

# **MEDITECH HL7 Results Reporting to Other Vendor System for Laboratory, Microbiology, Pathology, and Blood Bank**

**Version: 2.4**

**May 19, 2021**

**Reference number: R1820**

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## General Comments

This specification defines an interface between the MEDITECH system and an other vendor system for the purposes of sending laboratory, microbiology, pathology, and blood bank results from the MEDITECH Laboratory application.

The version of this specification is COMP, meaning the message formats represent the complete set of HL7 version from 2.1 through 2.5.1. The appendix section identifies any discrepancies in field definitions pertaining to these various HL7 versions.

The message reporting formats contained in this document include both discrete and text.

Both the HL7 version and the reporting format are determined by interface setup parameters to meet the reporting requirements of other vendor systems.

This document also covers the sequencing of records as they are sent and received by MEDITECH and the protocol that is to be used for communications between MEDITECH and the other vendor.

A copy of this specification should be provided to the other vendor well in advance of MEDITECH software delivery so that any questions or concerns of the other vendor can be resolved as soon as possible.

Proper cabling between the MEDITECH machine and the other vendor machine will need to be provided by the hospital. MEDITECH can assist in the specification of the correct cable configuration to be used for the inter-machine link.

It is possible that additional devices such as modems or protocol converter units (PCUs) may need to be purchased by the hospital depending on the hardware platform of the other vendor system or on the proximity of the MEDITECH machine to the other vendor machine. MEDITECH may be of some assistance in determining specific needs in this area.

The machine to machine communications will need to be thoroughly tested by MEDITECH and the other vendor prior to any application level testing.

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## General Message Format and Functionality

### GENERAL MESSAGE FORMAT

Result data will be passed from MEDITECH Laboratory system to the Other vendor system in discrete or textual MESSAGES. Pathology results will only be sent in textual format. A single message may contain multiple variable length data transactions referred to as SEGMENTS. The number, type and content of segments in a given message will be determined based upon the type of message being sent. Each segment will begin with a 3 character code known as the Segment ID, followed by a number of fields which are delimited by the Field Separator character. Each segment will be terminated with a carriage return.

### RESULT MESSAGES FROM MEDITECH

Messages will be passed from the MEDITECH laboratory system to the other vendor system when:

1. A result is entered and verified on the MEDITECH Laboratory system.
2. A result is changed or deleted, and the new result subsequently verified, on the meditech laboratory system for a result that had been previously transmitted to the other vendor system.

In each case, a Result Message (ORU) will be sent. Each result message will be restricted to one patient.

A Result Message will be composed of these segments:

MSH	Message Header	
PID	Patient Identification	(Only one patient per message)
NK1	Next of Kin	(Optional and multiple)
PV1	Patient Visit	(Only one patient per message)
PV2	Patient Visit Addl Info	(Only one patient per message)
PD1	Patient Addl Demographics	(Only one patient per message)
OBR	Observation Request	(can be multiple)
TQ1	Timing Quantity	(2.5+ HL7 versions only)
NTE	Notes and Comments	(Optional and multiple)
SPM	Specimen	(2.5+ HL7 versions only)
SAC	Container Detail	(2.5+ HL7 versions only)
OBX	Observation Result	(Multiple)
NTE	Notes and Comments	(Optional and multiple)

MEDITECH expects an Acknowledgement Message (ACK) from the Other Vendor System upon receipt of the Result message. Meditech will not accept any Deferred Acknowledgement Messages from the Other Vendor System, as may be defined in the HL7 v2.3 specifications.

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## Result Message Structure

Results will be sent from the MEDITECH system using the HL7 message type ORU (Observation Result Unsolicited). Laboratory, Microbiology and Blood Bank results are sent in discrete values or textual format. Pathology results are sent in textual format only.

The OBR segment identifies the MEDITECH order for which results are being reported. ALL results associated with the given order must be reported with OBX segments following the OBR segment in the single result message.

### Result messages will be formatted with these segments:

MSH - Required

PID - Required, one per message

NK1 - Optional, multiple per message

PV1 - Required, one per message

PV2 - Required, one per message

PD1 - Required, one per message

OBR - Required, may be multiple

TQ1 - Required for 2.5+, one per OBR

NTE - Optional, may be multiple per OBR

SPM - Required for 2.5+, one per OBR

SAC - Required for 2.5+, one per OBR

OBX - Required, may be multiple per OBR

NTE - Optional, may be multiple per OBX

## LABORATORY RESULTS (DISCRETE)

Results for only one order (order number) may be reported per message.

PID The Patient Identification segment will contain the Patient Identifiers.

NK1 The Next of Kin segment will contain Next of Kin, Notify Person, and Employer types.

PV1 The Patient Visit segment will contain the Patient Visit Information.

PV2 The Patient Visit Additional Information segment will contain additional visit information.

PD1 The Patient Additional Demographic segment will contain demographic information that is likely to change about the patient.

OBR The Observation Result segment will contain the order identifier.

TQ1 The Timing Quantity segment will contain the order priority.

NTE Order comments can be transmitted in NTE segments immediately following the OBR segment. These relate to the entire order/specimen and are comprised of specimen comments and order queries.

SPM The Specimen segment will contain the characteristics of the specimen.

SAC The Container Detail segment will contain information about the specimen's container.

OBX All individual test and component results for a given order will be transmitted in OBX segments following that order's OBR segment.

NTE Text results and result comments will be transmitted in NTE segments following the OBX segment for an individual result.

## MICROBIOLOGY RESULTS (DISCRETE)

The structure of microbiology results is much more complex than laboratory.

Only one Micro order may be reported per ORU message.

When a Micro result is reported, multiple OBR segments will be transmitted for a single order, as follows:

Each OBR segment will contain the order identifier. The first OBR segment will identify the ordered procedure (order) that results will reference. Any NTE segments following this OBR segment will contain order comments. Result comments for the procedure should be reported in OBX segments following this OBR segment. The OBR segment may be followed by any number of OBX segments which will contain text results for the resulted procedure(s), and will identify any organisms which have been isolated. Any organisms that are isolated should be assigned a numeric designation which is reported in the OBSERVATION SUB-ID field of the OBX segment. Note that OBX segments used to report isolated organisms should have CE (coded entry) in the VALUE TYPE field of the segment, as opposed to ST (string) for text results.

Subsequent OBR segments and OBX segments will be used to report any susceptibilities that have been run for the order. The OBR segment is used to identify the susceptibility procedure that was used and the organism it was run for. The Susceptibility procedure is identified in the UNIVERSAL SERVICE IDENTIFIER field. The Organism is identified in the LINKED RESULTS field, using the number set up in the OBSERVATION SUB-ID field of an OBX segment earlier in the message.

OBX segments following these OBR segments will be used to report the individual antibiotics and the susceptibilities that were recorded for the antibiotic.

## MICROBIOLOGY RESULT TYPES

In each OBX segment, the type of result being reported will be indicated in the OBSERVATION IDENTIFIER field. The particular instance of this type of result will be indicated in the OBSERVATION SUB-ID field. The actual result value will be contained in the OBSERVATION RESULT field. Valid result types, with corresponding sub identifiers and results, are as follows:

OBS. ID VALUES	TYPE OF RESULT	OBS. SUB ID VALUES	OBSERVATION RESULT
CE	Organism Identification	1...N	Organism Name/ Mnemonic
ST	Procedure/Susceptibility Results	1...N	Results

## SAMPLE MICROBIOLOGY RESULT GROUPING

The following example microbiology result shows the relative grouping of message segments and pertinent field information. For exact field layout and definitions, refer to the Record Layout and Appendix sections of this specification.

MSH Message Header  
PID Patient Identifier  
NK1 Next of Kin  
PV1 Patient Visit Information  
PV2 Patient Visit Additional Information  
PD1 Patient Additional Demographics  
OBR Order Identifier (order number)  
TQ1 Order Timing Quantity  
NTE Order Comment Line 1

NTE Order Comment Line 2  
 SPM Specimen characteristics  
 SAC Container details  
 OBX ST Line 1 Text of Line 1  
 OBX ST Line 2 Text of Line 2  
 OBX CE Organism 1 ECOLI  
 OBX CE Organism 2 STREP SPECIES

OBR Order Identifier Susceptibility Procedure 1 ORG 1  
 TQ1 Timing Quantity  
 SPM Specimen characteristics  
 SAC Container details  
 OBX ST Antibiotic 1 Result  
 NTE Antibiotic Comment Line 1  
 NTE Antibiotic Comment Line 2  
 OBX ST Antibiotic 2 Result

OBR Order Identifier Susceptibility Procedure 1 ORG 2  
 TQ1 Timing Quantity  
 SPM Specimen characteristics  
 SAC Container details  
 OBX ST Antibiotic 1 Result  
 OBX ST Antibiotic 2 Result

#### **PATHOLOGY AND BLOOD BANK RESULTS (TEXTUAL)**

Pathology results will be sent in text format from the MEDITECH system using the HL7 message type ORU (Observation Result Unsolicited). Blood Bank results can be sent in discrete or textual format.

The OBR segment identifies the MEDITECH order for which results are being reported. ALL results associated with the given order must be reported with OBX segments following the OBR segment in the single result message.

**Pathology and Blood Bank result messages in text format will be formatted with these segments:**

MSH - Required  
 PID - Required, one per message  
 NK1 - Optional, multiple per message  
 PV1 - Required, one per message  
 PV2 - Required, one per message  
 PD1 - Required, one per message  
 OBR - Required, one per message  
 TQ1 - Timing Quantity  
 SPM - Specimen characteristics  
 SAC - Container details  
 OBX - Required, may be multiple per message

## Sample Messages

### Sample Discrete Result Messages

Note <CR> is used to indicate segment termination, as segments may span multiple lines in this document.

### Discrete Laboratory Result

The OBR segment identifies the order for which results are being reported. ALL results associated with the given order must be reported with OBX segments following the OBR segment in the single result message. Further, if a FILLERS ORDER # is being sent, all results associated with the FILLERS ORDER # must be contained in the HL7 message.

```
MSH|^~\&|LAB|SITE|||200612051358|ORU^R01|7453.1|D|2.4<CR>
PID|1|^AB|MG00001234^MR^999-99-9999^SS^232^PI
||LastName^FirstName^Middle^^|19340711|F|||||MT0001234/10|
PV1|1|O|CLR 3F LAB^^|||Attending
DocId^AttendingDocLast^AttendingDocFirst^^^^|||REF||AHC|||||
|||||MEDH^MediTech General Hospital||REG||200607111417||||<CR>
OBR|1|18562^LAB|18562^LAB|UA^URINALYSIS^L||200612051300||||200612051343||Or
deringDocId^OrderingDocLast^OrderingDocFirst^^^^|||0512:U00004U|
200612051358||LAB|COMP||^U||<CR>
OBX|1|ST|COLUR^COLOR,URINE^L|1|YELLOW|YELLOW|||F||200612051300|ML^MAIN LAB^L
<CR>
OBX|2|ST|CLAUR^CLARITY,URINE^L|1|CLEAR|CLEAR/HAZY|||F||200612051300|ML^MAIN
LAB^L<CR>
OBX|3|ST|GLUUR^GLUCOSE,URINE^L|1|NEGATIVE|mmoL/L|NEGATIVE|||F||200612051300|M
L^MAIN LAB^L<CR>
OBX|4|ST|BILUR^BILIRUBIN,URINE^L|1|NEGATIVE|NEGATIVE|||F||200612051300|ML^MA
IN LAB^L<CR>
OBX|5|ST|KETUR^KETONES,URINE^L|1|NEGATIVE|mmoL/L|NEGATIVE|||F||200612051300|M
L^MAIN LAB^L<CR>
OBX|6|ST|SGUR^SPECIFIC GRAVITY,URINE^L|1|>=1.030|||F||200612051300|ML^MAIN
LAB^L<CR>
OBX|7|ST|BLDUR^BLOOD,URINE^L|1|NEGATIVE|NEGATIVE|||F||200612051300|ML^MAIN
LAB^L<CR>
OBX|8|NM|PHUR^PH,URINE^L|1|5.5||5.0 - 7.5|||F||200612051300|ML^MAIN LAB^L<CR>
OBX|9|ST|PROUR^PROTEIN,URINE^L|1|NEGATIVE|g/L|NEG/TRACE|||F||200612051300|ML^
MAIN LAB^L<CR>
OBX|10|NM|UROUR^UROBILINOGEN,URINE^L|1|3.2|umoL/L|<18|||F||200612051300|ML^MA
IN LAB^L<CR>
OBX|11|ST|NITUR^NITRITE,URINE^L|1|NEGATIVE|NEGATIVE|||F||200612051300|ML^MAI
N LAB^L<CR>
OBX|12|ST|LEUR^LEUKOCYTES,URINE^L|1|NEGATIVE|NEGATIVE|||F||200612051300|ML^M
AIN LAB^L<CR>
```

### Discrete Microbiology Result

In the example below, a CUSPU^CULTURE/GRAM,SPUTUM procedure composed of a gram stain and a culture, has been ordered. In the first OBR record, the CUSPU^CULTURE/GRAM,SPUTUM is identified as the ordered procedure. In the OBX segments that follow it, the results for the Gram Stain and the Culture are reported. In OBX segment 4 (as indicated by the segment counter in OBX Field 2) an organism (Escherichia Coli) is identified and linked with the number 2.1 for identification purposes. This ID is not strictly part of the result - it is used later in the message to identify which organism the susceptibilities are for.

In the second OBR segment, the susceptibility procedure (ZLGN05^VITEK) is identified, and associated with the organism ESCHERICHIA COLI (organism #2.1). Following this OBR segment are OBX segments with antibiotics and associated

susceptibilities for this susceptibility procedure.

MSH ^&|MIC|LMHA|||200612201433|ORU^R01|10722.1|D|2.4<CR>  
PID|1|563750014^^^AB|MG00001234^^^MR^999-99-9999^^^SS^232^^^PI  
||LastName^FirstName^|^|19520505|M|||23 Street Address  
^^MEDICINE HAT^AB^T1A 4N2|(999)999-9999|||MT0001234/10|1234567890<CR>  
PV1|1|O|LABORATORY^^|||AttendingDocId  
^AttendingDocLast^AttendingDocFirst^G.^|^|REF|AHC|||  
|||LMHA^Medicine Hat Regional Hospital|REG|||200611090956|||<CR>  
OBR|1|43646^MIC|43646^MIC|CUSPU^CULTURE/GRAM,SPUTUM^L|||200612201330|||2006  
12201409|SPU^SPUTUM^L|OrderingDocId  
^OrderingDocLast^OrderingDocFirst^OrderingDocMiddle  
^^^|||06:M0002811R||2006122014  
33|LAB|COMP||^R||<CR>  
NTE|1||Recent/Current Antibiotic Hx:^NO<CR>  
NTE|2||Pertinent Clinical Info?^None provided<CR>  
OBX|1|ST|GSSPU^GRAM STAIN,SPUTUM^L^P:GSSPU|1|GRAM SPUTUM|||F|||200612201330|  
LMH^MEDICINE HAT REGIONAL HOSP LAB^L<CR>  
OBX|2|ST|GSSPU^GRAM STAIN,SPUTUM^L^R:2 NB|1|Few Gram negative bacilli|||F|||  
200612201330|LMH^MEDICINE HAT REGIONAL HOSP LAB^L<CR>  
OBX|3|ST|GSSPU^GRAM STAIN,SPUTUM^L^R:3 PC|1|Moderate Gram positive cocci|||F|||  
200612201330|LMH^MEDICINE HAT REGIONAL HOSP LAB^L<CR>  
OBX|4|CE|CSPUW^CULTURE,SPUTUM^L^O:ESCCOL|2.1|ESCCOL^ESCHERICHIA COLI|||F|||2  
00612201330|LMH^MEDICINE HAT REGIONAL HOSP LAB^L<CR>  
OBX|5|ST|CSPUW^CULTURE,SPUTUM^L^P:AMT|2.1|AMOUNT OF GROWTH|||F|||20061220133  
0|LMH^MEDICINE HAT REGIONAL HOSP LAB^L<CR>  
OBX|6|ST|CSPUW^CULTURE,SPUTUM^L^R:M|2.1|Moderate growth|||F|||200612201330|L  
MH^MEDICINE HAT REGIONAL HOSP LAB^L<CR>  
OBR|2||43646^MIC|ZLGN05^VITEK - GN05^L|||200612201330|||200612201409|SPU^SP  
UTUM^L|OrderingDocId  
^OrderingDocLast^OrderingDocFirst  
^OrderingDocMiddle^^^|||06:M0002811R||200612201433|LAB|COMP|CS  
PUW^2.1|^R||43646^MIC<CR>  
NTE|1||Organism fulfills criteria of an Antibiotic Resistant<CR>  
NTE|2||Organism (ARO).<CR>  
OBX|1|ST|AM^AMPICILLIN^L|||S||F|||200612201432|LMH^MEDICINE HAT REGIONAL HOS  
P LAB^L<CR>  
OBX|2|ST|TIC^TICARCILLIN^L|||R||F|||200612201432|LMH^MEDICINE HAT REGIONAL H  
OSP LAB^L<CR>  
OBX|3|ST|AMXCA^AMOXICILLIN-CLAVULANATE^L|||S||F|||200612201432|LMH^MEDICINE  
HAT REGIONAL HOSP LAB^L<CR>  
OBX|4|ST|TICCA^TICARCILLIN-CLAVULANATE^L|||S||F|||200612201432|LMH^MEDICINE  
HAT REGIONAL HOSP LAB^L<CR>  
OBX|5|ST|CRMA^CEFUROXIME AXETIL^L|||S||F|||200612201432|LMH^MEDICINE HAT REG  
IONAL HOSP LAB^L<CR>  
OBX|6|ST|CFZ^CEFAZOLIN^L|||S||F|||200612201432|LMH^MEDICINE HAT REGIONAL HOS  
P LAB^L<CR>  
OBX|7|ST|CF^CEPHALOTHIN^L|||R||F|||200612201432|LMH^MEDICINE HAT REGIONAL HO  
SP LAB^L<CR>  
OBX|8|ST|CRM^CEFUROXIME SODIUM (PARENTERAL)^L|||R||F|||200612201432|LMH^MEDI  
CINE HAT REGIONAL HOSP LAB^L<CR>  
OBX|9|ST|CAZ^CEFTAZIDIME^L|||R||F|||200612201432|LMH^MEDICINE HAT REGIONAL H  
OSP LAB^L<CR>  
OBX|10|ST|CAX^CEFTRIAZONE^L|||S||F|||200612201432|LMH^MEDICINE HAT REGIONAL  
HOSP LAB^L<CR>  
OBX|11|ST|FOX^CEFOXITIN^L|||S||F|||200612201432|LMH^MEDICINE HAT REGIONAL HO  
SP LAB^L<CR>  
OBX|12|ST|GM^GENTAMICIN^L|||S||F|||200612201432|LMH^MEDICINE HAT REGIONAL HO  
SP LAB^L<CR>  
OBX|13|ST|TOB^TOBRAMYCIN^L|||R||F|||200612201432|LMH^MEDICINE HAT REGIONAL H  
OSP LAB^L<CR>  
OBX|14|ST|CIP^CIPROFLOXACIN^L|||R||F|||200612201432|LMH^MEDICINE HAT REGIONA  
L HOSP LAB^L<CR>  
OBX|15|ST|LEV^LEVOFLOXACIN^L|||R||F|||200612201432|LMH^MEDICINE HAT REGIONAL  
HOSP LAB^L<CR>



OBX|16|ST|NOR^NORFLOXACIN^L||||R|||F|||200612201432|LMH^MEDICINE HAT REGIONAL  
HOSP LAB^L<CR>  
OBX|17|ST|TMPST^TRIMETHOPRIM SULFAMETHOXAZOLE^L||||S|||F|||200612201432|LMH^M  
EDICINE HAT REGIONAL HOSP LAB^L<CR>  
OBX|18|ST|FD^NITROFURANTOIN^L||||S|||F|||200612201432|LMH^MEDICINE HAT REGIONA  
L HOSP LAB^L<CR>  
OBX|19|ST|TET^TETRACYCLINE^L||||S|||F|||200612201432|LMH^MEDICINE HAT REGIONAL  
HOSP LAB^L<CR>

### Sample Text Result Messages

Laboratory, microbiology, blood bank and pathology results can also be transmitted to the other vendor in text format HL7 messages. The OBR segment identifies the MEDITECH order for which results are being reported. ALL results associated with the given order must be reported with OBX segments following the OBR segment in the single result message. Further, if a FILLERS ORDER # is being sent, all results associated with the FILLERS ORDER # must be contained in the HL7 message.

### Laboratory Text Result

MSH|^~\&|LAB|||199703101650||ORU^R01|5002|P|2.4<CR>  
PID|1||MG00001234^^^MR^999-99-9999^^^SS^232^^^PI  
|LastName^FirstName|19600903|M|||||MT00001234|<CR>  
PV1|1||3 West|||AttendingDocId  
^AttendingDocLast^AttendingDocFirst^AttendingDocMiddle  
^Dr.^SR^MD|ReferringDocId^ReferringDocLast^ReferringDocFirst^ReferringDocMiddle  
^SR^DR^MD  
||MED|||||AdmittingDocId^AdmittingDocLast  
^AdmittingDocFirst^AdmittingDocMiddle^SR^DR^MD|IN||U|||||||  
Item#00169|AC||199701130945<CR>  
OBR|1|123.001|444|NA^SODIUM^L||19970310|199703101449||||19970310||ORD.DR<CR>  
OBX|1|TX|NA^SODIUM^L|| 132 mg/dl 120-140 14:49||||F|<CR>  
OBR|1|123.002|444|K^POTASSIUM ^L||199703101449||||19970310||ORD.DR<CR>  
OBX|1|TX|K^POTASSIUM^L|| 7.4 mg/dl 4.2-5.5 14:49||||F|<CR>

### Microbiology Text Result

MSH|^&|LAB|001|MSX|001|200206070740||ORU^R01|3035555|P|2.4<CR>  
PID||MG00001234^^^MR^999-99-9999^^^SS^232^^^PI  
||LastName^FirstName|19700326|M|||||MT000001234<CR>  
PV1|1||3 West|||AttendingDocId  
^AttendingDocLast^AttendingDocFirst^AttendingDocMiddle  
^DR^SR^MD|ReferringDocId^ReferringDocLast^ReferringDocFirst^ReferringDocMiddle  
^SR^DR^MD  
||MED|||||AdmittingDocId^AdmittingDocLast  
^AdmittingDocFirst^AdmittingDocMiddle^SR^DR^MD|IN||U|||||||  
Item#00169|AC||199701130945<CR>  
OBR||50|2002:M000099U|CSBLD^CULTURE, BLOOD^L||200206050024|200206050608|||||2  
00206050608|BLD|CAED^CAE^DAN^G|||200206050024|200206070739||BACT|RES<CR>  
OBX||TX|CSBLD^CULTURE, BLOOD^L|| ||||F|<CR>  
OBX||TX|CSBLD^CULTURE, BLOOD^L||LastName  
,FirstName Locatio  
n: ICU 1001 01 ||||F|<CR>  
OBX||TX|CSBLD^CULTURE, BLOOD^L|| DOB:  
03/26/70 Age: 32 Sex: M||||F|<CR>  
OBX||TX|CSBLD^CULTURE, BLOOD^L|| 171447  
ACCT#: 01641500 ||||F|<CR>  
OBX||TX|CSBLD^CULTURE, BLOOD^L|| ||||F|<CR>  
OBX||TX|CSBLD^CULTURE, BLOOD^L|| ||||F|<CR>  
OBX||TX|CSBLD^CULTURE, BLOOD^L||Spec #: 02:M000099U Coll: 06/05/02-0608 St  
atus: RES ||||F|<CR>

OBX|TX|CSBLD^CULTURE, BLOOD^L|| Recd: 06/05/02-0608 S  
 ub Dr: CAE,DAN G |||||F<CR>  
 OBX|TX|CSBLD^CULTURE, BLOOD^L||Source: BLOOD |||||F<CR>  
 OBX|TX|CSBLD^CULTURE, BLOOD^L|| |||||F<CR>  
 OBX|TX|CSBLD^CULTURE, BLOOD^L||Ordered: CSBLD  
 |||||F<CR>  
 OBX|TX|CSBLD^CULTURE, BLOOD^L||Comments: TEMP 100.8  
 |||||F<CR>  
 OBX|TX|CSBLD^CULTURE, BLOOD^L||-----  
 |||||F<CR>  
 OBX|TX|CSBLD^CULTURE, BLOOD^L|| Procedure Result  
 |||||F<CR>  
 OBX|TX|CSBLD^CULTURE, BLOOD^L||-----  
 |||||F<CR>  
 OBX|TX|CSBLD^CULTURE, BLOOD^L||> CULTURE, BLOOD Preliminary |||||F<CR>  
 OBX|TX|CSBLD^CULTURE, BLOOD^L|| AEROBIC BOTTLE: GRAM POS COCCI CLUSTERS  
 |||||F<CR>  
 OBX|TX|CSBLD^CULTURE, BLOOD^L|| ANAEROBIC BOTTLE ALSO POSITIVE. |||||F<  
 CR>  
 OBX|TX|CSBLD^CULTURE, BLOOD^L|| |||||F<CR>  
 OBX|TX|CSBLD^CULTURE, BLOOD^L|| STAPH AUREUS |||||F<CR>  
 OBX|TX|CSBLD^CULTURE, BLOOD^L|| |||||F<CR>  
 OBX|TX|CSBLD^CULTURE, BLOOD^L|| SEE PREVIOUS REPORT. |||||F<CR>  
 OBX|TX|CSBLD^CULTURE, BLOOD^L|| |||||F<CR>  
 OBX|TX|CSBLD^CULTURE, BLOOD^L||-----  
 |||||F<CR>  
 OBX|TX|CSBLD^CULTURE, BLOOD^L|| |||||F<CR>

**Pathology Text Result**

MSH|^&|PTH|FAC|||200209260611||ORU^R01||P|2.4|  
 PID||MG00001234^MR^999-99-9999^SS^232^PI  
 ||LastName^FirstName||19700326|M|||||MT00001234<CR>  
 PV1|1||3 West|||AttendingDocId  
 ^AttendingDocLast^AttendingDocFirst^AttendingDocMiddle  
 ^DR^SR^MD|ReferringDocId^ReferringDocLast^ReferringDocFirst^ReferringDocMiddle  
 ^SR^DR^MD  
 ||MED|||||AdmittingDocId^AdmittingDocLast  
 ^AdmittingDocFirst^AdmittingDocMiddle^SR^DR^MD|IN||U|||||||  
 Item#00169|AC|||199701130945<CR>  
 OBR|1|P80977|P80977|^L|||20020918|||SOMEITIS|200209181122|||00234|||ST-100-  
 02||200209260611||SOUT|||||  
 OBX|1|TX|Run: 12/26/08 0611 Pathology Report  
 OBX|2|TX|-----  
 -----  
 OBX|3|TX|Name: Last,First Age/Sex: 9/M Location: Loc  
 OBX|4|TX|Acct#: V01020 Unit#: MT0000001 Status: ADM IN Room/Bed: 422-4  
 OBX|5|TX|Reg: 09/26/02 Disch: Att Dr: Doctor, Doctor  
 OBX|6|TX|-----  
 -----  
 OBX|7|TX|Spec #: ST-100-02 Recd: 09/18/02-1122 Status: SOUT Req #:  
 00050000  
 OBX|8|TX|SpType: SURGICAL Sub Dr: Submitting, Doctor  
 OBX|9|TX|  
 OBX|10|TX|CODES: T-C000 - Tissue  
 OBX|11|TX|  
 OBX|12|TX|COPIES TO:  
 OBX|13|TX|Copy, Doctor  
 OBX|14|TX|Doctors Office  
 OBX|15|TX|Canton, MA 02123  
 OBX|16|TX|(781)774-4354  
 OBX|17|TX|  
 OBX|18|TX|Submitting, Doctor  
 OBX|19|TX|Hospital

OBX|20|TX|Westwood, MA 02090  
 OBX|21|TX|(781)821-3000  
 OBX|22|TX|  
 OBX|23|TX|HISTOLOGY:  
 OBX|24|TX|  
 OBX|25|TX|POST-OPERATIVE DIAGNOSIS  
 OBX|26|TX|  
 OBX|27|TX|Sick  
 OBX|28|TX|-----  
 -----  
 OBX|29|TX|  
 OBX|30|TX|Signed \_\_\_\_\_(signature on file)\_\_\_\_\_ Person 09/26/02  
 OBX|31|TX|  
 OBX|32|TX|-----  
 -----  
 OBX|33|TX|  
 OBX|34|TX|\*\* END OF REPORT \*\*

**Blood Bank Text Result**

MSH|^&|BBK|||200901091112|ORU^R01|182652.1|D|2.4|  
 PID|1|S00007693|MG00001234^^MR^A0-20081202105755^^PI^A00004321^^HUB^A||Last  
 Name ^FirstName|.19100505|F||Main St^^Boston^MA^11111||S|MT000001234|  
 PV1|1|O|  
 PV2|SP^Semi-Private Accom^Semi-Private Accom|  
 PD1|1|CO|  
 OBR|1||ABS1^ABS1^B^ABS1^T|R|200901091111|200901091111|ML^MAIN  
 LAB||200901091111|OrderingDocId  
 ^OrderingDocLast^OrderingDocFirst^^^MD||00010842||200901091112|  
 XOY|1|RES|567.20|N|||||||||||||||||1+|01|||||TNP|Test  
 not performed|QNS|Insufficient quant.|  
 OBX|1|TX|||||||01/09/09-1112|ML|  
 OBX|2|TX||-----  
 -----

OBX|3|TX||RUN DATE: 01/09/09 Laboratory NPR  
 PAGE 1|  
 OBX|4|TX||RUN TIME: 1113 Specimen Inquiry|  
 OBX|5|TX||-----  
 -----  
 OBX|6|TX||PATIENT: LAST, FIRST ACCT: MT000001234 LOC:  
 3E-A U: MG00001234|  
 OBX|7|TX||AGE/SX: 98/F ROOM: 529 REG: 12/02/08|  
 OBX|8|TX||REG DR: LAST, FIRST , MD DOB: 05/05/1910 BED: 10  
 DIS:|  
 OBX|9|TX||STATUS: ADM IN TLOC:|  
 OBX|10|TX||-----  
 -----

OBX|11|TX|||  
 OBX|12|TX||SPEC #: 0109:BB00001R COLL: 01/09/09-1111 STATUS: RES  
 REQ #: 00010842|  
 OBX|13|TX||RECD: 01/09/09-1111 SUBM DR: LAST, FIRST , MD|  
 OBX|14|TX|||  
 OBX|15|TX||ENTERED: 01/09/09-1112 OTHR DR:|  
 OBX|16|TX||ORD PRODS: (NO ORDERED PRODUCTS)|  
 OBX|17|TX||ORD TESTS: AB ID, ABS1|  
 OBX|18|TX||-----  
 -----

OBX	TX	Test	Result	Flag	Reference
OBX 19 TX					
OBX 20 TX					
OBX 21 TX		ANTIBODY ID	PENDING		
OBX 22 TX		> ABS1	1+		
OBX 23 TX					

-----

OBX	24	TX		
OBX	25	TX		
OBX	26	TX		
OBX	27	TX		
OBX	28	TX		
OBX	29	TX		
OBX	30	TX		
OBX	31	TX		
OBX	32	TX		
OBX	33	TX		
OBX	34	TX		
OBX	35	TX		
OBX	36	TX		
OBX	37	TX		
OBX	38	TX		
OBX	39	TX		
OBX	40	TX		
OBX	41	TX		
OBX	42	TX		
OBX	43	TX		
OBX	44	TX		
OBX	45	TX		
OBX	46	TX		
OBX	47	TX		
OBX	48	TX		
OBX	49	TX		
OBX	50	TX		
OBX	51	TX		
OBX	52	TX		
OBX	53	TX		
OBX	54	TX		
OBX	55	TX		
OBX	56	TX		
OBX	57	TX		
OBX	58	TX		
OBX	59	TX		
OBX	60	TX		
OBX	61	TX		
OBX	62	TX		
OBX	63	TX	**	END OF REPORT **

---

## Network Communications Protocol and Data Framing

For network transfer of messages, MEDITECH supports TCP/IP socket connections over an Ethernet backbone.

MEDITECH supports the HL7 Minimal Lower Layer Protocol for framing HL7 messages.

### NETWORK REQUIREMENTS

1. The non-MEDITECH network on which the OTHER VENDOR system resides must appear to MEDITECH as a physical node on the Ethernet. Logical incorporation of TCP/IP nodes into MEDITECH networks is accomplished according to guidelines set forth in MAGIC Operating System Utilities manuals, version 5.2 and later.
2. At the time communications transmissions reach the MAGIC Ethernet environment, they must be contained in packets conforming to the IEEE 802.3 Ethernet standard.

### ESTABLISHING NETWORK CONNECTIONS

Whether receiving messages or sending messages, MEDITECH can act as either client or server to the other vendor platform server. If MEDITECH is to act as client, the IP address of the remote system and a Well Known Port number on the remote system to which the MEDITECH system can open a TCP/IP connection must be supplied.

Once a connection is opened it will remain open until the interface is turned off on the MEDITECH system, a close is initiated by the remote system, or MEDITECH is acting as the receiver of information and the socket goes inactive for a predefined amount of time passes (e.g., 5 minutes). If a socket is closed, MEDITECH will attempt to reconnect if acting a client, and will enter into a listening mode if acting a server.

Message transfer will be assumed to be initiated by the sender of messages, which will send an HL7 message and await to receive an HL7 Acknowledgement message.

### HL7 MINIMAL PROTOCOL

The Minimal Lower Layer Protocol is described in section B.4 MINIMAL LOWER LAYER PROTOCOL of the Health Level Seven Version 2.1 specification.

With this protocol, an HL7 data message is framed with a single character to start the data message and two characters to terminate the message. No other characters are added to the HL7 message.

The format of the transmission block is this:

**<SB>dddd<EB><CR>**

Where:

<SB> is the Start Block character, ASCII <VT>, decimal <11>, hex <0B>.

ddd is the variable number of bytes representing the HL7 data message.

<EB> is the End Block character, ASCII <FS>, decimal <28>, hex <1C>.

<CR> is a Carriage Return Character, ASCII <CR>, decimal <13>, hex <0D>.

## **ACKNOWLEDGEMENT MESSAGES FOR NETWORK COMMUNICATIONS**

With the HL7 Minimal Protocol, the sender of an HL7 message (such as an ADT, ORM, or ORU message) will send a message and expect to receive an acknowledgement message before sending another message. If an acknowledgement message is not received within a predetermined period of time, the sender will attempt to send the same message again.

If MEDITECH is the sender of messages, MEDITECH will expect an acknowledgement message that contains the MESSAGE CONTROL ID of the message originally sent by MEDITECH. MEDITECH will not process any application level error messages, nor will it process any delayed acknowledgement messages.

If MEDITECH is the receiver of messages, MEDITECH will send an ACK General Acknowledgement message which contains the MESSAGE CONTROL ID of the message received by MEDITECH. MEDITECH will not send any application level error messages or any delayed acknowledgement messages.

---

## **Record Layouts Other Vendor to MEDITECH Laboratory System**

[Message ACK Segment MSH GENERAL ACKNOWLEDGEMENT MESSAGE HEADER](#)  
[Message ACK Segment MSA MESSAGE ACKNOWLEDGEMENT](#)

**Message ACK Segment MSH GENERAL ACKNOWLEDGEMENT MESSAGE HEADER**

Seq	Item	HL7 Description	Req	Type	Len	MEDITECH Description	Req	Type	Len
1	<a href="#">00005</a>	FIELD SEPARATOR	R	ST	1	FIELD SEPARATOR	R	AN	1
2	<a href="#">00509</a>	ENCODING CHARACTERS	R	ST	4	ENCODING CHARACTERS	R	AN	4
3	<a href="#">00006</a>	SENDING APPLICATION	R	ST	180	SENDING APPLICATION	R	AN	180
4	<a href="#">00512</a>	SENDING FACILITY	O	ST	180	SENDING FACILITY	O	AN	180
5	<a href="#">00009</a>	RECEIVING APPLICATION	O	ST	180	RECEIVING APPLICATION	O	AN	180
6	<a href="#">00513</a>	RECEIVING FACILITY	O	ST	180	RECEIVING FACILITY	O	AN	180
7	<a href="#">00010</a>	DATE/TIME OF MESSAGE	O	TS	26	DATE/TIME OF MESSAGE	O	AN	26
9	<a href="#">00012</a>	MESSAGE TYPE	R	ID	7	MESSAGE TYPE	R	AN	7
10	<a href="#">MSH.10</a>	MESSAGE CONTROL ID	R	ST	20	MESSAGE CONTROL ID	R	AN	20
11	<a href="#">00014</a>	PROCESSING ID	R	ID	3	PROCESSING ID	R	AN	3
12	<a href="#">00015</a>	VERSION ID	R	NM	8	VERSION ID	R	N	8

Req - R = Required, C = Conditionally Required, O = Optional, NU = Not Supported

ACK Segment MSH will be formatted as follows:

```
MSH|Item#00005^~\&|LAB|MEDITECH|Item#00009|Item#00513|199212311049||ORU^R01|
123456789|P|2.3
```

This will be a General Acknowledgement (or ACK) message type, which will be sent by the receiving system after receipt of a message. The sending system will wait for receipt of the acknowledgement message before attempting to send another message. If no Acknowledgement Message has been received within a specified period of time, the sending system may attempt to re-send the message.

The MSA segment will contain the MESSAGE CONTROL ID of the message that is being acknowledged.

Upon receipt of an Acknowledgement Message, the sender will assume that the indicated message had been successfully transmitted. MEDITECH will not send or process any Application Error text messages.



**Message ACK    Segment MSA    MESSAGE ACKNOWLEDGEMENT**

<b>Seq</b>	<b>Item</b>	<b>HL7 Description</b>	<b>Req</b>	<b>Type</b>	<b>Len</b>	<b>MEDITECH Description</b>	<b>Req</b>	<b>Type</b>	<b>Len</b>
1	<a href="#">00002</a>	ACKNOWLEDGEMENT CODE	R	ID	2	ACKNOWLEDGEMENT CODE	R	AN	2
2	<a href="#">MSA.2</a>	MESSAGE CONTROL ID	R	ST	20	MESSAGE CONTROL ID	R	AN	20

Req - R = Required, C = Conditionally Required, O = Optional, NU = Not Supported

ACK Segment MSA will be formatted as follows:

MSA|AA|123456789

The MSA segment will contain the MESSAGE CONTROL ID of the message that is being acknowledged.

**ACK**

MSH

MSA

**Acknowledgement**

Message Header

Message Acknowledgement

---

## Record Layouts MEDITECH Laboratory System to Other Vendor

<u>Message ORU</u>	<u>Segment MSH</u>	<u>RESULT MESSAGE HEADER</u>
<u>Message ORU</u>	<u>Segment PID</u>	<u>RESULT PATIENT IDENTIFICATION</u>
<u>Message ORU</u>	<u>Segment NK1</u>	<u>NEXT OF KIN</u>
<u>Message ORU</u>	<u>Segment PV1</u>	<u>PATIENT VISIT</u>
<u>Message ORU</u>	<u>Segment PV2</u>	<u>PATIENT VISIT ADDITIONAL INFORMATION</u>
<u>Message ORU</u>	<u>Segment PD1</u>	<u>PATIENT ADDITIONAL DEMOGRAPHICS</u>
<u>Message ORU</u>	<u>Segment OBR</u>	<u>RESULT OBSERVATION REQUEST</u>
<u>Message ORU</u>	<u>Segment TQ1</u>	<u>Quantity Timing</u>
<u>Message ORU</u>	<u>Segment NTE</u>	<u>RESULT NOTES AND COMMENTS</u>
<u>Message ORU</u>	<u>Segment SPM</u>	<u>Specimen</u>
<u>Message ORU</u>	<u>Segment SAC</u>	<u>Container Detail</u>
<u>Message ORU</u>	<u>Segment OBX</u>	<u>RESULT</u>
<u>Message ORU</u>	<u>Segment NTE</u>	<u>RESULT NOTES AND COMMENTS</u>

**Message ORU    Segment MSH    RESULT MESSAGE HEADER**

Seq	Item	HL7 Description	Req	Type	Len	MEDITECH Description	Req	Type	Len
1	<a href="#">00005</a>	FIELD SEPARATOR	R	ST	1	FIELD SEPARATOR	R	AN	1
2	<a href="#">00509</a>	ENCODING CHARACTERS	R	ST	4	ENCODING CHARACTERS	R	AN	4
3	<a href="#">00006</a>	SENDING APPLICATION	R	ST	180	SENDING APPLICATION	R	AN	180
4	<a href="#">00512</a>	SENDING FACILITY	O	ST	180	SENDING FACILITY	O	AN	180
5	<a href="#">00009</a>	RECEIVING APPLICATION	O	ST	180	RECEIVING APPLICATION	O	AN	180
6	<a href="#">00513</a>	RECEIVING FACILITY	O	ST	180	RECEIVING FACILITY	O	AN	180
7	<a href="#">00010</a>	DATE/TIME OF MESSAGE	O	TS	26	DATE/TIME OF MESSAGE	R	AN	26
9	<a href="#">00012</a>	MESSAGE TYPE	R	ID	7	MESSAGE TYPE	R	AN	7
10	<a href="#">MSH.10</a>	MESSAGE CONTROL ID	R	ST	20	MESSAGE CONTROL ID	R	AN	20
11	<a href="#">00014</a>	PROCESSING ID	R	ID	3	PROCESSING ID	R	AN	3
12	<a href="#">00015</a>	VERSION ID	R	NM	8	VERSION ID	R	N	8

Req - R = Required, C = Conditionally Required, O = Optional, NU = Not Supported

ORU Segment MSH will be formatted as follows:

```
MSH|Item#00005^~\&|LAB|MEDITECH|Item#00009|Item#00513|199212311049||ORU^R01|
123456789|P|2.3
```

This segment defines the intent, source, destination, and some specifics of the syntax of the ORU - Unsolicited Transmission of an Observation message.

**Message ORU Segment PID RESULT PATIENT IDENTIFICATION**

Seq	Item	HL7 Description	Req	Type	Len	MEDITECH Description	Req	Type	Len
1	<a href="#">00572</a>	SET ID - PATIENT ID	O	SI	4	SET ID - PATIENT ID	O	AN	4
2	<a href="#">00581</a>	PATIENT ID (EXTERNAL ID)	R	CK	20	MRI HUB ID	O	AN	20
3	<a href="#">00034</a>	PATIENT ID (INTERNAL ID)	R	CK	20	PATIENT MEDICAL RECORD NUMBER	R	AN	20
5	<a href="#">00041</a>	PATIENT NAME	R	PN	48	PATIENT NAME	R	AN	48
7	<a href="#">00043</a>	DATE OF BIRTH	O	DT	26	DATE OF BIRTH	R	N	26
8	<a href="#">PID.8</a>	SEX	O	ID	1	SEX	R	AN	1
11	<a href="#">00114</a>	PATIENT ADDRESS	O	AD	106	PATIENT ADDRESS	O	AN	106
13	<a href="#">00049</a>	PHONE NUMBER - HOME	O	TN	40	PHONE NUMBER - HOME	O	N	40
18	<a href="#">00035</a>	PATIENT ACCOUNT NUMBER	O	CK	20	PATIENT ACCOUNT NUMBER	R	AN	20
19	<a href="#">00457</a>	SSN NUMBER - PATIENT	O	ST	16	SSN NUMBER - PATIENT	O	AN	15

Req - R = Required, C = Conditionally Required, O = Optional, NU = Not Supported

ORU Segment PID will be formatted as follows:

```
PID|1|12345678910^^^AB|M5438999||LastName^FirstName||19840831|M|||
5 STREET ADDR.^APT 1^DUDLEY^MA^01570|999-999-9999|||MT00001234|999999999
```

This segment will be the primary means of communicating patient identification information in the ORU Unsolicited Observation Result Message.

**Message ORU    Segment NK1    NEXT OF KIN**

<b>Seq</b>	<b>Item</b>	<b>HL7 Description</b>	<b>Req</b>	<b>Type</b>	<b>Len</b>	<b>MEDITECH Description</b>	<b>Req</b>	<b>Type</b>	<b>Len</b>
1	<a href="#">00190</a>	SET ID - NEXT OF KIN	R	SI	4	SET ID - NEXT OF KIN	R	N	4
2	<a href="#">NK1.2</a>	Name	O	XPN	250	Name	R	XPN	250
3	<a href="#">NK1.3</a>	Relationship	O	CE	250	Relationship	O	CE	10
4	<a href="#">NK1.4</a>	Address	O	XAD	250	Address	O	XAD	250
5	<a href="#">NK1.5</a>	Phone Number	O	XTN	250	Home Phone Number	O	XTN	20
6	<a href="#">NK1.6</a>	Business Phone Number	O	XTN	250	Business Phone Number	O	XTN	20
7	<a href="#">NK1.7</a>	Contact Role	O	CE	250	Contact Role	O	CE	3

Req - R = Required, C = Conditionally Required, O = Optional, NU = Not Supported

ORU Segment NK1 will be formatted as follows:

NK1|1|Item#NK1.2|Item#NK1.3|Item#NK1.4|Item#NK1.5|Item#NK1.6|NOK

The NK1 segment contains information about the patient's other related parties. Any associated parties may be identified. Utilizing NK1-1-set ID, multiple NK1 segments can be sent.

**Message ORU Segment PV1 PATIENT VISIT**

Seq	Item	HL7 Description	Req	Type	Len	MEDITECH Description	Req	Type	Len
1	<a href="#">PV1.1</a>	SET ID - PV1	O	SI	4	SET ID - PV1	R	ST	4
2	<a href="#">00052</a>	PATIENT CLASS	R	ID	1	PATIENT STATUS	R	AN	1
3	<a href="#">PV1.3</a>	ASSIGNED PATIENT LOCATION	O	PL	80	ASSIGNED PATIENT LOCATION	O	ST	80
4	<a href="#">PV1.4</a>	Admission Type	O	IS	2	Admission Priority	O	IS	2
7	<a href="#">PV1.7</a>	ATTENDING DOCTOR	O	XCN	250	ATTENDING DOCTOR	O	CM	250
8	<a href="#">PV1.8</a>	REFERRING DOCTOR	O	XCN	250	REFERRING DOCTOR	O	CM	250
9	<a href="#">PV1.9</a>	CONSULTING DOCTOR	B	XCN	250	CONSULTING DOCTOR	O	XCN	250
10	<a href="#">PV1.10</a>	HOSPITAL SERVICE	O	IS	3	HOSPITAL SERVICE	O	ST	3
14	<a href="#">PV1.14</a>	Admit Source	O	IS	6	Admit Source	O	IS	6
16	<a href="#">PV1.16</a>	VIP Indicator	O	IS	2	VIP Indicator	O	IS	2
17	<a href="#">PV117</a>	ADMITTING DOCTOR	O	CM	250	ADMITTING DOCTOR	O	CM	250
18	<a href="#">PV118</a>	PATIENT TYPE	O	ST	2	PATIENT TYPE	R	ST	2
20	<a href="#">PV1.20</a>	FINANCIAL CLASS	O	ST	50	FINANCIAL CLASS	R	ST	50
36	<a href="#">PV1.36</a>	Discharge Disposition	O	IS	3	Discharge Disposition	O	IS	3
39	<a href="#">PV1.39</a>	SERVICING FACILITY	O	ST	2	SERVICING FACILITY	O	ST	2
41	<a href="#">PV1.41</a>	ACCOUNT STATUS	O	ST	2	ACCOUNT STATUS	R	ST	2
44	<a href="#">PV1.44</a>	ADMIT DATE/TIME	O	ST	12	ADMIT DATE/TIME	R	ST	12
45	<a href="#">PV1.45</a>	DISCHARGE DATE/TIME	O	TS	26	DISCHARGE DATE/TIME	O	ST	26

Req - R = Required, C = Conditionally Required, O = Optional, NU = Not Supported

ORU Segment PV1 will be formatted as follows:

```
PV1|1|I|3 West|EL||AttId^AttLast^AttFir^M^DR^SR^MD|
RefId^RefLast^RefFirst^D^SR^DR^MD|Item#PV1.9|MED|||Item#PV1.1|Item#PV1.1|
AdmtId^AdmtLast^AdmtFirst^D^SR^DR^MD|IN||U|||||||Item#PV1.3|||
Item#PV1.3|AC||200401130945|Item#PV1.4
```

The PV1 segment is used by Registration/ADT applications to communicate information on a visit specific basis.

**Message ORU Segment PV2 PATIENT VISIT ADDITIONAL INFORMATION**

Seq	Item	HL7 Description	Req	Type	Len	MEDITECH Description	Req	Type	Len
2	<a href="#">PV2.2</a>	Accomodation Code	O	CE	250	Accomodation Code	CR	CE	10
3	<a href="#">PV2.3</a>	Admit Reason	O	CE	250	Admit Reason	CR	CE	50
8	<a href="#">PV2.8</a>	Expected Admit Date/Time	O	TS	26	Decision to Admit Date/Time	O	TS	26
10	<a href="#">PV2.10</a>	Estimated Length of Inpatient	O	NM	3	Estimated Length of Inpatient	O	NM	4
12	<a href="#">PV2.12</a>	Visit Description	O	ST	50	Admit Comment	O	ST	50
16	<a href="#">PV2.16</a>	Purge Status Code	O	IS	1	Confidential Flag	O	IS	1
22	<a href="#">PV2.22</a>	Visit Protection Indicator	O	ID	1	Confidential Flag	O	ID	1

Req - R = Required, C = Conditionally Required, O = Optional, NU = Not Supported

ORU Segment PV2 will be formatted as follows:

```
PV2||Item#PV2.2|Item#PV2.3|||||200901021453||Item#PV2.1|Item#PV2.1||||Y|||||
Item#PV2.2
```

The PV2 segment is a continuation of visit-specific information contained on the PV1 segment.

**Message ORU Segment PD1 PATIENT ADDITIONAL DEMOGRAPHICS**

Seq	Item	HL7 Description	Req	Type	Len	MEDITECH Description	Req	Type	Len
1	<a href="#">PD1.1</a>	Living Dependency	O	IS	2	Set ID	R	N	2
2	<a href="#">PD1.2</a>	Living Arrangement	O	CE	10	Financial Class	O	CE	10
4	<a href="#">PD1.4</a>	Patient Primary Care Provider	B	XCN	250	Patient Primary Care Provider	O	XCN	250
12	<a href="#">PD1.12</a>	Protection Indicator	O	ID	1	VIP Indicator	O	ID	1

Req - R = Required, C = Conditionally Required, O = Optional, NU = Not Supported

ORU Segment PD1 will be formatted as follows:

```
PD1|1|Item#PD1.2||Item#PD1.4|||||||Y
```

The patient additional demographic segment contains demographic information that is likely to change about the patient.

The PD1 segment will only generate for HL7 versions 2.4 or less.



**Message ORU    Segment OBR    RESULT OBSERVATION REQUEST**

Seq	Item	HL7 Description	Req	Type	Len	MEDITECH Description	Req	Type	Len
1	<a href="#">00520</a>	SET ID - OBSERVATION REQUEST	O	SI	4	SET ID - OBSERVATION REQUEST	O	AN	4
2	<a href="#">00732</a>	PLACERS ORDER #	O	CM	75	PLACERS ORDER #	O	AN	75
3	<a href="#">00733</a>	FILLERS ORDER #	O	CM	75	FILLERS ORDER #	O	AN	75
4	<a href="#">00523</a>	UNIVERSAL SERVICE IDENTIFIER	R	CE	200	ORDERED TEST/PROCEDURE CODE	R	AN	200
5	<a href="#">00524</a>	PRIORITY	O	ST	2	PRIORITY	O	AN	1
7	<a href="#">00529</a>	REQUESTED DATE-TIME	O	TS	26	COLLECTION DATE/TIME	O	AN	26
8	<a href="#">00529</a>	REQUESTED DATE-TIME	O	TS	19	COLLECTION DATE/TIME	O	AN	26
9	<a href="#">XX.SITE</a>	Collection Volume	O	CE	20	Ordering Site	O	CE	10
10	<a href="#">00533</a>	COLLECTOR IDENTIFIER	O	CN	60	COLLECTED BY USER	O	AN	15
14	<a href="#">00537</a>	SPECIMEN RECEIVED DATE/TIME	R	TS	26	SPECIMEN RECEIVED DATE/TIME	R	AN	26
15	<a href="#">00538</a>	SPECIMEN SOURCE	O	CM	300	SPECIMEN SOURCE	O	AN	50
16	<a href="#">00539</a>	ORDERING PROVIDER	O	CN	120	ORDERING DOCTOR	O	AN	120
24	<a href="#">00257</a>	DIAGNOSTIC SERV SECT ID	O	ID	10	DIAGNOSTIC SERV SECT ID	O	AN	10
25	<a href="#">00734</a>	RESULT STATUS	O	ID	1	SPECIMEN STATUS	O	AN	4
26	<a href="#">00550</a>	LINKED RESULTS	O	CE	400	LINKED RESULTS	O	AN	400
27	<a href="#">OM4.6</a>	Specimen	O	CE	250	MIC Specimen Description	CR	CE	250
28	<a href="#">00057</a>	OTHER DOCTOR(S)	O	CN	250	OTHER DOCTOR(S)	O	AN	250
29	<a href="#">00737</a>	PARENT ACCESSION #	O	AN	200	PARENT ACCESSION #	CR	AN	200
32	<a href="#">00264</a>	PRINCIPAL RESULT INTERPRETER	O	AN	10	VERIFY USER	O	AN	10
39	<a href="#">01030</a>	COLLECTOR'S COMMENT	O	AN	200	CANCEL COMMENTS	O	AN	200

Req - R = Required, C = Conditionally Required, O = Optional, NU = Not Supported

ORU Segment OBR will be formatted as follows:

OBR|1|45643Z^625540^LAB|1229.001^1234^LAB^12292008.001|GLU^^L|R||19970309|  
199703091405|ML^MAIN LAB|USER.CODE.COLCT||||199212311430|BLD^BLOOD^L|  
DR.CODE.ORD||||||LAB|RES|ANAR CULT^2|Item#OM4.6|  
OthId^OthLast^OthFirst^JR^DR^MD|Item#00737|||VerifyUserMnemonic|||||||  
Item#01030

This segment will contain order specific information in an ORU Unsolicited Result Message.

One OBR segment should be sent per order (except for microbiology, see below). Individual test results should be sent with following OBX segments. Multiple OBR segments may be contained in one result. OBR segments that have the same FILLERS ORDER # in the same message will indicate a logical grouping of orders on the MEDITECH side (e.g., specimen).

For microbiology, multiple OBR segments may be sent per order. One OBR segment should be sent per isolate per microbiology procedure (order) to report susceptibility results. Individual susceptibility results for an isolated organism should be sent with following OBX segments. The organism will be identified in the LINKED RESULTS field of the OBR segment. The LINKED RESULTS field will contain the OBSERVATION ID and OBSERVATION SUB-ID of the previously transmitted organism OBX segment. This will associate a susceptibility result to its previously reported isolated organism result.

**Message ORU Segment TQ1 Quantity Timing  
Quantity Timing segment**

<b>Seq</b>	<b>Item</b>	<b>HL7 Description</b>	<b>Req</b>	<b>Type</b>	<b>Len</b>	<b>MEDITECH Description</b>	<b>Req</b>	<b>Type</b>	<b>Len</b>
9	<a href="#">01635</a>	PRIORITY	O	AN	10	PRIORITY	O	AN	10

Req - R = Required, C = Conditionally Required, O = Optional, NU = Not Supported

ORU Segment TQ1 will be formatted as follows:

TQ1R

This segment will contain order specific priority information in a ORU Result Message.

**Message ORU    Segment NTE    RESULT NOTES AND COMMENTS**

<b>Seq</b>	<b>Item</b>	<b>HL7 Description</b>	<b>Req</b>	<b>Type</b>	<b>Len</b>	<b>MEDITECH Description</b>	<b>Req</b>	<b>Type</b>	<b>Len</b>
1	<a href="#">00573</a>	SET ID - NOTES AND COMMENTS	O	SI	4	SET ID - NOTES AND COMMENTS	O	AN	4
3	<a href="#">00575</a>	COMMENT	R	TX	120	SPECIMEN/RESULT COMMENTS	R	AN	120

Req - R = Required, C = Conditionally Required, O = Optional, NU = Not Supported

ORU Segment NTE will be formatted as follows:

NTE|1||WHAT A SPECIMEN.

This segment will be used to communicate comments associated with orders and results. Comments associated with an order will be sent after the OBR segment. Comments associated with a result will be sent after the OBX segment.

**Message ORU Segment SPM Specimen**  
**Specimen segment**

Seq	Item	HL7 Description	Req	Type	Len	MEDITECH Description	Req	Type	Len
1	<a href="#">01754</a>	Set ID	O	SI	4	Set ID	O	SI	4
2	<a href="#">01755</a>	Specimen ID	O	ST	80	Specimen ID	O	ST	80
3	<a href="#">01756</a>	Specimen Parent IDs	O	ST	80	Specimen Parent IDs	O	ST	80
4	<a href="#">01900</a>	Specimen Type	R	AN	250	Specimen Type	CR	AN	250
7	<a href="#">01759</a>	Specimen Collection Method	O	SN	250	Specimen Collection Method	O	SN	250
17	<a href="#">01765</a>	Specimen Collection Date/Time	O	DT	26	Specimen Collection Date/Time	O	DT	26
18	<a href="#">00248</a>	Specimen Receive Date/Time	O	DT	26	Specimen Receive Date/Time	O	DT	26
26	<a href="#">01772</a>	Number of Specimen Containers	O	NM	4	Number of Specimen Containers	O	NM	4
27	<a href="#">01773</a>	Container Type	O	AN	250	Container Type	O	AN	250

Req - R = Required, C = Conditionally Required, O = Optional, NU = Not Supported

ORU Segment SPM will be formatted as follows:

```
SPM|1|00001122^1332^LAB|0413:H0002R^1332^LAB^041310:H2|
BLD^BLOOD^BLOOD^100.100^BLD||MAN^MANUAL|||||||201004221610|201004221631|||||
||1|LAV^LAVENDER
```

The intent of this segment is to describe the characteristics of a specimen.

**Message ORU Segment SAC Container Detail**  
**Container Detail Segment**

<b>Seq</b>	<b>Item</b>	<b>HL7 Description</b>	<b>Req</b>	<b>Type</b>	<b>Len</b>	<b>MEDITECH Description</b>	<b>Req</b>	<b>Type</b>	<b>Len</b>
3	<a href="#">01331</a>	Container Identifier	R	EI	80	Container Identifier	R	EI	80

Req - R = Required, C = Conditionally Required, O = Optional, NU = Not Supported

ORU Segment SAC will be formatted as follows:

SAC|||0413:H00002R^1332^LAB^041310:H2

The container detail segment is the data necessary to maintain the containers that are being used throughout the Laboratory Automation System.



Seq	Item	HL7 Description	Req	Type	Len	MEDITECH Description	Req	Type	Len
1	<a href="#">00573</a>	SET ID - NOTES AND COMMENTS	O	SI	4	SET ID - NOTES AND COMMENTS	O	AN	4
3	<a href="#">00575</a>	COMMENT	R	TX	120	SPECIMEN/RESULT COMMENTS	R	AN	120

Req - R = Required, C = Conditionally Required, O = Optional, NU = Not Supported

ORU Segment NTE will be formatted as follows:

NTE|1||WHAT A SPECIMEN.

This segment will be used to communicate comments associated with orders and results. Comments associated with an order will be sent after the OBR segment. Comments associated with a result will be sent after the OBX segment.



---

## Appendix

### Field Definitions

---

NOTE	HL7/MT	DESCRIPTION	LENGTH	TYPE
00002	HL7	ACKNOWLEDGEMENT CODE	2	ID
	MT	ACKNOWLEDGEMENT CODE	2	AN

---

#### HL7 standard description

This will always contain value AA for Application Accept as the function of this message is entirely as a communication level acknowledgement.

Used in Message Segment: [ACK MSA](#)

---

00005	HL7	FIELD SEPARATOR	1	ST
	MT	FIELD SEPARATOR	1	AN

---

#### HL7 standard description

The separator between the segment ID and the ENCODING CHARACTERS field. It serves as the separator and defines the character to be used as a separator for the rest of the message.

Used in Message Segments: [ACK MSH](#), [ORU MSH](#)

---

00006	HL7	SENDING APPLICATION	180	ST
	MT	SENDING APPLICATION	180	AN

---

#### HL7 standard description

MEDITECH value: LAB for results from the MEDITECH Laboratory system.  
MIC for results from the MEDITECH Microbiology system.  
BBK for results from the MEDITECH BloodBank system.

Used in Message Segments: [ACK MSH](#), [ORU MSH](#)

---

00009	HL7	RECEIVING APPLICATION	180	ST
	MT	RECEIVING APPLICATION	180	AN

---

#### HL7 standard description

Available for interface with lower level protocols.

Used in Message Segments: [ACK MSH](#), [ORU MSH](#)

---

00010	HL7	DATE/TIME OF MESSAGE	26	TS
	MT	DATE/TIME OF MESSAGE	26	AN

#### HL7 standard description

Date/time that the sending system created the message.

MEDITECH format: Date and time will be in the form YYYYMMDDHHMM upto 12 characters.

Used in Message Segments: [ACK\\_MSH](#), [ORU\\_MSH](#)

---

00012	HL7	MESSAGE TYPE	7	ID
	MT	MESSAGE TYPE	7	AN

#### HL7 standard description

An Unsolicited Result message will have message type ORU^R01.

Used in Message Segments: [ACK\\_MSH](#), [ORU\\_MSH](#)

---

00014	HL7	PROCESSING ID	3	ID
	MT	PROCESSING ID	3	AN

#### HL7 standard description

MEDITECH Value: P (Production/Live) or D (Development/Test)

Used in Message Segments: [ACK\\_MSH](#), [ORU\\_MSH](#)

---

00015	HL7	VERSION ID	8	NM
	MT	VERSION ID	8	N

#### HL7 standard description

The default Version ID will be '2.3' and can be edited via parameter upon request.

Used in Message Segments: [ACK\\_MSH](#), [ORU\\_MSH](#)

---

00034	HL7	PATIENT ID (INTERNAL ID)	20	CK
	MT	PATIENT MEDICAL RECORD NUMBER	20	AN

#### MEDITECH description

For HL7 version 2.2 or less, this field will contain the patient's MEDICAL RECORD NUMBER.

For HL7 2.4 or higher, this field will contain a list of patient identifiers including MEDICAL RECORD NUMBER (MR), SOCIAL SECURITY NUMBER (SS), Internal URN

(PI) and HUB ID (HUB) using repetition characters as illustrated by the following example:

M5438999^^^MR<Repetition character>282-22-2298^^^SS<Repetition character>  
232^^^PI

Used in Message Segment: [ORU\\_PID](#)

---

00035	HL7	PATIENT ACCOUNT NUMBER	20	CK
	MT	PATIENT ACCOUNT NUMBER	20	AN

#### HL7 standard description

MEDITECH value: Patient's account number as defined in the MEDITECH database. The account number will consist of a one or two character alpha prefix followed by a site specific number of digits. The prefix and digits will not exceed 12 characters.

MEDITECH element name: ADM.PAT.acct.number

Used in Message Segment: [ORU\\_PID](#)

---

00041	HL7	PATIENT NAME	48	PN
	MT	PATIENT NAME	48	AN

#### HL7 standard description

MEDITECH value: Patient name as defined in the MEDITECH database. Patient name will be in the format Lastname^Firstname^Middlename.

Used in Message Segment: [ORU\\_PID](#)

---

00043	HL7	DATE OF BIRTH	26	DT
	MT	DATE OF BIRTH	26	N

#### HL7 standard description

Date of birth will be in the format YYYYMMDD.

MEDITECH element name: ADM.PAT.birthdate or ADM.PAT.computed.birthdate

Used in Message Segment: [ORU\\_PID](#)

---

00049	HL7	PHONE NUMBER - HOME	40	TN
	MT	PHONE NUMBER - HOME	40	N

#### HL7 standard description

MEDITECH will accept free text up to 18 characters as a phone number.

MEDITECH element name: ADM.PAT.pat.home.phone

Used in Message Segment: [ORU\\_PID](#)

---

00052	HL7	PATIENT CLASS	1	ID
	MT	PATIENT STATUS	1	AN

#### HL7 standard description

Generally denoted as I - 'inpatient', O - 'outpatient'; P - 'preadmit', E - 'emergency'. This is the patient status at MEDITECH Admissions system.

Used in Message Segment: [ORU\\_PV1](#)

---

00057	HL7	OTHER DOCTOR(S)	250	CN
	MT	OTHER DOCTOR(S)	250	AN

#### HL7 standard description

Format: Mnemonic^LastName^FirstName^Middle^Suffix^Prefix^Degree

MEDITECH value: MEDITECH MIS Doctor Dictionary mnemonic. Custom to send other providers entered in LIS requisition (Other Doctor field).

Used in Message Segment: [ORU\\_OBR](#)

---

00114	HL7	PATIENT ADDRESS	106	AD
	MT	PATIENT ADDRESS	106	AN

#### HL7 standard description

Mailing address of the patient.

Format: Address1^Address2^City^State^Zip Or Postal  
MEDITECH element name: ADM.PAT.pat.street, ADM.PAT.pat.city,  
ADM.PAT.pat.state and ADM.PAT.pat.zip

Used in Message Segment: [ORU\\_PID](#)

---

00190	HL7	SET ID - NEXT OF KIN	4	SI
	MT	SET ID - NEXT OF KIN	4	N

#### HL7 standard description

This field is used to uniquely identify the NK1 records for the purpose of adding, changing, or deleting records.

Used in Message Segment: [ORU\\_NK1](#)

---

00248	HL7	Specimen Receive Date/Time	26	TS
	MT	Specimen Receive Date/Time	26	DT

#### MEDITECH description

This field contains the Specimen Receive date/time in the YYYYMMDDTTTT format.

Used in Message Segment: [ORU\\_SPM](#)

---

00257	HL7	DIAGNOSTIC SERV SECT ID	10	ID
	MT	DIAGNOSTIC SERV SECT ID	10	AN

#### HL7 standard description

The value "LAB" is sent as the Diagnostic Service.

Used in Message Segment: [ORU\\_OBR](#)

---

00264	HL7	PRINCIPAL RESULT INTERPRETER	2	ID
	MT	VERIFY USER	10	AN

#### HL7 standard description

This field contains the Result Verify User Menmonic.

MEDITECH value: LAB.L.SPEC.verify.user or LAB.M.SPEC.verify.user

Used in Message Segment: [ORU\\_OBR](#)

---

00457	HL7	SSN NUMBER - PATIENT	16	ST
	MT	SSN NUMBER - PATIENT	15	AN

#### HL7 standard description

The patient's social security number.

MEDITECH value: Patient social security number can be up to 15 free text characters.

Used in Message Segment: [ORU\\_PID](#)

---

00509	HL7	ENCODING CHARACTERS	4	ST
	MT	ENCODING CHARACTERS	4	AN

#### HL7 standard description

Four characters that include the component separator, the repetition separator, the escape character, and the sub-component separator.

MEDITECH currently does not support the escape character. Therefore, no data fields may contain the field separator character.

The component, sub-component, and repetition separators are used as appropriate in each field. These characters may not be part of the data of any fields which may have components or sub-components, or which may repeat.

Used in Message Segments: [ACK\\_MSH](#), [ORU\\_MSH](#)

---

00512	HL7	SENDING FACILITY	180	ST
	MT	SENDING FACILITY	180	AN

#### HL7 standard description

Addresses one of several occurrences of the same application within the sending system.

Used in Message Segments: [ACK MSH](#), [ORU MSH](#)

---

00513	HL7	RECEIVING FACILITY	180	ST
	MT	RECEIVING FACILITY	180	AN

#### HL7 standard description

Identifies the receiving facility among multiple identical instances of the application running on behalf of different organizations.

MEDITECH value: <Optional> This is a parameter which can be set up if needed. However, the data transmitted or received in this field is not needed by MEDITECH to format or file the record and is not stored in the MEDITECH system.

Used in Message Segments: [ACK MSH](#), [ORU MSH](#)

---

00520	HL7	SET ID - OBSERVATION REQUEST	4	SI
	MT	SET ID - OBSERVATION REQUEST	4	AN

Used in Message Segment: [ORU OBR](#)

---

00523	HL7	UNIVERSAL SERVICE IDENTIFIER	200	CE
	MT	ORDERED TEST/PROCEDURE CODE	200	AN

#### HL7 standard description

Identifier code for the requested observation/battery/service.

This is a coded entry field comprised of the following components:

- Component 1: test/procedure mnemonic
- Component 2: test/procedure text description
- Component 3: indicates the coding scheme
  - 'L' in the third component indicates a locally defined scheme
- Component 4: test/procedure abbreviation
- Component 5: test/procedure type
- Component 6: test/procedure Print Number
- Component 7: test/procedure HUB data name
- Component 8: test/procedure department
- Component 9: test/procedure department name
- Component 10: test/procedure department abbreviation
- Component 11: test/procedure department prefix
- Component 12: test/procedure HUB data name

Used in Message Segment: [ORU\\_OBR](#)

---

00524	HL7	PRIORITY	2	ST
	MT	PRIORITY	1	AN

#### HL7 standard description

This field contains the priority.

Used in Message Segment: [ORU\\_OBR](#)

---

00529	HL7	REQUESTED DATE-TIME	26	TS
	MT	COLLECTION DATE/TIME	26	AN

#### HL7 standard description

Date and time the sample was obtained from the patient. Format YYYYMMDDHHMM.

Used in Message Segments: [ORU\\_OBR](#), [ORU\\_OBX](#)

---

00533	HL7	COLLECTOR IDENTIFIER	60	CN
	MT	COLLECTED BY USER	15	AN

#### HL7 standard description

Person, department, or facility that collected the specimen required for the study.

MEDITECH value:

LAB, MIC, BBK: Collected By user mnemonic.

PTH: <not used>

Used in Message Segment: [ORU\\_OBR](#)

---

00537	HL7	SPECIMEN RECEIVED DATE/TIME	26	TS
	MT	SPECIMEN RECEIVED DATE/TIME	26	AN

#### HL7 standard description

Login time at the diagnostic service for observations requiring a specimen. This time will default to the same time as the collection data/time for most cases. Format YYYYMMDDHHMM.

Used in Message Segment: [ORU\\_OBR](#)

---

00538	HL7	SPECIMEN SOURCE	300	CM
	MT	SPECIMEN SOURCE	50	AN

#### HL7 standard description

Used for microbiology only.

The first component of this CE data type element will contain a source identifier. The Max length of the source mnemonic(first component) is 10 characters.

The second component will contain a source description. The Max length of component 2 is 21 characters

The third component of the CE field will contain L to indicate a Locally defined value.

EXAMPLE: BLD&BLOOD&L

Used in Message Segment: [ORU\\_OBR](#)

---

00539	HL7	ORDERING PROVIDER	120	CN
	MT	ORDERING DOCTOR	120	AN

#### HL7 standard description

ORDERING DOCTOR.

Used in Message Segment: [ORU\\_OBR](#)

---

00550	HL7	LINKED RESULTS	400	CE
	MT	LINKED RESULTS	400	AN

#### HL7 standard description

This field is used for microbiology results. This field will be used when reporting susceptibility results for a previously identified organism. The field will contain two components: the OBSERVATION ID and the OBSERVATION SUB-ID of the previously sent OBX which reported the organism.

Example:  
AFB CULT^2.1

The example links susceptibility results to the second organism identified in an AFB Culture.

#### MEDITECH description

OBR|26.1 will contain the Res Code if it exists. If not, it will contain the MIC Procedure Mnemonic

#### MEDITECH element/value

If Res Code:  
@LAB.M.PROC.lab.site.val.res.code

MIC Procedure Mnemonic:  
@LAB.M.PROC.mnemonic

Used in Message Segment: [ORU\\_OBR](#)

---



00559	HL7	SET ID -OBSERVATION SIMPLE	10	SI
	MT	SET ID -OBSERVATION SIMPLE	10	AN

Used in Message Segment: [ORU\\_OBX](#)

---

00560	HL7	OBSERVATION IDENTIFIER	590	CE
	MT	OBSERVATION IDENTIFIER	590	AN

#### HL7 standard description

The Observation Identifier field consists of the following components:

Component 1: test/procedure mnemonic

Component 2: test/procedure text description

Component 3: indicates the coding scheme

'L' in the third component indicates a locally defined scheme

Component 4: test/procedure abbreviation

Component 5: test/procedure type

Component 6: test/procedure Print Number

Used in Message Segment: [ORU\\_OBX](#)

---

00561	HL7	OBSERVATION RESULT	150	ST
	MT	OBSERVATION RESULTS	150	AN

#### HL7 standard description

For text results, the value of this field should be a free text string (TX).

For discrete laboratory results, the value in this field should be a string (ST).

For discrete microbiology results, the value in this field will either be a string (ST) or a coded entry (CE).

For string results, the OBSERVATION RESULTS field will contain up to 80 characters of text results. For antibiotic susceptibilities, the OBSERVATION RESULTS field may contain a one-character interpretation (R, I, or S).

For coded entry of organism identifications, the OBSERVATION RESULTS first component will contain a organism mnemonic, while the second component contains the organism name.

Used in Message Segment: [ORU\\_OBX](#)

---

00562	HL7	UNITS	60	ST
	MT	UNITS	60	AN

#### HL7 standard description

Units for the observation.

Used in Message Segment: [ORU\\_OBX](#)

---

00563	HL7	REFERENCES RANGE	10	ST
	MT	REFERENCES RANGE	10	AN

#### HL7 standard description

The reference range for the observation.

Used in Message Segment: [ORU\\_OBX](#)

---

00564	HL7	ABNORMAL FLAGS	5	ST
	MT	ABNORMAL FLAGS	5	AN

#### HL7 standard description

This field contains a table lookup indicating the normalcy status of the result. We strongly recommend sending this value when applicable. (See ASTM 1238 - review for more details). Refer to User-defined Table 0078 - Abnormal flags for valid entries.

When the laboratory can discern the normal status of a textual report, such as chest X-ray reports or microbiologic culture, these should be reported as N when normal and A when abnormal. Multiple codes, e.g., abnormal and worse, would be separated by a repeat delimiter, e.g., A.

Value	Description
L	Below low normal
H	Above high normal
LL	Below lower panic limits
HH	Above upper panic limits
<	Below absolute low-off instrument scale
>	Above absolute high-off instrument scale
N	Normal (applies to non-numeric results)
A	Abnormal (applies to non-numeric results)
AA	Very abnormal (applied to non-numeric units, analogous to panic limits for numeric units)
null	No range defined, or normal ranges don't apply
U	Significant change up
D	Significant change down
B	Better--use when direction not relevant
W	Worse--use when direction not relevant
S	Susceptible. Indicates for microbiology susceptibilities only.
R	Resistant. Indicates for microbiology susceptibilities only.
I	Intermediate. Indicates for microbiology susceptibilities only.
MS	Moderately susceptible. Indicates for microbiology susceptibilities only.
VS	Very susceptible. Indicates for microbiology susceptibilities only.

#### MEDITECH description

This field contains a table lookup indicating the normalcy status of the result. See HL7 table 0078 - Abnormal flags for valid entries.

Laboratory results, numeric:

- L - low
- H - high
- LL - critical low
- HH - critical high

Laboratory results, non-numeric:

A - abnormal

N - normal

"A" will be sent if the internal abnormal flag on the specimen exists, otherwise "N" will be sent for abnormal non-numeric results.

Microbiology results:

For query (prompt) responses, this will be "A" or "N".

For antibiotic OBX segments, reaction:

VS - very sensitive

MS - moderately sensitive

MR - moderately resistant

VR - very resistant

S - sensitive

I - intermediate

r - resistant

Used in Message Segment: [ORU\\_OBX](#)

---

00566	HL7	OBSERVATION RESULT STATUS	1	ID
	MT	OBSERVATION RESULT STATUS	1	AN

#### HL7 standard description

Refer to HL7 V2.1 table 0085 for valid codes.

MEDITECH value: Supported table codes are:

C Correction of previously transmitted results

F Final results

P Preliminary result for micro specimen.

D Deletion of a previously transmitted result

Used in Message Segment: [ORU\\_OBX](#)

---

00572	HL7	SET ID - PATIENT ID	4	SI
	MT	SET ID - PATIENT ID	4	AN

Used in Message Segment: [ORU\\_PID](#)

---

00573	HL7	SET ID - NOTES AND COMMENTS	4	SI
	MT	SET ID - NOTES AND COMMENTS	4	AN

#### HL7 standard description

For multiple data sets, the SET ID field is used to identify repetitions.

Used in Message Segments: [ORU\\_NTE](#), [ORU\\_NTE](#)

---

00575	HL7	COMMENT	120	TX
	MT	SPECIMEN/RESULT COMMENTS	120	AN

#### HL7 standard description

If the NTE segment follows an OBR segment, this field will contain either a line of comments from the MEDITECH Lab or Micro specimen comments, or an Order query in the Format "Ordered Test: Query Description:^ Query Text", where Ordered Test is the mnemonic of the Ordered test as valued in field 4, component 1 of the preceding OBR segment, and the Query Text is the query response placed in the second component of NTE Field 3.

If the NTE segment follows an OBX segment, this field will contain one line of a MEDITECH Lab test result comment or Micro interpretation comment.

If the NTE segment follows an ORC segment with a Cancel status, then this field will contain one line of a Lab or Micro specimen cancel comment.

Used in Message Segments: [ORU\\_NTE](#), [ORU\\_NTE](#)

---

00581	HL7	PATIENT ID (EXTERNAL ID)	20	CK
	MT	MRI HUB ID	20	AN

#### MEDITECH description

The MRI.HUB.mri.hub.id value is only sent for HL7 versions 2.2 or less.

Used in Message Segment: [ORU\\_PID](#)

---

00676	HL7	VALUE TYPE	2	ID
	MT	VALUE TYPE	2	AN

#### HL7 standard description

NM = Numeric results  
ST = Non-Numeric results  
TX = text report  
CE = Coded Entry

Used in Message Segment: [ORU\\_OBX](#)

---

00732	HL7	PLACERS ORDER #	75	CM
	MT	PLACERS ORDER #	75	AN

#### HL7 standard description

Uniquely identifies an order among all orders from a particular ordering application.

This field will be populated with the following values separated by the component character:

Requisition Number^Specimen URN^Module (ie: LAB)

Used in Message Segment: [ORU\\_OBR](#)

---

00733	HL7	FILLERS ORDER #	75	CM
	MT	FILLERS ORDER #	75	AN

### HL7 standard description

This field will be populated with the following values separated by the component character:

External Specimen Number^Specimen URN^Module^Complete External Specimen Number

Used in Message Segment: [ORU\\_OBR](#)

---

<b>00734</b>	<b>HL7</b>	<b>RESULT STATUS</b>	<b>1</b>	<b>ID</b>
	<b>MT</b>	<b>SPECIMEN STATUS</b>	<b>4</b>	<b>AN</b>

### HL7 standard description

This field will send the status of the Specimen.

The following values can be generated (depending on the LAB setup):

CAN - Cancelled  
COLB - Collection Batch  
COMP - Complete  
ORD - Ordered  
P - Pending  
RECD - Received  
RES - Resulted  
UNV - Unverified (Only if SEND ALL parameter within the LAB Site Dictionary is set to 'Y')  
WKST - Worksheet

### MEDITECH element/value

IF @LAB.B.SPEC.status, @LAB.L.SPEC.status or @LAB.M.SPEC.status then the following values will be sent:

EVENT	OBR 25.1	OBR 25.2
CAN	X	Cancelled
ORD	O	Ordered
COLB	COLB	Collection Batch
RECD	I	Received
WKST	WKST	Worksheet
UNV	UNV	Unverified
RES	R	Resulted
COMP	F	Complete

Used in Message Segment: [ORU\\_OBR](#)

---

<b>00737</b>	<b>HL7</b>	<b>PARENT ACCESSION #</b>	<b>200</b>	<b>CM</b>
	<b>MT</b>	<b>PARENT ACCESSION #</b>	<b>200</b>	<b>AN</b>

### HL7 standard description

MEDITECH MICRO value:

Used for Micro only when susceptibilities are being linked to a previous culture.

When reporting susceptibility results, this field will have the MEDITECH specimen accession number to indicate that this battery of results is linked to a previously reported culture battery. MEDITECH does not create a different accession number for culture and susceptibility results. Therefore, this will be the same number as the FILLERS ORDER # field.

Used in Message Segment: [ORU\\_OBR](#)

---

00769	HL7	OBSERVATION SUB-ID	20	ST
	MT	OBSERVATION SUB-ID	20	AN

#### HL7 standard description

The OBSERVATION SUB-ID is only used when identifying isolated organisms in microbiology. Each isolated organism is assigned a non-zero numeric identifier that is unique by procedure. This identifier is then used in the LINKED RESULTS field of a subsequent OBR segment to refer to the organism.

Used in Message Segment: [ORU\\_OBX](#)

---

01030	HL7	COLLECTOR'S COMMENT	200	CE
	MT	CANCEL COMMENTS	200	AN

#### HL7 standard description

This field contains the cancellation comments.

Used in Message Segment: [ORU\\_OBR](#)

---

01331	HL7	Container Identifier	80	EI
	MT	Container Identifier	80	EI

#### MEDITECH description

This field contains the specimen identifiers found on the specimen's container.

Component 1: Specimen Number  
Component 2: Specimen URN  
Component 3: Module  
Component 4: Complete Specimen Number

Used in Message Segment: [ORU\\_SAC](#)

---

01635	HL7	PRIORITY	250	ST
	MT	PRIORITY	10	AN

#### HL7 standard description

This field contains the priority.

#### MEDITECH description

This field contains the specimen priority.

Used in Message Segment: [ORU\\_TQ1](#)

---

01754	HL7	Set ID	4	SI
	MT	Set ID	4	SI

#### HL7 standard description

This field contains the SET ID sequence number of the TQ1 segment. Since only one TQ1 segment is sent per OBR segment, this field is not used by MEDITECH.

#### MEDITECH description

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

Used in Message Segment: [ORU\\_SPM](#)

---

01755	HL7	Specimen ID	80	ST
	MT	Specimen ID	80	ST

#### MEDITECH description

This field contains the specimen identifier components:

Component 1: Requisition Number  
Component 2: Specimen URN  
Component 3: Module

Used in Message Segment: [ORU\\_SPM](#)

---

01756	HL7	Specimen Parent IDs	80	ST
	MT	Specimen Parent IDs	80	ST

#### MEDITECH description

This field contains the Specimen Parent identifier components:

Component 1: Specimen Number  
Component 2: Specimen URN  
Component 3: Module  
Component 4: Complete Specimen Number

Used in Message Segment: [ORU\\_SPM](#)

---

01759	HL7	Specimen Collection Method	250	ST
	MT	Specimen Collection Method	250	SN

#### MEDITECH description

This field contains the Specimen Collection Method:

Component 1: Method Mnemonic

Component 2: Method Name

Used in Message Segment: [ORU\\_SPM](#)

---

<b>01765</b>	<b>HL7</b>	<b>Specimen Collection Date/Time</b>	<b>26</b>	<b>DR</b>
	<b>MT</b>	<b>Specimen Collection Date/Time</b>	<b>26</b>	<b>DT</b>

**MEDITECH description**

This field contains the Specimen Collection date/time in YYYYMMDDTTTT format.

Used in Message Segment: [ORU\\_SPM](#)

---

<b>01772</b>	<b>HL7</b>	<b>Number of Specimen Containers</b>	<b>4</b>	<b>NM</b>
	<b>MT</b>	<b>Number of Specimen Containers</b>	<b>4</b>	<b>NM</b>

**MEDITECH description**

This field contains the specimen container count.

Used in Message Segment: [ORU\\_SPM](#)

---

<b>01773</b>	<b>HL7</b>	<b>Container Type</b>	<b>250</b>	<b>CD</b>
	<b>MT</b>	<b>Container Type</b>	<b>250</b>	<b>AN</b>

**MEDITECH description**

This field contains the Container Type information:

Component 1: Container Type Mnemonic

Component 2: Container Name

Used in Message Segment: [ORU\\_SPM](#)

---

<b>01900</b>	<b>HL7</b>	<b>Specimen Type</b>	<b>250</b>	<b>ST</b>
	<b>MT</b>	<b>Specimen Type</b>	<b>250</b>	<b>AN</b>

**MEDITECH description**

This field contains the Specimen Source information for MIC results only:

Component 1: Source Mnemonic

Component 2: Source Name

Component 3: Source Abbreviation

Component 4: Source Number

Component 5: Source Category

Used in Message Segment: [ORU\\_SPM](#)

---



MSA.2	HL7	MESSAGE CONTROL ID	20	ST
	MT	MESSAGE CONTROL ID	20	AN

**HL7 standard description**

The MESSAGE CONTROL ID of the message which is being acknowledged. This must be returned by the Receiving System to the Sending System in order to match an acknowledgement message with the message being acknowledged.

Used in Message Segment: [ACK MSA](#)

---

MSH.10	HL7	MESSAGE CONTROL ID	20	ST
	MT	MESSAGE CONTROL ID	20	AN

**HL7 standard description**

A number or other identifier that uniquely identifies the message.

Used in Message Segments: [ACK MSH](#), [ORU MSH](#)

---

NK1.2	HL7	Name	250	XPN
	MT	Name	250	XPN

**HL7 standard description**

This field contains the name of the next of kin or associated party.

Used in Message Segment: [ORU NK1](#)

---

NK1.3	HL7	Relationship	250	CE
	MT	Relationship	10	CE

**HL7 standard description**

This field contains the actual personal relationship that the next of kin or associated party has to the patient.

Component 1: Relationship mnemonic  
Component 2: Relationship description

Used in Message Segment: [ORU NK1](#)

---

NK1.4	HL7	Address	250	XAD
	MT	Address	250	XAD

**HL7 standard description**

This field contains the address of the next of kin/associated party.

Used in Message Segment: [ORU NK1](#)

---

NK1.5	HL7	Phone Number	250	XTN
	MT	Home Phone Number	20	XTN

#### HL7 standard description

This field contains the home telephone number of the next of kin/associated party.

Used in Message Segment: [ORU\\_NK1](#)

---

NK1.6	HL7	Business Phone Number	250	XTN
	MT	Business Phone Number	20	XTN

#### HL7 standard description

This field contains the business or work telephone number of the next of kin/associated party.

Used in Message Segment: [ORU\\_NK1](#)

---

NK1.7	HL7	Contact Role	250	CE
	MT	Contact Role	3	CE

#### HL7 standard description

This field indicates the specific relationship role. The following values are possible:

NOK - Next of Kin  
NOT - Notify Person  
EMP - Employer

Used in Message Segment: [ORU\\_NK1](#)

---

OM4.6	HL7	Specimen	250	CE
	MT	MIC Specimen Description	250	CE

#### HL7 standard description

\*Intended for MIC Results only\*

#### MEDITECH description

This is a multi-component field and is intended for MIC Results ONLY.

OBR|27.1 = The MIC specimen's description  
OBR|27.2 = The MIC specimen's description name  
OBR|27.3 = The abbreviation for the MIC specimen's description name

#### MEDITECH element/value

OBR|27.1 - @LAB.M.SPEC.spec.desc  
OBR|27.2 - @LAB.M.SPDESC.name  
OBR|27.3 - @LAB.M.SPDESC.abbrev

Used in Message Segment: [ORU\\_OBR](#)

---

<b>PD1.1</b>	<b>HL7</b>	<b>Living Dependency</b>	<b>2</b>	<b>IS</b>
	<b>MT</b>	<b>Set ID</b>	<b>2</b>	<b>N</b>

#### HL7 standard description

This field contains the number that identifies this transaction. Since each result message will only contain information for one patient, the PD1 Set ID will always be valued at 1.

Used in Message Segment: [ORU\\_PD1](#)

---

<b>PD1.12</b>	<b>HL7</b>	<b>Protection Indicator</b>	<b>1</b>	<b>ID</b>
	<b>MT</b>	<b>VIP Indicator</b>	<b>1</b>	<b>ID</b>

#### HL7 standard description

This field identifies the VIP status of the patient.

Used in Message Segment: [ORU\\_PD1](#)

---

<b>PD1.2</b>	<b>HL7</b>	<b>Living Arrangement</b>	<b>2</b>	<b>IS</b>
	<b>MT</b>	<b>Financial Class</b>	<b>10</b>	<b>CE</b>

#### HL7 standard description

This field identifies the financial class of the patient.

Used in Message Segment: [ORU\\_PD1](#)

---

<b>PD1.4</b>	<b>HL7</b>	<b>Patient Primary Care Provider</b>	<b>250</b>	<b>XCN</b>
	<b>MT</b>	<b>Patient Primary Care Provider</b>	<b>250</b>	<b>XCN</b>

#### HL7 standard description

This field contains the following provider information:

Component 1: Primary care provider mnemonic and name.  
Component 2: Family provider mnemonic and name

Used in Message Segment: [ORU\\_PD1](#)

---

<b>PID.8</b>	<b>HL7</b>	<b>SEX</b>	<b>1</b>	<b>ID</b>
	<b>MT</b>	<b>SEX</b>	<b>1</b>	<b>AN</b>

### HL7 standard description

Patient sex may have one of the following values: M, F, or U.

MEDITECH element name: ADM.PAT.sex

Used in Message Segment: [ORU\\_PID](#)

---

<b>PV1.1</b>	<b>HL7</b>	<b>SET ID - PV1</b>	<b>4</b>	<b>SI</b>
	<b>MT</b>	<b>SET ID - PV1</b>	<b>4</b>	<b>ST</b>

### HL7 standard description

This field contains the number that identifies this transaction. Since each result message will only contain information for one patient, the PV1 Set ID will always be valued at 1.

Used in Message Segment: [ORU\\_PV1](#)

---

<b>PV1.10</b>	<b>HL7</b>	<b>HOSPITAL SERVICE</b>	<b>3</b>	<b>IS</b>
	<b>MT</b>	<b>HOSPITAL SERVICE</b>	<b>3</b>	<b>ST</b>

### HL7 standard description

This field contains the treatment or type of surgery that the patient is scheduled to receive. It is a required field with trigger events A01 (admit/visit notification), A02 (transfer a patient), A14 (pending admit), A15 (pending transfer). Refer to User-defined Table 0069 - Hospital service for suggested values.

User-defined Table 0069 - Hospital service

Values	Description
MED	Medical Service
SUR	Surgical Service
URO	Urology Service
PUL	Pulmonary Service
CAR	Cardiac Service

Used in Message Segment: [ORU\\_PV1](#)

---

<b>PV1.14</b>	<b>HL7</b>	<b>Admit Source</b>	<b>6</b>	<b>IS</b>
	<b>MT</b>	<b>Admit Source</b>	<b>6</b>	<b>IS</b>

### HL7 standard description

Definition: This field indicates where the patient was admitted.

Possible Values are defined in the MIS Admit Source dictionary.

Used in Message Segment: [ORU\\_PV1](#)

---

<b>PV1.16</b>	<b>HL7</b>	<b>VIP Indicator</b>	<b>2</b>	<b>IS</b>
	<b>MT</b>	<b>VIP Indicator</b>	<b>2</b>	<b>IS</b>

### HL7 standard description

This field identifies the type of VIP.

Used in Message Segment: [ORU PV1](#)

---

PV1.20	HL7	FINANCIAL CLASS	50	FC
	MT	FINANCIAL CLASS	50	ST

### HL7 standard description

This field contains the financial class(es) assigned to the patient for the purpose of identifying sources of reimbursement.

Used in Message Segment: [ORU PV1](#)

---

PV1.3	HL7	ASSIGNED PATIENT LOCATION	80	PL
	MT	ASSIGNED PATIENT LOCATION	80	ST

### HL7 standard description

This field contains the patient's initial assigned location or the location to which the patient is being moved. The first component may be the nursing station for inpatient locations, or clinic or department, for locations other than inpatient. For canceling a transaction or discharging a patient, the current location (after the cancellation event or before the discharge event) should be in this field. If a value exists in the fifth component (location status), it supersedes the value in PV1-40 - Bed Status.

Used in Message Segment: [ORU PV1](#)

---

PV1.36	HL7	Discharge Disposition	3	IS
	MT	Discharge Disposition	3	IS

### HL7 standard description

This field contains the disposition of the patient at time of discharge.

Used in Message Segment: [ORU PV1](#)

---

PV1.39	HL7	SERVICING FACILITY	2	IS
	MT	SERVICING FACILITY	2	ST

### HL7 standard description

This field is used in a multiple facility environment to indicate the healthcare facility with which this visit is associated.

An optional sixth component, the facility ID, may be valued in each individual location field in PV1, instead of placing it here.

Used in Message Segment: [ORU PV1](#)

---

PV1.4	HL7	Admission Type	2	IS
	MT	Admission Priority	2	IS

**HL7 standard description**

Definition: This field indicates the circumstances under which the patient was or will be admitted.

Possible Values are obtained from the MIS ADM Priority Dictionary

Used in Message Segment: [ORU PV1](#)

---

PV1.41	HL7	ACCOUNT STATUS	2	IS
	MT	ACCOUNT STATUS	2	ST

**HL7 standard description**

This field contains the account status.

Used in Message Segment: [ORU PV1](#)

---

PV1.44	HL7	ADMIT DATE/TIME	26	TS
	MT	ADMIT DATE/TIME	12	ST

**HL7 standard description**

This field contains the admit date/time. It is to be used if the event date/time is different than the admit date and time, i.e., a retroactive update. This field is also used to reflect the date/time of an outpatient/emergency patient registration.

Used in Message Segment: [ORU PV1](#)

---

PV1.45	HL7	DISCHARGE DATE/TIME	26	TS
	MT	DISCHARGE DATE/TIME	26	ST

**HL7 standard description**

This field contains the discharge date/time. It is to be used if the event date/time is different than the discharge date and time, that is, a retroactive update. This field is also used to reflect the date/time of an outpatient/emergency patient discharge.

Used in Message Segment: [ORU PV1](#)

---

PV1.7	HL7	ATTENDING DOCTOR	250	XCN
	MT	ATTENDING DOCTOR	250	CM

### HL7 standard description

This field contains the attending physician information. Multiple names and identifiers for the same physician may be sent. The field sequences are not used to indicate multiple attending doctors. The legal name must be sent in the first sequence. If the legal name is not sent, then a repeat delimiter must be sent in the first sequence. Depending on local agreements, either ID or the name may be absent in this field.

Used in Message Segment: [ORU PV1](#)

---

<b>PV1.8</b>	<b>HL7</b>	<b>REFERRING DOCTOR</b>	<b>250</b>	<b>XCN</b>
	<b>MT</b>	<b>REFERRING DOCTOR</b>	<b>250</b>	<b>CM</b>

### HL7 standard description

This field contains the referring physician information. Multiple names and identifiers for the same physician may be sent. The field sequences are not used to indicate multiple referring doctors. The legal name must be sent in the first sequence. If the legal name is not sent, then a repeat delimiter must be sent in the first sequence. Depending on local agreements, either the ID or the name may be absent from this field.

Used in Message Segment: [ORU PV1](#)

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<b>PV1.9</b>	<b>HL7</b>	<b>CONSULTING DOCTOR</b>	<b>250</b>	<b>XCN</b>
	<b>MT</b>	<b>CONSULTING DOCTOR</b>	<b>250</b>	<b>XCN</b>

### HL7 standard description

Definition: This field has been retained for backward compatibility only. It is recommended to use the ROL - Role segment for consulting physicians instead. This field contains the consulting physician information. The field sequences are used to indicate multiple consulting doctors. Depending on local agreements, either the ID or the name may be absent from this field. Refer to User-defined Table 0010 - Physician ID for suggested values.

Used in Message Segment: [ORU PV1](#)

---

<b>PV117</b>	<b>HL7</b>	<b>ADMITTING DOCTOR</b>	<b>250</b>	<b>XCN</b>
	<b>MT</b>	<b>ADMITTING DOCTOR</b>	<b>250</b>	<b>CM</b>

### HL7 standard description

This field contains the admitting physician information. Multiple names and identifiers for the same physician may be sent. The field sequences are not used to indicate multiple admitting doctors. The legal name must be sent in the first sequence. If the legal name is not sent, then a repeat delimiter must be sent in the first sequence. By local agreement, the name or ID may be absent in this field. Refer to User-defined Table 0010 - Physician ID for suggested values.

Used in Message Segment: [ORU PV1](#)

---

PV118	HL7	PATIENT TYPE	2	IS
	MT	PATIENT TYPE	2	ST

**HL7 standard description**

This field contains site-specific values that identify the patient type.

Used in Message Segment: [ORU PV1](#)

---

PV2.10	HL7	Estimated Length of Inpatient	3	NM
	MT	Estimated Length of Inpatient	4	NM

**HL7 standard description**

This field specifies the estimated days of inpatient stays.

Used in Message Segment: [ORU PV2](#)

---

PV2.12	HL7	Visit Description	50	ST
	MT	Admit Comment	50	ST

**HL7 standard description**

This field contains a brief user-defined description of the visit.

- Component 1: Admit Comment
- Component 2: Smoke Objections
- Component 3: Entry code (Canada only)
- Component 4: Entry code name (Canada only)

Used in Message Segment: [ORU PV2](#)

---

PV2.16	HL7	Purge Status Code	1	IS
	MT	Confidential Flag	1	IS

**HL7 standard description**

This field contains a confidential flag.

Used in Message Segment: [ORU PV2](#)

---

PV2.2	HL7	Accomodation Code	250	CE
	MT	Accomodation Code	10	CE

**HL7 standard description**

This field indicates the specific patient accommodations for this visit in the following format:

- Component 1: Accommodation mnemonic



Component 2: Accommodation name  
Component 3: Accommodation mnemonic

Used in Message Segment: [ORU PV2](#)

---

PV2.22	HL7	Visit Protection Indicator	1	ID
	MT	Confidential Flag	1	ID

**HL7 standard description**

This field contains a confidential flag.

Used in Message Segment: [ORU PV2](#)

---

PV2.3	HL7	Admit Reason	250	CE
	MT	Admit Reason	50	CE

**HL7 standard description**

This field contains the short description of the reason for patient admission.

Used in Message Segment: [ORU PV2](#)

---

PV2.8	HL7	Expected Admit Date/Time	26	TS
	MT	Decision to Admit Date/Time	26	TS

**HL7 standard description**

This field contains the date and time of the decision to admit.

Component 1: Date

Component 2: Time

Used in Message Segment: [ORU PV2](#)

---

XX.SITE	HL7	Collection Volume	20	CE
	MT	Ordering Site	10	CE

**HL7 standard description**

This field contains the Ordering Site Mnemonic and description separated by a component character.

Used in Message Segment: [ORU OBR](#)

---

XX583	HL7	PRODUCER'S ID	60	CE
	MT	PRODUCER'S ID	60	AN

**HL7 standard description**

Component 1 contains the performing site mnemonic for the test/procedure whose result is being reported in field 5 of the current OBX segment.

Component 2 contains the name/description associated with that site mnemonic in the LAB LIS Site dictionary

Component 3 = "L"

Used in Message Segment: [ORU\\_OBX](#)