Last Oral Intake	eHistory.19	Encounter ←Observation.value[x]	N/A
Pregnancy	eHistory.18	Composition.section:sectionPregnancyHx.entry:pregnancyStatus	/ClinicalDocument/[IPS History of Pregnancy Section]/entry/[IPS Pregnancy Status Observation]
Date/Time Vital Signs Taken	eVitals.01	Composition.section:sectionVitalSigns.entry:vitalSign.effective[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/effectiveTime
Cardiac Rhythm / Electrocardiography (ECG)	eVitals.03	"Composition.section:sectionVitalSigns.entry:vitalSign.value[x]"	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
ECG Type	eVitals.04	Composition.section:sectionVitalSigns.entry:vitalSign.component.value[x]"	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Method of ECG Interpretation	eVitals.05	N/A	N/A

IHE Patient Care Coordination Technical Framework Supplement – Referral for Interfacility Patient Transport (RIPT)

NEMESIS Data Element	NEMESIS v3.5.0	FHIR Resource location	CDA Location
SBP (Systolic Blood Pressure)	eVitals.06	Composition.section:sectionVitalSigns.entry:vitalSign.code	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
DBP (Diastolic Blood Pressure)	eVitals.07	Composition.section:sectionVitalSigns.entry:vitalSign.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Method of Blood Pressure Measurement	eVitals.08	N/A	N/A
Mean Arterial Pressure	eVitals.09	Composition.section:sectionVitalSigns.entry:vitalSign.code	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Heart Rate	eVitals.10	Composition.section:sectionVitalSigns.entry:vitalSign.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Method of Heart Rate Measurement	eVitals.11	N/A	N/A
Pulse Oximetry	eVitals.12	Composition.section:sectionVitalSigns.entry:vitalSign.code	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Pulse Rhythm	eVitals.13	Composition.section:sectionVitalSigns.entry:vitalSign.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Respiratory Rate	eVitals.14	Composition.section:sectionVitalSigns.entry:vitalSign.component.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value

IHE Patient Care Coordination Technical Framework Supplement – Referral for Interfacility Patient Transport (RIPT)

NEMESIS Data Element	NEMESIS v3.5.0	FHIR Resource location	CDA Location
Respiratory Effort	eVitals.15	Composition.section:sectionVitalSigns.entry:vitalSign.code	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
End Title Carbon Dioxide (ETCO2)	eVitals.16	Composition.section:sectionVitalSigns.entry:vitalSign.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Carbon Monoxide (CO)	eVitals.17	Composition.section:sectionVitalSigns.entry:vitalSign.component.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Blood Glucose Level	eVitals.18	Composition.section:sectionVitalSigns.entry:vitalSign.code	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Glasgow Coma Score-Eye	eVitals.19	Composition.section:sectionVitalSigns.entry:vitalSign.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Glasgow Coma Score-Verbal	eVitals.20	Composition.section:sectionVitalSigns.entry:vitalSign.component.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Glasgow Coma Score-Motor	eVitals.21	Composition.section:sectionVitalSigns.entry:vitalSign.code Composition.section:sectionVitalSigns.entry:vitalSign.value[x] Composition.section:sectionVitalSigns.entry:vitalSign.component.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value

IHE Patient Care Coordination Technical Framework Supplement – Referral for Interfacility Patient Transport (RIPT)

NEMSIS Data Element	NEMSIS v3.5.0	FHIR Resource location	CDA Location
Glasgow Coma Score-Qualifier	eVitals.22	Composition.section:sectionV italSigns.entry:vitalSign.code Composition.section:sectionV italSigns.entry:vitalSign.value [x] Composition.section:sectionV italSigns.entry:vitalSign.comp onent.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Total Glasgow Coma Score	eVitals.23	Composition.section:sectionV italSigns.entry:vitalSign.code Composition.section:sectionV italSigns.entry:vitalSign.value [x] Composition.section:sectionV italSigns.entry:vitalSign.comp onent.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Temperature	eVitals.24	Composition.section:sectionV italSigns.entry:vitalSign.code Composition.section:sectionV italSigns.entry:vitalSign.value [x] Composition.section:sectionV italSigns.entry:vitalSign.comp onent.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Temperature Method	eVitals.25	Composition.section:sectionV italSigns.entry:vitalSign.code Composition.section:sectionV italSigns.entry:vitalSign.value [x] Composition.section:sectionV italSigns.entry:vitalSign.comp onent.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Level of Responsiveness (AVPU)	eVitals.26	Composition.section:sectionV italSigns.entry:vitalSign.code Composition.section:sectionV italSigns.entry:vitalSign.value [x] Composition.section:sectionV italSigns.entry:vitalSign.comp onent.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Pain Scale Score	eVitals.27	Composition.section:sectionV italSigns.entry:vitalSign.code Composition.section:sectionV italSigns.entry:vitalSign.value [x] Composition.section:sectionV italSigns.entry:vitalSign.comp onent.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value

IHE Patient Care Coordination Technical Framework Supplement – Referral for Interfacility Patient Transport (RIPT)

NEMSIS Data Element	NEMSIS v3.5.0	FHIR Resource location	CDA Location
Pain Scale Type	eVitals.28	Composition.section:sectionV italSigns.entry:vitalSign.code Composition.section:sectionV italSigns.entry:vitalSign.value [x] Composition.section:sectionV italSigns.entry:vitalSign.comp onent.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Stroke Scale Score	eVitals.29	Composition.section:sectionV italSigns.entry:vitalSign.code Composition.section:sectionV italSigns.entry:vitalSign.value [x] Composition.section:sectionV italSigns.entry:vitalSign.comp onent.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Stroke Scale Type	eVitals.30	Composition.section:sectionV italSigns.entry:vitalSign.code Composition.section:sectionV italSigns.entry:vitalSign.value [x] Composition.section:sectionV italSigns.entry:vitalSign.comp onent.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Reperfusion Checklist	eVitals.31	Composition.section:sectionV italSigns.entry:vitalSign.code Composition.section:sectionV italSigns.entry:vitalSign.value [x] Composition.section:sectionV italSigns.entry:vitalSign.comp onent.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
APGAR	eVitals.32	Composition.section:sectionV italSigns.entry:vitalSign.code Composition.section:sectionV italSigns.entry:vitalSign.value [x] Composition.section:sectionV italSigns.entry:vitalSign.comp onent.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Revised Trauma Score	eVitals.33	Composition.section:sectionV italSigns.entry:vitalSign.code Composition.section:sectionV italSigns.entry:vitalSign.value [x] Composition.section:sectionV italSigns.entry:vitalSign.comp onent.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value

IHE Patient Care Coordination Technical Framework Supplement – Referral for Interfacility Patient Transport (RIPT)

NEMESIS Data Element	NEMESIS v3.5.0	FHIR Resource location	CDA Location
Date/Time of Laboratory or Imaging Result	eLabs.01	Composition.section:sectionResults.entry:Observation.effective[x] Composition.section:sectionResults.entry:results-diagnosticReport.result:observation-results.effective[x]	/ClinicalDocument/[IPS Results Section]/entry/[IPS Result Organizer]/effectiveTime /ClinicalDocument/[IPS Results Section]/entry/[IPS Result Organizer]/component/observation/effectiveTime
Study/Result Prior to this Unit's EMS Care	eLabs.02	Composition.section:sectionResults.entry:Observation.effective[x] Composition.section:sectionResults.entry:results-diagnosticReport.result:observation-results.effective[x]	/ClinicalDocument/[IPS Results Section]/entry/[IPS Result Organizer]/effectiveTime /ClinicalDocument/[IPS Results Section]/entry/[IPS Result Organizer]/component/observation/effectiveTime
Laboratory Result Type	eLabs.03	Composition.section:sectionResults.entry:results-observation.category Composition.section:sectionResults.entry:results-diagnosticReport.result:observation-results.code	/ClinicalDocument/[IPS Results Section]/entry/[IPS Result Organizer]/code /ClinicalDocument/[IPS Results Section]/entry/[IPS Result Organizer]/component/observation/code
Laboratory Result	eLabs.04	Composition.section:sectionResults.text Composition.section:sectionResults.entry:Observation.text Composition.section:sectionResults.entry:results-observation.value[x] Composition.section:sectionResults.entry:results-diagnosticReport.result:observation-results.value[x]	/ClinicalDocument/[IPS Results Section]/text /ClinicalDocument/[IPS Results Section]/entry/[IPS Result Organizer]/component/observation/value
Imaging Study Type	eLabs.05	Composition.section:sectionResults.entry:results-observation.category Composition.section:sectionResults.entry:results-diagnosticReport.result:observation-results.code	/ClinicalDocument/[IPS Results Section]/entry/[IPS Result Organizer]/code /ClinicalDocument/[IPS Results Section]/entry/[IPS Result Organizer]/component/observation/code
Imaging Study Results	eLabs.06	Composition.section:sectionResults.text Composition.section:sectionResults.entry:Observation.text Composition.section:sectionResults.entry:results-observation.value[x] Composition.section:sectionResults.entry:results-diagnosticReport.result:observation-results.value[x]	/ClinicalDocument/[IPS Results Section]/text /ClinicalDocument/[IPS Results Section]/entry/[IPS Result Organizer]/component/observation/value

IHE Patient Care Coordination Technical Framework Supplement – Referral for Interfacility Patient Transport (RIPT)

NEMSIS Data Element	NEMSIS v3.5.0	FHIR Resource location	CDA Location
Imaging Study File or Waveform Graphic Type	eLabs.07	N/A	N/A
Imaging Study File or Waveform Graphic	eLabs.08	N/A	N/A
Estimated Body Weight in Kilograms	eExam.01	Composition.section:sectionVitalSigns.entry:vitalSign.code Composition.section:sectionVitalSigns.entry:vitalSign.value[x] Composition.section:sectionVitalSigns.entry:vitalSign.component.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Length Based Tape Measure	eExam.02	Composition.section:sectionVitalSigns.entry:vitalSign.code Composition.section:sectionVitalSigns.entry:vitalSign.value[x] Composition.section:sectionVitalSigns.entry:vitalSign.component.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Date/Time of Assessment	eExam.03	Composition.section:sectionVitalSigns.entry:vitalSign.code Composition.section:sectionVitalSigns.entry:vitalSign.value[x] Composition.section:sectionVitalSigns.entry:vitalSign.component.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Skin Assessment	eExam.04	Composition.section:sectionVitalSigns.entry:vitalSign.code Composition.section:sectionVitalSigns.entry:vitalSign.value[x] Composition.section:sectionVitalSigns.entry:vitalSign.component.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Head Assessment	eExam.05	Composition.section:sectionVitalSigns.entry:vitalSign.code Composition.section:sectionVitalSigns.entry:vitalSign.value[x] Composition.section:sectionVitalSigns.entry:vitalSign.component.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value

IHE Patient Care Coordination Technical Framework Supplement – Referral for Interfacility Patient Transport (RIPT)

NEMSIS Data Element	NEMSIS v3.5.0	FHIR Resource location	CDA Location
Face Assessment	eExam.06	Composition.section:sectionV italSigns.entry:vitalSign.code Composition.section:sectionV italSigns.entry:vitalSign.value [x] Composition.section:sectionV italSigns.entry:vitalSign.comp onent.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Neck Assessment	eExam.07	Composition.section:sectionV italSigns.entry:vitalSign.code Composition.section:sectionV italSigns.entry:vitalSign.value [x] Composition.section:sectionV italSigns.entry:vitalSign.comp onent.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Heart Assessment	eExam.09	Composition.section:sectionV italSigns.entry:vitalSign.code Composition.section:sectionV italSigns.entry:vitalSign.value [x] Composition.section:sectionV italSigns.entry:vitalSign.comp onent.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Abdominal Assessment Finding Location	eExam.10	Composition.section:sectionV italSigns.entry:vitalSign.code Composition.section:sectionV italSigns.entry:vitalSign.value [x] Composition.section:sectionV italSigns.entry:vitalSign.comp onent.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Abdomen Assessment	eExam.11	Composition.section:sectionV italSigns.entry:vitalSign.code Composition.section:sectionV italSigns.entry:vitalSign.value [x] Composition.section:sectionV italSigns.entry:vitalSign.comp onent.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Pelvis/Genitourinary Assessment	eExam.12	Composition.section:sectionV italSigns.entry:vitalSign.code Composition.section:sectionV italSigns.entry:vitalSign.value [x] Composition.section:sectionV italSigns.entry:vitalSign.comp onent.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value

IHE Patient Care Coordination Technical Framework Supplement – Referral for Interfacility Patient Transport (RIPT)

NEMSIS Data Element	NEMSIS v3.5.0	FHIR Resource location	CDA Location
Back and Spine Assessment Finding Location	eExam.13	Composition.section:sectionV italSigns.entry:vitalSign.code Composition.section:sectionV italSigns.entry:vitalSign.value [x] Composition.section:sectionV italSigns.entry:vitalSign.comp onent.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Back and Spine Assessment	eExam.14	Composition.section:sectionV italSigns.entry:vitalSign.code Composition.section:sectionV italSigns.entry:vitalSign.value [x] Composition.section:sectionV italSigns.entry:vitalSign.comp onent.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Extremity Assessment Finding Location	eExam.15	Composition.section:sectionV italSigns.entry:vitalSign.code Composition.section:sectionV italSigns.entry:vitalSign.value [x] Composition.section:sectionV italSigns.entry:vitalSign.comp onent.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Extremities Assessment	eExam.16	Composition.section:sectionV italSigns.entry:vitalSign.code Composition.section:sectionV italSigns.entry:vitalSign.value [x] Composition.section:sectionV italSigns.entry:vitalSign.comp onent.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Eye Assessment Finding Location	eExam.17	Composition.section:sectionV italSigns.entry:vitalSign.code Composition.section:sectionV italSigns.entry:vitalSign.value [x] Composition.section:sectionV italSigns.entry:vitalSign.comp onent.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Eye Assessment	eExam.18	Composition.section:sectionV italSigns.entry:vitalSign.code Composition.section:sectionV italSigns.entry:vitalSign.value [x] Composition.section:sectionV italSigns.entry:vitalSign.comp onent.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value

IHE Patient Care Coordination Technical Framework Supplement – Referral for Interfacility Patient Transport (RIPT)

NEMSIS Data Element	NEMSIS v3.5.0	FHIR Resource location	CDA Location
Mental Status Assessment	eExam.19	Composition.section:sectionV italSigns.entry:vitalSign.code Composition.section:sectionV italSigns.entry:vitalSign.value [x] Composition.section:sectionV italSigns.entry:vitalSign.comp onent.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Neurological Assessment	eExam.20	Composition.section:sectionV italSigns.entry:vitalSign.code Composition.section:sectionV italSigns.entry:vitalSign.value [x] Composition.section:sectionV italSigns.entry:vitalSign.comp onent.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Lung Assessment Finding Location	eExam.22	Composition.section:sectionV italSigns.entry:vitalSign.code Composition.section:sectionV italSigns.entry:vitalSign.value [x] Composition.section:sectionV italSigns.entry:vitalSign.comp onent.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Lung Assessment	eExam.23	Composition.section:sectionV italSigns.entry:vitalSign.code Composition.section:sectionV italSigns.entry:vitalSign.value [x] Composition.section:sectionV italSigns.entry:vitalSign.comp onent.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Chest Assessment Finding Location	eExam.24	Composition.section:sectionV italSigns.entry:vitalSign.code Composition.section:sectionV italSigns.entry:vitalSign.value [x] Composition.section:sectionV italSigns.entry:vitalSign.comp onent.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Chest Assessment	eExam.25	Composition.section:sectionV italSigns.entry:vitalSign.code Composition.section:sectionV italSigns.entry:vitalSign.value [x] Composition.section:sectionV italSigns.entry:vitalSign.comp onent.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value

IHE Patient Care Coordination Technical Framework Supplement – Referral for Interfacility Patient Transport (RIPT)

NEMESIS Data Element	NEMESIS v3.5.0	FHIR Resource location	CDA Location
Stroke/CVA Symptoms Resolved	eExam.21	Composition.section:sectionVitalSigns.entry:vitalSign.code Composition.section:sectionVitalSigns.entry:vitalSign.value[x] Composition.section:sectionVitalSigns.entry:vitalSign.component.value[x]	/ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/code /ClinicalDocument/[IPS Vital Signs Section]/entry/[IPS Vital Signs Organizer]/component/[IPS Vital Signs Observation]/value
Date/Time Procedure Performed	eProcedures.01	Composition.section:sectionProceduresHx.entry:procedure.performedDateTime	/ClinicalDocument/[IPS History of Procedures Section]/entry/[IPS Procedure Entry]/effectiveTime
Procedure Performed Prior to this Unit's EMS Care	eProcedures.02	Composition.section:sectionProceduresHx.entry:procedure.performedDateTime	/ClinicalDocument/[IPS History of Procedures Section]/entry/[IPS Procedure Entry]/effectiveTime
Procedure	eProcedures.03	Composition.section:sectionProceduresHx.entry:procedure	/ClinicalDocument/[IPS History of Procedures Section]/entry/[IPS Procedure Entry]
Destination/Transferred To, Name	eDisposition.01	ServiceRequest.locationReference: Location.name	/ClinicalDocument/[CDA documentationof]
Destination Street Address	eDisposition.03	ServiceRequest.locationReference: Location.address	/ClinicalDocument/[CDA documentationof]
Destination City	eDisposition.04	ServiceRequest.locationReference: Location.address	/ClinicalDocument/[CDA documentationof]
Destination State	eDisposition.05	ServiceRequest.locationReference: Location.address	/ClinicalDocument/[CDA documentationof]
Destination County	eDisposition.06	ServiceRequest.locationReference: Location.address	/ClinicalDocument/[CDA documentationof]
Destination ZIP Code	eDisposition.07	ServiceRequest.locationReference: Location.address	/ClinicalDocument/[CDA documentationof]
Destination Country	eDisposition.08	ServiceRequest.locationReference: Location.address	/ClinicalDocument/[CDA documentationof]

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