

# Technical HL7 Conformance Profile

# **ENTERPRISE IMAGING**

# **INBOUND ADT\_A31**

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## Message Profile

### About this Conformance

#### 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.

### Conformance parameters

#### Message Profile

- HL7 Version: 2.3, 2.3.1, 2.4, 2.5
- Profile Type: Constrainable
- Topics: confsig-Agfa Healthcare-2.3, 2.3.1, 2.4, 2.5-profile-accNE\_accAL-Deferred

#### Encoding Method

ER7



## Interaction 1

### Dynamic Definition

- Accept Acknowledgement: NE
- Application Acknowledgement: AL
- Acknowledgement Mode: Deferred

### Static Definition

- Event Description: ADT/ACK - Update person information
- Message Type: ADT
- Trigger Event: A31
- Message Structure: ADT\_A05
- Topics: confsig-Agfa Healthcare-2.3, 2.3.1, 2.4, 2.5-static-ADT-A31-null-ADT\_A05-V1.0-DRAFT-Receiver

### Message structure

MSH EVN PID [PV1] {[OBX]}

### MSH - Message Header

- Usage: Required
- Cardinality:1..1

| Seq. | Name                  | Opt. | Card. | Type   | Table   | Contents     |
|------|-----------------------|------|-------|--------|---------|--------------|
| 1    | Field Separator       | R    | 1..1  | ST     |         |              |
| 2    | Encoding Characters   | R    | 1..1  | ST     |         |              |
| 3    | Sending Application   | O    | 0..1  | HD     | HL70361 |              |
| 3.1  | namespace ID          | O    | 0..   | IS     | HL70363 |              |
| 4    | Sending Facility      | O    | 0..1  | HD     | HL70362 |              |
| 4.1  | namespace ID          | O    | 0..   | IS     | HL70363 |              |
| 5    | Receiving Application | O    | 0..1  | HD     | HL70361 |              |
| 5.1  | namespace ID          | O    | 0..   | IS     | HL70363 |              |
| 6    | Receiving Facility    | O    | 0..1  | HD     | HL70362 |              |
| 6.1  | namespace ID          | O    | 0..   | IS     | HL70363 |              |
| 7    | Date/Time Of Message  | O    | 0..1  | TS     |         |              |
| 7.1  | Date/Time             | O    | 0..   | NM     |         |              |
| 9    | Message Type          | R    | 1..1  | CM_MSG | HL70076 |              |
| 9.1  | message type          | R    | 1..1  | ID     | HL70076 | e.g. ADT     |
| 9.2  | trigger event         | R    | 1..1  | ID     | HL70003 | e.g. A31     |
| 9.3  | message structure     | O    | 0..   | ID     | HL70354 | e.g. ADT_A05 |
| 10   | Message Control ID    | R    | 1..1  | ST     |         |              |
| 11   | Processing ID         | O    | 0..1  | PT     |         |              |
| 11.1 | processing ID         | O    | 0..   | ID     | HL70103 |              |
| 12   | Version ID            | R    | 1..1  | VID    | HL70104 |              |
| 12.1 | version ID            | R    | 1..1  | ID     | HL70104 | e.g. 2.4     |



| Seq. | Name          | Opt. | Card. | Type | Table   | Contents |
|------|---------------|------|-------|------|---------|----------|
| 18   | Character Set | O    | 0..1  | ID   | HL70211 |          |

### 1. Field Separator

### 2. Encoding Characters

### 3. Sending Application

### 4. Sending Facility

### 5. Receiving Application

### 6. Receiving Facility

### 7. Date/Time Of Message

#### 7.1. Date/Time

YYYYMMDD[HHMM[SS]][+-ZZZ Z]

If timezone information is present, it is taken into account for all date/time fields in the message. If timezone information is present also in other datetime fields, it overrules the timezone information in this field.

### 9. Message Type

#### 9.1. message type

ADT

#### 9.2. trigger event

A31

#### 9.3. message structure

ADT\_A05

### 10. Message Control ID

### 11. Processing ID

### 12. Version ID

Highest supported version 2.5

### 18. Character Set

## EVN - Event Type

- Usage: Required
- Cardinality:1..1

| Seq. | Name               | Opt. | Card. | Type | Table | Contents                 |
|------|--------------------|------|-------|------|-------|--------------------------|
| 2    | Recorded Date/Time | R    | 1..1  | TS   |       |                          |
| 2.1  | Date/Time          | R    | 1..1  | NM   |       | e.g. 20040328134602+0600 |



## 2. Recorded Date/Time

YYYYMMDDHHMMSS or ""

### 2.1. Date/Time

YYYYMMDD[HHMM[SS]][+/-ZZZ Z]

If timezone information is present it overrules the timezone information if available in MSH-7

## PID - Patient identification

- Usage: Required

- Cardinality:1..1

| Seq.   | Name                                               | Opt. | Card. | Type | Table   | Contents |
|--------|----------------------------------------------------|------|-------|------|---------|----------|
| 3      | Patient Identifier List                            | R    | 1..*  | CX   |         |          |
| 3.1    | ID                                                 | R    | 1..1  | ST   |         |          |
| 3.4    | assigning authority                                | O    | 0..   | HD   |         |          |
| 3.4.1  | namespace ID                                       | O    | 0..   | IS   | HL70363 |          |
| 3.5    | identifier type code (ID)                          | O    | 0..   | ID   | HL70203 |          |
| 3.6    | assigning facility                                 | O    | 0..   | HD   |         |          |
| 3.6.1  | namespace ID                                       | O    | 0..   | IS   | HL70363 |          |
| 3.7    | effective date (DT)                                | O    | 0..   | DT   |         |          |
| 3.8    | expiration date                                    | O    | 0..   | DT   |         |          |
| 5      | Patient Name                                       | R    | 1..*  | XPN  |         |          |
| 5.1    | family name                                        | R    | 1..1  | FN   |         |          |
| 5.1.1  | surname                                            | R    | 1..1  | ST   |         |          |
| 5.1.2  | own surname prefix                                 | O    | 0..   | ST   |         |          |
| 5.1.3  | own surname                                        | O    | 0..   | ST   |         |          |
| 5.2    | given name                                         | O    | 0..   | ST   |         |          |
| 5.3    | second and further given names or initials thereof | O    | 0..   | ST   |         |          |
| 5.4    | suffix (e.g., JR or III)                           | O    | 0..   | ST   |         |          |
| 5.7    | name type code                                     | O    | 0..   | ID   | HL70200 |          |
| 5.8    | Name Representation code                           | O    | 0..   | ID   | HL70465 |          |
| 7      | Date/Time Of Birth                                 | O    | 0..1  | TS   |         |          |
| 7.1    | Date/Time                                          | O    | 0..   | NM   |         |          |
| 8      | Administrative Sex                                 | O    | 0..1  | IS   | HL70001 |          |
| 11     | Patient Address                                    | O    | 0..*  | XAD  |         |          |
| 11.1   | street address (SAD)                               | O    | 0..   | SAD  |         |          |
| 11.1.1 | street or mailing address                          | O    | 0..   | ST   |         |          |
| 11.1.2 | street name                                        | O    | 0..   | ST   |         |          |
| 11.1.3 | dwelling number                                    | O    | 0..   | ST   |         |          |



| Seq. | Name                                  | Opt. | Card. | Type | Table   | Contents |
|------|---------------------------------------|------|-------|------|---------|----------|
| 11.2 | other designation                     | O    | 0..   | ST   |         |          |
| 11.3 | city                                  | O    | 0..   | ST   |         |          |
| 11.4 | state or province                     | O    | 0..   | ST   |         |          |
| 11.5 | zip or postal code                    | O    | 0..   | ST   |         |          |
| 11.6 | country                               | O    | 0..   | ID   | HL70399 |          |
| 11.7 | address type                          | O    | 0..   | ID   | HL70190 |          |
| 11.8 | other geographic designation          | O    | 0..   | ST   |         |          |
| 11.9 | county/parish code                    | O    | 0..   | IS   | HL70289 |          |
| 13   | Phone Number - Home                   | O    | 0..1  | XTN  |         |          |
| 13.1 | Telephone Number                      | O    | 0..   | TN   |         |          |
| 13.2 | telecommunication use code            | R    | 1..1  | ID   | HL70201 |          |
| 13.3 | telecommunication equipment type (ID) | R    | 1..1  | ID   | HL70202 |          |
| 13.4 | Email address                         | O    | 0..   | ST   |         |          |
| 14   | Phone Number - Business               | O    | 0..1  | XTN  |         |          |
| 14.1 | Telephone Number                      | O    | 0..   | TN   |         |          |
| 14.2 | telecommunication use code            | R    | 1..1  | ID   | HL70201 |          |
| 14.3 | telecommunication equipment type (ID) | R    | 1..1  | ID   | HL70202 |          |
| 14.4 | Email address                         | O    | 0..   | ST   |         |          |
| 19   | SSN Number - Patient                  | O    | 0..1  | ST   |         |          |
| 23   | Birth Place                           | O    | 0..1  | ST   |         |          |
| 29   | Patient Death Date and Time           | C    | 0..1  | TS   |         |          |
| 30   | Patient Death Indicator               | O    | 0..1  | ID   | HL70136 |          |

### 3. Patient Identifier List

#### 3.1. ID

Identification number or code for the patient.

##### 3.4.1. namespace ID

Identifier of the Assigning Authority that issued the patient id.

If not available the default patient assigning authority for the system will be used.

##### 3.5. identifier type code (ID)

Supported values:

- PI = Patient Primary Identifier
- SS = Social Security number

If empty PI will be used by default

## 5. Patient Name

### 5.1. family name

if Surname (PID.5.1.1) is empty, Own Surname Prefix (PID.5.1.2) and Own Surname (PID.5.1.3) are concatenated as last name.

#### 5.1.1. surname

Patient's lastname

### 5.2. given name

Patient's firstname

### 5.4. suffix (e.g., JR or III)

Patient's suffix

### 5.7. name type code

M = maiden name, only support storing last name for maiden name.

### 5.8. Name Representation code

Supported are :

- A = Alphabetic
- I = Ideographic
- P = Phonetic

## 7. Date/Time Of Birth

### 7.1. Date/Time

YYYYMMDD[HHMM[SS]]

## 8. Administrative Sex

## 11. Patient Address

### 11.1. street address (SAD)

This component specifies the street or mailing address of a person or institution.

#### 11.1.1. street or mailing address

This is used when SAD-2 (Street Name) is empty

#### 11.1.2. street name

Name of the street.

#### 11.1.3. dwelling number

House number.

### 11.3. city

Municipality code of the city.

If field is empty, the city will be listed as 'Unknown' (code UKW).

**11.4. state or province**

Is always the highest region level, but there can be a lower subdividing region level for a state or province.

**11.5. zip or postal code**

Zip or postal code of the city.

**11.6. country**

A 3-digit code defining the country.

This is necessary in EI for the address segment to be processed.

It defaults to UKW (Unknown country) when left empty.

**11.7. address type**

O (office), H (home address) are supported.

L (Legal Address) defaults to office and the rest defaults to H (home address)

**13. Phone Number - Home**

Segment is used for all home communication.

First one is the primary home communication channel.

**13.1. Telephone Number**

In case of telephone number/fax number/cellular number, the phone number is put in this field  
[(999)] 999-9999 [X99999][C any text]

**13.2. telecommunication use code**

Required. If this is empty the communication cannot be registered.

Supported are:

- Primary Residence Number (PRN)
- Work Number (WPN)
- Other Residence Number (ORN)
- Network (email) Address (NET)

**13.3. telecommunication equipment type (ID)**

Required. If this is empty the communication cannot be registered.

Supported are:

- Telephone (PH)
- Fax (FX)
- Cellular Phone (CP)
- Internet Address (Internet)

**13.4. Email address**

In case of Network Email Address, this needs to be filled in.

**14. Phone Number - Business**

Segment is used for all business communication.

First one is the primary business channel



#### 14.1. Telephone Number

In case of telephone number/fax number/cellular number, the phone number is put in this field  
[(999)] 999-9999 [X99999][C any text]

#### 14.2. telecommunication use code

Required. If this is empty the communication cannot be registered.

Supported are:

- Primary Residence Number (PRN)
- Work Number (WPN)
- Other Residence Number (ORN)
- Network (email) Address (NET)

#### 14.3. telecommunication equipment type (ID)

Required. If this is empty the communication cannot be registered.

Supported are:

- Telephone (PH)
- Fax (FX)
- Cellular Phone (CP)
- Internet Address (Internet)

#### 14.4. Email address

In case of Network Email Address, this needs to be filled in.

#### 19. SSN Number - Patient

#### 23. Birth Place

#### 29. Patient Death Date and Time

YYYYMMDDHHMMSS or ""

*Condition Predicate:*

If PID.30 has a value, this field also needs a value.

#### 30. Patient Death Indicator

Y or N

### PV1 - Patient visit

- Usage: Required but may be empty

- Cardinality: 0..1

| Seq. | Name                      | Opt. | Card. | Type | Table   | Contents |
|------|---------------------------|------|-------|------|---------|----------|
| 1    | Set ID - PV1              | O    | 0..1  | SI   |         |          |
| 2    | Patient Class             | O    | 0..1  | IS   | HL70004 |          |
| 3    | Assigned Patient Location | O    | 0..1  | PL   |         |          |
| 3.1  | point of care             | O    | 0..   | IS   | HL70302 |          |
| 3.2  | room                      | O    | 0..   | IS   | HL70303 |          |
| 3.3  | bed                       | O    | 0..   | IS   | HL70304 |          |



| Seq.   | Name                                               | Opt. | Card. | Type | Table   | Contents |
|--------|----------------------------------------------------|------|-------|------|---------|----------|
| 3.4    | facility (HD)                                      | O    | 0..   | HD   |         |          |
| 3.4.1  | namespace ID                                       | O    | 0..   | IS   | HL70300 |          |
| 3.11   | assigning authority for location                   | O    | 0..   | HD   |         |          |
| 3.11.1 | namespace ID                                       | O    | 0..   | IS   | HL70300 |          |
| 4      | Admission Type                                     | O    | 0..1  | IS   | HL70007 |          |
| 7      | Attending Doctor                                   | O    | 0..*  | XCN  | HL70010 |          |
| 7.1    | ID number (ST)                                     | O    | 0..   | ST   |         |          |
| 7.2    | family name                                        | O    | 0..   | FN   |         |          |
| 7.2.1  | surname                                            | O    | 0..   | ST   |         |          |
| 7.2.2  | own surname prefix                                 | O    | 0..   | ST   |         |          |
| 7.2.3  | own surname                                        | O    | 0..   | ST   |         |          |
| 7.2.4  | surname prefix from partner/spouse                 | O    | 0..   | ST   |         |          |
| 7.2.5  | surname from partner/spouse                        | O    | 0..   | ST   |         |          |
| 7.3    | given name                                         | O    | 0..   | ST   |         |          |
| 7.4    | second and further given names or initials thereof | O    | 0..   | ST   |         |          |
| 7.5    | suffix (e.g., JR or III)                           | O    | 0..   | ST   |         |          |
| 7.6    | prefix (e.g., DR)                                  | O    | 0..   | ST   |         |          |
| 7.9    | assigning authority                                | O    | 0..   | HD   |         |          |
| 7.9.1  | namespace ID                                       | O    | 0..   | IS   | HL70363 |          |
| 7.9.2  | universal ID                                       | O    | 0..   | ST   |         |          |
| 7.9.3  | universal ID type                                  | O    | 0..   | ID   | HL70301 |          |
| 8      | Referring Doctor                                   | O    | 0..*  | XCN  | HL70010 |          |
| 8.1    | ID number (ST)                                     | O    | 0..   | ST   |         |          |
| 8.2    | family name                                        | O    | 0..   | FN   |         |          |
| 8.2.1  | surname                                            | O    | 0..   | ST   |         |          |
| 8.2.2  | own surname prefix                                 | O    | 0..   | ST   |         |          |
| 8.2.3  | own surname                                        | O    | 0..   | ST   |         |          |
| 8.2.4  | surname prefix from partner/spouse                 | O    | 0..   | ST   |         |          |
| 8.2.5  | surname from partner/spouse                        | O    | 0..   | ST   |         |          |
| 8.3    | given name                                         | O    | 0..   | ST   |         |          |
| 8.4    | second and further given names or initials thereof | O    | 0..   | ST   |         |          |
| 8.5    | suffix (e.g., JR or III)                           | O    | 0..   | ST   |         |          |
| 8.6    | prefix (e.g., DR)                                  | O    | 0..   | ST   |         |          |
| 8.9    | assigning authority                                | O    | 0..   | HD   |         |          |
| 8.9.1  | namespace ID                                       | O    | 0..   | IS   | HL70363 |          |
| 8.9.2  | universal ID                                       | O    | 0..   | ST   |         |          |



| Seq.   | Name                                               | Opt. | Card. | Type | Table   | Contents |
|--------|----------------------------------------------------|------|-------|------|---------|----------|
| 8.9.3  | universal ID type                                  | O    | 0..   | ID   | HL70301 |          |
| 15     | Ambulatory Status                                  | O    | 0..*  | IS   | HL70009 |          |
| 16     | VIP Indicator                                      | O    | 0..1  | IS   | HL70099 |          |
| 17     | Admitting Doctor                                   | O    | 0..*  | XCN  | HL70010 |          |
| 17.1   | ID number (ST)                                     | O    | 0..   | ST   |         |          |
| 17.2   | family name                                        | O    | 0..   | FN   |         |          |
| 17.2.1 | surname                                            | O    | 0..   | ST   |         |          |
| 17.2.2 | own surname prefix                                 | O    | 0..   | ST   |         |          |
| 17.2.3 | own surname                                        | O    | 0..   | ST   |         |          |
| 17.2.4 | surname prefix from partner/spouse                 | O    | 0..   | ST   |         |          |
| 17.2.5 | surname from partner/spouse                        | O    | 0..   | ST   |         |          |
| 17.3   | given name                                         | O    | 0..   | ST   |         |          |
| 17.4   | second and further given names or initials thereof | O    | 0..   | ST   |         |          |
| 17.5   | suffix (e.g., JR or III)                           | O    | 0..   | ST   |         |          |
| 17.6   | prefix (e.g., DR)                                  | O    | 0..   | ST   |         |          |
| 17.9   | assigning authority                                | O    | 0..   | HD   |         |          |
| 17.9.1 | namespace ID                                       | O    | 0..   | IS   | HL70363 |          |
| 17.9.2 | universal ID                                       | O    | 0..   | ST   |         |          |
| 17.9.3 | universal ID type                                  | O    | 0..   | ID   | HL70301 |          |
| 18     | Patient Type                                       | O    | 0..1  | IS   | HL70018 |          |
| 19     | Visit Number                                       | O    | 0..1  | CX   |         |          |
| 19.1   | ID                                                 | O    | 0..   | ST   |         |          |
| 19.4   | assigning authority                                | O    | 0..   | HD   |         |          |
| 19.4.1 | namespace ID                                       | O    | 0..   | IS   | HL70363 |          |
| 19.4.2 | universal ID                                       | O    | 0..   | ST   |         |          |
| 19.4.3 | universal ID type                                  | O    | 0..   | ID   | HL70301 |          |
| 44     | Admit Date/Time                                    | O    | 0..1  | TS   |         |          |
| 44.1   | Date/Time                                          | O    | 0..   | NM   |         |          |
| 45     | Discharge Date/Time                                | O    | 0..*  | TS   |         |          |
| 45.1   | Date/Time                                          | O    | 0..   | NM   |         |          |

## 1. Set ID - PV1

## 2. Patient Class

Patient Class.

When no patient class is present in the message, the value U (Unknown) is used.

## 3.1. point of care

Patient's location department code.



When an unexisting department code is used, the department will be autocreated.

### **3.2. room**

Room in the department

### **3.3. bed**

Bed in the room

### **3.4.1. namespace ID**

Partient's location facility code.

When an unexisting facility code is used, the facility will be autocreated.

### **3.11.1. namespace ID**

Assigning authority of the issuer of department/facility code.

## **4. Admission Type**

Type of admission, the circumstances under which the patient was or will be admitted.

## **7. Attending Doctor**

Attending physician information.

## **8. Referring Doctor**

Refering physician information.

## **15. Ambulatory Status**

Code indicating any permanent or transient handicapped conditions.

## **16. VIP Indicator**

This field identifies the type of VIP.

- 1, set VIP or personnel as yes

- 0, set as no

## **17. Admitting Doctor**

Admitting physician information.

## **18. Patient Type**

Site-specific values that identify the patient type.

## **19. Visit Number**

### **19.1. ID**

Unique number identifying the admission.

## **44. Admit Date/Time**

When no admit date/time is present in the message, a fallback is done to EVN-2.

### **44.1. Date/Time**

YYYYMMDD[HHHMM[SS]][+/-ZZZ Z]

If timezone information is present it overrules the timezone information if available in MSH-7



## 45. Discharge Date/Time

### 45.1. Date/Time

YYYYMMDD[HHHMM[SS]][+ZZZ Z]

If timezone information is present it overrules the timezone information if available in MSH-7

## OBX - Observation/Result

- Usage: Optional

- Cardinality:0..\*

| Seq. | Name                               | Opt. | Card. | Type | Table   | Contents |
|------|------------------------------------|------|-------|------|---------|----------|
| 1    | Set ID - OBX                       | O    | 0..1  | SI   |         |          |
| 2    | Value Type                         | R    | 1..1  | ID   | HL70125 |          |
| 3    | Observation Identifier             | R    | 1..1  | CE   |         |          |
| 3.1  | identifier                         | R    | 1..1  | ST   |         |          |
| 3.2  | text                               | O    | 0..   | ST   |         |          |
| 3.3  | name of coding system              | O    | 0..   | IS   | HL70396 |          |
| 3.4  | alternate identifier               | O    | 0..   | ST   |         |          |
| 3.5  | alternate text                     | O    | 0..   | ST   |         |          |
| 3.6  | name of alternate coding system    | O    | 0..   | IS   | HL70396 |          |
| 4    | Observation Sub-Id                 | C    | 0..1  | ST   |         |          |
| 5    | Observation Value                  | R    | 1..1  | *    |         |          |
| 6    | Units                              | O    | 0..1  | CE   |         |          |
| 6.2  | text                               | O    | 0..   | ST   |         |          |
| 6.3  | name of coding system              | O    | 0..   | IS   | HL70396 |          |
| 6.4  | alternate identifier               | O    | 0..   | ST   |         |          |
| 6.5  | alternate text                     | O    | 0..   | ST   |         |          |
| 6.6  | name of alternate coding system    | O    | 0..   | IS   | HL70396 |          |
| 7    | References Range                   | O    | 0..1  | ST   |         |          |
| 8    | Abnormal Flags                     | O    | 0..1  | IS   | HL70078 |          |
| 9    | Probability                        | O    | 0..*  | NM   |         |          |
| 10   | Nature of Abnormal Test            | O    | 0..1  | ID   | HL70080 |          |
| 11   | Observation Result Status          | R    | 1..1  | ID   | HL70085 |          |
| 12   | Date Last Observation Normal Value | O    | 0..1  | TS   |         |          |
| 13   | User Defined Access Checks         | O    | 0..1  | ST   |         |          |
| 14   | Date/Time of the Observation       | O    | 0..1  | TS   |         |          |
| 15   | Producer's ID                      | O    | 0..1  | CE   |         |          |
| 15.2 | text                               | O    | 0..   | ST   |         |          |
| 15.3 | name of coding system              | O    | 0..   | IS   | HL70396 |          |
| 15.4 | alternate identifier               | O    | 0..   | ST   |         |          |



| Seq.    | Name                                               | Opt. | Card. | Type | Table   | Contents |
|---------|----------------------------------------------------|------|-------|------|---------|----------|
| 15.5    | alternate text                                     | O    | 0..   | ST   |         |          |
| 15.6    | name of alternate coding system                    | O    | 0..   | IS   | HL70396 |          |
| 16      | Responsible Observer                               | O    | 0..1  | XCN  |         |          |
| 16.1    | ID number (ST)                                     | O    | 0..   | ST   |         |          |
| 16.2    | family name                                        | O    | 0..   | FN   |         |          |
| 16.2.1  | surname                                            | O    | 0..   | ST   |         |          |
| 16.2.2  | own surname prefix                                 | O    | 0..   | ST   |         |          |
| 16.2.3  | own surname                                        | O    | 0..   | ST   |         |          |
| 16.2.4  | surname prefix from partner/spouse                 | O    | 0..   | ST   |         |          |
| 16.2.5  | surname from partner/spouse                        | O    | 0..   | ST   |         |          |
| 16.3    | given name                                         | O    | 0..   | ST   |         |          |
| 16.4    | second and further given names or initials thereof | O    | 0..   | ST   |         |          |
| 16.5    | suffix (e.g., JR or III)                           | O    | 0..   | ST   |         |          |
| 16.6    | prefix (e.g., DR)                                  | O    | 0..   | ST   |         |          |
| 16.7    | degree (e.g., MD)                                  | O    | 0..   | IS   | HL70360 |          |
| 16.8    | source table                                       | O    | 0..   | IS   | HL70297 |          |
| 16.9    | assigning authority                                | O    | 0..   | HD   |         |          |
| 16.9.1  | namespace ID                                       | O    | 0..   | IS   | HL70363 |          |
| 16.9.2  | universal ID                                       | O    | 0..   | ST   |         |          |
| 16.9.3  | universal ID type                                  | O    | 0..   | ID   | HL70301 |          |
| 16.10   | name type code                                     | O    | 0..   | ID   | HL70200 |          |
| 16.11   | identifier check digit                             | O    | 0..   | ST   |         |          |
| 16.12   | code identifying the check digit scheme employed   | O    | 0..   | ID   | HL70061 |          |
| 16.13   | identifier type code (IS)                          | O    | 0..   | IS   |         |          |
| 16.14   | assigning facility                                 | O    | 0..   | HD   |         |          |
| 16.14.1 | namespace ID                                       | O    | 0..   | IS   | HL70363 |          |
| 16.14.2 | universal ID                                       | O    | 0..   | ST   |         |          |
| 16.14.3 | universal ID type                                  | O    | 0..   | ID   | HL70301 |          |
| 16.15   | Name Representation code                           | O    | 0..   | ID   | HL70465 |          |
| 16.16   | name context                                       | O    | 0..   | CE   | HL70448 |          |
| 16.16.1 | identifier                                         | O    | 0..   | ST   |         |          |
| 16.16.2 | text                                               | O    | 0..   | ST   |         |          |
| 16.16.3 | name of coding system                              | O    | 0..   | IS   | HL70396 |          |
| 16.16.4 | alternate identifier                               | O    | 0..   | ST   |         |          |
| 16.16.5 | alternate text                                     | O    | 0..   | ST   |         |          |
| 16.16.6 | name of alternate coding system                    | O    | 0..   | IS   | HL70396 |          |



| Seq.    | Name                            | Opt. | Card. | Type | Table   | Contents |
|---------|---------------------------------|------|-------|------|---------|----------|
| 16.17   | name validity range             | O    | 0..   | DR   |         |          |
| 16.17.1 | range start date/time           | O    | 0..   | TS   |         |          |
| 16.17.2 | range end date/time             | O    | 0..   | TS   |         |          |
| 16.18   | name assembly order             | O    | 0..   | ID   | HL70444 |          |
| 17      | Observation Method              | O    | 0..2  | CE   |         |          |
| 17.2    | text                            | O    | 0..   | ST   |         |          |
| 17.3    | name of coding system           | O    | 0..   | IS   | HL70396 |          |
| 17.4    | alternate identifier            | O    | 0..   | ST   |         |          |
| 17.5    | alternate text                  | O    | 0..   | ST   |         |          |
| 17.6    | name of alternate coding system | O    | 0..   | IS   | HL70396 |          |
| 18      | Equipment Instance Identifier   | O    | 0..*  | EI   |         |          |
| 18.1    | entity identifier               | O    | 0..   | ST   |         |          |
| 18.2    | namespace ID                    | O    | 0..   | IS   | HL70363 |          |
| 18.3    | universal ID                    | O    | 0..   | ST   |         |          |
| 18.4    | universal ID type               | O    | 0..   | ID   | HL70301 |          |
| 19      | Date/Time of the Analysis       | O    | 0..1  | TS   |         |          |

## 1. Set ID - OBX

### 2. Value Type

Supported value(s)

- TX (For Text Attachment type)
- FT (For Text Attachment type)

### 3. Observation Identifier

#### 3.1. identifier

Must correspond with an attachment code that is setup as a \_\_Patient level\_\_ - attachment as defined in the Administrator desktop.

### 4. Observation Sub-Id

### 5. Observation Value

Supported:

- plain text (in case of Text attachment type)

**6. Units**

**7. References Range**

**8. Abnormal Flags**

**9. Probability**

**10. Nature of Abnormal Test**

**11. Observation Result Status**

**12. Date Last Observation Normal Value**

**13. User Defined Access Checks**

**14. Date/Time of the Observation**

**15. Producer's ID**

**16. Responsible Observer**

**17. Observation Method**

**18. Equipment Instance Identifier**

**19. Date/Time of the Analysis**