AHIMA Standards Task Force

HIM Practice Standards Project

Specification of Use Cases for

Information Management Practices in Healthcare:

Patient Registration Use Case

Chicago, Illinois, USA

2016

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# Synopsis

## Overview

This document specifies the AHIMA Use Case for Patient Registration in Healthcare Organizations (Patient Registration Use Case, Use Case). The Use Case is developed as a continuation of the AHIMA efforts for specifying health information management (HIM) practices to guide the development of health information technology (HIT) standards for information sharing in healthcare. The AHIMA effort of standardization of information management in healthcare started in 2015 as described in the White Paper entitled *HIT Standards for HIM Practices*.[[1]](#footnote-1) The White Paper was developed by AHIMA in collaboration with the Integrating the Healthcare Enterprise (IHE) - a collaborative of HIT vendors and professional associations aimed to developed interoperability standards.

The AHIMA Patient Registration Use Case is one of the series AHIMA use cases developed to guide standardization of both HIM practices and HIT products in healthcare. Table 1 presents the list of the current and future AHIMA Use Cases. Please note that 2015-2016 lists do not reflect all possible HIM practice use cases. The use cases listed in Table 1 were selected as examples by the AHIMA Standards Task Force. The Task Force has been working on identifying a comprehensive list of HIM practice use cases in the context of clinical care workflow depicted on Figure 1. In addition, the Task Force has been also working on developing the methodology to prioritize the use cases for the development of HIT standards supporting HIM practices.

Table 1. HIM Checklists and Use Cases for HIT Standards

|  |
| --- |
| Use Cases for HIT Standards  |
| 2015 AHIMA-IHE White Paper  | 2016 AHIMA Specifications |
| 1. All documents in the episode of care record are accounted for
2. Episode of care record is complete and closed
3. Release of Information (ROI) to external requestor
4. Audit for the episode of care record
5. Audit for the ROI
 | 1. Patient registration
2. Record and data quality
3. Copy and paste
4. Patient matching
5. Transition of care
 |

Specifications of Use Cases is a part of the collaborative informatics-based approach for translating HIM practices into HIT standards that was deployed in the 2015 AHIMA-IHE White Paper.

## Target Audience

This specification is targeted to

1. Organizations (e.g. healthcare organizations, public health agencies, payers/insurance companies, academia) involved in origination, management, and use of healthcare data
2. Health professionals that originate, manage, and use healthcare data
3. Implementers - organization’s staff involved in implementation of HIT Systems
4. HIT vendors and consultants involved in the design, development and implementation of HIT systems
5. Health information exchange (HIE) entities that collect, manage, and exchange data
6. Standards developers at various standards development organizations (SDOs)
7. Consumers (e.g. patients, care givers, employees, employers) involved in creation, management, and use of healthcare data and
8. Educators involved in HIT, HIM and informatics training.

In 2016, we are focusing on target audiences #1 through #6.



**a**



**b**

Figure 1. Clinical Workflow - Episode of Care (EOC) Functions and Records:

**a**-high level view; **b**-detailed view of the record life cycle with examples of EOC Components[[2]](#footnote-2)

## Scope

This AHIMA Use Case specification standards cover all health information (clinical, financial and operational), on all media and formats, created by a healthcare organization in its enterprise information management system. This includes legal health records and information contributed by patients.

## Development Process

The Patient Registration Use Case has been developed based on the functional requirement analysis methodology[[3]](#footnote-3) as well as literature review of the best HIM practices related to documentation management.

First, we developed a Use Case description specifying

(a) **actors** - business (personas, people) and technical (information systems) - and their roles in the use case

(b) **actions (functional requirements)** - workflow steps, documents/records/data types by each step (data flow), and the role of actors in each step

(c) **boundaries** of the use case (start-end) by specifying entry and exit conditions, and

(d) **non-functional requirements** (quality, etc.)

Use Cases were presented in the tabular format[[4]](#footnote-4) and accompanied by the Unified Modeling Language (UML) sequence diagram.[[5]](#footnote-5)

Please note that we used two terms for the actors in the Use Cases:

* Business actors (people: HIM professionals, clinicians, patients, and other) and
* Technical actors (information systems: EHR, PHR, mHealth, and other).

This separation between business and technical actors is important to align the roles of HIM professionals (business actors) specified in the Use Cases with the information system functions (collect, manage, integrate, analyze data and generate reports) performed by technical actors. Specification of activities performed by the business actors (HIM professionals) and technical actors (information systems) in the same use case allows aligning the business needs with the applicable technical actors from the IHE interoperability standards, e.g., Content Creator (information systems that acts as information creator and sender) and Content Consumer (information systems that acts as information receiver) and others.

The AHIMA Use Case serves as a foundation for the IHE Patient Registration Content Profile (to be developed in the IHE 2017 development cycle).

## References

References to the HIM and other materials used in the specification are presented in the footnotes. They include examples of HIM practice documentation (operational procedures) and samples of respective documents/records/data types from healthcare organizations, published sources, and other.

## Use Case Specification Format

The AHIMA Use Case and Practice Checklist specification consists of the following sub-sections:

**Use Case: *<Name>***

Overview

Problem Description

Solutions: Use Case Scenario(s)

Scope

Actors (Business, Technical)

Use Case Description

* Name
* List of Actors
* List of Workflow Steps
* Information Items (Documents/Records/Data) by Actor, by Workflow Step
* Entry and Exit Conditions
* Non-functional Requirements

UML Workflow and Dataflow Diagram (Sequence Diagram)

Data Specifications

# Patient Registration Use Case

## Overview

Patient Registration is the **process** of checking-in a person to initiate the episode of care. Patient registration takes place in various healthcare settings and at the various functions of the episode of care (Figure 1). Registration department (or Patient Access or Admitting departments, or Call Centers, or Online Scheduling Services) is responsible for management of patient registration activities. In some emergent situations when the identity of a patient is unknown [e.g., trauma unknown patient, unconscious patient, patient with acute condition (stroke, heart attack), child who was brought up to the emergency department without a representative], patient registration can be conducted by other authorized staff, e.g., clinicians. In some cases pre-registration may take place prior to the actual registration process at the healthcare organization. Pre-registration may happen as a part of EMS transport of the patient, pre-registration of the patient before arriving to the emergency department, scheduling a procedure prior to the episode of care, a follow-up visit, etc.

During the patient registration, insurance verification and pre-authorization may take place. In this case, insurance verifier is involved in verifying payment information as a part of the patient registration process.

Patient registration information is provided by the patient/and or by the designated (authorized, legal) patient’s representative (guardian) (parent, caregiver, decision-maker, etc.) to the registration staff. (Please see below the list of Business Actors involved in patient registration.)

The patient registration information can be provided verbally, via facility registration portal/kiosk, or phone interview.

Registration data collected during the registration process include those provided by the patient or patient’s legal representative as well as received/uploaded from the various data sources, e.g., Electronic Health Record (EHR) systems, payor systems, Health Information Exchanges (HIE) and other (please see list of Technical Actors below).

Information collected at the registration initiates the creation of a new episode of care record. This information will be further used at the next functions of the episode of care (triage/assessment, testing, treatment, medication management and discharge/transfer). Figure 2 presents Patient Registration Use Case in the overall context of Episode of Care’s functions and record components generated at a specific function in the process of care. [[6]](#footnote-6)

Specific **information** collected during registration includes:

Generated by Business Actors

1. Demographics (patient, legal representative, facility, provider, payor/guarantor and episode of care)
2. Chief complaint/reason for visit (medical necessity)
3. Insurance information including billing data from the payors and authorization as appropriate
4. Payment information (co-pays, deductibles, charge capture)
5. Physician order (for in-inpatient registration scenarios)
6. Consents

Generated by Technical Actors

1. Notification of document availability
2. Acknowledgement of receipt
3. Audit record (Who, When, Why, How information was obtained and released) created in the information systems

This information is entered into the Registration–Admission, Discharge, and Transfer (R-ADT) System as well as other health information systems (HIS) as appropriate (please see Technical Actor list below). Use Case description below shows how specific information from the list above is generated by the workflow step. Detail list of data elements by information category is provided in Data Specification section below.

Figure 2. Patient Registration in the Episode of Care

Specific **actions** conducted by the registration and insurance verification staff include:

1. Activation of the Episode of Care (EOC) record
2. Demographic information collection, verification and correction as needed
3. Data capture (input) and information retrieval (access) from various sources
4. Information reconciliation, validation and verification including patient identity matching (master patient index (MPI) management, census reconciliation)
5. Concurrent analysis, queries and responses to ensure record correctness and completeness including scrubbing, editing, cleansing, and adjustments
6. Preparation for the coding and abstracting of the reason for admission with applicable ICD or CPT Code
7. Preparation for record archival
8. Establishing of the audit trail record for the episode of care
9. Electronic signing/authentication of registration record by the patient or legal guardian and
10. Release (or transfer) of information (output) to the next function of the episode of care, e.g. triage/assessment.

## Problem Description

Problems with Patient Registration can be classified into two categories: 1- Record/Data Quality and 2-Information Access as described below.

|  |
| --- |
| **Record/Data Quality** |
| Insufficient and inaccurate information to support other functions in the episode of care* 1. Inaccurate patient ID information

Error in data entered[[7]](#footnote-7)Redundant information, which causes the inability to determine current information, i.e. “field of noise”[[8]](#footnote-8) (see “redundant information” also below).  |
| Lack of clinical documentation, e.g.* 1. Missing medical records from the previous encounters

Refusal to sign consentInability to obtain advanced beneficiary notice (ABN)Inability to obtain prior authorization from payerMissing orders for encounter/procedure/test/treatmentMissing adequate content in the physician’s order (e.g., admitting diagnosis, reason for visit on the orders, physician signature) |
| 1. Lack of provider identification or contact information
	1. Patient does not remember his provider/clinic
	2. Patient does not have contact information for his provider/clinic
	3. Patient does not have provider
 |
| **Information Access** |
| Inability to get information about the unknown patient (e.g., trauma unknown patient, unconscious patient, patient with acute condition (stroke, heart attack), child who was brought up to the emergency department without a representative) |
| 1. Lack of information access from various sources to support patient registration
 |
| 1. Redundant information may restrict efficient access to critically need clinical information
 |

## Solutions: Use Case Scenarios

The following is the list of scenarios that involve patient registration:

1. Emergency department visit:
2. Registration of walk-in/patient presentation in ED
3. Registration initiated/conducted by clinicians for life threatening situations
4. Registration for diagnostic testing during ED stay
5. Registration for medication administration
6. Registration for pre-admission of patients into the hospital
7. Registration for follow-up care
8. In-patient setting visit (hospitals,):
	1. Registration for planned admission
	2. Registration for unplanned admission
	3. Registration for diagnostic testing during hospital stay
	4. Registration for medication administration
	5. Registration for treatment during hospital stay
	6. Registration/Scheduling for post acute care follow-up
9. Out-patient setting visit:
10. Registration for walk-in/patient presentation
11. Registration/Scheduling for planned visit
12. Registration/Scheduling for diagnostic testing
	1. during the visit
	2. after the visit
13. Registration/Scheduling for treatment
	* 1. during the visit
		2. after the visit
14. Registration for medication administration
15. Registration for post-visit follow-up

Death registration is not in the scope of the Patient Registration Use Case.

## Scope

In 2016, we will focus on the following Patient registration scenarios:

* + - 1. Emergency department visit:
	1. Registration of walk-in/patient presentation in ED
	2. Registration initiated/conducted by clinicians for life threatening situations

These two scenarios were selected from the 17 Patient Registration scenarios above because of the following reasons:

**Scenario 1** represents the generic example of patient registration/checking-in across various settings.

**Scenario 2** describes the life-threatening situation that often occurs in the ED.

Use cases for the remaining 15 scenarios will be developed in the future.

## Actors (Business and Technical)

The following are the actors involved in the Patient Registration Use Case

|  |  |
| --- | --- |
| **Actors** | **Description of the Role in the Use Case** |
| **Business Actors** |
| Patient or (patient’s legal representative) | Individual and/or his legal representative who are seeking healthcare |
| Registration staff | Staff responsible for registering patients[[9]](#footnote-9) |
| Billing staff | Staff responsible for generating a bill for healthcare services performed. This includes Insurance Verifier Registrar, who verifies patient insurance information and communicates with the payor  |
| Payor | Entities involved in paying for medical care |
| Clinician[[10]](#footnote-10) | Clinician who receives patient registration information to conduct assessment  |
| **Technical Actors** |
| Registration–Admission, Discharge, and Transfer (R-ADT) System | An administrative information system that stores demographic information and performs functions related to registration, admission, discharge, and transfer of patients within the organization[[11]](#footnote-11) |
| Electronic Health Record (EHR) System  | An information system that ensures the longitudinal collection of electronic health information for and about persons; enables immediate electronic access to person- and population-level information by authorized users; provides knowledge and decision support that enhances the quality, safety, and efficiency of patient care; and supports efficient processes for healthcare deliver.[[12]](#footnote-12) These include EMR, EPR, CPR systems (see Glossary section for the definitions).  |
| Health Information System (HIS) | Information system that supports healthcare delivery within a healthcare organization. It includes R-ADT, EHR, laboratory, radiology, pharmacy, financial, administrative and other information systems.  |
| Electronic Document Management System (EDMS) | Software consisting of many component technologies that enable healthcare businesses to use documents to achieve significant improvements in work processes[[13]](#footnote-13) |
| Financial System | Information system used by a healthcare organization to perform administrative and financial transactions associated with healthcare delivery |
| Payor System | Information system used by health plans to manage administrative and financial functions associated with the coverage and financing of healthcare for individuals enrolled in the health plan (health plan members). These functions manage information regarding the individual’s enrollment, eligibility, coverage and benefits, authorizations, claims, care coordination and other information related to the member  |
| Personal Health Record (PHR) System  | Information system used to create, review, annotate and maintain records by the patient or the caregiver for a patient. The PHR may include medications, medical problems, allergies, vaccination history, test results, visit history or communications with healthcare providers |
| Health Information Exchange (HIE) | An infrastructure to support information exchange between information exchange participants |
| Mobile Health (mHealth) Application | mHealth application (apps), i.e. portable device including but not limited to mobile phones, Personal Digital Assistants (PDAs) and other, that enables access to patient information across various information systems |

## Use Case Description

|  |
| --- |
| **Use Case Name: Registration of Walk-in/Patient Presentation in ED***Italic font and grey highlights indicate steps performed/data created by Technical Actors* |
| Actors | **Business Actors**: Patient (or patient’s legal representative), Registration staff, Billing staff (Insurance verifier registrar), Payor, Clinician |
|  |
| ***Technical Actors****: R-ADT System, HIS, Financial System, Payor System, EHR, EDMS, HIE, PHR, mHealth app* |
| # of Step | Workflow Steps | Information Items(Documents/Records/Data) |
| 1 | Patient enters into ED and presents to the Registration staff | Patient Registration Record1. Patient demographics (e.g.,name, DoB, address)
2. Visit demographics (e.g., enterprise medical record number, date/time of encounter, reason for visit, list of barcodes, etc.),
3. Physician demographics (name, PID, department/service
4. Reason for visit
5. Consent for visit
6. Consent for information sharing
7. eSignature for Registration Staff
8. Wristband (patient ID bracelet)

Risk Management (RM)/Infection Control (IC)/ Public Health/ Population Health (PH) information*Audit record: Who, When, Why, Wh****a****t* |
| 2 | Registration staff identifies patient, asks patient to complete necessary forms (paper or electronic), and checks in/register the visit in R-ADT System. In the case of “trauma/unidentified patient”, registration staff assigns a tag with the ID number to be used in the episode of care.  |
| *3* | *HIS creates an audit record of the encounter*  |
| *4* | *R-ADT System searches and obtains patient and visit-relevant information from various systems (HIS, EHR, Financial Systems, EDMS, HIE, PHR, mHealth app)*  |
| 5 | Registration staff validates patient information, prints ID bracelet and correspondent labels with barcodes for the patient, and signs the record with e-signature or in ink.  |
| 6 | Registration staff sends patient to Insurance verifier registrar. Insurance verification may be done by the Registration staff. | Insurance information:1. Payor demographic
2. Insurance ID
3. Coverage
4. Co-pay/deductible
5. eSignature for Insurance Verifier

Payment information:1. Invoice for service2. Payment receipt3. Payment plan, if needed 4. eSignature for Billing Staff*Audit record: Who, When, Why, Wh****a****t* |
| 7 | Insurance verifier registrar verifies patient insurance information; contacts payor, if needed; obtains authorization; and requests/collects co-pay or makes payment arrangements – Need to be developed at more granular level |
| *8* | *R-ADT System communicates with the payor system directly or via HIE to obtain patient insurance information. Patient information is updated in the Financial System* |
| *9* | *R-ADT System updates patient information in PHR via mHealth app* | Updated Patient Registration Record*Audit record: Who, When, Why, Wh****a****t* |
| 10 | Registration staff assembles all documents necessary for the episode of care and completes the registration by signing the Episode of Care Record with e-Signature in EHR. This may be done automatically when the staff completes the record (all data are entered and verified) and closes the registration record for this patient. Staff sends patient to clinician for assessment. Clinician opens patient record to begin assessment and sends the acknowledgement of receipt.  | Updated Patient Registration RecordeSignature for Registration StaffNotification of Record Availabilityincluding notification to Care Team Acknowledgement of Receipt |
| *11* | *Registration information is uploaded into EHR. EHR sends Notification of Record Availability to clinician.* | *Updated Patient Registration Record**Notification of Record Availability*  |
| *12* | *EHR sends back to the R-ADT the Acknowledgement of Receipt.* | *Acknowledgement of Receipt* |
| *13* | *Audit trail for the personnel and systems involved in patient registration is completed in HIS* | *Audit Record: Who, When, Why, What* |
| Entry Condition | R-ADT System  |
| Exit Condition | HIS with record for assessment function and with audit trail record |
| Quality Requirements | Real time patient information verification |

## UML Workflow and Dataflow Diagram

Figure 2 presents the Unified Modeling Language (UML) sequence diagram to demonstrate roles and relationship of the actors (business and technical), workflow and data flow associated with the use case.



Figure 2: UML Sequence Diagram: Use Case A1 - Registration of Walk-in/Patient Presentation in ED.

Numbers 1-13 indicate the workflow steps. Update to add new steps and actor (clinician.)

## Data Specifications for Information Items

The following information items (documents/records/data) were identified in the Patient Registration Use Case:

|  |  |
| --- | --- |
| Patient Registration Information1. Patient demographics (e.g., name, DoB, address, biometrics)
2. Visit demographics (enterprise medical record number, date/time of encounter, reason for visit, list of barcodes, etc.)
3. Physician demographics (name, PID, department/service)
4. Chief complaint, Reason for visit, ABN
5. Consent for visit
6. Consent for information sharing
7. eSignature for Registration Staff
8. Wristband (patient ID bracelet with barcodes)
 | Insurance information1. Payor demographic
2. Insurance ID
3. Coverage
4. Co-pay
5. eSignature for Insurance Verifier

Payment information1. Invoice for service2. Payment receipt3. Payment plan, if needed 4. eSignature for Billing Staff |
| Risk Management/Infection Control/Public Health/ Population Health Information1. Have you been out of the country in the last three weeks?
 | Notification of Record AvailabilityAcknowledgement of ReceiptAudit Record: Who, When, Why, What |

Please note that during patient registration, clinical information may be collected, however this information is out of scope for the Patient Registration Use Case.

Tables below provide list of data elements by information item for the Patient Registration Record. Each data element contains the description of its attributes: sequence (**SEQ**, based on Health level Seven (HL7) version 2.x (v2.x) sequence), data element name, optionality (**OPT**),format, length of the field (**Len**, based on HL7v2.x length), HL7 data types and IHE data element names.

For Optionality (OPT) **[[14]](#footnote-14)** we used the following legend:

|  |  |  |
| --- | --- | --- |
| **Option** | **Symbol** | **Definition** |
| **SHALL** | **R** - Required | Field must be populated with a valid value. |
| **SHOULD** | **C** - Conditional | Field will be populated if value does exist depending on the specific condition. For example, US Passport may be available only from the US citizens; Non-US citizens will have their green cards or visas, instead. |
| **MAY** | **O - Optional** | Field may be populated at the discretion of organization. |

### Patient Registration Information

Based on HL7 Patient Identity (PID) and IHE PID Segments[[15]](#footnote-15)

***NNN*** –Bold, italic font, shaded row indicates the data element that contains additional data element components. Blank SEQ cell indicates that the data element components carry the same SEQ number as the main data element.

| **SEQ** | **Data Element** | **Opt** | **Format** | **Len** | **HL7 Data Type** | **HL7 Data Element Name** |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***Visit/Encounter Identification*** |  |  |  |  |  |
| 1 | Enterprise Master Patient Index (EMPI) | R | Alphanumeric | 204, HL7 | SI | Set-ID - PID |
| 2 | Medical Record Number (MRN)  | R | Alphanumeric | 20 | CX | Patient ID |
| \* | Episode of Care Number[[16]](#footnote-16) | R | Alphanumeric | 250 | CX |  |
| PV1.19[[17]](#footnote-17) | Visit/Encounter Number (account number)[[18]](#footnote-18) | R | Alphanumeric | 250 | CX | Visit Number |
| PV1.5 | Pre-Visit Number | C | Numeric | 250 | CX | Preadmit Number |
| ***3[[19]](#footnote-19)*** | ***Forms of Patient Identification*** |  |  | ***250*** | ***CX*** | ***Patient Identifier List*** |
|  | Photo | O | Image |  |  |  |
| 19[[20]](#footnote-20) | Social Security Number  | C | Numeric | 16 | ST | SSN Number-Patient |
| 20[[21]](#footnote-21) | Driver’s License Number  | C | Alphanumeric | 25 | DLN | Driver License-Patient |
|  | State ID Card | C | Alphanumeric | 25 |  |  |
|  | Military ID | C | Alphanumeric | 25 |  |  |
|  | Passport Number | C | Alphanumeric | 25 |  |  |
|  | Green Card Number | C | Alphanumeric | 25 |  |  |
|  | Visa Number | C | Alphanumeric | 25 |  |  |
|  | Student ID | C | Alphanumeric | 25 |  |  |
|  | Insurance Card | C | Alphanumeric | 25 |  |  |
|  | Biometrics | C |  |  |  |  |
| ***5*** | ***Legal Patient Name*** | ***R*** | ***Alphanumeric*** | ***250*** | ***XPN*** | ***Patient Name*** |
|  | Name, Prefix | O | Text | 20 | ST | Prefix |
|  | Name, Last | R | Text | 194 | FN | Family Name  |
|  | Name, Suffix | C | Alphanumeric | 20 | ST | Suffix |
|  | Name, First  | R | Alphanumeric | 30 | ST | Given Name |
|  | Name, Middle | C | Text | 30 | ST | Second and Further Given Names or Initials Thereof |
|  | ***Preferred Patient Name*** | ***C*** | ***Alphanumeric*** | ***250*** | ***XPN*** |  |
|  | Name, Prefix | C | Text | 20 | ST | Prefix |
|  | Name, Last | C | Text | 194 | FN | Family Name  |
|  | Name, Suffix | C | Alphanumeric | 20 | ST | Suffix |
|  | Name, First  | C | Alphanumeric | 30 | ST | Given Name |
|  | Name, Middle | C | Text | 30 | ST | Second and Further Given Names or Initials Thereof |
| 6 | Mother’s Maiden Name | O | Text | 250 | XPN | Mother’s Maiden Name |
| ***7*** | ***Date of Birth*** | ***R*** |  | ***26*** | ***TS*** | ***Date/Time of Birth*** |
|  | Time of Birth (e.g., newborn) | C  |  | 5 | DTM | Date/Time |
| 8 | Administrative Gender | R |  | 1 | IS | Administrative Sex[[22]](#footnote-22) (F/M/U)[[23]](#footnote-23),[[24]](#footnote-24) |
| ***9*** | ***Patient Alias*** |  |  | ***250*** | ***XPN*** | ***Patient Alias*** |
|  | Alias, Last | O | Text | 194 | FN | Family Name |
|  | Alias, First | O | Text | 30 | ST | Given Name |
|  | Alias, Middle | O | Text | 30 | ST | Second and Further Given Names or Initials Thereof |
| 10 | Race[[25]](#footnote-25) | R | Text | 250 | CE | Race |
| ***11*** | ***Primary Address*** | ***R*** |  | ***250*** | ***XAD*** | ***Patient Address*** |
|  | Building Number | R | Alphanumeric | 12 | SAD | Dwelling Number |
|  | Line 1 (Street Name) | R | Alphanumeric | 184 | SAD | Street Address |
|  | Line 2 (Apt. No or Unit No) | O | Alphanumeric | 120 | ST | Street Address |
|  | City | R | Text | 50 | ST | City |
|  | County[[26]](#footnote-26) | R | Text | 20 | IS | County |
|  | State/Province | R | Text | 50 | ST | State or Province |
|  | Zip Code  | R | Alphanumeric | 12 | ST | Zip or Postal Code |
|  | Country  | R | Text | 3 | ID | Country |
| ***13*** | ***Primary Phone Number Home*** |  |  | **250** | ***XTN*** |  |
|  | Phone Number – Home | C | Numeric | 199 | ST | Telephone Number |
|  | Phone Number – Cell | C | Numeric | 199 | ST | Telephone Number |
|  | Email Address – Business | O | Alphanumeric | 199 | ST | Email Address |
| ***14*** | ***Primary Phone Number Business*** |  |  | **250** | **XTN** |  |
|  | Phone Number – Business | C | Numeric | 199 | ST | Telephone Number |
|  | Phone Number – Fax | C | Numeric | 199 | ST | Telephone Number |
|  | Email Address – Business | O | Alphanumeric | 199 | ST | Email Address |
| ***11*** | ***Alternate Address*** | ***O*** |  | ***250*** | ***XAD*** | ***Patient Address*** |
|  | Building Number | R | Alphanumeric | 12 | SAD | Dwelling Number |
|  | Line 1 (Street Name) | R | Alphanumeric | 184 | SAD | Street Address |
|  | Line 2 (Apt. No or Unit No) | O | Alphanumeric | 120 | ST | Street Address |
|  | City | R | Text | 50 | ST | City |
|  | County | R | Text | 20 | IS | County |
|  | State/Province | R | Text | 50 | ST | State or Province |
|  | Zip Code  | R | Alphanumeric | 12 | ST | Zip or Postal Code |
|  | Country  | R | Text | 3 | ID | Country |
| ***13*** | ***Alternate Phone Number Home*** |  |  | **250** | ***XTN*** |  |
|  | Phone Number – Home | C | Numeric | 199 | ST | Telephone Number |
|  | Phone Number – Cell | C | Numeric | 199 | ST | Telephone Number |
|  | Email Address – Home | O | Alphanumeric | 199 | ST | Email Address |
| ***14*** | ***Alternate Phone Number Business*** |  |  | **250** | **XTN** |  |
|  | Phone Number – Business | C | Numeric | 199 | ST | Telephone Number |
|  | Phone Number – Fax | C | Numeric | 199 | ST | Telephone Number |
|  | Email Address – Business | O | Alphanumeric | 199 | ST | Email Address |
| 15 | Primary(Preferred) Language | R | Text | 250 | CE | Primary Language |
| 16 | Marital Status | O | Text | 250 | CE | Marital Status |
| 17 | Religion | O | Text | 250 | CE | Religion |
| 21 | Mother’s Identifier | C | Alphanumeric | 250 | CX | Mother’s Identifier |
| 22 | Ethnic Group[[27]](#footnote-27)  | R | Text | 250 | CE | Ethnic Group |
| ***23*** | ***Place of Birth*** | ***O*** |  | ***250*** | ***ST*** | ***Birth Place*** |
| 11 | City | O | Text | 50 | ST | City |
| 11 | State/Province | O | Text | 50 | ST | State |
| 11 | Country | O | Text | 3 | ST | Country |
| 24 | Multiple Birth Indicator | C | Numeric | 1 | ID | Multiple Birth Indicator |
| 25 | Birth Order | C | Numeric | 2 | NM | Birth Order |
|  | ***Other Information*** |  |  |  |  |  |
| 26 | Citizenship | O | Country | 250 | CE | Citizenship |
| 27 | Veterans Military Status | O | Text | 250 | CE | Veterans Military Status |
|  | ***Occupational Information[[28]](#footnote-28)*** |  |  |  |  |  |
| IN1.42 | Employment Status | O | Text | 250 | CE | Insured's Employment Status |
| ***IN2.3*** | ***Employer Organization*** | ***C*** | ***Text*** | ***250*** | ***XON*** | ***Insured's Employer Organization Name and ID*** |
|  | Organization Name | C | Text | 50 | ST | Organization Name |
|  | Organization Number | C | Numeric | 4 | NM | ID Number |
|  | Organization Identifier | C | Numeric | 20 | ST | Organization Identifier |
| ***IN2.3*** | ***Employer Person*** | ***C*** | ***Alphanumeric*** | ***250*** | ***XCN*** | ***Insured's Employer's Name and ID*** |
|  | Name, Prefix | C | Text | 20 | ST | Prefix |
|  | Name, Last | C | Text | 194 | FN | Family Name  |
|  | Name, Suffix | C | Alphanumeric | 20 | ST | Suffix |
|  | Name, First  | C | Alphanumeric | 30 | ST | Given Name |
|  | Name, Middle | C | Text | 30 | ST | Second and Further Given Names or Initials Thereof |
|  | Degree | C | Text | 5 | IS | Degree |
| ***IN1.44*** | ***Employer Address*** | ***C*** | ***Text*** | ***250*** | ***XAD*** | ***Insured’s Employer Address*** |
|  | Building Number | C | Alphanumeric | 12 | SAD | Dwelling Number |
|  | Line 1 (Street Name) | C | Alphanumeric | 184 | SAD | Street Address |
|  | Line 2 (Apt. No or Unit No) | O | Alphanumeric | 120 | ST | Street Address |
|  | City | C | Text | 50 | ST | City |
|  | County | C | Text | 20 | IS | County |
|  | State/Province | C | Text | 50 | ST | State or Province |
|  | Zip Code  | C | Alphanumeric | 12 | ST | Zip or Postal Code |
|  | Country | C | Text | 3 | ID | Country |
| IN2.46 | Occupation  | O | Text | 20 | ST | Job Title |
|  | Industry[[29]](#footnote-29) | O | Text | 250 |  |  |

**Patient Registration Associated Parties Information**

Based on HL7 NK1 (Next of Kin) Segment and IHE IT Infrastructure Technical Framework, Volume 2b

***NNN*** –Bold, italic font, shaded row indicates the data element that contains additional data element components. Blank SEQ cell indicates that the data element components carry the same SEQ number as the main data element.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **SEQ** | **Data Element** | **Opt** | **Format** | **Len** | **HL7 Data Type** | **HL7 Data Element Name** |
| ***2*** | ***Emergency Contact Name*** | ***O*** |  | ***250*** | ***XPN*** | ***Name*** |
|  | Name, Prefix | O | Text | 20 | ST | Prefix |
|  | Name, Last | R | Text | 194 | FN | Family Name |
|  | Name, Suffix | C | Alphanumeric | 20 | ST | Suffix |
|  | Name, First  | R | Alphanumeric | 30 | ST | Given Name |
|  | Name, Middle | C | Text | 30 | ST | Second And Further Given Names Or Initials Thereof |
| 3 | Relationship | O | Alphanumeric  | 250 | CE | Relationship |
| ***5*** | ***Emergency Contact Phone Number Home*** |  |  | **250** | ***XTN*** |  |
|  | Phone Number – Home | C | Numeric | 199 | ST | Telephone Number |
|  | Phone Number – Cell | C | Numeric | 199 | ST | Telephone Number |
|  | Email Address – Home | O | Alphanumeric | 199 | ST | Email Address |
| ***6*** | ***Emergency Contact Phone Number Business*** |  |  | **250** | **XTN** |  |
|  | Phone Number – Business | C | Numeric | 199 | ST | Telephone Number |
|  | Phone Number – Fax | C | Numeric | 199 | ST | Telephone Number |
|  | Email Address – Business | O | Alphanumeric | 199 | ST | Email Address |
| ***2*** | ***Legal Representative Name*** | ***O*** |  | ***250*** | ***XPN*** | ***Name*** |
|  | Name, Prefix | O | Text | 20 | ST | Prefix |
|  | Name, Last | R | Text | 194 | FN | Family Name |
|  | Name, Suffix | C | Alphanumeric | 20 | ST | Suffix |
|  | Name, First  | R | Alphanumeric | 30 | ST | Given Name |
|  | Name, Middle | C | Text | 30 | ST | Second And Further Given Names Or Initials Thereof |
| 3 | Type of Legal Representative (Surrogate Decision Maker, Guardian, Conservator, Durable Power of Attorney HC)[[30]](#footnote-30),[[31]](#footnote-31),[[32]](#footnote-32) | C | Alphanumeric | 250 | CE | Relationship |
| ***4*** | ***Legal Representative Address*** |  |  | ***250*** | ***XAD*** | ***Address*** |
|  | Building Number | R | Alphanumeric | 12 | SAD | Dwelling Number |
|  | Line 1 (Street Name) | R | Alphanumeric | 184 | SAD | Street Address |
|  | Line 2 (Apt. No or Unit No) | O | Alphanumeric | 120 | ST | Street Address |
|  | City | R | Text | 50 | ST | City |
|  | County | R | Text | 20 | IS | County |
|  | State/Province | R | Text | 50 | ST | State or Province |
|  | Zip Code  | R | Alphanumeric | 12 | ST | Zip or Postal Code |
|  | Country  | R | Text | 3 | ID | Country |
| ***5*** | ***Legal Representative Phone Number Home*** |  |  | **250** | ***XTN*** |  |
|  | Phone Number – Home | C | Numeric | 199 | ST | Telephone Number |
|  | Phone Number – Cell | C | Numeric | 199 | ST | Telephone Number |
|  | Email Address – Home | O | Alphanumeric | 199 | ST | Email Address |
| ***6*** | ***Legal Representative Phone Number Business*** |  |  | **250** | **XTN** |  |
|  | Phone Number – Business | C | Numeric | 199 | ST | Telephone Number |
|  | Phone Number – Fax | C | Numeric | 199 | ST | Telephone Number |
|  | Email Address – Business | O | Alphanumeric | 199 | ST | Email Address |
|  | ***Legal Representative Occupational Information[[33]](#footnote-33)*** |  |  |  |  |  |
| 34 | Employment Status | O | Text | 250 | CE | Job Status |
| IN1.42 | Employment Status | O | Text | 250 | CE | Insured's Employment Status |
| ***13*** | ***Employer Organization*** | ***C*** | ***Text*** | ***250*** | ***XON*** | ***Insured's Employer Organization Name and ID*** |
| ***IN2.3*** | ***Employer Organization*** | ***C*** | ***Text*** | ***250*** | ***XON*** | ***Insured's Employer Organization Name and ID*** |
|  | Organization Name | C | Text | 50 | ST | Organization Name- NK1 |
|  | Organization Number | C | Numeric | 4 | NM | ID Number |
|  | Organization Identifier | C | Numeric | 20 | ST | Organization Identifier |
| ***IN2.3*** | ***Employer Person*** | ***O*** | ***Alphanumeric*** | ***250*** | ***XCN*** | ***Insured's Employer's Name and ID*** |
|  | Name, Prefix | O | Text | 20 | ST | Prefix |
|  | Name, Last | R | Text | 194 | FN | Family Name  |
|  | Name, Suffix | C | Alphanumeric | 20 | ST | Suffix |
|  | Name, First  | R | Alphanumeric | 30 | ST | Given Name |
|  | Name, Middle | C | Text | 30 | ST | Second and Further Given Names or Initials Thereof |
|  | Degree | O | Text | 5 | IS | Degree |
| ***IN1.44*** | ***Employer Address*** | ***O*** | ***Text*** | ***250*** | ***XAD*** | ***Insured’s Employer Address*** |
|  | Building Number | R | Alphanumeric | 12 | SAD | Dwelling Number |
|  | Line 1 (Street Name) | R | Alphanumeric | 184 | SAD | Street Address |
|  | Line 2 (Apt. No or Unit No) | O | Alphanumeric | 120 | ST | Street Address |
|  | City | R | Text | 50 | ST | City |
|  | County | R | Text | 20 | IS | County |
|  | State/Province | R | Text | 50 | ST | State or Province |
|  | Zip Code  | R | Alphanumeric | 12 | ST | Zip or Postal Code |
|  | Country | R | Text | 3 | ID | Country |
| ***10*** | Occupation  | O | Text | 20 | ST | Next of Kin/Associated Party Job Title |
|  | Industry[[34]](#footnote-34) | O | Text | 250 |  |  |

### Patient Visit and Provider Information

Based on HL7 Patient Visit Segment (PV1). Need to verify against UB04 requirements

***NNN*** –Bold, italic font, shaded row indicates the data element that contains additional data element components. Blank SEQ cell indicates that the data element components carry the same SEQ number as the main data element

| **SEQ** | **Data Element** | **Opt** | **Format** | **Len** | **HL7 DataType** | **HL7 Data Element Name** |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***Patient Visit information*** |  |  |  |  |  |
| PID.1[[35]](#footnote-35) | Enterprise Master Patient Index (EMPI) | R | Alphanumeric | 204, HL7 | SI | Set-ID - PID |
| PID.2[[36]](#footnote-36) | Medical Record Number (MRN)  | R | Alphanumeric | 20 | CX | Patient ID |
| \* | Episode of Care Number[[37]](#footnote-37) | R | Alphanumeric | 250 | CX |  |
| 19 | Visit/Encounter Number (account number)[[38]](#footnote-38) | R | Alphanumeric | 250 | CX | Visit Number |
| 5 | Pre-Visit Number | C | Numeric | 250 | CX | Preadmit Number |
| 4 | Visit Type | C | Alphanumeric | 2 | IS | Admission Type |
| 44 | Visit Date/Time | C | Timestamp | 26 | TS | Admit Date/Time |
|  | Reason for Visit |  |  |  |  |  |
|  | Visit Site |  |  |  |  |  |
| 2 | Patient Class | R | Text | 1 | IS | Patient Class |
| 18 | Patient Type | C | Alphanumeric | 2 | IS | Patient Type |
| **PD1.3****[[39]](#footnote-39)** | ***Patient Primary Care Facility*** | C | Alphanumeric | 250 | XON | Patient Primary Facility |
|  | Facility Name | R | Alphanumeric | 50 | ST | Organization Name |
|  | Facility NPI | R | Numeric | 20 | ST | Organization Identifier |
|  | State Medicaid Registration Number - find the right term | C | Numeric | 4 | NM | ID Number |
| **PD1.4** | ***Patient Primary Care Provider*** | C | Alphanumeric | 250 | XCN | Patient Primary Care Provider Name & ID No.  |
|  | NPI (National Provider Identifier) | R | Numeric | 15 | ST | ID Number |
|  | Name, Prefix | O | Text | 20 | ST | Prefix |
|  | Name, Last | R | Text | 194 | FN | Family Name |
|  | Name, Suffix | C | Alphanumeric | 20 | ST | Suffix |
|  | Name, First  | R | Alphanumeric | 30 | ST | Given Name |
|  | Name, Middle | C | Text | 30 | ST | Second And Further Given Names Or Initials Thereof |
|  | Degree | C | Alphanumeric | 5 | IS | Degree (e.g. MD) |
| **ROL.11*[[40]](#footnote-40)*** | ***Patient Primary Care Facility Address*** |  |  | ***250*** | ***XAD*** | ***Office/Home Address/Birthplace*** |
|  | Building Number | R | Alphanumeric | 12 | SAD | Dwelling Number |
|  | Line 1 (Street Name) | R | Alphanumeric | 184 | SAD | Street Address |
|  | Line 2 (Apt. No or Unit No) | O | Alphanumeric | 120 | ST | Street Address |
|  | City | R | Text | 50 | ST | City |
|  | County | R | Text | 20 | IS | County |
|  | State/Province | R | Text | 50 | ST | State or Province |
|  | Zip Code  | R | Alphanumeric | 12 | ST | Zip or Postal Code |
|  | Country | R | Text | 3 | ID | Country |
| **ROL.12** | ***Patient Primary Care Facility Phone Number*** |  |  | **250** | **XTN** | ***Phone*** |
|  | Phone Number – Business | R | Numeric | 199 | ST | Telephone Number |
|  | Phone Number – Fax | C | Numeric | 199 | ST | Telephone Number |
|  | Email Address – Business | O | Alphanumeric | 199 | ST | Email Address |
|  | ***Patient Locations*** |  |  |  |  |  |
| ***3*** | ***Current Location*** | ***R*** | ***Alphanumeric*** | ***80*** | ***PL*** | ***Assigned Patient Location*** |
|  | Location Identifier | C | Numeric | 427 | EI | Comprehensive Location Identifier |
|  | Location Description | C | Text | 199 | ST | Location Description |
|  | Room Number | O | Text | 20 | IS | Room |
|  | Bed Number | O | Text | 20 | IS | Bed |
|  | Building Number/Name | O | Text | 20 | IS | Building |
|  | Floor Number | O | Text | 20 | IS | Floor |
|  | Location Type | C | Text | 20 | IS | Person Location Type |
| ***6*** | ***Prior Patient Location*** | ***C*** | ***Text*** | ***80*** | ***PL*** | ***Prior Patient Location*** |
|  | Location Identifier | C | Numeric | 427 | EI | Comprehensive Location Identifier |
|  | Location Description | C | Text | 199 | ST | Location Description |
|  | Room Number | O | Text | 20 | IS | Room |
|  | Bed Number | O | Text | 20 | IS | Bed |
|  | Building Number | O | Text | 20 | IS | Building |
|  | Floor Number | O | Text | 20 | IS | Floor |
|  | Location Type | C | Text | 20 | IS | Person Location Type |
| ***11*** | ***Temporary Location*** | ***C*** | ***Alphanumeric*** | ***80*** | ***PL*** | ***Temporary Location*** |
|  | Location Identifier | C | Numeric | 427 | EI | Comprehensive Location Identifier |
|  | Location Description | C | Text | 199 | ST | Location Description |
|  | Room Number | O | Text | 20 | IS | Room |
|  | Bed Number | O | Text | 20 | IS | Bed |
|  | Building Number/Name | O | Text | 20 | IS | Building |
|  | Floor Number | O | Text | 20 | IS | Floor |
|  | Location Type | C | Text | 20 | IS | Person Location Type |
| ***PV2.23*** | ***Episode of Care Facility***  | ***C*** | ***Text*** | ***250*** | ***XON*** | ***Clinic Organization Name*** |
|  | Name | C | Text | 50 | ST | Organization Name |
|  | Number | C | Numeric | 4 | NM | ID Number |
|  | Identifier | C | Numeric | 20 | ST | Organization Identifier |
| ***ROL.11[[41]](#footnote-41)*** | ***Episode of Care Facility Address*** |  |  | ***250*** | ***XAD*** | ***Office/Home Address/Birthplace*** |
|  | Building Number | R | Alphanumeric | 12 | SAD | Dwelling Number |
|  | Line 1 (Street Name) | R | Alphanumeric | 184 | SAD | Street Address |
|  | Line 2 (Apt. No or Unit No) | O | Alphanumeric | 120 | ST | Street Address |
|  | City | R | Text | 50 | ST | City |
|  | County | R | Text | 20 | IS | County |
|  | State/Province | R | Text | 50 | ST | State or Province |
|  | Zip Code  | R | Alphanumeric | 12 | ST | Zip or Postal Code |
|  | Country  | R | Text | 3 | ID | Country |
| ***ROL.12*** | ***Episode of Care Facility Phone Number*** |  |  | ***250*** | ***XTN*** | ***Phone*** |
|  | Phone Number – Business | R | Numeric | 199 | ST | Telephone Number |
|  | Phone Number – Fax | C | Numeric | 199 | ST | Telephone Number |
|  | Email Address – Business | O | Alphanumeric | 199 | ST | Email Address |
|  | ***Physicians*** |  |  |  |  |  |
| ***7*** | ***Attending Physician*** | ***C*** | ***Alphanumeric*** | ***250*** | ***XCN*** | ***Attending Doctor***  |
|  | ID Number | R | Alphanumeric |  |  |  |
|  | Name, Prefix | O | Text | 20 | ST | Prefix |
|  | Name, Last | R | Text | 194 | FN | Family Name |
|  | Name, Suffix | C | Alphanumeric | 20 | ST | Suffix |
|  | Name, First  | R | Alphanumeric | 30 | ST | Given Name |
|  | Name, Middle | C | Text | 30 | ST | Second And Further Given Names Or Initials Thereof |
|  | Degree | C | Alphanumeric | 5 | IS | Degree (e.g. MD) |
| ***8*** | ***Referring Physician[[42]](#footnote-42)*** | ***C*** | ***Alphanumeric*** | ***250*** | ***XCN*** | ***Referring Doctor***  |
|  | ID Number | R | Alphanumeric |  |  |  |
|  | Name, Prefix | O | Text | 20 | ST | Prefix |
|  | Name, Last | R | Text | 194 | FN | Family Name |
|  | Name, Suffix | C | Alphanumeric | 20 | ST | Suffix |
|  | Name, First  | R | Alphanumeric | 30 | ST | Given Name |
|  | Name, Middle | C | Text | 30 | ST | Second And Further Given Names Or Initials Thereof |
|  | Degree | C | Alphanumeric | 5 | IS | Degree (e.g. MD) |
| ***17*** | ***Admitting Physician[[43]](#footnote-43)*** | ***C*** | ***Alphanumeric*** | ***250*** | ***XCN*** | ***Admitting Doctor***  |
|  | ID Number | R | Alphanumeric |  |  |  |
|  | Name, Prefix | O | Text | 20 | ST | Prefix |
|  | Name, Last | R | Text | 194 | FN | Family Name |
|  | Name, Suffix | C | Alphanumeric | 20 | ST | Suffix |
|  | Name, First  | R | Alphanumeric | 30 | ST | Given Name |
|  | Name, Middle | C | Text | 30 | ST | Second And Further Given Names Or Initials Thereof |
|  | Degree | C | Alphanumeric | 5 | IS | Degree (e.g. MD) |
|  | ***Consulting and Other Physicians[[44]](#footnote-44)*** | ***C*** |  |  |  | ***From HL7 ROL Segment*** |
| ROL.3 | Physician Role | R | Text | 250 | CE | Role-ROL |
| 10 | Hospital Service | C | Text | 3 | IS | Hospital Service |
| 13 | Readmission Indicator | O | Text | 2 | IS | Re-admission Indicator |
| 14 | Source of Admission | O | Text | 6 | IS | Admit Source |
| 15 | Ambulatory Status | O | Text | 2 | IS | Ambulatory Status |
| 16 | VIP Status | O | Text | 2 | IS | VIP Indicator |
| 20 | Financial Class | C | Alphanumeric | 50 | FC | Financial Class |
| 36 | Discharge Status | C | Alphanumeric | 3 | IS | Discharge Disposition |
| ***37*** | ***Discharged To Location*** | ***C*** | ***Alphanumeric*** | ***47*** | ***DLD*** | ***Discharge To Location*** |
|  | Discharged To Location Date | C | Timestamp | 26 | TS | Effective Date |
| 45 | Discharge Date/Time | C | Timestamp | 26 | TS | Discharge Date/Time |
| PV2.3[[45]](#footnote-45) | Reason for Visit | R | Text | 250 | CE | Admit Reason |
| PV2.2 | Visit Status | C | Text | 2 | IS | Patient Status Code |
| PV2.45 | Visit Status Date | C | Timestamp | 8 | DT | Patient Status Effective Date |
| PV2.25 | Priority | C | Text | 1 | IS | Visit Priority Code |
| PV2.36 | Newborn Baby  | C | Text | 1 | ID | Newborn Baby Indicator |
| PV2.38 | Arrival Mode | C | Text | 250 | CE | Mode of Arrival |
| PV2.40 | Patient Acuity | C | Text | 250 | CE | Admission Level of Care |
| PV2.43 | Living Will | C | Text | 2 | IS | Living Will Code |
| PV2.44 | Organ Donor | C | Text | 2 | IS | Organ Donor Code |
| PV2.45 | Advance Directive | C | Text | 250 | CE | Advance Directive Code |

### Insurance Information

Based on HL7 v2.5 Insurance (IN1) Segment

***NNN*** –Bold, italic font, shaded row indicates the data element that contains additional data element components. Blank SEQ cell indicates that the data element components carry the same SEQ number as the main data element.

| **SEQ** | **Data Element** | **Opt** | **Format** | **Len** | **HL7 DataType** | **HL7 Data Element Name** |
| --- | --- | --- | --- | --- | --- | --- |
| PID.1[[46]](#footnote-46) | Enterprise Master Patient Index (EMPI) | R | Alphanumeric | 204, HL7 | SI | Set-ID - PID |
| PID.2[[47]](#footnote-47) | Medical Record Number (MRN)  | R | Alphanumeric | 20 | CX | Patient ID |
| \* | Episode of Care Number[[48]](#footnote-48) | R | Alphanumeric | 250 | CX |  |
| 19 | Visit/Encounter Number (account number)[[49]](#footnote-49) | R | Alphanumeric | 250 | CX | Visit Number |
| 5 | Pre-Visit Number | C | Numeric | 250 | CX | Preadmit Number |
| ***PV2.23*** | ***Episode of Care Facility***  | ***C*** | ***Text*** | ***250*** | ***XON*** | ***Clinic Organization Name*** |
|  | Name | C | Text | 50 | ST | Organization Name |
|  | Number | C | Numeric | 4 | NM | ID Number |
|  | Identifier | C | Numeric | 20 | ST | Organization Identifier |
| ***ROL.11[[50]](#footnote-50)*** | ***Episode of Care Facility Address*** |  |  | ***250*** | ***XAD*** | ***Office/Home Address/Birthplace*** |
|  | Building Number | R | Alphanumeric | 12 | SAD | Dwelling Number |
|  | Line 1 (Street Name) | R | Alphanumeric | 184 | SAD | Street Address |
|  | Line 2 (Apt. No or Unit No) | O | Alphanumeric | 120 | ST | Street Address |
|  | City | R | Text | 50 | ST | City |
|  | County | R | Text | 20 | IS | County |
|  | State/Province | R | Text | 50 | ST | State or Province |
|  | Zip Code  | R | Alphanumeric | 12 | ST | Zip or Postal Code |
|  | Country  | R | Text | 3 | ID | Country |
| ***ROL.12*** | ***Episode of Care Facility Phone Number*** |  |  | ***250*** | ***XTN*** | ***Phone*** |
|  | Phone Number – Business | R | Numeric | 199 | ST | Telephone Number |
|  | Phone Number – Fax | C | Numeric | 199 | ST | Telephone Number |
|  | Email Address – Business | O | Alphanumeric | 199 | ST | Email Address |
| 1 |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |
| 3 | Insurance Company ID[[51]](#footnote-51) | R | Numeric | 250 | CX | Insurance Company ID |
| 4 | Insurance Company Name | R | Alphanumeric  | 250 | XON | Insurance Company Name |
| ***5*** |  ***Insurance Provider (Payer) Address*** | R |  | 250 | XAD | Insurance Company Address |
|  | Building Number | R | Alphanumeric | 12 | SAD | Dwelling Number |
|  | Line 1 (Street Name) | R | Alphanumeric | 184 | SAD | Street Address |
|  | Line 2 (Apt. No or Unit No) | O | Alphanumeric | 120 | ST | Street Address |
|  | City | R | Text | 50 | ST | City |
|  | County | R | Text | 20 | IS | County |
|  | State/Province | R | Text | 50 | ST | State or Province |
|  | Zip Code  | R | Alphanumeric | 12 | ST | Zip or Postal Code |
|  | Country | R | Text | 3 | ID | Country |
| ***6*** | ***Insurance Company Contact*** | ***R*** |  | **250** | ***XPN*** | ***Name*** |
|  | Name, Prefix | O | Text | 20 | ST | Prefix |
|  | Name, Last | R | Text | 194 | FN | Family Name |
|  | Name, Suffix | C | Alphanumeric | 20 | ST | Suffix |
|  | Name, First  | R | Alphanumeric | 30 | ST | Given Name |
|  | Name, Middle | C | Text | 30 | ST | Second And Further Given Names Or Initials Thereof |
| ***7*** | ***Insurance Company Phone Number Business*** |  |  | **250** | **XTN** |  |
|  | Phone Number – Business | R | Numeric | 199 | ST | Telephone Number |
|  | Phone Number – Fax | C | Numeric | 199 | ST | Telephone Number |
|  | Email Address – Business | O | Alphanumeric | 199 | ST | Email Address |
| 15 | Payer Type[[52]](#footnote-52) | R | Numeric | 5[[53]](#footnote-53) | IS | Plan Type |
|  | ***Guarantor Information******[[54]](#footnote-54)*** |  |  |  |  |  |
| GT1.2 | Guarantor Number | C | Numeric | 250 | CX | Guarantor Number |
| ***GT1.3*** | ***Guarantor Name*** | ***R*** | ***Text*** | ***250*** | ***XPN*** | ***Guarantor Name*** |
|  | Name, Prefix | O | Text | 20 | ST | Prefix |
|  | Name, Last | R | Text | 194 | FN | Family Name |
|  | Name, Suffix | C | Alphanumeric | 20 | ST | Suffix |
|  | Name, First  | R | Alphanumeric | 30 | ST | Given Name |
|  | Name, Middle | C | Text | 30 | ST | Second And Further Given Names Or Initials Thereof |
| ***GT1.5*** | ***Guarantor Address*** | ***R*** | ***Alphanumeric*** | ***250*** | ***XAD*** | ***Guarantor Address*** |
|  | Building Number | R | Alphanumeric | 12 | SAD | Dwelling Number |
|  | Line 1 (Street Name) | R | Alphanumeric | 184 | SAD | Street Address |
|  | Line 2 (Apt. No or Unit No) | O | Alphanumeric | 120 | ST | Street Address |
|  | City | R | Text | 50 | ST | City |
|  | County | R | Text | 20 | IS | County |
|  | State/Province | R | Text | 50 | ST | State or Province |
|  | Zip Code  | R | Alphanumeric | 12 | ST | Zip or Postal Code |
|  | Country  | R | Text | 3 | ID | Country |
| ***GT1.6*** | ***Guarantor Home Phone*** | ***R*** | ***Numeric*** | ***250*** | ***XTN*** | ***Guarantor Ph Num - Home*** |
|  | Phone Number – Home | C | Numeric | 199 | ST | Telephone Number |
|  | Phone Number – Fax | C | Numeric | 199 | ST | Telephone Number |
|  | Email Address – Home | O | Alphanumeric | 199 | ST | Email Address |
| ***GT1.7*** | ***Guarantor Business Phone*** | ***R*** | ***Numeric*** | ***250*** | ***XTN*** | ***Guarantor Ph Num - Business*** |
|  | Phone Number – Business | C | Numeric | 199 | ST | Telephone Number |
|  | Phone Number – Fax | C | Numeric | 199 | ST | Telephone Number |
|  | Email Address – Business | O | Alphanumeric | 199 | ST | Email Address |
| GT1.11 | Guarantor Relationship | R | Text | 250 | CE | Guarantor Relationship |
| GT1.12 | Guarantor SSN | R | Numeric | 11 | ST | Guarantor SSN |
|  | ***Insured (Subscriber)*** |  |  |  |  | *I****nsured*** |
| 36 | Policy Number  | R | Alphanumeric | 15 | ST | Policy Number |
| 8 | Group Number | R | Alphanumeric | 12 | ST | Group Number |
| 12 | Policy Effective Date | R | Time Stamp | 8 | DT | Plan Effective Date |
| IN2.6[[55]](#footnote-55) | Medicare Health Insurance Card Number | C | Numeric | 15 | ST | Medicare Health Ins Card Number  |
| ***16*** | ***Insured Name***  |  |  | **250** | ***XPN*** | ***Name*** |
|  | Name, Prefix | O | Text | 20 | ST | Prefix |
|  | Name, Last | R | Text | 194 | FN | Family Name |
|  | Name, Suffix | C | Alphanumeric | 20 | ST | Suffix |
|  | Name, First  | R | Alphanumeric | 30 | ST | Given Name |
|  | Name, Middle | C | Text | 30 | ST | Second And Further Given Names Or Initials Thereof |
| 18 | Insured Date of Birth | R | Time Stamp | 26 | TS | Insured Date of Birth |
| 17 | Insured Relationship to Patient | R | Alphanumeric[[56]](#footnote-56)  | 250 | CE | Insured Relationship to Patient |
| ***19*** | ***Insured Address*** | ***R*** |  | ***250*** | ***XAD*** | ***Insured Address*** |
|  | Building Number | R | Alphanumeric | 12 | SAD | Dwelling Number |
|  | Line 1 (Street Name) | R | Alphanumeric | 184 | SAD | Street Address |
|  | Line 2 (Apt. No or Unit No) | O | Alphanumeric | 120 | ST | Street Address |
|  | City | R | Text | 50 | ST | City |
|  | County | R | Text | 20 | IS | County |
|  | State/Province | R | Text | 50 | ST | State or Province |
|  | Zip Code  | R | Alphanumeric | 12 | ST | Zip or Postal Code |
|  | Country  | R | Text | 3 | ID | Country |
|  | ***Coverage Information*** |  |  |  |  |  |
| 37 | Policy Deductible | R | Text | 12 | CP | Policy Deductible |
| UB2-UB92.4[[57]](#footnote-57) UB1-UB82.8[[58]](#footnote-58) | Covered Days | C | Number | 3 | ST | Covered Days |
|  | Payor Estimated Amount Due | R | Alphanumeric | 250 |  |  |
|  | Co-pay | R | Alphanumeric | 250 |  |  |
| 50 | Signature of Insured  | R |  | 1 | IS | Signature Code |
| 51 | Signature Date | R | Time Stamp | 8 | DT | Signature Code Date |
|  | ***Verification Information*** |  |  |  |  |  |
| 29 | Verification Date/Time | R | Time Stamp | 26 | TS | Verification Date/Time |
| ***30*** | ***Signature of Insurance Verifier*** | ***R*** |  | ***250*** | ***XCN*** | ***Verification By*** |
|  | ID Number | R | Alphanumeric |  |  |  |
|  | Name, Prefix | O | Text | 20 | ST | Prefix |
|  | Name, Last | R | Text | 194 | FN | Family Name |
|  | Name, Suffix | C | Alphanumeric | 20 | ST | Suffix |
|  | Name, First  | R | Alphanumeric | 30 | ST | Given Name |
|  | Name, Middle | C | Text | 30 | ST | Second And Further Given Names Or Initials Thereof |

### Patient Payment Information

Based on HL7 Financial Transaction Segment (FT1). Need to verify against UB04 requirements.

***NNN*** –Bold, italic font, shaded row indicates the data element that contains additional data element components. Blank SEQ cell indicates that the data element components carry the same SEQ number as the main data element.

| **SEQ** | **Data Element** | **Opt** | **Format** | **Len** | **HL7 Data Type** | **HL7 Data Element Name** |
| --- | --- | --- | --- | --- | --- | --- |
| PID.1[[59]](#footnote-59) | Enterprise Master Patient Index (EMPI) | R | Alphanumeric | 204, HL7 | SI | Set-ID - PID |
| PID.2[[60]](#footnote-60) | Medical Record Number (MRN)  | R | Alphanumeric | 20 | CX | Patient ID |
| \* | Episode of Care Number[[61]](#footnote-61) | R | Alphanumeric | 250 | CX |  |
| 19 | Visit/Encounter Number (account number)[[62]](#footnote-62) | R | Alphanumeric | 250 | CX | Visit Number |
| 5 | Pre-Visit Number | C | Numeric | 250 | CX | Preadmit Number |
|  | Episode of Care Facility |  |  |  |  |  |
| ***PV2.23*** | ***Episode of Care Facility***  | ***C*** | ***Text*** | ***250*** | ***XON*** | ***Clinic Organization Name*** |
|  | Name | C | Text | 50 | ST | Organization Name |
|  | Number | C | Numeric | 4 | NM | ID Number |
|  | Identifier | C | Numeric | 20 | ST | Organization Identifier |
| ***ROL.11[[63]](#footnote-63)*** | ***Episode of Care Facility Address*** |  |  | ***250*** | ***XAD*** | ***Office/Home Address/Birthplace*** |
|  | Building Number | R | Alphanumeric | 12 | SAD | Dwelling Number |
|  | Line 1 (Street Name) | R | Alphanumeric | 184 | SAD | Street Address |
|  | Line 2 (Apt. No or Unit No) | O | Alphanumeric | 120 | ST | Street Address |
|  | City | R | Text | 50 | ST | City |
|  | County | R | Text | 20 | IS | County |
|  | State/Province | R | Text | 50 | ST | State or Province |
|  | Zip Code  | R | Alphanumeric | 12 | ST | Zip or Postal Code |
|  | Country  | R | Text | 3 | ID | Country |
| ***ROL.12*** | ***Episode of Care Facility Phone Number*** |  |  | ***250*** | ***XTN*** | ***Phone*** |
|  | Phone Number – Business | R | Numeric | 199 | ST | Telephone Number |
|  | Phone Number – Fax | C | Numeric | 199 | ST | Telephone Number |
|  | Email Address – Business | O | Alphanumeric | 199 | ST | Email Address |
|  | ***Payment Identification*** |  |  |  |  |  |
| 1 | Payment ID | R | Alphanumeric | 20 | SI | Set-ID – FT1 |
| ***4*** | ***Encounter Dates*** | ***R*** | ***Timestamp*** | ***53*** | ***DR*** | ***Transaction Date*** |
|  | Date of Admission | R | Timestamp | 26 | DTM | Range Start Date/Time |
|  | Date of Discharge | O | Timestamp | 26 | DTM | Range End Date/Time |
| 5 | Payment Posting Date | R | Timestamp | 26 | TS | Transaction Posting Date |
|  | ***Payment Information*** |  |  |  |  |  |
| 6 | Payment Type | R | Text | 8 | IS | Transaction Type |
| 7 | Billing Code | R | Alphanumeric | 250 | CE | Transaction Code |
| 10 | Units | O | Numeric | 6 | NM | Transaction Quantity |
| 11 | Payment Amount | O | Numeric | 12 | CP | Transaction Amount – Extended |
| 13 | Department | O | Alphanumeric | 250 | CE | Department Code |
| 14 | Insurance Plan | R | Alphanumeric | 250 | CE | Insurance Plan ID |
| 15 | Insurance Amount | O | Numeric | 12 | CP | Insurance Amount |
| 16 | Service Location | C | Alphanumeric | 80 | PL | Assigned Patient Location  |
| 17 | Fee Schedule | C | Alphanumeric | 1 | IS | Fee Schedule |
|  | ***Encounter/Visit information*** |  |  |  |  |  |
| 18 | Type of Encounter[[64]](#footnote-64) | C | Alphanumeric | 2 | IS | Patient Type |
| 19 | Principal Diagnosis[[65]](#footnote-65) | C | Alphanumeric | 250 | CE | Diagnosis Code |
| 25 | Principal Procedure | C | Alphanumeric | 250 | CE | Procedure Code |
| 26 | HCPCS/ HIPPS Code | C | Alphanumeric | 250 | CE | Procedure Code Modifier |
| ***20*** | ***Service Provider*** | ***R*** | ***Alphanumeric*** | ***250*** | ***XCN*** | ***Performed By Code*** |
|  | ID Number | R | Alphanumeric |  |  |  |
|  | Name, Prefix | O | Text | 20 | ST | Prefix |
|  | Name, Last | R | Text | 194 | FN | Family Name |
|  | Name, Suffix | C | Alphanumeric | 20 | ST | Suffix |
|  | Name, First  | R | Alphanumeric | 30 | ST | Given Name |
|  | Name, Middle | C | Text | 30 | ST | Second And Further Given Names Or Initials Thereof |
|  | Degree | C | Alphanumeric | 5 | IS | Degree (e.g. MD) |
| ***21*** | ***Ordering Provider*** | ***C*** | ***Alphanumeric*** | ***250*** | ***XCN*** | ***Ordered By Code*** |
|  | ID Number | R | Alphanumeric |  |  |  |
|  | Name, Prefix | O | Text | 20 | ST | Prefix |
|  | Name, Last | R | Text | 194 | FN | Family Name |
|  | Name, Suffix | C | Alphanumeric | 20 | ST | Suffix |
|  | Name, First  | R | Alphanumeric | 30 | ST | Given Name |
|  | Name, Middle | C | Text | 30 | ST | Second And Further Given Names Or Initials Thereof |
|  | Degree | C | Alphanumeric | 5 | IS | Degree (e.g. MD) |

### Chief Complaint, Reason for Visit, ABN

1. Chief complaint
2. Reason for visit
3. Advance Beneficiary Notice (ABN)

### Patient Procedure Information

Based on HL7 Procedure Segment (PR1). From HL7 v2.5 only - Still need verification against IHE BPPC.

 Need to verify against UB04 requirements.

| **SEQ** | **Data Element** | **Opt** | **Format** | **Len** | **HL7 Data Type** | **HL7 Data Element Name** |
| --- | --- | --- | --- | --- | --- | --- |
| 19 | Procedure Identifier | R | Numeric | 427 | EI | Procedure Identifier |
| 3 | Procedure Code | R | Alphanumeric | 250 | CE | Procedure Code |
| 5 | Procedure Date | R | Timestamp | 26 | TS | Procedure Date/Time |
| 13 | Consent for Surgical Procedure | R | Text | 250 | CE | Consent Code |
| 15 | Related Diagnosis Code | R | Text | 250 | CE | Associated Diagnosis Code |

### Consents for Visit

(BCCP/ APPC)

1. Conditions of Admission and Treatment (Consent Form)
2. Guardianship/Power of Attorney
3. Personal Representative Authorization
4. Consent for surgical procedure (Informed Consent)
5. Advance directives (Living will)
6. Do not attempt resuscitation (DNAR) Form Do not resuscitate
7. EBOLA & MERS screening
8. Physician Order for Life-Sustaining Treatment Form (POLST)

### Consent for Information Sharing

### Wristband (patient ID bracelet with barcodes)

### Notification of Record Availability

Get from IHE NAV Profile

### Acknowledgement of Receipt

Get from IHE NAV Profile

### Audit Record

Who, When, Why, What

Get from S&I Data Provenance or HL7

1. Patient’s Full Name
2. Medical Record Number
3. Date of birth
4. Address
5. Date(s) of Service Accessed
6. Information Accessed
7. Name of person accessing record
8. Date Record Accessed
9. Access Purpose (treatment, payment, operations [TPO])
1. Integrating the Healthcare Enterprise (IHE). Information Technology Infrastructure (ITI) Technical Framework (TF) Supplement. Health IT Standards for HIM Practices. White Paper. 2015. URL: <http://qrs.ly/lb4vec0> [↑](#footnote-ref-1)
2. Integrating the Healthcare Enterprise (IHE). Information Technology Infrastructure (ITI) Technical Framework (TF) Supplement. Health IT Standards for HIM Practices. White Paper. 2015. URL: <http://qrs.ly/lb4vec0> [↑](#footnote-ref-2)
3. Bruegge B. and Dutoit AH. Object-Oriented Software Engineering. Pearson Prentice Hall. Upper Saddle River, NJ. 3rd Edition. pp.121-170. [↑](#footnote-ref-3)
4. Ibid. p.50. [↑](#footnote-ref-4)
5. Ibid. p.30-74. [↑](#footnote-ref-5)
6. Integrating the Healthcare Enterprise (IHE). Information Technology Infrastructure (ITI) Technical Framework (TF) Supplement. Health IT Standards for HIM Practices. White Paper. 2015. URL: <http://qrs.ly/lb4vec0> [↑](#footnote-ref-6)
7. ECRI. Recommendations for Health IT Patient Safety. Webinar: July 19th Quarterly Conference Call of the Partnership for Health IT Patient Safety 2016. [↑](#footnote-ref-7)
8. Kuhn T, Basch P, Barr M, etal. Clinical Documentation in the 21st Century. An Executive Summary of a Position Paper from The American College of Physicians. Annals of Internal Medicine. 2015. 162(4): 301-314. URL: http://annals.org/aim/article/2089368/clinical-documentation-21st-century-executive-summary-policy-position-paper-from [↑](#footnote-ref-8)
9. AHIMA, Pocket Glossary of Health Information Management and Technology. Chicago, IL. 2014, p. 127. [↑](#footnote-ref-9)
10. Ibid, p. 29. [↑](#footnote-ref-10)
11. Ibid, p. 127. [↑](#footnote-ref-11)
12. Ibid, p. 53. [↑](#footnote-ref-12)
13. Grzybowski D. Strategies for electronic document and health record management. AHIMA. Chicago, IL. 2014. pp. 31,40,47,159. [↑](#footnote-ref-13)
14. Health Level Seven (HL7). Conformance Implementation Manual. 2.B.7.2 Usage in v2.x Standard. 2006. URL: <http://wiki.hl7.org/index.php?title=Conformance_Implementation_Manual>. Please note that HL7 optionality codes include R, C and O. In some cases, when in the HL7 standard the data field was listed as optional or otherwise not required , IHE further constrains the HL7 optionality as follows:

**R** - sending application shall provide a valid value for all “R” fields.  The value shall be of the specified type and within the range specified for the field; **R2** - an IHE extension - if the sending application has data for the field, it is required to populate the field. If the value is not known, the field may not be sent; **R+ -** an IHE extension - in the context of a specific transaction, IHE requires that this field be present and populated with data.” (IHE Terminology. URL:) IHE uses R+ to help call out to the reader that the baseline standard does not require this attribute, but the IHE transaction does make this mandatory. [↑](#footnote-ref-14)
15. Integrating Healthcare Enterprise (IHE). Information Technology Infrastructure (ITI) Committee. Technical Framework (TF). Patient Identity Segment. Volume 2a. p.40-42. URL: <http://www.ihe.net/uploadedFiles/Documents/ITI/IHE_ITI_TF_Vol2a.pdf> [↑](#footnote-ref-15)
16. NOTE: Episode of care may have multiple visits to different departments, or series of visits under an account number. Some systems call this an encounter number; CSN – Contact Serial Number – in EPIC [↑](#footnote-ref-16)
17. This data element is available in the HL7 PV1 (Patient Visit) segment, and included here for completeness of patient registration information from the user perspectives. [↑](#footnote-ref-17)
18. NOTE: Encounter Number is an individual visit number with unique start and end time under a series of visits in the episode of care. [↑](#footnote-ref-18)
19. HL7 SEQ Number 4 represents Alternate Patient ID. It is retained for back compatibility with HL7v2.3 where this code was used. It is not used in the newer versions of HL7 standards where Alternate Patient ID is a part of Forms of Patient Identification (SEQ 3). [↑](#footnote-ref-19)
20. This data element is available in the Hl7 SEQ Number 19 in the HL7v2.x PID segment. [↑](#footnote-ref-20)
21. This data element is available in the HL7 SEQ Number 20 in the HL7v2.x PID segment. [↑](#footnote-ref-21)
22. Trans-gender is not recognized at this time in IHE. [↑](#footnote-ref-22)
23. HL7 v3: Female/Male/Undifferentiated (F/M/U) format. This format is also used by the Centers for Disease Control and Prevention (CDC). Public Health Information Network (PHIN) Vocabulary Access and Distribution System (VADS). PHIN-VADS Administrative Gender. URL: <https://phinvads.cdc.gov/vads/ViewValueSet.action?id=8DE75E17-176B-DE11-9B52-0015173D1785> [↑](#footnote-ref-23)
24. In Meaningful Use: Female/Male/Unknown (F/M/UNK). Common Clinical Data Set (CCDS) for Meaning Use. Birth Sex Codes. URL: <https://www.healthit.gov/sites/default/files/2015Ed_CCG_a5-Demographics.pdf>. [↑](#footnote-ref-24)
25. FIND REFERENCE - Race Table in US Census (X options) and /or CDC (3000 options) [↑](#footnote-ref-25)
26. HL7 SEQ Number 12 represents County Code. It is retained for back compatibility with HL7 v2.3 where this code was used. It is not used in newer versions of HL7 where county is a part of address (SEQ 11). [↑](#footnote-ref-26)
27. Race Table in US Census (X options) and /or CDC (3000 options) [↑](#footnote-ref-27)
28. Occupational Information is not collected in HL7 PID. It is collected in insurance section HL7 IN1. AHIMA NEEDS TO DECIDE – where to have Occupational Information ( in Pt Registration Information or Insurance information) [↑](#footnote-ref-28)
29. KQ-I don’t see where this is referenced in HL7. There is Job Class – is that the same? [↑](#footnote-ref-29)
30. State of Connecticut. Probate Court User Guide for Conservators. 2016. URL: ctprobate.gov. [↑](#footnote-ref-30)
31. FindLaw. Web Resource. Definition of Guardian. 2016. URL: http://family.findlaw.com/guardianship/how-to-establish-guardianship-of-a-child-faqs.html [↑](#footnote-ref-31)
32. Reisbick B. Personal Communication, September 20, 2016

***Surrogate Healthcare Decision-Makers*** are advocates for incompetent patients due to: Immaturity; Mental Incapacity (Temporary or Permanent); Cognitive Impairment; Nearing End of Life; or otherwise unable/unwilling to make decisions regarding their personal healthcare. There is high variability under various state laws. Often, where there is no designated Surrogate for Healthcare Decisions, the Healthcare Surrogate may be selected in a descending order of priority from: (a) Patient’s Guardian (or Conservator) of the Person; (b) Patient’s Spouse; (c) Either Parent; (d) Adult Son or Daughter. Terms in use: ***Guardian of the Person with Authority*** makes healthcare (not business) decisions; ***Designee of a Durable Power of Attorney for Healthcare*** (not business) decisions. Surrogate healthcare decision-making guiding factors: (a) the Patient’s prior stated wishes or preferences; (b) the Patient’s personal values, religious preference, beliefs about life and death, dignity, etc; or (c) the Patient’s best Interests. [↑](#footnote-ref-32)
33. Occupational Information is not collected in HL7 PID. It is collected in insurance section HL7 IN1. AHIMA NEEDS TO DECIDE – where to have Occupational Information ( in Pt Registration Information or Insurance information) [↑](#footnote-ref-33)
34. KQ-I don’t see where this is referenced in HL7. There is Job Class – is that the same? [↑](#footnote-ref-34)
35. This data element is available in the HL7 Patient Identification (PID) segment [↑](#footnote-ref-35)
36. This data element is available in the HL7 Patient Identification (PID) segment [↑](#footnote-ref-36)
37. NOTE: Episode of care may have multiple visits to different departments, or series of visits under an account number. Some systems call this an encounter number; CSN – Contact Serial Number – in EPIC [↑](#footnote-ref-37)
38. NOTE: Encounter Number is an individual visit number with unique start and end time under a series of visits in the episode of care. [↑](#footnote-ref-38)
39. Primary Care Facility and Physician Informationprovided in HL7 v2.5 Patient Additional Demographic (PD1) Segment, shown here for completeness [↑](#footnote-ref-39)
40. Additional details about Consulting Physicians or Other Physicians are added using the HL7 v2.5 ROL Segment as shown [↑](#footnote-ref-40)
41. Additional details about Consulting Physicians or Other Physicians are added using the HL7 v2.5 ROL Segment as shown [↑](#footnote-ref-41)
42. It is recommended that when this field is populated, the segment PV1/PV2 be followed by a ROL segment containing the details on the role assumed by the attending doctor per IHE IT Infrastructure Technical Framework, Volume 2b (ITI TF-2b): Transactions Part B [↑](#footnote-ref-42)
43. It is recommended that when this field is populated, the segment PV1/PV2 be followed by a ROL segment containing the details on the role assumed by the attending doctor per IHE IT Infrastructure Technical Framework, Volume 2b (ITI TF-2b): Transactions Part B [↑](#footnote-ref-43)
44. Additional details about Consulting Physicians or Other Physicians are added using the HL7 v2.5 ROL Segment as shown [↑](#footnote-ref-44)
45. This data element is included for completeness from the HL7 PV2 Patient Visit - Additional Information

Segment [↑](#footnote-ref-45)
46. This data element is available in the HL7 Patient Identification (PID) segment [↑](#footnote-ref-46)
47. This data element is available in the HL7 Patient Identification (PID) segment [↑](#footnote-ref-47)
48. NOTE: Episode of care may have multiple visits to different departments, or series of visits under an account number. Some systems call this an encounter number; CSN – Contact Serial Number – in EPIC [↑](#footnote-ref-48)
49. NOTE: Encounter Number is an individual visit number with unique start and end time under a series of visits in the episode of care. [↑](#footnote-ref-49)
50. Additional details about Consulting Physicians or Other Physicians are added using the HL7 v2.5 ROL Segment as shown [↑](#footnote-ref-50)
51. Comes from Payer system. Providers are credentialed with Payer. The Credentialing Office in the healthcare organization maintain the credentialing with payer – NEED References (CHQH??) Check CMS ISs for relevance [↑](#footnote-ref-51)
52. Refer to examples in PHDSC Payer Typology and why this is needed. [↑](#footnote-ref-52)
53. PHDSC Payer Typology has 5 digits. HL7 IN1 Segment has 3 digits for plan type. [↑](#footnote-ref-53)
54. These data elements are sent in the HL7 v2.5 Guarantor Segment (GT1) – which provide information about the person or the organization with financial responsibility for payment of a patient account. They are included here for completeness of financial information. [↑](#footnote-ref-54)
55. This data element is available in the HL7 2.5 IN2 segment in SEQ Number 6. [↑](#footnote-ref-55)
56. NOTE: X12 Relationship Codes: Individual relationship codes (36 options); Subscriber relationship code (under development); Entity relationship codes (3 options); Benefit-related entity relationship code (7 options). Source: United States Health Information Knowledgebase (USHIK).URL: https://ushik.ahrq.gov/mdr/portals [↑](#footnote-ref-56)
57. “Covered Days” data element is available in the HL7 UB2-UB92 Data Segment. [↑](#footnote-ref-57)
58. “Covered Days” data element is available in the HL7 UB1-UB82 Data Segment. [↑](#footnote-ref-58)
59. This data element is available in the HL7 Patient Identification (PID) segment [↑](#footnote-ref-59)
60. This data element is available in the HL7 Patient Identification (PID) segment [↑](#footnote-ref-60)
61. NOTE: Episode of care may have multiple visits to different departments, or series of visits under an account number. Some systems call this an encounter number; CSN – Contact Serial Number – in EPIC [↑](#footnote-ref-61)
62. NOTE: Encounter Number is an individual visit number with unique start and end time under a series of visits in the episode of care. [↑](#footnote-ref-62)
63. Additional details about Consulting Physicians or Other Physicians are added using the HL7 v2.5 ROL Segment as shown [↑](#footnote-ref-63)
64. This is for use when the patient type for billing purposes is different than the visit patient type [↑](#footnote-ref-64)
65. ICD-10 diagnosis code [↑](#footnote-ref-65)