

# Technical HL7 Conformance Profile

# **ENTERPRISE IMAGING**

# **INBOUND ORM\_O01**

---

Copyright notice:

Copyright 2012 Agfa HealthCare

All rights reserved.

Agfa shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance or use of this publication.

Agfa reserves the right to revise this publication and to make changes to its content at any time, without obligation to notify any person or entity of such revisions and changes.

This publication may only be used in connection with the promotion, sales, installation and use of Agfa equipment by Agfa personnel.

Publication date:

10-2021

Publication number:

V1.0 (technical)

Corporate address:

Agfa HealthCare

SIV Connectivity

Septestraat 27

B-2640 Mortsel

Belgium

+32 3 444 7588

<http://www.agfahealthcare.com/>

email : [connectivity@agfa.com](mailto:connectivity@agfa.com)

## Message Profile

### About this Conformance

This profile describes the ORM message structure used to import order messages from a 3rd party order filler application into Enterprise Imaging. ORM messages treated by this interface are seen as Orders from an Order placer system, and are available in the Order waiting list in Impax RIS.

The orders will appear in Enterprise Imaging as if they were created with Receptionist's desktop application.

The use case is described in the IHE Radiology Technical Framework - Chapter 4.4 & Chapter 4.13.

\* Transaction 4 : Procedure Scheduled.

\* Transaction 13: Procedure Update

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: Constraining
- Topics: confsig-Agfa Healthcare-2.3,2.3.1,2.4,2.5-profile-accAL\_accNE-Immediate

#### Encoding Method

ER7

## Interaction 1

### Dynamic Definition

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

### Static Definition

- Message Type: ORM
- Trigger Event: O01
- Message Structure: ORM\_O01
- Topics: confsig-Agfa Healthcare-2.3,2.3.1,2.4,2.5-static-ORM-O01-null-ORM\_O01-V1.0-DRAFT-Receiver

### Message structure

MSH PID [PD1] [PV1] {[AL1]} ORC OBR {[NTE]} { [OBX] } [ZDS]

### 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 |                          |
| 7    | Date/Time Of Message | O    | 0..1  | TS     |         |                          |
| 7.1  | Date/Time            | O    | 0..   | NM     |         | e.g. 20040328134602+0600 |
| 9    | Message Type         | R    | 1..1  | CM_MSC | HL70076 |                          |
| 9.1  | message type         | R    | 1..1  | ID     | HL70076 | e.g. ORM                 |
| 9.2  | trigger event        | R    | 1..1  | ID     | HL70003 | e.g. 001                 |
| 9.3  | message structure    | O    | 0..   | ID     | HL70354 | e.g. ORM_O01             |
| 10   | Message Control ID   | R    | 1..1  | ST     |         |                          |
| 12   | Version ID           | R    | 1..1  | VID    | HL70104 |                          |
| 12.1 | version ID           | R    | 1..1  | ID     | HL70104 | e.g. 2.4                 |
| 18   | Character Set        | O    | 0..1  | ID     | HL70211 |                          |

## 1. Field Separator

## 2. Encoding Characters

## 3. Sending Application

## 4. Sending Facility

## 7. Date/Time Of Message

### 7.1. Date/Time

YYYYMMDD[HHMM[SS]][+-ZZZZ]

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

## 10. Message Control ID

## 12. Version ID

Supported versions: 2.3 - 2.3.1 - 2.4 - 2.5.

## 18. Character Set

## Segment group: PATIENT

- Usage: Required
- Cardinality:1..1

## 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 |          |
| 3.4.2 | universal ID              | O    | 0..   | ST   |         |          |
| 3.4.3 | universal ID type         | O    | 0..   | ID   | HL70301 |          |
| 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   |         |          |

| Seq.   | Name                                               | Opt. | Card. | Type | Table   | Contents |
|--------|----------------------------------------------------|------|-------|------|---------|----------|
| 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   |         |          |
| 5.5    | prefix (e.g., DR)                                  | 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   |         |          |
| 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 |          |

| Seq. | Name                        | Opt. | Card. | Type | Table   | Contents                 |
|------|-----------------------------|------|-------|------|---------|--------------------------|
| 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   |         |                          |
| 29.1 | Date/Time                   | RE   | 0..   | NM   |         | e.g. 20040328134602+0600 |
| 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. assigning authority

The "Assigning authority" aka "Issuer of Patient ID" can consist of the following three parts:

- Namespace ID // Issuer of Patient ID
- Universal ID // Universal Entity ID
- Universal ID Type // Universal Entity ID Type

Namespace ID, or combination of Universal ID and Universal ID Type, unique define the issuer.

Either only Namespace is specified, or only Universal ID and Universal ID Type are specified, or all three components are specified.

The combination of "Namespace ID" - "Universal ID" - "Universal ID Type" must be unique in EI!  
Though the component is not required, it is strongly advised to provide a value.

##### 3.4.1. namespace ID

Identifier of the Assigning Authority that issued the patient id.

If not available an unique internal assigning authority will be used

##### 3.4.2. universal ID

Universal Entity ID.

This ID must be unique in EI and must be in the correct format, i.e. containing only digits and dots.  
Its total length <= 64 characters!

##### 3.4.3. universal ID type

Universal Entity ID Type.

Only supported value :

-ISO

#### 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

When "Name representation code" = alphabetic or "Name type code" indicates maiden name is specified, following rule applies:

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

### 5.3. second and further given names or initials thereof

Patient Middle Name

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

Patient's suffix

### 5.5. prefix (e.g., DR)

Patient's prefix

### 5.7. name type code

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

### 5.8. Name Representation code

Supported are :

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

## 7. Date/Time Of Birth

### 7.1. Date/Time

format YYYYMMDDHHMMSS

## 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

communication\_channel.Street (if PID-11.1.2 is empty)

**11.1.2. street name**

communication\_channel.Street

**11.1.3. dwelling number**

communication\_channel.Streetnr

**11.2. other designation**

communication\_channel.Address\_Line1

**11.3. city**

municipality.name (if empty -> Unknown is used)

**11.4. state or province**

communication\_channel.Address\_Line3

**11.5. zip or postal code**

municipality.zip (if empty -> code UKW is used - mapping to name = Unknown)

**11.6. country**

communication\_channel.country (3 digit code - if empty: code UKW - mapping to name = Unknown)

**11.7. address type**

communication\_channel.communication\_type (H - for home address / O - for office address / L maps to O / other codes map to H)

**11.8. other geographic designation**

communication\_channel.Address\_Line2

**11.9. county/parish code**

communication\_channel.Address\_Line4

**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)
- 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**

First one is the primary home 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**

Social security number of the patient.

## 23. Birth Place

## 29. Patient Death Date and Time

*Condition Predicate:*

If Patient Death Indicator (PID.30) has value Y, this field also needs a value.

### 29.1. Date/Time

YYYYMMDD[HHMM[SS]][+ZZZZ]

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

## 30. Patient Death Indicator

Y or N

## PD1 - patient additional demographic

- Usage: Optional

- Cardinality:0..1

| Seq.  | Name                                        | Opt. | Card. | Type | Table   | Contents |
|-------|---------------------------------------------|------|-------|------|---------|----------|
| 4     | Patient Primary Care Provider Name & ID No. | O    | 0..1  | XCN  |         |          |
| 4.1   | ID number (ST)                              | O    | 0..   | ST   |         |          |
| 4.2   | family name                                 | O    | 0..   | FN   |         |          |
| 4.2.1 | surname                                     | O    | 0..   | ST   |         |          |
| 4.3   | given name                                  | O    | 0..   | ST   |         |          |
| 4.9   | assigning authority                         | O    | 0..   | HD   |         |          |
| 4.9.1 | namespace ID                                | O    | 0..   | IS   | HL70363 |          |

## 4. Patient Primary Care Provider Name & ID No.

### 4.1. ID number (ST)

Primary Care Physician code.

### 4.2. family name

Physician Family Name

### 4.3. given name

Physician given name.

### 4.9. assigning authority

Assigning Authority of physician code.

#### 4.9.1. namespace ID

Identifier of the Assigning Authority that issued the physicians code. If empty, the default assigning authority will be taken.

## **Segment group: PATIENT.PATIENT VISIT - PATIENT.PATIENT.PATIENT VISIT**

- Usage: Required
- Cardinality:1..1

### **PV1 - Patient visit**

- Usage: Optional
- Cardinality:0..1
- Implementation note: An unexisting admission will be created depending on the value of ORM inbound pipeline property "Create admission". Existing Admissions will be updated when sending ORM message depending on the value of ORM inbound property "Update admission".

| Seq.   | Name                                               | Opt. | Card. | Type | Table   | Contents |
|--------|----------------------------------------------------|------|-------|------|---------|----------|
| 1      | Set ID - PV1                                       | O    | 0..1  | SI   |         |          |
| 2      | Patient Class                                      | R    | 1..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 |          |
| 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..1  | XCN  | HL70010 |          |
| 7.1    | ID number (ST)                                     | O    | 0..   | ST   |         |          |
| 7.2    | family name                                        | O    | 0..   | FN   |         |          |
| 7.2.1  | surname                                            | O    | 0..   | ST   |         |          |
| 7.3    | 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 |          |
| 8      | Referring Doctor                                   | O    | 0..1  | XCN  | HL70010 |          |
| 8.1    | ID number (ST)                                     | O    | 0..   | ST   |         |          |
| 8.2    | family name                                        | O    | 0..   | FN   |         |          |
| 8.2.1  | surname                                            | O    | 0..   | ST   |         |          |
| 8.3    | given name                                         | O    | 0..   | ST   |         |          |

| Seq.   | Name                                               | Opt. | Card. | Type | Table   | Contents                 |
|--------|----------------------------------------------------|------|-------|------|---------|--------------------------|
| 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 |                          |
| 15     | Ambulatory Status                                  | O    | 0..1  | IS   | HL70009 |                          |
| 16     | VIP Indicator                                      | O    | 0..1  | IS   | HL70099 |                          |
| 17     | Admitting Doctor                                   | O    | 0..1  | XCN  | HL70010 |                          |
| 17.1   | ID number (ST)                                     | O    | 0..   | ST   |         |                          |
| 17.2   | family name                                        | O    | 0..   | FN   |         |                          |
| 17.2.1 | surname                                            | O    | 0..   | ST   |         |                          |
| 17.3   | 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 |                          |
| 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 |                          |
| 44     | Admit Date/Time                                    | O    | 0..1  | TS   |         |                          |
| 44.1   | Date/Time                                          | O    | 0..   | NM   |         | e.g. 20040328134602+0600 |
| 44.2   | degree of precision                                | O    | 0..   | ST   |         | e.g. D                   |
| 45     | Discharge Date/Time                                | O    | 0..1  | TS   |         |                          |
| 45.1   | Date/Time                                          | O    | 0..   | NM   |         | e.g. 20040328134602+0600 |

## 1. Set ID - PV1

## 2. Patient Class

Patient Class

### 3.1. point of care

Department code of patient location.

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. facility (HD)**

Location facility.

#### **3.4.1. namespace ID**

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

### **3.11. assigning authority for location**

Assigning authority of the location.

#### **3.11.1. namespace ID**

Identifier of the Assigning Authority that issued the department/facility code. If empty, the default assigning authority will be taken.

## **4. Admission Type**

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

## **7. Attending Doctor**

Attending physician information.

### **7.1. ID number (ST)**

physician identifier.

#### **7.2.1. surname**

Family name of the physician.

### **7.3. given name**

Given name of the physician.

### **7.4. second and further given names or initials thereof**

Middle name of the physician.

### **7.5. suffix (e.g., JR or III)**

Name suffix, like SR

### **7.6. prefix (e.g., DR)**

Name prefix, like Prof

### **7.9. assigning authority**

Assigning Authority of attending physician code.

**7.9.1. namespace ID**

Identifier of the Assigning Authority that issued the attending physician code. If empty, the default assigning authority will be taken.

**8. Referring Doctor**

Referring physician information (see detailed component description in PV1-7)

**8.9. assigning authority**

Assigning Authority of referring physician code.

**8.9.1. namespace ID**

Identifier of the Assigning Authority that issued the referring physician code. If empty, the default assigning authority will be taken.

**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 (see detailed component description in PV1-7)

**17.9. assigning authority**

Assigning Authority of admitting physician code.

**17.9.1. namespace ID**

Identifier of the Assigning Authority that issued the admitting physician code. If empty, the default assigning authority will be taken.

**18. Patient Type**

Site-specific values that identify the patient type.

**19. Visit Number****19.1. ID**

Unique number identifying the admission.

**19.4.1. namespace ID**

Identifier of the Assigning Authority that issued the admission number. If empty, the default assigning authority will be taken.

**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

#### 44.2. degree of precision

Retained for backward compatibility only

#### 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

**End of segment group PATIENT.PATIENT\_VISIT**

### AL1 - Patient allergy information

- Usage: Optional

- Cardinality:0..\*

| Seq. | Name                               | Opt. | Card. | Type | Table   | Contents |
|------|------------------------------------|------|-------|------|---------|----------|
| 3    | Allergen Code/Mnemonic/Description | R    | 1..1  | CE   |         |          |
| 3.1  | identifier                         | R    | 1..1  | ST   |         |          |
| 4    | Allergy Severity Code              | O    | 0..1  | CE   | HL70128 |          |
| 4.1  | identifier                         | O    | 0..   | ST   |         |          |
| 5    | Allergy Reaction Code              | O    | 0..*  | ST   |         |          |
| 6    | Identification Date                | O    | 0..1  | DT   |         |          |

#### 3. Allergen Code/Mnemonic/Description

Allergy code, name

#### 4. Allergy Severity Code

Severity code, supported values :

- SV : Severe
- MO : Moderate
- MI : Mild
- Unknown.

#### 5. Allergy Reaction Code

Reaction code

#### 6. Identification Date

The start date/time when allergy identified.

**End of segment group PATIENT**

## Segment group: ORDER

- Usage: Required
- Cardinality:1..1

## ORC

- Usage: Required
- Cardinality:1..1

| Seq.   | Name                                               | Opt. | Card. | Type | Table   | Contents                      |
|--------|----------------------------------------------------|------|-------|------|---------|-------------------------------|
| 1      | Order Control                                      | R    | 1..1  | ID   | HL70119 |                               |
| 2      | Placer Order Number                                | O    | 0..1  | EI   |         |                               |
| 2.1    | entity identifier                                  | O    | 0..   | ST   |         |                               |
| 2.2    | namespace ID                                       | O    | 0..   | IS   | HL70363 |                               |
| 3      | Filler Order Number                                | R    | 1..1  | EI   |         |                               |
| 3.1    | entity identifier                                  | R    | 1..1  | ST   |         |                               |
| 3.2    | namespace ID                                       | O    | 0..   | IS   | HL70363 |                               |
| 5      | Order Status                                       | O    | 0..1  | ID   | HL70038 |                               |
| 7      | Quantity/Timing                                    | O    | 0..*  | TQ   |         |                               |
| 7.4    | start date/time                                    | O    | 0..   | TS   |         |                               |
| 7.4.1  | Date/Time                                          | O    | 0..   | NM   |         | e.g. 20040328134602+0600      |
| 7.5    | end date/time                                      | O    | 0..   | TS   |         |                               |
| 7.5.1  | Date/Time                                          | O    | 0..   | NM   |         | e.g. 20040328134602+0600      |
| 7.6    | priority                                           | O    | 0..   | ST   |         |                               |
| 9      | Date/Time of Transaction                           | O    | 0..1  | TS   |         |                               |
| 9.1    | Date/Time                                          | O    | 0..   | NM   |         | e.g. 20040328134602+0600      |
| 12     | Ordering Provider                                  | O    | 0..1  | XCN  |         |                               |
| 12.1   | ID number (ST)                                     | R    | 1..1  | ST   |         |                               |
| 12.2   | family name                                        | R    | 1..1  | FN   |         |                               |
| 12.2.1 | surname                                            | R    | 1..1  | ST   |         |                               |
| 12.3   | given name                                         | O    | 0..   | ST   |         |                               |
| 12.4   | second and further given names or initials thereof | O    | 0..   | ST   |         |                               |
| 12.5   | suffix (e.g., JR or III)                           | O    | 0..   | ST   |         |                               |
| 12.6   | prefix (e.g., DR)                                  | O    | 0..   | ST   |         |                               |
| 12.9   | assigning authority                                | O    | 0..   | HD   |         |                               |
| 12.9.1 | namespace ID                                       | O    | 0..   | IS   | HL70363 |                               |
| 15     | Order Effective Date/Time                          | O    | 0..1  | TS   |         |                               |
| 15.1   | Date/Time                                          | O    | 0..   | NM   |         | e.g. 20040328134602.1234+0600 |
| 17     | Entering Organization                              | O    | 0..1  | CE   |         |                               |
| 17.1   | identifier                                         | R    | 1..1  | ST   |         |                               |



| Seq.   | Name                   | Opt. | Card. | Type | Table   | Contents |
|--------|------------------------|------|-------|------|---------|----------|
| 17.2   | text                   | O    | 0..   | ST   |         |          |
| 17.3   | name of coding system  | O    | 0..   | IS   | HL70396 |          |
| 21     | Ordering Facility Name | O    | 0..*  | XON  |         |          |
| 21.1   | organization name      | O    | 0..   | ST   |         |          |
| 21.3   | ID number (NM)         | R    | 1..1  | NM   |         |          |
| 21.6   | assigning authority    | O    | 0..   | HD   |         |          |
| 21.6.1 | namespace ID           | R    | 1..1  | IS   | HL70363 |          |
| 25     | Order Status Modifier  | O    | 0..*  | CWE  |         |          |
| 25.1   | identifier (ST)        | O    | 0..   | ST   |         |          |

## 1. Order Control

Supported:

- NW (New order)
- SC/XO/XX(Change Order)
- CA (Cancel Order)
- DC (Discontinue order)

## 2. Placer Order Number

## 3. Filler Order Number

### 3.1. entity identifier

filler order number

### 3.2. namespace ID

Assigning authority issuing the fillerOrderNumber.

If empty, the default assigning authority will be taken.

## 5. Order Status

Supported:

- empty, when updating an existing order no status change
- when creating a new order set SPS status as Scheduled
- IP, set SPS status as STARTED
- CM set SPS status as COMPLETED
- DC, set SPS status as DISCONTINUED
- CA set SPS status as CANCELLED
- SC, set SPS status as Ordered/Scheduled
- PA, set SPS status as Ordered/Scheduled + set patient arrived flag to True

## 7. Quantity/Timing

Identical to the Quantity/Timing in OBR-Segment (OBR-27).

If values provided in these fields differ, EI will consider value provided in OBR-27.

**7.4.1. Date/Time**

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

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

**7.5.1. Date/Time**

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

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

**7.6. priority**

1) For existing sites (migration)

- High Priority codes: A, T
- Normal Priority codes: S, Unknown\*
- Low Priority Codes: C, P, R

2) For new installations

- STAT priority code: S
- Urgent priority codes: A, T
- High Priority code: C
- Normal Priority codes: P, Unknown\*
- Routine Priority Code: R

These values are configurable.

\* A value for which no mapping is applicable.

**9. Date/Time of Transaction**

Fall back for ORC.15 being empty.

Used as order creation date/time.

When empty, the Date/Time of processing the message is taken

**9.1. Date/Time**

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

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

**12. Ordering Provider**

If this is not filled in OBR-16 is processed instead.

**12.1. ID number (ST)**

Unique code of physician providing the order.

**12.2.1. surname**

Family name of the physician.

**12.3. given name**

Given name of the physician.

**12.4. second and further given names or initials thereof**

Middle name of the physician.

**12.5. suffix (e.g., JR or III)**

Name suffix, like SR

**12.6. prefix (e.g., DR)**

Name prefix, like Prof

**12.9. assigning authority**

Assigning authority

**12.9.1. namespace ID**

Identifier of the Assigning Authority that issued the physician code.

If empty, the default assigning authority will be taken.

**15. Order Effective Date/Time**

Fall back for OBR.6 being empty.

Used as order creation date/time.

When empty, ORC.9 is taken.

**15.1. Date/Time**

YYYYMMDD[HHHMM[SS[.SSSS]]][+-ZZZ Z]

**17. Entering Organization**

Requesting Department.

**17.1. identifier**

Code of the department.

**17.2. text**

Name of the department.

If empty, the identifier will be taken as name.

**17.3. name of coding system**

Identifier of the Assigning Authority that issued the department id.

If empty, the default system assigning authority will be taken.

**21. Ordering Facility Name**

Requesting Hospital.

**21.1. organization name**

Name of the hospital.

If empty, the identifier of the requesting facility will be taken as name.

**21.3. ID number (NM)**

Identifier of the hospital.

## 21.6. assigning authority

Assigning authority

### 21.6.1. namespace ID

Identifier of the Assigning Authority that issued the requesting hospital id.

If empty, the default assigning authority will be taken.

## 25. Order Status Modifier

Order Status Modifier only supported when property on ORM inbound pipeline, Delete requested procedure upon ORM cancel with ORC-25 = DELETE, is true.

### 25.1. identifier (ST)

Only supported value : DELETE.

For a procedure where no reading workflow or QC workflow is started and no images are available the following applies depending on the ORM inbound pipeline property setting :

- property true : When ORM message is sent to cancel a procedure ( Order control, ORC.1=CA and Order status, ORC.5=CA)and value of this field is "DELETE", the procedure will be deleted.
- property false : A status update to procedure canceled is performed.

In all other cases only status update to procedure canceled will be performed.

## Segment group: ORDER.ORDER DETAIL

- Usage: Required

- Cardinality:1..1

### OBR

- Usage: Required

- Cardinality:1..1

| Seq. | Name                         | Opt. | Card. | Type | Table   | Contents |
|------|------------------------------|------|-------|------|---------|----------|
| 1    | Set ID - OBR                 | O    | 0..1  | SI   |         | e.g. 1   |
| 2    | Placer Order Number          | O    | 0..1  | EI   |         |          |
| 2.1  | entity identifier            | O    | 0..   | ST   |         |          |
| 2.2  | namespace ID                 | O    | 0..   | IS   | HL70363 |          |
| 3    | Filler Order Number          | R    | 1..1  | EI   |         |          |
| 3.1  | entity identifier            | R    | 1..1  | ST   |         |          |
| 3.2  | namespace ID                 | O    | 0..   | IS   | HL70363 |          |
| 4    | Universal Service Identifier | R    | 1..1  | CE   |         |          |
| 4.1  | identifier                   | R    | 1..1  | ST   |         |          |
| 4.2  | text                         | O    | 0..   | ST   |         |          |
| 4.3  | name of coding system        | O    | 0..   | IS   | HL70396 |          |
| 4.4  | alternate identifier         | O    | 0..   | ST   |         |          |
| 4.5  | alternate text               | O    | 0..   | ST   |         |          |

| Seq.   | Name                                               | Opt. | Card. | Type | Table   | Contents                 |
|--------|----------------------------------------------------|------|-------|------|---------|--------------------------|
| 4.6    | name of alternate coding system                    | O    | 0..   | IS   | HL70396 |                          |
| 6      | Requested Date/Time                                | O    | 0..1  | TS   |         |                          |
| 6.1    | Date/Time                                          | O    | 0..   | NM   |         | e.g. 20040328134602+0600 |
| 13     | Relevant Clinical Info.                            | O    | 0..1  | ST   |         |                          |
| 16     | Ordering Provider                                  | 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   |         |                          |
| 16.3   | 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   |         |                          |
| 16.9   | assigning authority                                | O    | 0..   | HD   |         |                          |
| 16.9.1 | namespace ID                                       | O    | 0..   | IS   | HL70363 |                          |
| 18     | Placer Field 1                                     | C    | 0..1  | ST   |         |                          |
| 19     | Placer Field 2                                     | R    | 1..1  | ST   |         |                          |
| 20     | Filler Field 1 +                                   | R    | 1..1  | ST   |         |                          |
| 24     | Diagnostic Serv Sect ID                            | O    | 0..1  | ID   | HL70074 |                          |
| 27     | Quantity/Timing                                    | O    | 0..*  | TQ   |         |                          |
| 27.4   | start date/time                                    | O    | 0..   | TS   |         |                          |
| 27.4.1 | Date/Time                                          | O    | 0..   | NM   |         | e.g. 20040328134602+0600 |
| 27.5   | end date/time                                      | O    | 0..   | TS   |         |                          |
| 27.5.1 | Date/Time                                          | O    | 0..   | NM   |         | e.g. 20040328134602+0600 |
| 27.6   | priority                                           | O    | 0..   | ST   |         |                          |
| 28     | Result Copies To                                   | O    | 0..1  | XCN  |         |                          |
| 28.1   | ID number (ST)                                     | R    | 1..1  | ST   |         |                          |
| 28.2   | family name                                        | O    | 0..   | FN   |         |                          |
| 28.2.1 | surname                                            | O    | 0..   | ST   |         |                          |
| 28.3   | given name                                         | O    | 0..   | ST   |         |                          |
| 28.4   | second and further given names or initials thereof | O    | 0..   | ST   |         |                          |
| 28.5   | suffix (e.g., JR or III)                           | O    | 0..   | ST   |         |                          |
| 28.6   | prefix (e.g., DR)                                  | O    | 0..   | ST   |         |                          |
| 28.9   | assigning authority                                | O    | 0..   | HD   |         |                          |
| 28.9.1 | namespace ID                                       | O    | 0..   | IS   | HL70363 |                          |
| 31     | Reason for Study                                   | O    | 0..2  | CE   |         |                          |
| 31.2   | text                                               | O    | 0..   | ST   |         |                          |

| Seq.   | Name                                               | Opt. | Card. | Type   | Table   | Contents                 |
|--------|----------------------------------------------------|------|-------|--------|---------|--------------------------|
| 32     | Principal Result Interpreter +                     | O    | 0..1  | CM_NDL |         |                          |
| 32.1   | name                                               | O    | 0..   | CN     |         |                          |
| 32.1.1 | ID number (ST)                                     | O    | 0..   | ST     |         |                          |
| 32.1.2 | family name                                        | O    | 0..   | FN     |         |                          |
| 32.1.3 | given name                                         | O    | 0..   | ST     |         |                          |
| 32.1.4 | second and further given names or initials thereof | O    | 0..   | ST     |         |                          |
| 32.1.5 | suffix (e.g., JR or III)                           | O    | 0..   | ST     |         |                          |
| 32.1.6 | prefix (e.g., DR)                                  | O    | 0..   | ST     |         |                          |
| 32.1.9 | assigning authority                                | O    | 0..   | HD     |         |                          |
| 34     | Technician +                                       | O    | 0..*  | CM_NDL |         |                          |
| 34.1   | name                                               | O    | 0..   | CN     |         |                          |
| 34.1.1 | ID number (ST)                                     | R    | 1..1  | ST     |         |                          |
| 34.1.2 | family name                                        | O    | 0..   | FN     |         |                          |
| 34.1.3 | given name                                         | O    | 0..   | ST     |         |                          |
| 34.1.4 | second and further given names or initials thereof | O    | 0..   | ST     |         |                          |
| 34.1.5 | suffix (e.g., JR or III)                           | O    | 0..   | ST     |         |                          |
| 34.1.6 | prefix (e.g., DR)                                  | O    | 0..   | ST     |         |                          |
| 34.1.9 | assigning authority                                | O    | 0..   | HD     |         |                          |
| 34.5   | room                                               | O    | 0..   | IS     | HL70303 |                          |
| 36     | Scheduled Date/Time +                              | O    | 0..1  | TS     |         |                          |
| 36.1   | Date/Time                                          | O    | 0..   | NM     |         | e.g. 20040328134602+0600 |
| 43     | Planned Patient Transport Comment                  | O    | 0..*  | CE     |         |                          |
| 43.1   | identifier                                         | O    | 0..   | ST     |         |                          |
| 43.2   | text                                               | O    | 0..   | ST     |         |                          |
| 43.3   | name of coding system                              | O    | 0..   | IS     | HL70396 |                          |

## 1. Set ID - OBR

## 2. Placer Order Number

Identical to ORC-2

## 3. Filler Order Number

Identical to ORC-3

## 4. Universal Service Identifier

### 4.1. identifier

The code of the requested procedure definition

**4.2. text**

The description of the requested procedure definition

**4.3. name of coding system**

Code of the performing department

Any value in OBR.43 will overrule this value.

Department will be created if not existing in EI.

The combination of OBR-4.3 and the default assigning authority is used in the lookup.

**4.4. alternate identifier**

The code of the scheduled procedure step definition

**4.5. alternate text**

The description of the scheduled procedure step definition

**4.6. name of alternate coding system**

Coding system providing the code.

If empty use issuer of order filler number.

If there is no issuer for order filler number, use the default assigning authority.

**6. Requested Date/Time**

Used as order creation date/time.

When empty a fall back on ORC.15 and ORC.9 is done.

If both empty, creation date/time is the date/time when processing the message.

**6.1. Date/Time**

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

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

**13. Relevant Clinical Info.****16. Ordering Provider**

The ordering provider should be the same as ORC-12.

If ORC-12 is filled in, this will not be processed.

**16.2.1. surname**

Family name of the physician.

**16.3. given name**

Given name of the physician.

**16.4. second and further given names or initials thereof**

Middle name of the physician.

**16.5. suffix (e.g., JR or III)**

Name suffix, like SR

**16.6. prefix (e.g., DR)**

Name prefix, like Prof

**16.9. assigning authority**

Assigning authority

**16.9.1. namespace ID**

Identifier of the Assigning Authority that issued the physician code.

If empty, the default assigning authority will be taken.

**18. Placer Field 1**

Accession number of the requested procedure

*Condition Predicate:*

Field is required when the message has no StudyInstanceUid specified. (no ZDS segment)

**19. Placer Field 2**

Requested procedure ID

**20. Filler Field 1 +**

Scheduled Procedure Step ID

**24. Diagnostic Serv Sect ID**

Modality Type (Used when Procedure Definition is created on the fly)

**27. Quantity/Timing**

Identical to the Quantity/Timing in ORC-Segment (ORC-7).

If values provided in these fields differ, EI will consider value provided in OBR-27.

**27.4. start date/time**

Used as the requested procedure scheduled study date/time and the scheduled procedure step start date/time.

When the value is empty, the value of OBR.36 is taken as requested procedure study date/time and scheduled procedure step start date/time.

**27.4.1. Date/Time**

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

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

**27.5. end date/time**

Used as scheduled procedure step end date/time.

**27.5.1. Date/Time**

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

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

**27.6. priority**

1) For existing sites (migration)

- High Priority codes: A, T



- Normal Priority codes: S, Unknown\*
- Low Priority Codes: C, P, R

2) For new installations

- STAT priority code: S
- Urgent priority codes: A, T
- High Priority code: C
- Normal Priority codes: P, Unknown\*
- Routine Priority Code: R

These values are configurable.

\* A value for which no mapping is applicable.

## **28. Result Copies To**

### **28.1. ID number (ST)**

code of the physician

#### **28.2.1. surname**

Family name of the physician.

#### **28.3. given name**

Given name of the physician.

#### **28.4. second and further given names or initials thereof**

Middle name of the physician.

#### **28.5. suffix (e.g., JR or III)**

Name suffix, like SR

#### **28.6. prefix (e.g., DR)**

Name prefix, like Prof

#### **28.9. assigning authority**

Assigning authority

##### **28.9.1. namespace ID**

Identifier of the Assigning Authority that issued the physician code.

If empty, the default assigning authority will be taken.

## **31. Reason for Study**

### **31.2. text**

Text containing clinical information for the study.

## **32. Principal Result Interpreter +**

This field can be used to fill in the "reading physician".

Some RIS want to indicate already to which radiologist the reading task should be assigned to. So when they send the ORM, EI stores the reading physician and when a reading task is created, it can be assigned to the already filled in "reading physician".

**32.1.1. ID number (ST)**

Code identifying the physician.

**32.1.2. family name**

Family name of the physician.

**32.1.3. given name**

Given name of the physician.

**32.1.4. second and further given names or initials thereof**

Middle name of the physician.

**32.1.5. suffix (e.g., JR or III)**

Name suffix, like SR

**32.1.6. prefix (e.g., DR)**

Name prefix, like Prof

**32.1.9. assigning authority**

Identifier of the Assigning Authority that issued the principle result interpreter code.  
If empty, the default assigning authority will be taken.

**34. Technician +****34.1.1. ID number (ST)**

Code of the technician

**34.1.2. family name**

Family name of the physician.

**34.1.3. given name**

Given name of the physician.

**34.1.4. second and further given names or initials thereof**

Middle name of the physician.

**34.1.5. suffix (e.g., JR or III)**

Name suffix, like SR

**34.1.6. prefix (e.g., DR)**

Name prefix, like Prof

**34.1.9. assigning authority**

Identifier of the Assigning Authority that issued the technician code.  
If empty, the default assigning authority will be taken.

### 34.5. room

Acquisition room.

### 36. Scheduled Date/Time +

Used for requested procedure scheduled study date/time and scheduled procedure step date/time when OBR.27.4 is empty.

#### 36.1. Date/Time

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

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

### 43. Planned Patient Transport Comment

This field can be used to provide performing department.

When the performing department code provided in OBR-43.1 (with or without an issuer in OBR-43.3) is not found in the system, it will be created. When no name is present, the department code is used as the department name.

Another way to provide the performing department is by means of OBR-4.3 (universal service identifier). If present the value will be used in combination with the default assigning authority in the lookup.

#### 43.1. identifier

performing department code

#### 43.2. text

performing department name

#### 43.3. name of coding system

issuer of performing department code

## NTE - Notes and Comments

- Usage: Optional

- Cardinality:0..\*

| Seq. | Name         | Opt. | Card. | Type | Table   | Contents |
|------|--------------|------|-------|------|---------|----------|
| 3    | Comment      | O    | 0..*  | FT   |         |          |
| 4    | Comment Type | O    | 0..1  | CE   | HL70364 |          |
| 4.1  | identifier   | R    | 1..1  | ST   | HL70364 |          |

### 3. Comment

#### 4. Comment Type

This segment holds extra information on the order for this patient.

It is stored on order level and overwritten on updates.

#### 4.1. identifier

Supported values:

- CI (clinical info)

- PC (procedure comment)

## **Segment group: ORDER.ORDER DETAIL.OBSERVATION - ORDER.ORDER.ORDER DETAIL.ORDER.ORDER DETAIL.OBSERVATION**

- Usage: Required
- Cardinality:1..\*

### **OBX - Observation/Result**

- Usage: Optional
- Cardinality:0..1

| Seq. | Name                         | Opt. | Card. | Type | Table   | Contents                 |
|------|------------------------------|------|-------|------|---------|--------------------------|
| 1    | Set ID - OBX                 | R    | 1..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   |         |                          |
| 4    | Observation Sub-Id           | O    | 0..1  | ST   |         |                          |
| 5    | Observation Value            | R    | 1..1  | *    |         |                          |
| 11   | Observation Result Status    | O    | 0..1  | ID   | HL70085 |                          |
| 14   | Date/Time of the Observation | O    | 0..1  | TS   |         |                          |
| 14.1 | Date/Time                    | R    | 1..1  | NM   |         | e.g. 20040328134602+0600 |

#### **1. Set ID - OBX**

<DataType=SQ>

#### **2. Value Type**

Supported value(s)

- RP (For PDF/Image Attachment type)
- TX (For Text Attachment type or Pregnancy information)
- ED (For Attachment type PDF/Image - Base64 encoded encapsulated data)

#### **3. Observation Identifier**

##### **3.1. identifier**

1) OBX segment with attachment information:

Value of this field must correspond with an attachment code as defined in the Administrator desktop. The following attachment codes are already delivered in dedicated HL7 fields and therefore should not be processed as attachments in OBX-segments:

- REASONFORSTUDY (OBR(31))
- PROCEDURECOMMENT (NTE(3))

- CLINICALINFO (OBR(13) or NTE(3))

Remark :

-----

If the attachment code is not setup as a Study level- or Order level- or Report level-attachment in the Administrator Desktop, the attachment will not be processed.

The reception of multiple attachments with the same attachment code OBX(3.1) is supported:

- PDF/Image type attachments : when multiple attachments with the same attachment code are present, a new document/image is added per attachment
- Single value Text attachment: when multiple attachments with the same attachment code are present, the text from all these attachments is concatenated. A newline character is used to separate the texts from the different attachments.
- Message board Text attachment: when multiple attachments with the same attachment code are present, a separate text item is added to the message board per attachment.

2) OBX segment with Patient Arrived information:

Value of OBX-3 is PATIENT\_ARRIVED See following details.

The combination (OBX-2 = TX, OBX-3 = PATIENT\_ARRIVED, OBX-5 = YES) indicates the patient arrived status is true, whereas the combination (OBX-2 = TX, OBX-3 = PATIENT\_ARRIVED, OBX-5 = NO) indicates the patient arrived status is false

3) OBX segment holding Pregnancy information

- PREGNANT indicate pregnancy information

### 3.2. text

Optional description of the Observation

## 4. Observation Sub-Id

## 5. Observation Value

If OBX-2 = RP

- OBX-5 = path + file name for PDF/Image type attachment with Reference pointer

If OBX-2 = TX + OBX-3 = PATIENT\_ARRIVED

- OBX-5 = YES/NO

If OBX-2 = TX + OBX-3 = PREGNANT

- OBX-5 = YES/NO/UNKNOWN

If OBX-2 = ED

- OBX-5.1 = AGILITY
- OBX-5.2 = TEXT (in case of PDF) / IM (in case of Image)
- OBX-5.3 = PDF (in case of PDF) / JPEG, TIFF, GIF, PNG, BMP, JPG, TIF (in case of image: the type of the image)
- OBX-5.4 = Base64

- OBX-5.5 = The encoded attachment as one PDF in Base64 encoding

## 11. Observation Result Status

### 14. Date/Time of the Observation

YYYYMMDD (date/time of last menstrual period - in case of pregnancy information)

#### 14.1. Date/Time

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

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

*End of segment group ORDER.ORDER\_DETAIL.OBSERVATION*

*End of segment group ORDER.ORDER\_DETAIL*

*End of segment group ORDER*

## **ZDS**

- Usage: Required but may be empty

- Cardinality:0..1

| Seq. | Name              | Opt. | Card. | Type | Table | Contents |
|------|-------------------|------|-------|------|-------|----------|
| 1    | Reference Pointer | R    | 1..1  | RP   |       |          |
| 1.1  | pointer           | R    | 1..1  |      |       |          |

### 1.1. pointer

An instance UID used by EI to identify the study.