

# HL7 Conformance Profile

# **ADT A55 Inbound**

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## About this Conformance Profile

Conformance profile ADT Inbound from a HIS

HL7Server5 - Release 2005.3.6

This profile describes the HL7 ADT message structure used to import patient demographics and visit data from a 3rd party HIS application.

History:

2012-15-03 - Creation

Remarks:

Segments present in the message structure, but marked as -not supported- are allowed to be present in the message, but are not processed.  
The same counts for fields, components, subcomponents marked as not supported.

When messages are received via HL7 MLLP (socket) HL7Server5 processes the message before sending an acknowledgement message.

For certain events (eg A40) this can take a few seconds, so please configure the sending application to wait eg 180 seconds for an acknowledgment.

HL7Server5 only supports original mode acknowledgements, enhanced acks are not supported.

Please verify length attributes at the lowest level of detail if a field consists of components, subcomponents.

For more information on HL7 conformance profiles please consult HL7 ANSI standard chapter 2 and HL7 Implementation/Conformance Technical Committee documents at <http://www.hl7.org/special/committees/ictc/docs.cfm>

## Conformance parameters

### Message Profile

- HL7 Version: 2.4
- Profile Type: Constrainable
- Topics: confsig-AGFA/QUADRAT-2.4-profile-accNE\_accNE-Immediate

### Encoding Method

ER7

## Use Case

### Actors

- HIS:"ADT system - where patients/visits are registered"
- Agfa (R)IS:"Departemental system (e.g Radiology Information System)"

**Pre Conditions**

**Event Flow**

**Post Conditions**

**Derived Events**

## Interaction 1

### Dynamic Definition

- Accept Acknowledgement: NE
- Application Acknowledgement: NE
- Acknowledgement Mode: Immediate

### Static Definition

- Event Description: ADT/ACK - Cancel change attending doctor
- Message Type: ADT
- Trigger Event: A55
- Message Structure: ADT\_A55
- Topics: confsig-AGFA/QUADRAT-2.4-static-ADT-A55-null-ADT\_A55-2005.3.6--Receiver

### Message structure

MSH EVN PID [PD1] {[ROL]} {[NK1]} PV1 [PV2] {[ROL]} {[DB1]} {[OBX]} {[AL1]} {[DG1]} {[DRG]}  
 {[PR1]} {[ROL]} {[GT1]} {[IN1]} {[IN2]} {[IN3]} {[ROL]} {[ACC]} {[UB1]} {[UB2]} {[PDA]}

### MSH - Message Header

- Usage: Required
- Cardinality:1..1

| Seq. | Name                     | Type   | Table   | Len. | Opt. | Card. | Contents          |
|------|--------------------------|--------|---------|------|------|-------|-------------------|
| 1    | Field Separator          | ST     |         | 1    | R    | 1..1  | e.g.              |
| 2    | Encoding Characters      | ST     |         | 4    | R    | 1..1  | e.g. ^~\&         |
| 3    | Sending Application      | HD     |         | 227  | R    | 1..1  |                   |
| 3.1  | namespace ID             | IS     |         | 50   | R    | ..    | e.g. HIS          |
| 4    | Sending Facility         | HD     |         | 227  | O    | 0..1  |                   |
| 4.1  | namespace ID             | IS     |         | 50   | O    | ..    | e.g. FACILITY1    |
| 7    | Date/Time Of Message     | TS     |         | 26   | R    | 1..1  |                   |
| 7.1  | Date/Time                | NM     |         | 24   | R    | ..    | e.g. 200511070945 |
| 9    | Message Type             | CM_MSG | HL70076 | 15   | R    | 1..1  |                   |
| 9.1  | message type             | ID     | HL70076 | 3    | R    | ..    | e.g. ADT          |
| 9.2  | trigger event            | ID     | HL70003 | 3    | R    | ..    | e.g. A55          |
| 9.3  | message structure        | ID     | HL70354 | 7    | O    | ..    | e.g. ADT_A55      |
| 10   | Message Control ID       | ST     |         | 20   | R    | 1..1  | e.g. 00000001     |
| 11   | Processing ID            | PT     |         | 3    | R    | 1..1  |                   |
| 11.1 | processing ID            | ID     | HL70103 | 3    | R    | ..    | e.g. P            |
| 12   | Version ID               | VID    | HL70104 | 973  | R    | 1..1  |                   |
| 12.1 | version ID               | ID     | HL70104 | 60   | R    | ..    | e.g. 2.4          |
| 18   | Character Set            | ID     | HL70211 | 16   | O    | 0..*  | e.g. 8859/1       |
| 21   | Conformance Statement ID | ID     |         | 10   | O    | 0..*  |                   |

#### 1. Field Separator

This field contains the separator between the segment ID and the first real field, MSH-2- encoding characters. As such it serves as the separator and defines the character to be used as a separator for the rest of the message. Recommended value and used by Agfa is |, (ASCII 124).

#### 2. Encoding Characters

This field contains the four characters in the following order: the component separator, repetition

separator, escape character, and subcomponent separator. Recommended values and used by Agfa Healthcare are ^~\&, (ASCII 94, 126, 92, and 38).

### 3. Sending Application

This field uniquely identifies the sending application among all other applications within the network enterprise. The network enterprise consists of all those applications that participate in the exchange of HL7 messages within the enterprise. Entirely site-defined and a parameter for Agfa.

### 7. Date/Time Of Message

This field contains the date/time that the sending system created the message. If the time zone is specified, it is expected to be the local time zone !

### 9. Message Type

ADT\_A55

#### 9.3. message structure

Only used when input is hl7 v2.xml

### 10. Message Control ID

This field contains a number or other identifier that uniquely identifies the message. The receiving system echoes this ID back to the sending system in the Message acknowledgment segment (MSA).

#### 11.1. processing ID

No difference in processing by HL7SERVER5 if Production or Test

#### 12.1. version ID

Versions supported by HL7SERVER5 are 2.2, 2.3, 2.3.1, 2.4

### 18. Character Set

Character set has to be a subset of the Windows ANSI codepage of the pc where HL7SERVER5 is running ! e.g. ISO 8859/1 on a windows 1252 code page UTF-8 is not supported !

## EVN - Event Type

- Usage: Required

- Cardinality:1..1

| Seq. | Name               | Type | Table   | Len. | Opt. | Card. | Contents          |
|------|--------------------|------|---------|------|------|-------|-------------------|
| 1    | Event Type Code    | ID   |         | 3    | O    | 0..1  | e.g. A55          |
| 2    | Recorded Date/Time | TS   |         | 26   | R    | 1..1  |                   |
| 2.1  | Date/Time          | NM   |         | 24   | R    | ..    | e.g. 200511070945 |
| 4    | Event Reason Code  | IS   | HL70062 | 3    | O    | 0..1  | e.g. 2            |
| 6    | Event Occurred     | TS   |         | 26   | O    | 0..1  |                   |
| 6.1  | Date/Time          | NM   |         | 24   | R    | ..    | e.g. 200511070945 |

#### 1. Event Type Code

If empty the value is taken from MSH-9 -1

#### 2. Recorded Date/Time

Only used when EVN-6 Event Occurred is empty

#### 6. Event Occurred

This field contains the date/time that the event actually occurred. For example, on a transfer (A02 (transfer a patient)), this field would contain the date/time the patient was actually transferred. On a cancellation event, this field should contain the date/time that the event being canceled occurred.

## PID - Patient identification

- Usage: Required
- Cardinality:1..1

| Seq.  | Name                                               | Type | Table   | Len. | Opt. | Card. | Contents       |
|-------|----------------------------------------------------|------|---------|------|------|-------|----------------|
| 2     | Patient ID                                         | CX   |         | 1913 | O    | 0..1  |                |
| 2.1   | ID                                                 | ST   |         | 20   | O    | ..    | e.g. 1234567   |
| 3     | Patient Identifier List                            | CX   |         | 1913 | R    | 1..*  |                |
| 3.1   | ID                                                 | ST   |         | 20   | R    | ..    | e.g. 1234567   |
| 3.2   | Check digit                                        | ST   |         | 200  | O    | ..    | e.g. 4         |
| 3.3   | code identifying the check digit scheme employed   | ID   | HL70061 | 200  | O    | ..    | e.g. M11       |
| 3.4   | assigning authority                                | HD   |         | 603  | O    | ..    |                |
| 3.4.1 | namespace ID                                       | IS   |         | 200  | O    | ..    | e.g. HIS1      |
| 3.4.2 | universal ID                                       | ST   |         | 200  | O    | ..    |                |
| 3.4.3 | universal ID type                                  | ID   |         | 200  | O    | ..    |                |
| 3.5   | identifier type code (ID)                          | ID   | HL70203 | 200  | O    | ..    | e.g. MR        |
| 3.6   | assigning facility                                 | HD   |         | 603  | O    | ..    |                |
| 3.6.1 | namespace ID                                       | IS   |         | 200  | O    | ..    | e.g. FACILITY1 |
| 3.6.2 | universal ID                                       | ST   |         | 200  | O    | ..    |                |
| 3.6.3 | universal ID type                                  | ID   |         | 200  | O    | ..    |                |
| 3.7   | effective date (DT)                                | DT   |         | 24   | O    | ..    | e.g. 20051107  |
| 3.8   | expiration date                                    | DT   |         | 24   | O    | ..    |                |
| 4     | Alternate Patient ID - PID                         | CX   |         | 1913 | O    | 0..1  |                |
| 4.1   | ID                                                 | ST   |         | 20   | O    | ..    | e.g. 1234567   |
| 5     | Patient Name                                       | XPN  |         | 1103 | R    | 1..1  |                |
| 5.1   | family name                                        | FN   |         | 174  | O    | ..    |                |
| 5.1.1 | surname                                            | ST   |         | 30   | R    | ..    | e.g. Yarmey    |
| 5.2   | given name                                         | ST   |         | 30   | O    | ..    | e.g. Jane      |
| 5.3   | second and further given names or initials thereof | ST   |         | 30   | O    | ..    | e.g. C         |
| 5.4   | suffix (e.g., JR or III)                           | ST   |         | 15   | O    | ..    |                |
| 5.5   | prefix (e.g., DR)                                  | ST   |         | 100  | O    | ..    | e.g. DR.       |
| 6     | Mother's Maiden Name                               | XPN  |         | 1103 | O    | 0..1  |                |
| 6.1   | family name                                        | FN   |         | 174  | O    | ..    |                |
| 6.1.1 | surname                                            | ST   |         | 30   | O    | ..    |                |
| 7     | Date/Time Of Birth                                 | TS   |         | 26   | O    | 0..1  |                |
| 7.1   | Date/Time                                          | NM   |         | 24   | R    | ..    | e.g. 19931022  |
| 8     | Administrative Sex                                 | IS   | HL70001 | 1    | O    | 0..1  | e.g. F         |
| 9     | Patient Alias                                      | XPN  |         | 1103 | U    | 0..*  |                |
| 9.1   | family name                                        | FN   |         | 174  | O    | ..    |                |
| 9.1.1 | surname                                            | ST   |         | 30   | O    | ..    | e.g. Simmons   |
| 9.2   | given name                                         | ST   |         | 15   | O    | ..    | e.g. Neil      |
| 9.5   | prefix (e.g., DR)                                  | ST   |         | 30   | O    | ..    |                |
| 9.7   | name type code                                     | ID   | HL70200 | 3    | O    | ..    | e.g. P         |
| 10    | Race                                               | CE   | HL70005 | 483  | O    | 0..1  |                |
| 10.1  | identifier                                         | ST   |         | 40   | O    | ..    | e.g. 2106-3    |

| Seq.   | Name                                  | Type | Table   | Len. | Opt. | Card. | Contents                    |
|--------|---------------------------------------|------|---------|------|------|-------|-----------------------------|
| 11     | Patient Address                       | XAD  |         | 631  | O    | 0..*  |                             |
| 11.1   | street address (SAD)                  | SAD  |         | 765  | O    | ..    |                             |
| 11.1.1 | street or mailing address             | ST   |         | 254  | O    | ..    | e.g. Kortrijksesteenweg 250 |
| 11.1.2 | street name                           | ST   |         | 254  | O    | ..    | e.g. Kortrijksesteenweg     |
| 11.1.3 | dwelling number                       | ST   |         | 254  | O    | ..    | e.g. 250                    |
| 11.2   | other designation                     | ST   |         | 254  | O    | ..    | e.g. Building A             |
| 11.3   | city                                  | ST   |         | 30   | O    | ..    | e.g. Sint Martens Latem     |
| 11.4   | state or province                     | ST   |         | 20   | O    | ..    | e.g. OVL                    |
| 11.5   | zip or postal code                    | ST   |         | 20   | O    | ..    | e.g. 9831                   |
| 11.6   | country                               | ID   |         | 20   | O    | ..    | e.g. BEL                    |
| 11.7   | address type                          | ID   | HL70190 | 10   | O    | ..    | e.g. P                      |
| 13     | Phone Number - Home                   | XTN  |         | 850  | O    | 0..1  |                             |
| 13.1   | [(999)] 999-9999 [X99999][C any text] | TN   |         | 30   | O    | ..    |                             |
| 13.3   | telecommunication equipment type (ID) | ID   | HL70202 | 3    | O    | ..    | e.g. PH                     |
| 13.4   | Email address                         | ST   |         | 250  | O    | ..    | e.g. support@agfa.com       |
| 13.5   | Country Code                          | NM   |         | 15   | O    | ..    | e.g. 32                     |
| 13.6   | Area/city code                        | NM   |         | 15   | O    | ..    | e.g. 3                      |
| 13.7   | Phone number                          | NM   |         | 15   | O    | ..    | e.g. 4448150                |
| 13.8   | Extension                             | NM   |         | 15   | O    | ..    | e.g. 500                    |
| 14     | Phone Number - Business               | XTN  |         | 850  | O    | 0..1  |                             |
| 14.1   | [(999)] 999-9999 [X99999][C any text] | TN   |         | 30   | O    | ..    | e.g. 024448150              |
| 14.3   | telecommunication equipment type (ID) | ID   | HL70202 | 3    | O    | ..    |                             |
| 14.4   | Email address                         | ST   |         |      | O    | ..    |                             |
| 14.5   | Country Code                          | NM   |         |      | O    | ..    |                             |
| 14.6   | Area/city code                        | NM   |         |      | O    | ..    |                             |
| 14.7   | Phone number                          | NM   |         |      | O    | ..    |                             |
| 14.8   | Extension                             | NM   |         |      | O    | ..    |                             |
| 15     | Primary Language                      | CE   |         | 483  | O    | 0..1  |                             |
| 15.1   | identifier                            | ST   |         | 20   | O    | ..    | e.g. EN                     |
| 16     | Marital Status                        | CE   | HL70002 | 483  | O    | 0..1  |                             |
| 16.1   | identifier                            | ST   |         | 10   | O    | ..    | e.g. M                      |
| 17     | Religion                              | CE   | HL70006 | 483  | O    | 0..1  |                             |
| 17.1   | identifier                            | ST   |         | 40   | O    | ..    |                             |
| 17.2   | text                                  | ST   |         | 40   | O    | ..    |                             |
| 18     | Patient Account Number                | CX   |         | 1913 | O    | 0..1  |                             |
| 18.1   | ID                                    | ST   |         | 30   | O    | ..    | e.g. 2590852                |
| 18.4   | assigning authority                   | HD   |         | 257  | O    | ..    |                             |
| 18.4.1 | namespace ID                          | IS   |         | 50   | O    | ..    | e.g. HIS1                   |
| 18.7   | effective date (DT)                   | DT   |         | 24   | O    | ..    | e.g. 20051107               |
| 18.8   | expiration date                       | DT   |         | 24   | O    | ..    |                             |

| Seq. | Name                        | Type | Table   | Len. | Opt. | Card. | Contents         |
|------|-----------------------------|------|---------|------|------|-------|------------------|
| 19   | SSN Number - Patient        | ST   |         | 50   | O    | 0..1  | e.g. 19931022175 |
| 21   | Mother's Identifier         | CX   |         | 1913 | O    | 0..1  |                  |
| 21.1 | ID                          | ST   |         | 40   | O    | ..    | e.g. 1234560     |
| 22   | Ethnic Group                | CE   | HL70189 | 483  | O    | 0..1  |                  |
| 22.1 | identifier                  | ST   |         | 40   | O    | ..    |                  |
| 23   | Birth Place                 | ST   |         | 30   | O    | 0..1  | e.g. Deinze      |
| 24   | Multiple Birth Indicator    | ID   | HL70136 | 1    | O    | 0..1  | e.g. Y           |
| 25   | Birth Order                 | NM   |         | 2    | O    | 0..1  | e.g. 2           |
| 26   | Citizenship                 | CE   | HL70171 | 483  | O    | 0..1  |                  |
| 26.1 | identifier                  | ST   |         | 20   | O    | ..    | e.g. BE          |
| 28   | Nationality                 | CE   | HL70212 | 483  | U    | 0..*  |                  |
| 28.1 | identifier                  | ST   |         | 20   | O    | ..    | e.g. BE          |
| 29   | Patient Death Date and Time | TS   |         | 26   | O    | 0..1  |                  |
| 29.1 | Date/Time                   | NM   |         | 24   | O    | ..    |                  |
| 30   | Patient Death Indicator     | ID   | HL70136 | 1    | O    | 0..1  | e.g. N           |

## 2. Patient ID

Please use PID-3 and map them using the parameters PIDDomainForCode, PIDDomainForHISCode ... to the PATIENTS.xxx columns

## 3. Patient Identifier List

Patient Identifier (list) which UNIQUELY identifies a single patient. The combination of components ID and Assigning Authority should be sufficient to UNIQUELY identify a patient. Each identifier occurrence (!) specified in PID-3 (combination of ID & Assigning Authority) should be globally unique.

### 3.4. assigning authority

Authority/System that generated the patient identifier

### 3.6. assigning facility

Facility in which the patient identifier was generated

## 4. Alternate Patient ID - PID

Please use PID-3 and map them using the parameters PIDDomainForCode, PIDDomainForHISCode ... to the PATIENTS.xxx columns

## 5. Patient Name

Patient name - no repetitions allowed!

## 6. Mother's Maiden Name

Sometimes used in France to exchange the patients maiden name

## 7. Date/Time Of Birth

Patient birth date - is a required field in the RIS database

## 9. Patient Alias

ONLY TYPE P is supported and only when COUNTRY - COUNTRY parameter is N and ApplyCountrySpecificNameRules is true

## 11. Patient Address

The occurrence that has an address type (PID-11-7) of P or M or blank is considered the main address and is stored in the PATIENTS table. ALL occurrences are stored in PAT\_ADDRESSES.

### 11.1. street address (SAD)

First address line

### 11.1.2. street name

Subcomponent street name and dwelling number can be used if you wish to separate street and house number. Subcomponent PID-11-1-1 can be empty in that case.

### 11.2. other designation

If 11.1.3 (Dwelling Number) is not filled. This value is taken into account. If the value starts with a number and smaller then 15 characters, it will be used as for patients.p\_straatnr column, otherwise the value will be appended to the patients.p\_straat column.

### 11.6. country

In a multi-site environment with multiple HIS systems, make sure that each HIS is using the same code-set. Suggested to use 3 character ISO codes.

### 11.7. address type

In a multi-site environment with multiple HIS systems, make sure that each HIS is using the same code-set.

### 13. Phone Number - Home

Patients primary phone number - only the first occurrence is used !

#### 13.1. [(999)] 999-9999 [X999999][C any text]

RIS version < 560: max length = 15. If PID 13.5 is filled. PID13.1 is ignored and only PID 13.5, 13.6, 13.7 and 13.8 are used.

### 14. Phone Number - Business

Additional (second) phone number

#### 14.1. [(999)] 999-9999 [X999999][C any text]

RIS version < 560: max length = 15. If PID 14.5 is filled. PID14.1 is ignored and only PID 14.5, 14.6, 14.7 and 14.8 are used.

### 16.1. identifier

In a multi-site environment with multiple HIS systems, make sure that each HIS is using the same code-set.

### 18. Patient Account Number

Account number (billing) will be linked to the visit number (PV1-19). In a multi-site environment with multiple HIS systems, make sure that the component Assigning Authority is provided !

### 19. SSN Number - Patient

Social security number

### 21. Mother's Identifier

ID of the mother in case of a newborn

### 28. Nationality

In a multi-site environment with multiple HIS systems, make sure that each HIS is using the same code-set.

## **PD1 - patient additional demographic**

- Usage: Optional

- Cardinality: 0..1

- Implementation note: Additional patient information like primary care physician

| Seq. | Name                                        | Type | Table | Len. | Opt. | Card. | Contents |
|------|---------------------------------------------|------|-------|------|------|-------|----------|
| 4    | Patient Primary Care Provider Name & ID No. | XCN  |       | 3002 | O    | 0..1  |          |

| Seq.  | Name           | Type | Table   | Len. | Opt. | Card. | Contents  |
|-------|----------------|------|---------|------|------|-------|-----------|
| 4.1   | ID number (ST) | ST   |         | 20   | O    | ..    | e.g. 1282 |
| 4.2   | family name    | FN   |         | 184  | O    | ..    |           |
| 4.2.1 | surname        | ST   |         | 40   | O    | ..    | e.g. Pew  |
| 4.3   | given name     | ST   |         | 30   | O    | ..    | e.g. John |
| 11    | Publicity Code | CE   | HL70215 | 483  | O    | 0..1  |           |
| 11.1  | identifier     | ST   |         | 40   | O    | ..    | e.g. EMP  |

#### 4.1. ID number (ST)

In a multi-site environment with multiple HIS systems, make sure that each HIS is using the same code-set.

#### 11. Publicity Code

Used to indicate that a patient is a member of the facility personnel

##### 11.1. identifier

Only EMP supported

### **ROL - Role**

- Usage: Optional
- Cardinality:0..\*
- Implementation note: Used to convey patient related physicians

| Seq.  | Name                | Type | Table   | Len. | Opt. | Card. | Contents      |
|-------|---------------------|------|---------|------|------|-------|---------------|
| 4     | Role Person         | XCN  |         | 3002 | R    | 1..*  |               |
| 4.1   | ID number (ST)      | ST   |         | 20   | R    | ..    | e.g. 53342    |
| 4.2   | family name         | FN   |         | 184  | O    | ..    |               |
| 4.2.1 | surname             | ST   |         | 40   | O    | ..    | e.g. Prentice |
| 4.3   | given name          | ST   |         | 30   | O    | ..    | e.g. Michael  |
| 4.18  | name assembly order | ID   | HL70444 | 3    | O    | ..    |               |

#### 4. Role Person

Patient-related physicians

#### 4.1. ID number (ST)

In a multi-site environment with multiple HIS systems, make sure that each HIS is using the same code-set.

### **NK1 - Next of kin / associated parties**

- Usage: Optional
- Cardinality:0..\*
- Implementation note: Patient relations (spouse, parents, brother ...)

| Seq.  | Name         | Type | Table   | Len. | Opt. | Card. | Contents     |
|-------|--------------|------|---------|------|------|-------|--------------|
| 1     | Set ID - NK1 | SI   |         | 4    | R    | 1..1  | e.g. 1       |
| 2     | Name         | XPN  |         | 1103 | O    | 0..*  |              |
| 2.1   | family name  | FN   |         | 174  | O    | ..    |              |
| 2.1.1 | surname      | ST   |         | 30   | R    | ..    | e.g. Simmons |
| 2.2   | given name   | ST   |         | 15   | O    | ..    | e.g. Neil    |
| 3     | Relationship | CE   | HL70063 | 483  | O    | 0..1  |              |
| 3.1   | identifier   | ST   |         | 10   | R    | ..    | e.g. SPO     |

| Seq.   | Name                                             | Type | Table   | Len. | Opt. | Card. | Contents                          |
|--------|--------------------------------------------------|------|---------|------|------|-------|-----------------------------------|
| 3.2    | text                                             | ST   |         | 30   | O    | ..    | e.g. Spouse                       |
| 4      | Address                                          | XAD  |         | 631  | O    | 0..*  |                                   |
| 4.1    | street address (SAD)                             | SAD  |         | 764  | O    | ..    |                                   |
| 4.1.1  | street or mailing address                        | ST   |         | 254  | O    | ..    | e.g.<br>Kortrijksesteenweg<br>254 |
| 4.1.2  | street name                                      | ST   |         | 254  | O    | ..    |                                   |
| 4.1.3  | dwelling number                                  | ST   |         | 254  | O    | ..    |                                   |
| 4.3    | city                                             | ST   |         | 30   | O    | ..    | e.g. Sint Martens<br>Latem        |
| 4.4    | state or province                                | ST   |         | 3    | O    | ..    |                                   |
| 4.5    | zip or postal code                               | ST   |         | 7    | O    | ..    | e.g. 9831                         |
| 4.6    | country                                          | ID   |         | 20   | O    | ..    | e.g. BE                           |
| 5      | Phone Number                                     | XTN  |         | 850  | O    | 0..1  |                                   |
| 5.1    | [(999)] 999-9999 [X99999][C any text]            | TN   |         | 15   | O    | ..    | e.g. 049879284                    |
| 5.3    | telecommunication equipment type (ID)            | ID   | HL70202 | 3    | O    | ..    |                                   |
| 5.4    | Email address                                    | ST   |         |      | O    | ..    |                                   |
| 5.5    | Country Code                                     | NM   |         | 15   | O    | ..    |                                   |
| 5.6    | Area/city code                                   | NM   |         | 15   | O    | ..    |                                   |
| 5.7    | Phone number                                     | NM   |         | 15   | O    | ..    |                                   |
| 5.8    | Extension                                        | NM   |         | 15   | O    | ..    |                                   |
| 7      | Contact Role                                     | CE   | HL70131 | 483  | O    | 0..1  |                                   |
| 7.2    | text                                             | ST   |         | 254  | O    | ..    | e.g. Emergency<br>contact         |
| 7.5    | alternate text                                   | ST   |         | 254  | O    | ..    |                                   |
| 11     | Next of Kin / Associated Parties Job Code/Class  | JCC  | HL70327 | 292  | O    | 0..1  |                                   |
| 11.1   | job code                                         | IS   |         | 10   | O    | ..    |                                   |
| 11.2   | job class                                        | IS   |         | 10   | O    | ..    |                                   |
| 15     | Administrative Sex                               | IS   | HL70001 | 1    | O    | 0..1  | e.g. M                            |
| 23     | Protection Indicator                             | ID   | HL70136 | 1    | O    | 0..1  | e.g. N                            |
| 33     | Next of Kin/Associated Party's Identifiers       | CX   |         | 1913 | O    | 0..*  |                                   |
| 33.1   | ID                                               | ST   |         | 20   | R    | ..    |                                   |
| 33.3   | code identifying the check digit scheme employed | ID   | HL70061 | 3    | O    | ..    |                                   |
| 33.4   | assigning authority                              | HD   |         | 602  | O    | ..    |                                   |
| 33.4.1 | namespace ID                                     | IS   | HL70363 | 200  | O    | ..    |                                   |
| 33.4.2 | universal ID                                     | ST   |         | 200  | O    | ..    |                                   |
| 33.4.3 | universal ID type                                | ID   | HL70301 | 200  | O    | ..    |                                   |
| 33.5   | identifier type code (ID)                        | ID   | HL70203 | 200  | O    | ..    |                                   |
| 33.6   | assigning facility                               | HD   |         | 602  | O    | ..    |                                   |
| 33.6.1 | namespace ID                                     | IS   | HL70363 | 200  | O    | ..    |                                   |
| 33.6.2 | universal ID                                     | ST   |         | 200  | O    | ..    |                                   |
| 33.6.3 | universal ID type                                | ID   | HL70301 | 200  | O    | ..    |                                   |
| 33.7   | effective date (DT)                              | DT   |         | 3    | O    | ..    |                                   |

| Seq. | Name            | Type | Table | Len. | Opt. | Card. | Contents |
|------|-----------------|------|-------|------|------|-------|----------|
| 33.8 | expiration date | DT   |       | 3    | O    | ..    |          |

### 1. Set ID - NK1

Not stored in database but used to trigger a delete of existing relations added by the interface

#### 3.1. identifier

Special processing for SPO/SPOUSE and SEL/SELF. In a multi-site environment with multiple HIS systems, make sure that each HIS is using the same code-set.

### 7. Contact Role

Stored as comment

### 11. Next of Kin / Associated Parties Job Code/Class

Only processed when NK1-3 = SEL !

### 23. Protection Indicator

VIP indicator only when NK1-3 = SEL

## **PV1 - Patient visit**

- Usage: Required

- Cardinality:1..1

| Seq.  | Name                      | Type | Table   | Len. | Opt. | Card. | Contents        |
|-------|---------------------------|------|---------|------|------|-------|-----------------|
| 1     | Set ID - PV1              | SI   |         | 4    | O    | 0..1  | e.g. 1          |
| 2     | Patient Class             | IS   | HL70004 | 1    | R    | 1..1  | e.g. I          |
| 3     | Assigned Patient Location | PL   |         | 1230 | O    | 0..1  |                 |
| 3.1   | point of care             | IS   |         | 25   | O    | ..    | e.g. U31        |
| 3.2   | room                      | IS   |         | 8    | O    | ..    | e.g. 310        |
| 3.3   | bed                       | IS   |         | 25   | O    | ..    | e.g. A          |
| 3.4   | facility (HD)             | HD   |         | 223  | O    | ..    |                 |
| 3.4.1 | namespace ID              | IS   |         | 15   | O    | ..    | e.g. FACILITY1  |
| 4     | Admission Type            | IS   |         | 2    | O    | 0..1  | e.g. R          |
| 6     | Prior Patient Location    | PL   |         | 1230 | O    | 0..1  |                 |
| 6.1   | point of care             | IS   | HL70302 | 3    | O    | ..    |                 |
| 7     | Attending Doctor          | XCN  | HL70010 | 3002 | O    | 0..1  |                 |
| 7.1   | ID number (ST)            | ST   |         | 15   | O    | ..    | e.g. 759        |
| 7.2   | family name               | FN   |         | 184  | O    | ..    |                 |
| 7.2.1 | surname                   | ST   |         | 40   | O    | ..    | e.g. Rudjord    |
| 7.3   | given name                | ST   |         | 30   | O    | ..    | e.g. Anders     |
| 8     | Referring Doctor          | XCN  | HL70010 | 3002 | O    | 0..1  |                 |
| 8.1   | ID number (ST)            | ST   |         | 15   | O    | ..    | e.g. 1282       |
| 8.2   | family name               | FN   |         | 184  | O    | ..    |                 |
| 8.2.1 | surname                   | ST   |         | 40   | O    | ..    | e.g. Blichfeldt |
| 8.3   | given name                | ST   |         | 30   | O    | ..    | e.g. Erik       |
| 9     | Consulting Doctor         | XCN  | HL70010 | 3002 | U    | 0..*  |                 |
| 9.1   | ID number (ST)            | ST   |         | 15   | O    | ..    |                 |
| 9.2   | family name               | FN   |         | 184  | O    | ..    |                 |
| 9.2.1 | surname                   | ST   |         | 40   | O    | ..    |                 |
| 9.3   | given name                | ST   |         | 30   | O    | ..    |                 |

| Seq.   | Name                   | Type | Table   | Len. | Opt. | Card. | Contents           |
|--------|------------------------|------|---------|------|------|-------|--------------------|
| 10     | Hospital Service       | IS   |         | 10   | O    | 0..1  | e.g. MED           |
| 16     | VIP Indicator          | IS   |         | 2    | O    | 0..1  | e.g. N             |
| 18     | Patient Type           | IS   |         | 10   | O    | 0..1  | e.g. H1            |
| 19     | Visit Number           | CX   |         | 1913 | R    | 1..1  |                    |
| 19.1   | ID                     | ST   |         | 20   | R    | ..    | e.g. 2004111143    |
| 19.4   | assigning authority    | HD   |         | 258  | O    | ..    |                    |
| 19.4.1 | namespace ID           | IS   |         | 50   | O    | ..    | e.g. HIS1          |
| 20     | Financial Class        | FC   |         | 47   | O    | 0..1  |                    |
| 20.1   | Financial Class        | IS   |         | 10   | O    | ..    | e.g. 4             |
| 21     | Charge Price Indicator | IS   | HL70032 | 10   | O    | 0..1  | e.g. 1             |
| 44     | Admit Date/Time        | TS   |         | 26   | O    | 0..1  |                    |
| 44.1   | Date/Time              | NM   |         | 24   | R    | ..    | e.g. 200511070945  |
| 45     | Discharge Date/Time    | TS   |         | 26   | O    | 0..1  |                    |
| 45.1   | Date/Time              | NM   |         | 24   | O    | ..    |                    |
| 47     | Total Charges          | NM   |         | 10   | O    | 0..1  | e.g. 1000          |
| 50     | Alternate Visit ID     | CX   | HL70203 | 1913 | O    | 0..1  |                    |
| 50.1   | ID                     | ST   |         | 50   | O    | ..    | e.g. 2004111143_01 |

## 2. Patient Class

Important field ! Can be mapped to specific patient class in RIS. In a multi-site environment with multiple HIS systems, make sure that each HIS is using the same code-set.

### 3.1. point of care

Care unit where the patient resides. In a multi-site environment with multiple HIS systems, make sure that each HIS is using the same code-set.

### 3.4. facility (HD)

Facility where the patient resides - encouraged to use this field - certainly in a multi-site implementation. In a multi-site environment with multiple HIS systems, make sure that each HIS is using the same code-set.

## 6. Prior Patient Location

Only used for lookup of prior transfer - not stored in the database

### 6.1. point of care

only used for lookup of prior transfer - not stored in the database

### 7.1. ID number (ST)

In a multi-site environment with multiple HIS systems, make sure that each HIS is using the same code-set.

### 8.1. ID number (ST)

In a multi-site environment with multiple HIS systems, make sure that each HIS is using the same code-set.

## 9. Consulting Doctor

Stored as patient related physician - NOT linked to the visit

### 9.1. ID number (ST)

In a multi-site environment with multiple HIS systems, make sure that each HIS is using the same code-set.

## 16. VIP Indicator

If there is no value in PV1-16 or the value = "", patients.p\_vip = N If patients.p\_vip = TRUE (Y): The patient item VIP\_INDICATOR will contain the value of the constant HL7\_VIP\_INDICATOR. If this constant doesn't exist, the value of PV1-16 is used

## 18. Patient Type

In a multi-site environment with multiple HIS systems, make sure that each HIS is using the same code-set.

## 19. Visit Number

Required field for Agfa RIS when exchanging visit information Identifier generated per patient stay in a facility. In a multi-site environment with multiple HIS systems make sure the component Assigning Authority is provided

### 19.4. assigning authority

Encouraged to use this component in a multi-site environment

## 20. Financial Class

Paymode linked to the visit - can be mapped to a QDoc paymode. In a multi-site environment with multiple HIS systems, make sure that each HIS is using the same code-set.

## 44. Admit Date/Time

Admission date/time

## 47. Total Charges

Stored as patient extra info

## 50. Alternate Visit ID

Can be used to uniquely identify a TRANSFERS record - requires specific parameter settings

## PV2 - Patient visit - additional information

- Usage: Optional

- Cardinality: 0..1

| Seq. | Name                       | Type | Table   | Len. | Opt. | Card. | Contents |
|------|----------------------------|------|---------|------|------|-------|----------|
| 22   | Visit Protection Indicator | ID   | HL70136 | 1    | O    | 0..1  | e.g. N   |

## ROL - Role

- Usage: Optional

- Cardinality: 0..\*

- Implementation note: Used to create or update a patient physician relation. Physicians are only created if parameter 'addunexistingphysiciansfromrol' is set to True (default is False).

| Seq. | Name                  | Type | Table   | Len. | Opt. | Card. | Contents |
|------|-----------------------|------|---------|------|------|-------|----------|
| 1    | Role Instance ID      | EI   |         | 427  | C    | 0..1  |          |
| 1.1  | entity identifier     | ST   |         | 3    | O    | ..    |          |
| 1.2  | namespace ID          | IS   | HL70363 | 3    | O    | ..    |          |
| 1.3  | universal ID          | ST   |         | 3    | O    | ..    |          |
| 1.4  | universal ID type     | ID   | HL70301 | 3    | O    | ..    |          |
| 2    | Action Code           | ID   | HL70287 | 2    | O    | 0..1  | e.g. UP  |
| 3    | Role-ROL              | CE   | HL70443 | 483  | R    | 1..1  |          |
| 3.1  | identifier            | ST   |         | 10   | O    | ..    | e.g. PP  |
| 3.2  | text                  | ST   |         | 3    | O    | ..    |          |
| 3.3  | name of coding system | IS   | HL70396 | 3    | O    | ..    |          |

| Seq.   | Name                                               | Type | Table   | Len. | Opt. | Card. | Contents      |
|--------|----------------------------------------------------|------|---------|------|------|-------|---------------|
| 3.4    | alternate identifier                               | ST   |         | 3    | O    | ..    |               |
| 3.5    | alternate text                                     | ST   |         | 3    | O    | ..    |               |
| 3.6    | name of alternate coding system                    | IS   | HL70396 | 3    | O    | ..    |               |
| 4      | Role Person                                        | XCN  |         | 3002 | R    | 1..*  |               |
| 4.1    | ID number (ST)                                     | ST   |         | 10   | O    | ..    | e.g. 01021476 |
| 4.2    | family name                                        | FN   |         | 116  | O    | ..    |               |
| 4.2.1  | surname                                            | ST   |         | 100  | O    | ..    |               |
| 4.2.2  | own surname prefix                                 | ST   |         | 3    | O    | ..    |               |
| 4.2.3  | own surname                                        | ST   |         | 3    | O    | ..    |               |
| 4.2.4  | surname prefix from partner/spouse                 | ST   |         | 3    | O    | ..    |               |
| 4.2.5  | surname from partner/spouse                        | ST   |         | 3    | O    | ..    |               |
| 4.3    | given name                                         | ST   |         | 30   | O    | ..    |               |
| 4.4    | second and further given names or initials thereof | ST   |         | 3    | O    | ..    |               |
| 4.5    | suffix (e.g., JR or III)                           | ST   |         | 3    | O    | ..    |               |
| 4.6    | prefix (e.g., DR)                                  | ST   |         | 3    | O    | ..    |               |
| 4.7    | degree (e.g., MD)                                  | IS   | HL70360 | 3    | O    | ..    |               |
| 4.8    | source table                                       | IS   | HL70297 | 3    | O    | ..    |               |
| 4.9    | assigning authority                                | HD   |         | 11   | O    | ..    |               |
| 4.9.1  | namespace ID                                       | IS   | HL70363 | 3    | O    | ..    |               |
| 4.9.2  | universal ID                                       | ST   |         | 3    | O    | ..    |               |
| 4.9.3  | universal ID type                                  | ID   | HL70301 | 3    | O    | ..    |               |
| 4.10   | name type code                                     | ID   | HL70200 | 3    | O    | ..    |               |
| 4.11   | identifier check digit                             | ST   |         | 3    | O    | ..    |               |
| 4.12   | code identifying the check digit scheme employed   | ID   | HL70061 | 3    | O    | ..    |               |
| 4.13   | identifier type code (IS)                          | IS   |         | 3    | O    | ..    |               |
| 4.14   | assigning facility                                 | HD   |         | 11   | O    | ..    |               |
| 4.14.1 | namespace ID                                       | IS   | HL70363 | 3    | O    | ..    |               |
| 4.14.2 | universal ID                                       | ST   |         | 3    | O    | ..    |               |
| 4.14.3 | universal ID type                                  | ID   | HL70301 | 3    | O    | ..    |               |
| 4.15   | Name Representation code                           | ID   | HL70465 | 3    | O    | ..    |               |
| 4.16   | name context                                       | CE   | HL70448 | 20   | O    | ..    |               |
| 4.16.1 | identifier                                         | ST   |         |      | O    | ..    |               |
| 4.16.2 | text                                               | ST   |         | 3    | O    | ..    |               |
| 4.16.3 | name of coding system                              | IS   | HL70396 | 3    | O    | ..    |               |
| 4.16.4 | alternate identifier                               | ST   |         | 3    | O    | ..    |               |
| 4.16.5 | alternate text                                     | ST   |         | 3    | O    | ..    |               |
| 4.16.6 | name of alternate coding system                    | IS   | HL70396 | 3    | O    | ..    |               |
| 4.17   | name validity range                                | DR   |         | 7    | O    | ..    |               |
| 4.17.1 | range start date/time                              | TS   |         | 3    | O    | ..    |               |
| 4.17.2 | range end date/time                                | TS   |         | 3    | O    | ..    |               |
| 4.18   | name assembly order                                | ID   | HL70444 | 3    | O    | ..    |               |
| 5      | Role Begin Date/Time                               | TS   |         | 26   | O    | 0..1  |               |

| Seq.    | Name                            | Type | Table   | Len. | Opt. | Card. | Contents |
|---------|---------------------------------|------|---------|------|------|-------|----------|
| 6       | Role End Date/Time              | TS   |         | 26   | O    | 0..1  |          |
| 7       | Role Duration                   | CE   |         | 483  | O    | 0..1  |          |
| 7.2     | text                            | ST   |         | 3    | O    | ..    |          |
| 7.3     | name of coding system           | IS   | HL70396 | 3    | O    | ..    |          |
| 7.4     | alternate identifier            | ST   |         | 3    | O    | ..    |          |
| 7.5     | alternate text                  | ST   |         | 3    | O    | ..    |          |
| 7.6     | name of alternate coding system | IS   | HL70396 | 3    | O    | ..    |          |
| 8       | Role Action Reason              | CE   |         | 483  | O    | 0..1  |          |
| 8.2     | text                            | ST   |         | 3    | O    | ..    |          |
| 8.3     | name of coding system           | IS   | HL70396 | 3    | O    | ..    |          |
| 8.4     | alternate identifier            | ST   |         | 3    | O    | ..    |          |
| 8.5     | alternate text                  | ST   |         | 3    | O    | ..    |          |
| 8.6     | name of alternate coding system | IS   | HL70396 | 3    | O    | ..    |          |
| 9       | Provider Type                   | CE   |         | 483  | O    | 0..2  |          |
| 9.2     | text                            | ST   |         | 3    | O    | ..    |          |
| 9.3     | name of coding system           | IS   | HL70396 | 3    | O    | ..    |          |
| 9.4     | alternate identifier            | ST   |         | 3    | O    | ..    |          |
| 9.5     | alternate text                  | ST   |         | 3    | O    | ..    |          |
| 9.6     | name of alternate coding system | IS   | HL70396 | 3    | O    | ..    |          |
| 10      | Organization Unit Type - ROL    | CE   | HL70406 | 483  | O    | 0..1  |          |
| 10.2    | text                            | ST   |         | 3    | O    | ..    |          |
| 10.3    | name of coding system           | IS   | HL70396 | 3    | O    | ..    |          |
| 10.4    | alternate identifier            | ST   |         | 3    | O    | ..    |          |
| 10.5    | alternate text                  | ST   |         | 3    | O    | ..    |          |
| 10.6    | name of alternate coding system | IS   | HL70396 | 3    | O    | ..    |          |
| 11      | Office/Home Address             | XAD  |         | 631  | O    | 0..*  |          |
| 11.1    | street address (SAD)            | SAD  |         | 11   | O    | ..    |          |
| 11.1.1  | street or mailing address       | ST   |         | 3    | O    | ..    |          |
| 11.1.2  | street name                     | ST   |         | 3    | O    | ..    |          |
| 11.1.3  | dwelling number                 | ST   |         | 3    | O    | ..    |          |
| 11.2    | other designation               | ST   |         | 3    | O    | ..    |          |
| 11.3    | city                            | ST   |         | 3    | O    | ..    |          |
| 11.4    | state or province               | ST   |         | 3    | O    | ..    |          |
| 11.5    | zip or postal code              | ST   |         | 3    | O    | ..    |          |
| 11.6    | country                         | ID   | HL70399 | 3    | O    | ..    |          |
| 11.7    | address type                    | ID   | HL70190 | 3    | O    | ..    |          |
| 11.8    | other geographic designation    | ST   |         | 3    | O    | ..    |          |
| 11.9    | county/parish code              | IS   | HL70289 | 3    | O    | ..    |          |
| 11.10   | census tract                    | IS   | HL70288 | 3    | O    | ..    |          |
| 11.11   | address representation code     | ID   | HL70465 | 3    | O    | ..    |          |
| 11.12   | address validity range          | DR   |         | 7    | O    | ..    |          |
| 11.12.1 | range start date/time           | TS   |         | 3    | O    | ..    |          |
| 11.12.2 | range end date/time             | TS   |         | 3    | O    | ..    |          |

| Seq. | Name                                  | Type | Table   | Len. | Opt. | Card. | Contents |
|------|---------------------------------------|------|---------|------|------|-------|----------|
| 12   | Phone                                 | XTN  |         | 850  | O    | 0..*  |          |
| 12.1 | [(999)] 999-9999 [X99999][C any text] | TN   |         | 3    | O    | ..    |          |
| 12.3 | telecommunication equipment type (ID) | ID   | HL70202 | 3    | O    | ..    |          |
| 12.4 | Email address                         | ST   |         | 3    | O    | ..    |          |
| 12.5 | Country Code                          | NM   |         | 3    | O    | ..    |          |
| 12.6 | Area/city code                        | NM   |         | 3    | O    | ..    |          |
| 12.7 | Phone number                          | NM   |         | 3    | O    | ..    |          |
| 12.8 | Extension                             | NM   |         | 3    | O    | ..    |          |
| 12.9 | any text                              | ST   |         | 3    | O    | ..    |          |

## 2. Action Code

If not set, fall back on default value 'AD'.

### 3.1. identifier

Defines the role of patient physician. PP = Primary Care Provider AD = Admitting Doctor AT = Attending Doctor RP = Referring Physician FHCP = Family Health Care Provider

## 4. Role Person

Patient physician personal data.

### 4.1. ID number (ST)

Physician code.

## DB1 - Disability

- Usage: Not supported

## OBX - Observation/Result

- Usage: Optional

- Cardinality:0..\*

- Implementation note: Used to convey additional patient information, like weighth, height ...

| Seq. | Name                   | Type | Table   | Len. | Opt. | Card. | Contents    |
|------|------------------------|------|---------|------|------|-------|-------------|
| 1    | Set ID - OBX           | SI   |         | 4    | O    | 0..1  | e.g. 1      |
| 2    | Value Type             | ID   | HL70125 | 2    | R    | 1..1  | e.g. NM     |
| 3    | Observation Identifier | CE   |         | 483  | R    | 1..1  |             |
| 3.1  | identifier             | ST   |         | 30   | O    | ..    | e.g. WEIGHT |
| 3.2  | text                   | ST   |         | 200  | O    | ..    | e.g. Weight |
| 5    | Observation Value      | ST   |         | 40   | R    | 1..1  | e.g. 76     |
| 6    | Units                  | CE   |         | 483  | O    | 0..1  |             |
| 6.1  | identifier             | ST   |         | 40   | O    | ..    | e.g. kg     |

## 2. Value Type

Not stored in db, but used to transform OBX-5

### 3.1. identifier

PATIENT\_REMARK --> write as patient remark in the db otherwise look to tab EXTRA

## AL1 - Patient allergy information

- Usage: Optional

- Cardinality:0..\*

- Implementation note: Used to convey patient allergies - when an allergy is present - a remark ALLERGY is set at patient level and the allergy details are stored as "extra" patient info.

| Seq. | Name                               | Type | Table   | Len. | Opt. | Card. | Contents          |
|------|------------------------------------|------|---------|------|------|-------|-------------------|
| 1    | Set ID - AL1                       | CE   |         | 483  | R    | 1..1  |                   |
| 1.1  | identifier                         | ST   |         | 1    | R    | ..    | e.g. 1            |
| 2    | Allergen Type Code                 | CE   | HL70127 | 483  | O    | 0..1  |                   |
| 2.2  | text                               | ST   |         | 40   | O    | ..    | e.g. Drug allergy |
| 3    | Allergen Code/Mnemonic/Description | CE   |         | 483  | R    | 1..1  |                   |
| 3.2  | text                               | ST   |         | 40   | O    | ..    | e.g. Penicillins  |
| 5    | Allergy Reaction Code              | ST   |         | 254  | O    | 0..1  | e.g. sneeze       |
| 6    | Identification Date                | DT   |         | 8    | O    | 0..1  | e.g. 20020901     |

## **DG1 - Diagnosis**

- Usage: Optional

- Cardinality:0..\*

- Implementation note: Diagnosis information - stored as a visit remark (for usage in QDoc) and also stored in a specific table for use in Medar

| Seq. | Name                            | Type | Table   | Len. | Opt. | Card. | Contents                                              |
|------|---------------------------------|------|---------|------|------|-------|-------------------------------------------------------|
| 1    | Set ID - DG1                    | SI   |         | 4    | O    | 0..1  | e.g. 1                                                |
| 3    | Diagnosis Code - DG1            | CE   | HL70051 | 483  | O    | 0..1  |                                                       |
| 3.1  | identifier                      | ST   |         | 100  | O    | ..    | e.g. V76.1                                            |
| 3.2  | text                            | ST   |         | 100  | O    | ..    | e.g. 0TH SCREEN<br>MAMMO-MALIGN<br>NEOPLASM OF BREAST |
| 3.3  | name of coding system           | IS   | HL70396 | 3    | O    | ..    | e.g. I9                                               |
| 3.4  | alternate identifier            | ST   |         | 3    | O    | ..    |                                                       |
| 3.5  | alternate text                  | ST   |         | 3    | O    | ..    |                                                       |
| 3.6  | name of alternate coding system | IS   | HL70396 | 3    | O    | ..    |                                                       |
| 4    | Diagnosis Description           | ST   |         | 100  | O    | 0..1  | e.g. 0TH SCREEN<br>MAMMO-MALIGN<br>NEOPLASM OF BREAST |
| 5    | Diagnosis Date/Time             | TS   |         | 26   | O    | 0..1  |                                                       |
| 5.1  | Date/Time                       | NM   |         | 24   | R    | ..    | e.g. 20051107                                         |
| 6    | Diagnosis Type                  | IS   | HL70052 | 2    | R    | 1..1  | e.g. A                                                |

## **6. Diagnosis Type**

HL7 required field

## **DRG - Diagnosis Related Group**

- Usage: Not supported

## **Segment group: PROCEDURE**

- Usage: Not supported

## **PR1 - Procedures**

- Usage: Not supported

## **ROL - Role**

- Usage: Not supported

### ***End of segment group PROCEDURE***

## **GT1 - Guarantor**

- Usage: Optional

- Cardinality:0..\*

- Implementation note: The GT1 segment is only taken into account if it is followed by an IN1 segment.

| Seq.  | Name                   | Type | Table   | Len. | Opt. | Card. | Contents      |
|-------|------------------------|------|---------|------|------|-------|---------------|
| 1     | Set ID - GT1           | SI   |         | 4    | R    | 1..1  | e.g. 1        |
| 2     | Guarantor Number       | CX   |         | 1913 | O    | 0..2  |               |
| 2.1   | ID                     | ST   |         | 20   | O    | ..    | e.g. 44141241 |
| 3     | Guarantor Name         | XPN  |         | 1103 | R    | 1..*  |               |
| 3.1   | family name            | FN   |         | 189  | O    | ..    |               |
| 3.1.1 | surname                | ST   |         | 45   | O    | ..    | e.g. Yarmey   |
| 3.2   | given name             | ST   |         | 45   | O    | ..    | e.g. Mark     |
| 11    | Guarantor Relationship | CE   | HL70063 | 483  | O    | 0..1  |               |
| 11.1  | identifier             | ST   |         | 1    | O    | ..    | e.g. 1        |

## **Segment group: INSURANCE**

- Usage: Optional

- Cardinality:0..\*

## **IN1 - Insurance**

- Usage: Optional

- Cardinality: 0..1

| Seq.  | Name                        | Type | Table   | Len. | Opt. | Card. | Contents             |
|-------|-----------------------------|------|---------|------|------|-------|----------------------|
| 1     | Set ID - IN1                | SI   |         | 4    | R    | 1..1  | e.g. 1               |
| 2     | Insurance Plan ID           | CE   | HL70072 | 483  | R    | 1..1  |                      |
| 2.1   | identifier                  | ST   |         | 250  | R    | ..    | e.g. MCR             |
| 3     | Insurance Company ID        | CX   |         | 1913 | R    | 1..*  |                      |
| 3.1   | ID                          | ST   |         | 20   | R    | ..    | e.g. MCR             |
| 4     | Insurance Company Name      | XON  |         | 567  | O    | 0..*  |                      |
| 4.1   | organization name           | ST   |         | 30   | O    | ..    | e.g. MEDICARE        |
| 5     | Insurance Company Address   | XAD  |         | 631  | O    | 0..*  |                      |
| 5.1   | street address (SAD)        | SAD  |         | 38   | O    | ..    |                      |
| 5.1.1 | street or mailing address   | ST   |         | 30   | O    | ..    | e.g. 2 GANNETT DRIVE |
| 5.1.2 | street name                 | ST   |         | 3    | O    | ..    |                      |
| 5.1.3 | dwelling number             | ST   |         | 3    | O    | ..    |                      |
| 5.2   | other designation           | ST   |         | 30   | O    | ..    |                      |
| 5.3   | city                        | ST   |         | 30   | O    | ..    | e.g. SOUTH PORTLAND  |
| 5.5   | zip or postal code          | ST   |         | 7    | O    | ..    | e.g. 04106           |
| 6     | Insurance Co Contact Person | XPN  |         | 1103 | O    | 0..*  |                      |
| 6.1   | family name                 | FN   |         | 174  | O    | ..    |                      |
| 6.1.1 | surname                     | ST   |         | 30   | O    | ..    | e.g. De Vos          |
| 6.2   | given name                  | ST   |         | 30   | O    | ..    | e.g. Joe             |

| Seq.   | Name                                  | Type | Table   | Len. | Opt. | Card. | Contents                |
|--------|---------------------------------------|------|---------|------|------|-------|-------------------------|
| 7      | Insurance Co Phone Number             | XTN  |         | 850  | O    | 0..*  |                         |
| 7.1    | [(999)] 999-9999 [X99999][C any text] | TN   |         | 15   | O    | ..    | e.g. 051405632          |
| 7.3    | telecommunication equipment type (ID) | ID   | HL70202 | 3    | O    | ..    |                         |
| 7.4    | Email address                         | ST   |         |      | O    | ..    |                         |
| 7.5    | Country Code                          | NM   |         |      | O    | ..    |                         |
| 7.6    | Area/city code                        | NM   |         |      | O    | ..    |                         |
| 7.7    | Phone number                          | NM   |         |      | O    | ..    |                         |
| 7.8    | Extension                             | NM   |         |      | O    | ..    |                         |
| 10     | Insured's Group Emp ID                | CX   |         | 1913 | O    | 0..2  |                         |
| 10.1   | ID                                    | ST   |         | 40   | O    | ..    | e.g. ABK0094            |
| 11     | Insured's Group Emp Name              | XON  |         | 567  | O    | 0..*  |                         |
| 11.1   | organization name                     | ST   |         | 30   | O    | ..    | e.g. AGFA               |
| 12     | Plan Effective Date                   | DT   |         | 8    | O    | 0..1  | e.g. 20050101           |
| 13     | Plan Expiration Date                  | DT   |         | 8    | O    | 0..1  | e.g. 20060101           |
| 15     | Plan Type                             | IS   |         | 3    | O    | 0..1  | e.g. WA                 |
| 16     | Name Of Insured                       | XPN  |         | 1103 | O    | 0..*  |                         |
| 16.1   | family name                           | FN   |         | 189  | O    | ..    |                         |
| 16.1.1 | surname                               | ST   |         | 45   | O    | ..    | e.g. Jarmey             |
| 16.2   | given name                            | ST   |         | 45   | O    | ..    | e.g. Jane               |
| 17     | Insured's Relationship To Patient     | CE   | HL70063 | 483  | O    | 0..1  |                         |
| 17.1   | identifier                            | ST   |         | 1    | O    | ..    | e.g. 1                  |
| 36     | Policy Number                         | ST   |         | 20   | O    | 0..1  | e.g. WA655839           |
| 44     | Insured's Employer's Address          | XAD  |         | 631  | O    | 0..1  |                         |
| 44.1   | street address (SAD)                  | SAD  |         | 540  | O    | ..    |                         |
| 44.1.1 | street or mailing address             | ST   |         | 30   | O    | ..    | e.g. Kortrijksesteenweg |
| 44.1.2 | street name                           | ST   |         | 254  | O    | ..    |                         |
| 44.1.3 | dwelling number                       | ST   |         | 254  | O    | ..    |                         |
| 44.2   | other designation                     | ST   |         | 30   | O    | ..    | e.g. 157                |
| 44.3   | city                                  | ST   |         | 30   | O    | ..    | e.g. Drongen            |
| 44.5   | zip or postal code                    | ST   |         | 7    | O    | ..    | e.g. 9000               |
| 47     | Coverage Type                         | IS   |         | 7    | O    | 0..1  |                         |
| 49     | Insured's ID Number                   | CX   |         | 1913 | O    | 0..1  |                         |
| 49.1   | ID                                    | ST   |         | 20   | O    | ..    |                         |

## 2.1. identifier

Not stored in database but can be used to determine in which table to store the insurance data (mutgegevens, aogegevens, facgegevens)

## 3.1. ID

In a multi-site environment with multiple HIS systems, make sure that each HIS is using the same code-set.

## 10. Insured's Group Emp ID

Patients employer

## 12. Plan Effective Date

Start-date insurance

### 15. Plan Type

Can be used to determine in which table to store the insurance data (mutgegevens, agegevens, facgegevens)

### 47. Coverage Type

Can be used in Belgium to send KG1/KG2 (CT1/CT2) codes.

### 49.1. ID

Used when IN1-36 is not filled in.

## IN2 - Insurance Additional Information

- Usage: Not supported

## IN3 - Insurance Additional Information, Certification

- Usage: Not supported

## ROL - Role

- Usage: Not supported

### *End of segment group INSURANCE*

## ACC - Accident

- Usage: Optional

- Cardinality: 0..1

- Implementation note: The ACC segment is only taken into account if it is preceded by an IN1 segment that describes a work-accident.

| Seq. | Name                 | Type | Table   | Len. | Opt. | Card. | Contents          |
|------|----------------------|------|---------|------|------|-------|-------------------|
| 1    | Accident Date/Time   | TS   |         | 26   | O    | 0..1  |                   |
| 1.1  | Date/Time            | NM   |         | 24   | O    | ..    | e.g. 20051106     |
| 2    | Accident Code        | CE   | HL70050 | 483  | O    | 0..1  |                   |
| 2.1  | identifier           | ST   |         | 50   | O    | ..    | e.g. CA           |
| 8    | Accident Description | ST   |         | 50   | O    | 0..1  | e.g. Car accident |

### 2.1. identifier

Stored as remark

### 8. Accident Description

Stored as remark

## UB1 - UB82

- Usage: Not supported

## UB2 - UB92 Data

- Usage: Not supported

## PDA - Patient death and autopsy

- Usage: Not supported