**Conformance Statement – OML**

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# Introduction

## Purpose

The purpose of this document is to provide guidelines for laboratory order message (OML) message type.

## Target Group

This document is intended for external suppliers and system administrators at VGR.

## References

For details on the message segments and trigger events – review the HL7 Messaging Standard Version 2.6 Product Brief:

* Chapter 2 (Control)
* Chapter 4 (Orders)
* Chapter 7 (Observations)
* Chapter 13 (Clinical Laboratory Automation)

## Message Profile

– HL7 Version: 2.6

– Profile Type: Constrainable

## Revision history

|  |  |  |  |
| --- | --- | --- | --- |
| Revision | Datum | Beskrivning | Utfärdare |
| PA1 | 2016-10-19 | Initial version | Albert Örwall |
| PA2 | 2016-12-19 | Major update | Ola Deibitsch |
| PA3 | 2017-04-25 | Updated MSH, ORC, OBR according to IHE. | Ola Deibitsch |

# OML

VGR supports the following OML trigger event:

• OML^O21 - "Laboratory order message"

The following message structure is applied to the supported trigger event.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Segment | Meaning | Usage | Card. | HL7 chapter |
| MSH | Message Header | R | 1..1 | 2 |
| [ | --- PATIENT begin | RE | 0..1 |  |
| PID | Patient Identification | R | 1..1 | 3 |
| [ | --- PATIENT\_VISIT begin | RE | 0..1 |  |
| PV1 | Patient Visit |  |  | 3 |
| ] | --- PATIENT\_VISIT end |  |  |  |
| ] | --- PATIENT end |  |  |  |
| { | --- ORDER begin | R | 1..\* |  |
| ORC | Common Order (for one battery) | R | 1..1 | 4 |
| [{ | --- TIMING begin | RE | 0..1 |  |
| TQ1 | Timing Quantity | R | 1..1 | 4 |
| }] | --- TIMING end |  |  |  |
|  | --- OBSERVATION REQUEST begin |  |  |  |
| OBR | Observation Request | R | 1..1 | 4 |
| {[NTE]} | Notes and Comments | O | 0..\* | 2 |
| [{ | --- OBSERVATION begin | O | 0..\* |  |
| OBX | Observation Result | R | 1..1 | 7 |
| [{NTE}] | Comment of the result | O | 0..\* | 2 |
| }] | --- OBSERVATION end |  |  |  |
| [{ | --- SPECIMEN begin | O | 0..\* | 7 |
| SPM | Specimen | R | 1..1 | 7 |
| [{SAC}] | Container | RE | 0..\* | 13 |
| }] | --- SPECIMEN end |  |  |  |
| [{ | --- PRIOR\_RESULT begin | O | 0..\* |  |
| PV1 | Patient Visit – previous result | R | 1..1 | 3 |
| { | --- ORDER\_PRIOR begin | R | 1..\* |  |
| ORC | Common Order - previous result | R | 1..1 | 4 |
| OBR | Order Detail - previous result | R | 1..1 | 4 |
| { [ NTE ] } | Notes and Comments - previous result | O | 0..\* | 2 |
| { | --- OBSERVATION\_PRIOR begin | R | 1..\* |  |
| OBX | Observation/Result - previous result | R | 1..1 | 7 |
| { [ NTE ] } | Notes and Comments - previous result | O | 0..\* | 2 |
| } | --- OBSERVATION\_PRIOR end |  |  |  |
| } | --- ORDER\_PRIOR end |  |  |  |
| ]} | --- PRIOR\_RESULT end |  |  |  |
|  | --- OBSERVATION REQUEST end |  |  |  |
| [{ FT1 }] | Financial Transaction | O | 0..\* | 6 |
| [{ CTI }] | Clinical Trial Identification | O | 0..\* | 7 |
| [ BLG ] | Billing Segment | O | 0..1 | 4 |
| ZBB | Biobank | R | 1..1 |  |
| [ ZKV ] | Classification of Care Measures | O | 0..1 |  |
| } | --- ORDER end |  |  |  |

## MSH – Message Header

The MSH segment defines the intent, source, destination, and some specifics of the syntax of a message.

Usage: Required  
Cardinality: 1..1

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Seq. | Name | Type | Table | Len | Opt | Card | Contents |
| 1 | Field Separator | ST |  | 1 | R | 1..1 | e.g. | |
| 2 | Encoding Characters | ST |  | 4 | R | 1..1 | e.g. ^~\& |
| 3 | Sending Application | HD |  | 227 | R | 1..1 |  |
| 3.1 | namespace ID | IS |  | 50 | O | 0..1 | e.g. LabPortalen |
| 3.2 | universal ID | ST |  | 169 | C | 0..1 | e.g. SE2321000131-S000000002179  HSA-ID (function) |
| 3.3 | universal ID Type | ID |  | 6 | C | 0..1 | e.g. L |
| 4 | Sending Facility | HD |  | 227 | O | 0..1 |  |
| 4.1 | namespace ID | IS |  | 50 | O | 0..1 |  |
| 4.2 | universal ID | ST |  | 169 | C | 0..1 | e.g.  HSA-ID (unit) |
| 4.3 | universal ID Type | ID |  | 6 | C | 0..1 | e.g. L |
| 5 | Receiving Application | HD | 0361 | 227 | O | 0..1 |  |
| 5.1 | namespace ID | IS |  | 50 | O | 0..1 | e.g. Sympathy |
| 5.2 | universal ID | ST |  | 169 | C | 0..1 | e.g. SE2321000131-S000000013606  HSA-ID (function) |
| 5.3 | universal ID Type | ID |  | 6 | C | 0..1 | e.g. L |
| 6 | Receiving Facility | HD | 0362 | 227 | O | 0..1 |  |
| 6.1 | namespace ID | IS |  | 50 | O | 0..1 |  |
| 6.2 | universal ID | ST |  | 169 | C | 0..1 | e.g. SE2321000131-E000000001378  HSA-ID (unit) |
| 6.3 | universal ID Type | ID |  | 6 | C | 0..1 | e.g. L |
| 7 | Date/Time Of Message | TS |  | 26 | R | 1..1 |  |
| 7.1 | Date/Time | NM |  | 24 | R | .. | e.g. 200511250945 |
| 9 | Message Type | CM\_MSG | 0076 | 15 | R | 1..1 |  |
| 9.1 | message type | ID | 0076 | 3 | R | .. | e.g. OML |
| 9.2 | trigger event | ID | 0003 | 3 | R | .. | e.g. O21 |
| 9.3 | message structure | ID | 0354 | 7 | O | .. | e.g. OML\_O21 |
| 10 | Message Control ID | ST |  | 20 | R | 1..1 | e.g. 0000001 |
| 11 | Processing ID | PT |  | 3 | R | 1..1 |  |
| 11.1 | processing ID | ID | 0103 | 3 | R | .. | e.g. P |
| 12 | Version ID | VID | 0104 | 973 | R | 1..1 |  |
| 12.1 | version ID | ID | 0104 | 60 | R | .. | e.g. 2.6 |
| 18 | Character Set | ID | 0211 | 16 | R | 1..1 | e.g. UNICODE UTF-8 |
| 22 | Sending Responsible Organization | XON |  | 567 | O | 0..1 |  |
| 22.1 | Organization Name | ST |  | 50 | O | 0..1 |  |
| 22.6 | assigning authority |  |  |  |  |  |  |
| 22.6.1 | namespace id | IS |  | 20 | O | 0..1 | e.g. Inera |
| 22.6.2 | universal id | ST |  | 199 | C | 0..1 | e.g. 1.2.752.29 |
| 22.6.3 | universal id type | ID |  | 6 | C | 0..1 | e.g. ISO |
| 22.10 | organizational identifier | ST |  | 20 | O | 0..1 | HSA-ID |
| 23 | Receiving Responsible Organization | XON |  | 567 | O | 0..1 |  |
| 23.1 | Organization Name | ST |  | 50 | O | 0..1 |  |
| 23.6 | assigning authority |  |  |  |  |  |  |
| 23.6.1 | namespace id | IS |  | 20 | O | 0..1 | e.g. Inera |
| 23.6.2 | universal id | ST |  | 199 | C | 0..1 | e.g. 1.2.752.29 |
| 23.6.3 | universal id type | ID |  | 6 | C | 0..1 | e.g. ISO |
| 23.10 | organizational identifier | ST |  | 20 | O | 0..1 | HSA ID |

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

**2. Encoding Characters**This field contains the four characters in the following order: the component separator, repetition separator, escape character, and subcomponent separator. Recommended values and used by VGR are ^~\&, (ASCII 94, 126, 92, and 38).

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

Sending Application can be used either as a local identifier (with only the <namespace ID> valued) or a publicly-assigned identifier, a UID (<universal ID> and <universal ID type> both valued).

In the first place, universal id and universal type id should be set. In cases where universal id isn’t available, namespace id must be used. If all components are valued, then the first component and the second and third (taken together) refer to the same entity.

*Condition Predicate:*

If the first component is present the second and third components are optional. If the second or third component is valued then the other component (second or third) is required. First component is optional.

**3.1 NamespaceID**This field defines a local identifier. The User-defined Table 0300 – Namespace ID is maintained by VGR Integration Competence Center (ICC).

**3.2 UniversalID**This field is a publicaly-assigned identifier, preferable a HSA-ID.

**3.3 UniversalTypeID**This field defines the Universal ID type. Valid values according to HL7 Table 0301 - Universal ID type.

HL7 Table 0301 - Universal ID type

|  |  |  |
| --- | --- | --- |
| Value | Description | Comment |
| L | HSA-ID | Locally-defined UID system by Inera |

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

Sending Facility can be used either as a local identifier (with only the <namespace ID> valued) or a publicly-assigned identifier, a UID (<universal ID> and <universal ID type> both valued).

In the first place, universal id and universal type id must be set. In cases where universal id is missing, namespace id must be used. If all components are valued, then the first component and the second and third (taken together) refer to the same entity.

*Condition Predicate:*

If the first component is present the second and third components are optional. If the second or third component is valued then the other component (second or third) is required. First component is optional.

**4.1 NamespaceID**This field defines a local identifier. The User-defined Table 0300 – Namespace ID is maintained by VGR Integration Competence Center (ICC).

**4.2 UniversalID**This field is a publicaly-assigned identifier.

**4.3 UniversalTypeID**This field defines the Universal ID type. Valid values according to HL7 Table 0301 - Universal ID type.

HL7 Table 0301 - Universal ID type

|  |  |  |
| --- | --- | --- |
| Value | Description | Comment |
| L | HSA-ID | Locally-defined UID system by Inera |

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

Receiving Application can be used either as a local identifier (with only the <namespace ID> valued) or a publicly-assigned identifier, a UID (<universal ID> and <universal ID type> both valued).

In the first place, universal id and universal type id must be set. In cases where universal id is missing, namespace id must be used. If all components are valued, then the first component and the second and third (taken together) refer to the same entity.

*Condition Predicate:*

If the first component is present the second and third components are optional. If the second or third component is valued then the other component (second or third) is required. First component is optional.

**5.1 NamespaceID**This field defines a local identifier. The User-defined Table 0300 – Namespace ID is maintained by VGR Integration Competence Center (ICC).

**5.2 UniversalID**This field is a publicaly-assigned identifier, preferable a HSA-ID.

**5.3 UniversalTypeID**This field defines the Universal ID type. Valid values according to HL7 Table 0301 - Universal ID type.

HL7 Table 0301 - Universal ID type

|  |  |  |
| --- | --- | --- |
| Value | Description | Comment |
| L | HSA-ID | Locally-defined UID system by Inera |

**6. Receiving Facility**This field uniquely identifies the receiving facility among all other applications within the network enterprise. The network enterprise consists of all those applications that participate in the exchange of HL7 messages within the enterprise. Entirely site-defined and a parameter for VGR.

Receiving Facility can be used either as a local identifier (with only the <namespace ID> valued) or a publicly-assigned identifier, a UID (<universal ID> and <universal ID type> both valued).

In the first place, universal id and universal type id must be set. In cases where universal id is missing, namespace id must be used. If all components are valued, then the first component and the second and third (taken together) refer to the same entity.

*Condition Predicate:*

If the first component is present the second and third components are optional. If the second or third component is valued then the other component (second or third) is required. First component is optional.

**6.1 NamespaceID**This field defines a local identifier. The User-defined Table 0300 – Namespace ID is maintained by VGR Integration Competence Center (ICC).

**6.2 UniversalID**This field is a publicaly-assigned identifier, preferable a HSA-ID.

**6.3 UniversalTypeID**This field defines the Universal ID type. Valid values according to HL7 Table 0301 - Universal ID type.

HL7 Table 0301 - Universal ID type

|  |  |  |
| --- | --- | --- |
| Value | Description | Comment |
| L | HSA-ID | Locally-defined UID system by Inera |

**7. Date/Time Of Message**This field contains the date/time that the sending system created the message. If the time zone is specified, it is expected to be the local time zone.

**9. Message Type**Should be OML^O21^OML\_O21.

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

**11.1. processing ID**Should be P for Production, T for Test

**12.1. version ID**Should be 2.6

**18. Character Set**Should be UNICODE UTF-8

## Segment Group: PATIENT

### PID – Patient Identification

For details on how to define the PID Segment, refer to the Conformance Statement – PID Segment.docx document.

Usage: Required   
Cardinality: 1..1

## Segment Group: ORDER

### ORC – Common Order

General information about the order.

Usage: Required   
Cardinality: 1..1

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Seq. | Name | Type | Table | Len. | Opt | Card | Contents |
| 1 | Order Control | ID | 0119 | 2 | R | 1..1 | e.g. NW |
| 2 | Placer Order Number | EI |  | 427 | R | 1..1 |  |
| 2.1 | Entity identifier | ST |  | 199 | R | 1..1 |  |
| 2.2 | namespace id | IS | 0363 | 20 | O | 0..1 |  |
| 2.3 | universal id | ST |  | 199 | C | 0..1 |  |
| 2.4 | universal id type | ID | 0301 | 6 | C | 0..1 |  |
| 3 | Filler Order Number | EI |  | 427 | RE | 0..1 |  |
| 3.1 | Entity identifier | ST |  | 199 | R | 1..1 |  |
| 3.2 | namespace id | IS | 0363 | 20 | O | 0..1 |  |
| 3.3 | universal id | ST |  | 199 | C | 0..1 |  |
| 3.4 | universal id type | ID | 0301 | 6 | C | 0..1 |  |
| 9 | Date/Time of Transaction | DTM |  | 24 | R | 1..1 | e.g. 201701021315 |
| 10 | Entered By | XCN |  |  |  |  |  |
| 10.1 | id number | ST |  | 15 | O | 0..1 | HSA-ID (employee) |
| 10.2 | family name | FN |  | 194 |  | 0..1 |  |
| 10.2.1 | surname | ST |  | 50 |  | 0..1 | e.g. Svensson |
| 10.3 | given name | ST |  | 30 |  | 0..1 | e.g. Sven |
| 10.9 | assigning authority | HD |  | 227 | O | 0..1 |  |
| 10.9.1 | namespace id | IS |  | 20 | O | 0..1 | e.g. Inera |
| 10.9.2 | universal id | ST |  | 199 | C | 0..1 | e.g. 1.2.752.29 |
| 10.9.3 | universal id type | ID |  | 6 | C | 0..1 | e.g. ISO |
| 11 | Verified By | XCN |  |  |  |  |  |
| 11.1 | id number | ST |  | 15 | O | 0..1 | HSA-ID (employee) |
| 11.2 | family name | FN |  | 194 |  | 0..1 |  |
| 11.2.1 | surname | ST |  | 50 |  | 0..1 | e.g. Svensson |
| 11.3 | given name | ST |  | 30 |  | 0..1 | e.g. Sven |
| 11.9 | assigning authority | HD |  | 227 | O | 0..1 |  |
| 11.9.1 | namespace id | IS |  | 20 | O | 0..1 | e.g. Inera |
| 11.9.2 | universal id | ST |  | 199 | C | 0..1 | e.g. 1.2.752.29 |
| 11.9.3 | universal id type | ID |  | 6 | C | 0..1 | e.g. ISO |
| 12 | Ordering Provider | XCN |  | 3220 | R | 0..1 |  |
| 12.1 | id number | ST |  | 15 | O | 0..1 | HSA-ID |
| 12.2 | family name | FN |  | 194 |  | 0..1 |  |
| 12.2.1 | surname | ST |  | 50 |  | 0..1 | e.g. Svensson |
| 12.3 | given name | ST |  | 30 |  | 0..1 | e.g. Sven |
| 12.14 | assigning authority | HD |  | 227 | O | 0..1 |  |
| 12.14.1 | namespace id | IS |  | 20 | O | 0..1 | e.g. Inera |
| 12.14.2 | universal id | ST |  | 199 | C | 0..1 | e.g. 1.2.752.29 |
| 12.14.3 | universal id type | ID |  | 6 | C | 0..1 | e.g. ISO |
| 13 | Enterer's Location | PL |  | 1230 | O | 0..1 |  |
| 14 | Call Back Phone Number | XTN |  | 250 | O | 0..2 |  |
| 14.3 | telecommunication equipment type | ID | 0202 | 8 | O | 0..1 |  |
| 14.5 | country code | NM |  | 3 | O | 0..1 |  |
| 14.6 | area/city code | NM |  | 5 | O | 0..1 |  |
| 14.7 | local number | NM |  | 9 | O | 0..1 |  |
| 14.12 | unformatted telephone number | ST |  | 199 | O | 0..1 |  |
| 15 | Order Effective Date/Time | DTM |  | 24 | O | 0..1 |  |
| 16 | Order Control Code Reason | CWE |  | 705 | O | 0..1 |  |
| 17 | Entering Organization | CWE |  | 250 | O | 0..1 |  |
| 21 | Ordering Facility Name | XON |  | 250 | O | 0..1 |  |
| 21.1 | organization name | ST |  | 50 | O | 0..1 |  |
| 21.6 | assigning authority | HD |  | 227 | O | 0..1 |  |
| 21.6.1 | namespace id | IS |  | 20 | O | 0..1 | e.g. Inera |
| 21.6.2 | universal id | ST |  | 199 | C | 0..1 | e.g. 1.2.752.29 |
| 21.6.3 | universal id type | ID |  | 6 | C | 0..1 | e.g. ISO |
| 21.10 | organization identifier | ST |  | 20 | O | 0..1 | HSA-ID |
| 22 | Ordering Facility Address | XAD |  | 250 | O | 0..1 |  |
| 22.1 | street address | SAD |  | 184 | O | 0...1 | e.g. Gatan 1 |
| 22.3 | city | ST |  | 50 | O | 0..1 | e.g. Göteborg |
| 22.5 | zip or postal code | ST |  | 12 | O | 0..1 | e.g. 434 43 |
| 23 | Ordering Facility Phone Number | XTN |  | 250 | O | 0..1 |  |
| 23.3 | telecommuncation equipment type | ID | 0202 | 8 | O | 0..1 |  |
| 23.5 | country code | NM |  | 3 | O | 0..1 |  |
| 23.6 | area/city code | NM |  | 5 | O | 0..1 |  |
| 23.7 | local number | NM |  | 9 | O | 0..1 |  |
| 23.12 | unformatted telephone number | ST |  | 199 | O | 0..1 |  |

**1. Order Control**  
Determines the function of the order segment. Should be “NW” for new orders.

**2. Placer Order Number**This field identifies an individual order. If the field is valued then its value shall match the value of the required field OBR-2.

**3. Filler Order Number**This field identifies an individual order. This field is mandatory if the OML is sent by the filler application. If the OML is sent by a placer application the field is optional.

**9. Date/Time of transaction**This field contains the date and time of the event that initiated the current transaction as reflected in ORC-1 Order Control Code. This field is not equivalent to MSH-7 Date and Time of Message that reflects the date/time of the creation of the physical message.

**10. Entered By**This field contains the identity of the person who actually keyed the request into the application.

**11. Verified By**This field contains the identity of the who verified the accuracy of the entered request.

**12. Ordering Provider**This field contains the person (physician) who prescribed this order. If the field is valued then its value has to match the value of the required field OBR-16.

**14. Call Back Phone Number**If the field is valued then its value has to match the value of the required field OBR-17.

This field contains the phone number to the facility (care unit) placing this order.

A single ordering facitlity phone number is supported. The possible type/usage codes are described by the table below.

|  |  |  |
| --- | --- | --- |
| Ordering Provider Phone Number | Equipment Type (table 0202) | Telecommunication use code (table 0201) |
| Ordering provider phone number | PH | WPN |
| Ordering provider phone number | CP | WPN |

**14.2. telecommunication use code**

The use code as of table 0201 as described above.

**14.3. telecommunication equipment type**

The equipment type code as of table 0202 as described above.

**14.5. country code**

The numeric code assigned by the International Telecommunication Union in standard E.164 to access telephone services in another country.

**14.6. area/city code**

The numeric code to access telephone services in another area/city within a country. This number historically needs not be dialed if the caller is located in the same area/city as the phone number of the called party.

**14.7. local number**

This field will contain the telephone number.

**14.12. unformatted telephone number**

This field will contain the telephone number in case when the phone number was entered as free text and sending system does not know how to parse it.

**21. Ordering Facility Name**This field contains the facility (care unit) placing this order.

**21.1. organisation name**

**21.6. assigning authority**

|  |  |  |  |
| --- | --- | --- | --- |
| ID Type | Namespace ID | Universal ID | UID Type |
| HSA-ID | Inera | 1.2.752.29 | ISO |

**21.10. organisation identifier**

**22. Ordering Facility Address**This field contains the address to the facility (care unit) placing this order.

**23. Ordering Facility Phone Number**This field contains the phone number to the facility (care unit) placing this order.

A single ordering facitlity phone number is supported. The possible type/usage codes are described by the table below.

|  |  |  |
| --- | --- | --- |
| Ordering Facility Phone Number | Equipment Type (table 0202) | Telecommunication use code (table 0201) |
| Facility phone number | PH | ASN |
| Facility phone number | CP | ASN |

**23.2. telecommunication use code**

The use code as of table 0201 as described above.

**23.3. telecommunication equipment type**

The equipment type code as of table 0202 as described above.

**23.5. country code**

The numeric code assigned by the International Telecommunication Union in standard E.164 to access telephone services in another country.

**23.6. area/city code**

The numeric code to access telephone services in another area/city within a country. This number historically needs not be dialed if the caller is located in the same area/city as the phone number of the called party.

**23.7. local number**

This field will contain the telephone number.

**23.12. unformatted telephone number**

This field will contain the telephone number in case when the phone number was entered as free text and sending system does not know how to parse it.

#### OBR – Observation Request

Usage: Required   
Cardinality: 1..1

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Seq. | Name | Type | Table | Len. | Opt | Card | Contents |
| 2 | Placer Order Number | EI |  | 427 | R | 1..1 |  |
| 2.1 | Entity identifier | ST |  | 199 | R | 1..1 | Requisition ID (RID) |
| 2.2 | namespace id | IS | 0363 | 20 | O | 0..1 |  |
| 2.3 | universal id | ST |  | 199 | C | 0..1 |  |
| 2.4 | universal id type | ID | 0301 | 6 | C | 0..1 |  |
| 3 | Filler Order Number | EI |  | 427 | RE | 0..1 | LID |
| 3.1 | Entity identifier | ST |  | 199 | R | 1..1 |  |
| 3.2 | namespace id | IS | 0363 | 20 | O | 0..1 |  |
| 3.3 | universal id | ST |  | 199 | C | 0..1 |  |
| 3.4 | universal id type | ID | 0301 | 6 | C | 0..1 |  |
| 4 | Universal Service Identifier | CWE |  | 705 | R | 1..1 | Requisition Type / Procedure Code |
| 4.1 | identifier | ST |  | 20 | O | 0..1 |  |
| 4.2 | text | ST |  | 199 | O | 0..1 |  |
| 4.3 | name of coding system | ID | 0396 | 20 | O | 0..1 |  |
| 7 | Observation Date/Time | DTM |  | 24 | O | 0..1 | The time when the specimen was collected. |
| 8 | Observation End Date/Time | DTM |  | 24 | O | 0..1 |  |
| 10 | Collector Identifier | XCN |  | 250 | RE | 0..\* |  |
| 10.1 | id number | ST |  | 15 | O | 0..1 |  |
| 10.2 | family name | FN |  | 194 |  | 0..1 |  |
| 10.2.1 | surname | ST |  | 50 |  | 0..1 | e.g. Svensson |
| 10.3 | given name | ST |  | 30 |  | 0..1 | e.g. Sven |
| 10.9 | assigning authority | HD |  | 227 | O | 0..1 |  |
| 10.9.2 | universal id | ST |  | 199 | C | 0..1 | e.g. 1.2.752.29 |
| 10.9.3 | universal id type | ID |  | 6 | C | 0..1 | e.g. ISO |
| 13 | Relevant Clinical Information | ST |  |  | O | 0..1 |  |
| 16 | Ordering Provider | XCN |  | 3220 | R | 1..1 |  |
| 16.1 | id number | ST |  | 15 | O | 0..1 |  |
| 16.2 | family name | FN |  | 194 |  | 0..1 |  |
| 16.2.1 | surname | ST |  | 50 |  | 0..1 | e.g. Svensson |
| 16.3 | given name | ST |  | 30 |  | 0..1 | e.g. Sven |
| 16.9 | assigning authority | HD |  | 227 | O | 0..1 |  |
| 16.9.2 | universal id | ST |  | 199 | C | 0..1 | e.g. 1.2.752.29 |
| 16.9.3 | universal id type | ID |  | 6 | C | 0..1 | e.g. ISO |
| 16.14 | Assigning Facility | HD |  | 227 | O | 0..1 |  |
| 16.14.1 | namespace id | IS | 0300 | 20 | O | 0..1 |  |
| 16.14.2 | universal id | ST |  | 199 | C | 0..1 | e.g. 1.2.752.29 |
| 16.14.3 | universal id type | ID |  | 6 | C | 0..1 | e.g. ISO |
| 17 | Call Back Phone Number | XTN |  | 250 | RE | 0..2 |  |
| 17.3 | telecommunication equipment type | ID | 0202 | 8 | O | 0..1 |  |
| 17.5 | country code | NM |  | 3 | O | 0..1 |  |
| 17.6 | area/city code | NM |  | 5 | O | 0..1 |  |
| 17.7 | local number | NM |  | 9 | O | 0..1 |  |
| 17.12 | unformatted telephone number | ST |  | 199 | O | 0..1 |  |
| 24 | Diagnostic Serv Sect ID | ID | 0074 |  | O | 0..1 | e.g. CP (Cytopathology) |
| 28 | Result Copies To | XCN |  | 3220 | RE | 0..\* | Reciptients and Copy Recipients |
| 28.1 | id number | ST |  | 15 | O | 0..1 | HSA-ID (care unit) |
| 28.2 | family name | FN |  | 194 |  | 0..1 |  |
| 28.2.1 | surname | ST |  | 50 |  | 0..1 | e.g. Svensson |
| 28.3 | given name | ST |  | 30 |  | 0..1 | e.g. Sven |
| 28.9 | Assigning Authority | HD |  | 227 | O | 0..1 |  |
| 28.9.1 | namespace id | IS | 0300 | 20 | O | 0..1 | e.g. Inera |
| 28.9.2 | universal id | ST |  | 199 | C | 0..1 | e.g. 1.2.752.29 |
| 28.9.3 | universal id type | ID |  | 6 | C | 0..1 | e.g. ISO |
| 28.13 | Identifier Type Code | ID | 0203 | 5 | O | 0..1 | e.g. FI (Faciltiy) |
| 37 | Number of Sample Containers | NM |  | 16 | O | 0..1 |  |

**2. Placer Order Number**All batteries/procedure contained in the order should be assigned a unique Placer Order Number. The same identifier will never be used twice by the Order Placer. The Placer Order Number is generated by the Order Placer actor and should be unique across all OBR segments across all messages.

**3. Filler Order Number**Each Order should be assigned a unique Filler Order Number by the Order Filler. The same identifier will never be used twice by the Order Filler. The filler order number generated by the Order Filler should be unique across all OBR segments across all messages.

**4. Universal Service Identifier**This field contains one ordered battery or test. A battery is composed of one or more tests or batteries. Generally the universal service identifier identifies a specimen examination procedure.

**7. Observation Date/Time**This field is the clinically relevant date/time of the observation. In the case of observations taken directly from a subject, it is the actual date and time the observation was obtained. In the case of a specimen-associated study, this field shall represent the date and time the specimen was collected or obtained.

**10. Collector Identifier**

This field identifies the person, department or facility that collected the specimen(s).

**13. Relevant Clinical Information**

This field contains the additional clinical information about the patient or specimen. This field is used to report the suspected diagnosis and clinical findings on requests for interpreted diagnostic studies. For some orders this information may be sent on a more structured form as a series of OBX segments (see Chapter 7) that immediately follow the order segment.

Use OBX segment to carry relevant clinical information, or a NTE segment below the OBR for more comment orientated information.

**16. Ordering Provider**This field identifies the provider who ordered the test. Either the ID code or the name, or both, may be present. This is the same as ORC-12-ordering provider.

**17. Call Back Phone Number**

This field contains the telephone number for reporting a status or a result using the standard format with extension and/or beeper number when applicable.

**28. Result Copies To**This field identifies the people who are to receive copies of the results. Either the ID code or the name, or both, may be present.

The first occurance of the element/segment represents the main recipient.

**37. Number of Sample Containers**

This field identifies the number of containers for a given sample. For sample receipt verification purposes.

### NTE – Notes and Comments (Comments on the order)

This segment is used for comment oriented information about the order.

Usage: Optional   
Cardinality: 0..\*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Seq. | Name | Type | Table | Len. | Opt | Card | Contents |
| 1 | Set ID | SI |  | 4 | O | 0..1 |  |
| 2 | Source of Comment | ID | 0105 | 8 | O | 0..1 |  |
| 3 | Comment | FT |  | 65536 | O | 0..\* |  |
| 4 | Comment Type | CWE |  | 250 | O | 0..1 |  |

**1. Set ID**This field may be used where multiple NTE segments are included in a message. Their numbering must be described in the application message definition.

**2. Source of Comment**  
This field is used when source of comment must be identified.

|  |  |
| --- | --- |
| Value | Source of Comment |
| L | Ancillary (filler) department is source of comment |
| P | Orderer (placer) is source of comment |
| O | Other system is source of comment |

**3. Comment**This field contains the comment contained in the segment.

**4. Comment Type**  
This field contains a value to identify the type of comment text being sent in the specific comment record.

|  |  |
| --- | --- |
| Value | Comment Type |
| MA | Result Text Macro |
| MI | Result Text Micro |
| CT | Conclusion |
| AT | Anamnesis Text |
| RC | Requisition Comment |

### Segment Group: TIMING

#### TQ1 – Timing/Quantity

Specifies timing and priority on an order

Usage: Required   
Cardinality: 1..1

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Seq. | Name | Type | Table | Len. | Opt | Card | Contents |
| 7 | Start date/time | DTM |  | 26 | O | 0..1 |  |
| 8 | End date/time | DTM |  | 26 | O | 0..1 |  |
| 9 | Priority | CWE |  | 250 | O | 0..1 |  |
| 9.1 | identifier | ST |  | 20 | O | 0..1 |  |
| 9.3 | name of coding system | ID | 0485 | 20 | O | 0..1 | e.g. 1.2.752.129.2.2.3.9 |

**7. Start date/time**

This field specifies a desired start date/time for the procedure.

**9.1. Identifier**  
The authorized values for this field are listed in

|  |  |
| --- | --- |
| Value | Priority |
| A | Emergency, with highest priority |
| S | ASAP within 24 hours. |
| T | Timing critical |
| R | Routine |

HL7 table 0485 - Priority codes.

Only 3 priority codes are allowed by IHE Pathology:

* S = Stat (With highest priority for extemporaneous orders)
* A = ASAP (As soon as possible. Fulfills after S orders.)
* R = Routine (Default)

### Segment Group: OBSERVATION\_REQUEST

#### NTE – Notes and Comments (for Detail)

This segment is used for comment oriented information about the order.

Usage: Optional   
Cardinality: 0..\*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Seq. | Name | Type | Table | Len. | Opt | Card | Contents |
| 1 | Set ID | SI |  | 4 | O | 0..1 |  |
| 2 | Source of Comment | ID | 0105 | 8 | O | 0..1 |  |
| 3 | Comment | FT |  | 65536 | O | 0..\* |  |
| 4 | Comment Type | CWE |  | 250 | O | 0..1 |  |

**1. Set ID**This field may be used where multiple NTE segments are included in a message. Their numbering must be described in the application message definition.

**2. Source of Comment**  
This field is used when source of comment must be identified.

|  |  |
| --- | --- |
| Value | Source of Comment |
| L | Ancillary (filler) department is source of comment |
| P | Orderer (placer) is source of comment |
| O | Other system is source of comment |

**3. Comment**This field contains the comment contained in the segment.

**4. Comment Type**  
This field contains a value to identify the type of comment text being sent in the specific comment record.

|  |  |
| --- | --- |
| Value | Comment Type |
| MA | Result Text Macro |
| MI | Result Text Micro |
| CT | Conclusion |
| AT | Anamnesis Text |
| RC | Requisition Comment |

##### OBX – Observation/Result (Observation related to OBR)

Usage: Required   
Cardinality: 1..1

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Seq. | Name | Type | Table | Len. | Opt | Card | Contents |
| 1 | Set ID | SI |  | 4 | O | 0..1 |  |
| 2 | Value Type | ID |  | 2  ~~3~~ | C | 0..1 |  |
| 3 | Observation Identifier | CE  ~~CWE~~ |  | 250  ~~705~~ | R  ~~O~~ | 1..1  ~~0..1~~ |  |
| 3.1 | identifier | ST |  | 20 | O | 0..1 |  |
| 3.2 | text | ST |  | 199 | O | 0..1 |  |
| 3.3 | name of coding system | ID |  | 20 | O | 0..1 |  |
| 5 | Observation Value | Varies1 |  | 99999 | C | 0..\* |  |
| 6 | Units | CWE |  | 705 | O | 0..1 |  |
| 6.1 | identifier | ST |  | 20 | O | 0..1 |  |
| 6.3 | name of coding system | ID |  | 20 | O | 0..1 |  |
| 11 | Observation Result Status | ID |  | 1 | R | 1..1 | “O” |

**2. Value Type**

This fields specifies the type of value that is provided in *OBX-5 Observation Value*. It must be set if OBX-5 is set.

|  |  |  |
| --- | --- | --- |
| Value | Description | Example usage |
| CWE | Coded Entry | Coded Anamnesis |
| ED | Encapsulated Data | Attachments |

**3. Observation Identifier**

This field contains a unique identifier for the observation if one exists.

**5. Observation Value**

This field contains the value observed by the observation producer. *OBX-2* *Value type* contains the data type for this field according to which observation value is formatted.

The length of the observation field is variable, depending upon value type. See OBX-2 value type.

###### NTE – Notes and Comments (for Result)

Information about the observation.

Usage: Optional   
Cardinality: 0..\*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Seq. | Name | Type | Table | Len. | Opt | Card | Contents |
| 1 | Set ID | SI |  | 4 | O | 0..1 |  |
| 2 | Source of Comment | ID |  | 8 | O | 0..1 |  |
| 3 | Comment | FT |  | 65536 | O | 0..\* |  |
| 4 | Comment Type | CWE |  | 250 | O | 0..1 |  |

#### Segment Group: Specimen

Usage: Optional  
Cardinality: 0..\*

##### SPM – Specimen

Usage: Required   
Cardinality: 1..1

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Seq. | Name | Type | Table | Len. | Opt | Card | Contents |
| 1 | Set ID | SI |  | 4 | O | 0..1 |  |
| 2 | Specimen ID | EIP |  | 80  ~~855~~ | O | 0..1 |  |
| 4 | Specimen Type | CWE | 0487 | 250  ~~705~~ | R | 1..1 |  |
| 4.1 | identifier | ST |  | 20 | O | 0..1 |  |
| 4.2 | text | ST |  | 199 | O | 0..1 |  |
| 4.3 | name of coding system | ID |  | 20 | O | 0..1 |  |
| 5 | Specimen Additives | CWE | 0371 | 250 | O | 0..\* |  |
| 8 | Specimen Source Site | CWE |  | 250  ~~705~~ | O | 0..1 |  |
| 8.1 | identifier | ST |  | 20 | O | 0..1 |  |
| 8.2 | text | ST |  | 199 | O | 0..1 |  |
| 8.3 | name of coding system | ID |  | 20 | O | 0..1 |  |
| 9 | Specimen Source Site Modifier | CWE | 0541 | 250  ~~705~~ | O | 0..\* |  |
| 9.1 | identifier | ST |  | 20 | O | 0..1 |  |
| 9.2 | text | ST |  | 199 | O | 0..1 |  |
| 9.3 | name of coding system | ID |  | 20 | O | 0..1 |  |
| 17 | Specimen Collection Date/Time | DR |  | 49 | O | 0..1 |  |
| 26 | Number of Specimen Containers | NM |  | 4 | O | 0..1 |  |
| 27 | Container Type | CWE |  | 705 | O | 0..1 | e.g Slide/Container |

**1. Set ID**

This field contains the sequence number. This field is used to identify SPM segment instances in message structures where the SPM segment repeats.

**2. Specimen ID**This field contains a unique identifier for the specimen as referenced by the Placer application, the Filler application, or both.

**4. Specimen Type**This field describes the precise nature of the physical object (or collection of objects) is that is the subject of one or more steps in the laboratory (diagnostic) workflow.

**5. Specimen Additives**  
This field identifies any additives introduced to the specimen before or at the time of collection. These additives may be introduced in order to preserve, maintain or enhance the particular nature or component of the specimen.

**8. Specimen Source Site**

This field specifies the source from which the specimen was obtained.

**9. Specimen Source Site Modifier**

This field contains modifying or qualifying description(s) about the specimen type.

**17. Specimen Collection Date/Time**The date and time when the specimen was acquired from the source. The use of the Date Range data type allows for description of specimens collected over a period of time, for example, 24-hour urine collection. For specimens collected at a point in time, only the first component (start date/time) will be populated

**26. Number of Specimen Containers**This field identifies the number of containers for a given sample. For sample receipt verification purposes; may be different from the total number of samples that accompany the order.

**27. Container Type**The container in or on which a specimen is transported.

### BLG – Billing

The BLG segment contains the payee information (e.g., the person or the organization with financial responsibility for payment of a patient account) data for patient and insurance billing applications.

Usage: Required  
Cardinality: 1..1

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Seq. | Name | Type | Table | Len. | Opt | Card | Contents |
| 3 | Account ID | CX |  | 100 | R | 1..1 |  |
| 3.1 | id number | ST |  | 15 | R | 1..1 | HSA-ID |
| 3.5 | identifier type code | ID | 0203 | 5 | O | 1..1 | e.g. FI |
| 4 | Assigning Authority | HD |  | 227 | O | 0..1 |  |
| 4.1 | namespace id | IS |  | 20 | O | 0..1 | e.g. Inera |
| 4.2 | universal id | ST |  | 199 | C | 0..1 | e.g. 1.2.752.29 |
| 4.3 | universal id type | ID |  | 6 | C | 0..1 | e.g. ISO |

**3. Account ID**This field identifies the account to be billed.

**3.1. identifier**This field will contain the account id.

**3.5 identifier type code**A code corresponding to the type of identifier. Refer to HL7 Table 0203 – Identifier type for suggested codes.

Custom Table 0203 - Identifier type

|  |  |  |
| --- | --- | --- |
| Value | Description | Comment |
| FI | Facility ID |  |

**4 Assigning Authority**

### ZBB – Biobank

Certain samples are routinely saved in order to be useful for your future care, diagnostics, treatment or medical research. This segment contains the patient's consent to store samples or if the patient does not consent sample retained for specific purposes.

Usage: Required  
Cardinality: 1..1

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Seq. | Name | Type | Table | Len. | Opt | Card | Contents |
| 1 | Biobank Code | CWE |  |  | R | 1..1 |  |
| 1.1 | identifier | ST |  | 20 | O | 0..1 |  |
| 1.3 | name of coding system | ID |  | 20 | O | 0..1 |  |

**1.1. Identifier**This field identifies the biobank option. The possible type/usage codes are described by the table below.

|  |  |  |
| --- | --- | --- |
| Value | Description | Comment |
| 1 | Ja | Provet får användas för vård och behandling och därmed förenlig verksamhet. |
| 2 | Nej till lagring, svarstalong saknas. | Patienten samtycker inte till att provet lagras, men Nej-talong saknas eller har ännu ej registrerats. Provet sparas tills vidare i avvaktan på att Nej-talong inkommer/registreras. |
| 3 | Svarstalong: Nej till forskning/klinisk prövning. | Patienten vill inte att provet används för forskning eller klinisk prövning. |
| 4 | Svarstalong: Nej för angivet ändamål. | Patienten vill inte att provet lagras för: |
| 4a | Forskning | forskning |
| 4b | Klinisk prövning | klinisk prövning |
| 4c | Utveckling | utveckling |
| 4d | Kvalitetssäkring | kvalitetssäkring |
| 4e | Utbildning | utbildning |
| 4f | Egen vård, diagnostik och behandling | egen vård, diagnostik och behandling |
| 5 | Svarstalong: Provet ska ej sparas utan kasseras. | Patienten vill inte att provet sparas. Provet kommer att kasseras efter analys. |
| 6 | Patient/provgivare är beslutsoförmögen. | Patient/provgivare är vid provtagningstillfället oförmögen att ta ställning till lagring av prov. Provet sparas tills vidare. |
| 7 | Samtycke saknas. | Uppgift om samtycke till lagring av provet saknas. Provet sparas tills vidare i avvaktan på uppgift om samtycke. |
| 8 | Provet kasserat. | Provet kasseras den XXXX XX XX (datum). |
| 9 | Uttagsbegränsning. |  |
| 99 | Inget värde registrerat. |  |

### ZKV – Classification of Care Measures

A measure code is a code used for the statistical description of measures including health care. Codes of Classification of care measures (KVA) are required to report to the Socialstyrelsen.

Usage: Required  
Cardinality: 0..1

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Seq. | Name | Type | Table | Len. | Opt | Card | Contents |
| 1 | KVA Code | CWE |  |  | O | 0..1 |  |
| 1.1 | identifier | ST |  | 20 | O | 0..1 |  |
| 1.3 | name of coding system | ID |  | 20 | O | 0..1 | e.g. 1.2.752.116.1.3.2.1.4 |