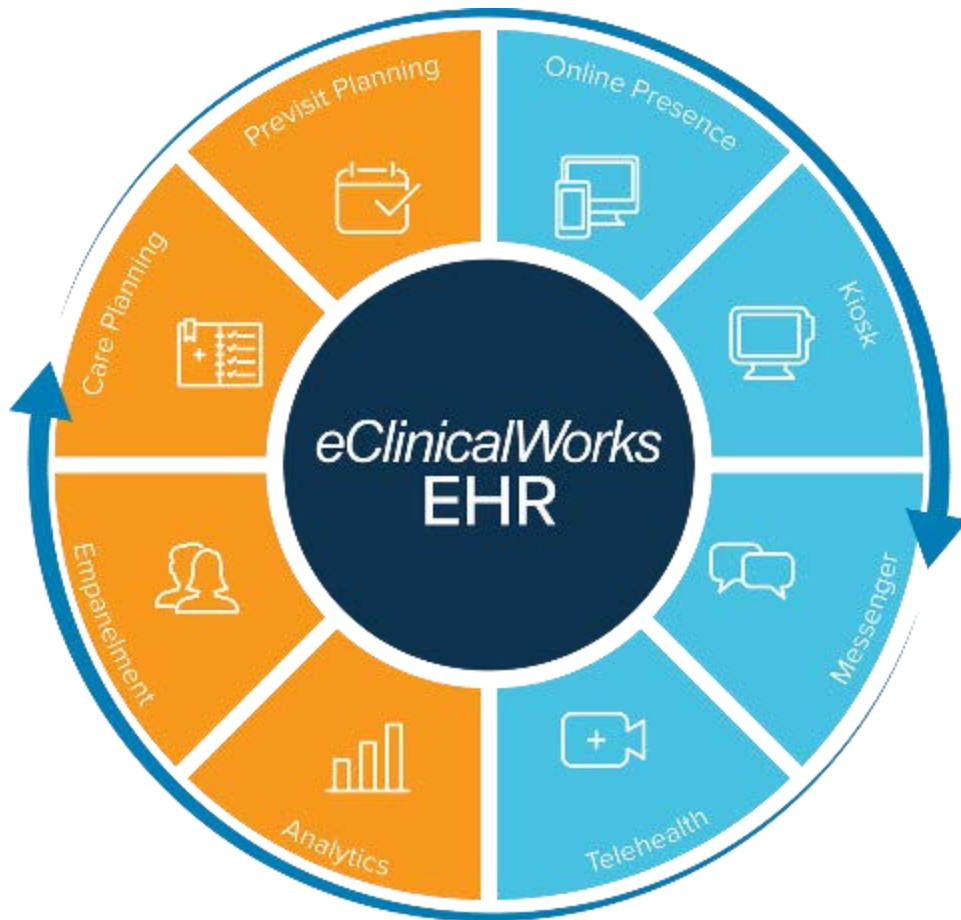


eClinicalWorks

HL7 LAB RESULTS SPECIFICATIONS V 2.3

August 2022



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HL7 LAB RESULTS SPECIFICATIONS

The HL7 results specifications described in this section for eClinicalWorks® are:

- Transaction Structure
- Message Delimiters
- Conventions
- MSH - Message Header Segment
- PID - Patient Identification
- PV1 - Patient Visit
- ORC - Common Order Segment
- OBR - Observation Request Segment
- OBX - Observation/Result Segment
- NTE - Notes and Comments
- Sample Lab Message
- Sample Microbiology Culture Message
- Sample Pathology Message

Transaction Structure

The following table outlines the transaction structure section of the HL7 message:

| Name | Description | Comments |
|------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MSH | Message Header | This segment should always be present in the ORU message. |
| PID | Patient Identification | There should be a PID segment to give the patient demographic information. |
| PV1 | Patient Visit | PV1 segment, if present, will be used for determining the Physician Information. |
| ORC | Common Order | If present, there is only one ORC segment in the ORU message. |
| OBR | Observation Request | Order level information is retrieved from this segment and is a required segment. |
| OBX | Observation Result | Result level information is retrieved from this segment. |
| NTE | Notes and Comments | <ul style="list-style-type: none">▪ This segment contains the comments for the order.▪ NTE segments can be received at PID, OBR, or OBX levels. |

Hierarchy

In the following hierarchy, braces ({}) indicate where multiple items are allowed, and brackets ([]) indicate items that are optional:

MSH Message Header

PID Patient Identification

[PV1] Patient Visit Info

[ORC] Common Order

{

OBR Observation Request

OBX Observation Result

[NTE] Notes and Comments

}

Message Delimiters

The following table outlines the message delimiters:

| Character Function | Character |
|----------------------|-----------|
| Segment Terminator | <CR> LF |
| Field Separator | (pipe) |
| Component Separator | ^ (caret) |
| Repetition Separator | ~ (tilde) |

Conventions

The following table outlines the conventions:

| Character Function | Character |
|-----------------------------------------------------------|-----------|
| Required field - this should always be sent | R |
| Optional field - this info will be processed if available | O |
| Not Supported | N |

MSH - Message Header Segment

The Message Header (MSH) segment defines the intent, source, destination, and some specifics of the syntax of a message:

| Field Name | Segment Name | Comment | Len | R/O/N |
|-----------------------|--------------|------------------------------------------------------------------------------------|-----|-------|
| Segment Type ID | MSH.00 | MSH | 3 | R |
| Encoding Characters | MSH.01 | ^~\& | 4 | R |
| Sending Application | MSH.02 | Sending Application | 30 | O |
| Sending Facility | MSH.03 | Sending Facility | 30 | O |
| Receiving Application | MSH.04 | Receiving Application | 30 | O |
| Receiving Facility | MSH.05 | Receiving Facility | 30 | O |
| Message Date & Time | MSH.06 | Format: YYYYMMDDHHMMSS | 14 | O |
| Security | MSH.07 | Not Supported | — | N |
| Message Type | MSH.08 | ORU^R01 | 7 | R |
| Message Control ID | MSH.09 | A number that uniquely identifies the message | 60 | R |
| Processing ID | MSH.10 | <ul style="list-style-type: none"> ▪ P-Production ▪ T-Test | 1 | O |
| Version ID | MSH.11 | 2.x | 8 | O |

Sample Output:

```
MSH|^~\&|ECW|TEST6600|1100|BN|201505021451|ORU^R01||P|2.x
```

PID - Patient Identification

The Patient Identifier (PID) segment is used by all applications as the primary means of communicating patient identification information. This segment contains permanent patient identifying and demographic information that is not likely to change frequently:

| Field Name | Segment Name | Comment | Len | R/O/N |
|-----------------|--------------|-------------------------------|-----|-------|
| Segment Type ID | PID.00 | PID | 3 | R |
| Sequence Number | PID.01 | Serial Number starting from 1 | 4 | R |

| Field Name | Segment Name | Comment | Len | R/O/N |
|--------------------------|--------------|--------------------------------------------|-----|-------|
| Patient ID (Internal ID) | PID.02 | Patient ID | 20 | O |
| Patient ID (External ID) | PID.03 | Patient MRN | 20 | O |
| Alternate Patient ID | PID.04 | eClinicalWorks Patient Account Number | 20 | O |
| Patient Name | PID.05 | Last Name 60^First Name 60^MI 60 | 180 | R |
| Mother's Maiden Name | PID.06 | Not Supported | — | N |
| Date of Birth | PID.07 | YYYYMMDD | 8 | R |
| Sex | PID.08 | F - Female M - Male U - Unknown | 1 | O |
| Patient Alias | PID.09 | Not Supported | — | N |
| Race | PID.10 | Not Supported | — | N |
| Patient Address | PID.11 | Addr1 60^Addr2 50^City 25^State10^Zip12 | 161 | O |
| County Code | PID.12 | Not Supported | — | N |
| Phone number - Home | PID.13 | NNNNNNNNNN | 10 | O |
| Phone number - Business | PID.14 | Not Supported | — | N |
| Primary Language | PID.15 | Not Supported | — | N |
| Marital Status | PID.16 | Not Supported | — | N |
| Religion | PID.17 | Not Supported | — | N |
| Patient Account Number | PID.18 | eClinicalWorks Patient Account Number | 20 | O |
| SSN# - Patient | PID.19 | NNNNNNNNNN | 9 | O |

Sample Output:

```
PID|1|7779|||Test^Test^||19670502|F||C|123 HIGH
WAY^^Westboro^MA^01581||5085085085|||32801465|999999999
```

PV1 - Patient Visit

The PV1 segment is used to communicate information on a visit-specific basis and is not a required segment for the ORU Message:

| Field Name | Segment Name | Comment | Len | R/O/N |
|---------------------------|--------------|---------------------------------------------------|-----|-------|
| Segment Type ID | PV1.00 | PV1 | 3 | R |
| Sequence Number | PV1.01 | Serial Number starting from 1 | 4 | R |
| Patient Class | PV1.02 | Not Supported | — | N |
| Assigned Patient Location | PV1.03 | Account Number | 20 | O |
| Admission Type | PV1.04 | Not Supported | — | N |
| Pre-admit Number | PV1.05 | Not Supported | — | N |
| Prior Patient Location | PV1.06 | Not Supported | — | N |
| Attending Doctor | PV1.07 | Provider Code 20^Last Name 60^FirstName 60 ^MI 60 | 200 | R |
| Referring Provider | PV1.08 | Provider Code 20^Last Name 60^FirstName 60 ^MI 60 | 200 | O |
| Visit ID | PV1.19 | Customer-Specific Accessioning | 11 | O |

Sample Output:

```
PV1|1|||110011|||C9999^TEST^DOCTOR^L|G8888^REF^PHY|||38808
```

ORC - Common Order Segment

The Common Order (ORC) segment is used to receive fields that are common to all results in the given message (all types of services that are requested). The ORC segment is not required in the ORU message:

| Field Name | Segment Name | Comment | Len | R/O/N |
|---------------------|--------------|--------------------------------|-----|-------|
| Segment Type ID | ORC.00 | ORC | 3 | R |
| Order Control | ORC.01 | Not Supported | 4 | N |
| Place Order Number | ORC.02 | Customer Specific Accessioning | 11 | R |
| Filler Order Number | ORC.03 | Not Supported | — | N |
| Placer Group Number | ORC.04 | Not Supported | — | N |

| Field Name | Segment Name | Comment | Len | R/O/N |
|--------------------------|--------------|---------------------------------------------------|-----|-------|
| Order Status | ORC.05 | Not Supported | — | N |
| Response Flag | ORC.06 | Not Supported | — | N |
| Quantity/Timing | ORC.07 | Not Supported | — | N |
| Parent | ORC.08 | Not Supported | — | N |
| Date/Time of Transaction | ORC.09 | YYYYMMDDHHMMSS | 14 | O |
| Entered By | ORC.10 | Not Supported | — | N |
| Verified By | ORC.11 | Not Supported | — | N |
| Ordering Provider | ORC.12 | Provider Code 20^Last Name 60^FirstName 60 ^MI 60 | 200 | R |

Sample Output:

```
ORC|NW|38808||| ||| |201503021451|| |C9999^TEST^TEST^L
```

OBR - Observation Request Segment

At least one OBR segment should be present for each Order Code associated with any PID segment. This segment is mandatory in ORU messages:

| Field Name | Segment Name | Comment | Len | R/O/N |
|--------------------------------|--------------|----------------------------------------------------|-----|-------|
| Segment Type ID | OBR.00 | OBR | 3 | R |
| Sequence Number | OBR.01 | Serial Number starting from 1 | 4 | R |
| Placer Order Number | OBR.02 | Customer Specific Accessioning | 20 | R |
| Filler Order Number | OBR.03 | Vendor Specimen ID | 35 | R |
| Observation Battery Identifier | OBR.04 | Test Code 60^TestName 255 | 315 | R |
| Priority | OBR.05 | Not Supported | — | N |
| Requested Date/Time | OBR.06 | Not Supported | — | N |
| Collection Date and Time | OBR.07 | Collection date and time Format: YYYYMMDDHHMMSS | 26 | R |
| Observation End Date/Time # | OBR.08 | Not Supported | — | N |
| Collection Volume | OBR.09 | Not Supported | — | N |

| Field Name | Segment Name | Comment | Len | R/O/N |
|----------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----|-------|
| Collector Identifier | OBR.10 | Not Supported | — | N |
| Specimen Action Code | OBR.11 | Not Supported | — | N |
| Danger Code | OBR.12 | Not Supported | — | N |
| Relevant Clinical Information | OBR.13 | Clinical Information | 20 | O |
| Specimen Received Date/Time | OBR.14 | Not Supported | — | N |
| Specimen Source | OBR.15 | Specimen Source 30^Specimen Description 255 | 275 | O |
| Ordering Provider | OBR.16 | Provider Code 20^Last Name 60^FirstName 60^MI 60 | 200 | R |
| Ordering Provider's Phone Number | OBR.17 | Not Supported | — | N |
| Alternate Specimen ID | OBR.18 | Not Supported | — | N |
| Result Date/Time # | OBR.22 | Result Date/ Time # Format YYYYMMDDHHMMSS | 26 | O |
| Performing Lab | OBR.23 | LabName^LabAddr1^LabAddr2^LabAddrCity^LabAddrState^LabAddrZip^LabPhone^LabDirTitle^LabDirName | 235 | O |
| Result Status | OBR.25 | <ul style="list-style-type: none"> ▪ P - Preliminary ▪ F - Final ▪ C - Corrected ▪ X - Cancel | 1 | O |
| Priority | OBR.26 | Not Supported | — | N |
| Courtesy Copies To | OBR.28 | CC List ~ Separated Provider Code 20^Last Name 60^FirstName 60^MI 60 | 140 | O |
| Link to Parent Order | OBR.29 | Parent Test Code 20^TestName 255 | 275 | O |

Sample Output:

```
OBR|1|38808||010801^Alphafetoprotein|||201505260900|||c9999^
Test^Test||13005|||LabCompany^12Oak
St^^Seattle^WA^12345^^^|F||C4321^Jones^Mary|011234
```

OBX - Observation/Result Segment

This segment required. It contains the values corresponding to the results:

| Field Name | Segment Name | Comment | Len | R/O/N |
|-------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|
| Segment Type ID | OBX.00 | OBX | 3 | R |
| Sequence Number | OBX.01 | Serial Number starting from 1 | 4 | R |
| Type Value | OBX.02 | CE - Coded Entry NM - Numeric ST - String Data TX - Text | 2 | R |
| Observation Identifier | OBX.03 | Result Code 20^Result Name 200 | 200 | R |
| Observation Sub-ID | OBX.04 | Not Supported | — | N |
| Observation Value | OBX.05 | Observation Value | 200 | R |
| Units | OBX.06 | Units | 15 | R |
| References Range | OBX.07 | Reference Range | 40 | R |
| Abnormal Flags | OBX.08 | Sample Values: <ul style="list-style-type: none"> ▪ L - Below Normal ▪ H - Above Normal ▪ LL - Alert Low ▪ HH - Alert High | 2 | R |
| Probability | OBX.09 | Not Supported | — | N |
| Nature of Abnormal Test | OBX.10 | Not Supported | — | N |
| Observation Result Status | OBX.11 | <ul style="list-style-type: none"> ▪ P - Preliminary ▪ F - Final ▪ C - Corrected ▪ X - Cancel | 1 | O |
| Date Last Observation Normal Values | OBX.12 | Not Supported | — | N |
| User Defined Access Checks | OBX.13 | Not Supported | — | N |
| Date/Time of the Observation | OBX.14 | Not Supported | — | N |

| Field Name | Segment Name | Comment | Len | R/O/N |
|---------------|--------------|---------|-----|-------|
| Producer's ID | OBX.15 | CODE | 60 | O |

Sample Output:

```
OBX|1|NM|001818^GLUCOSE^L||100||65-109|||F||201405291024|RN
```

NTE - Notes and Comments

The Notes and Comments (NTE) segment contains notes and comments for lab results and is optional:

| Field Name | Segment Name | Comment | Len | R/O/N |
|-------------------|--------------|-------------------------------|-----|-------|
| Segment Type ID | NTE.00 | NTE | 3 | R |
| Sequence Number | NTE.01 | Serial Number starting from 1 | 4 | R |
| Source of Comment | NTE.02 | Source of Comment | 8 | O |
| Comment | NTE.03 | Comment | 255 | R |

Sample Output:

```
NTE|1|NON-FASTING
```

Sample Lab Message

```
MSH|^~\&|ECLI|TEST6600|1100|BN|20150109115934||ORU^R01||T|2.3
PID|1|1111018||TEST^TEST^T|19810828|M||50 MEMORIAL
DRIVE^^NEWPORT^RI^02840||4563460987|||223449087
PV1|1|||||A12345^Willis^Sam^A|A12345^Willis^Sam^A|||||
OBR|1|53510||1126^5'NUCLEOTIDASE||201501051726|||||A12345^Willis
^Sam|||||So
uth West CLINICAL LAB - REFERENCE LAB- BURLINGTON,NC||F||||
OBX|1|NM|1126^5'NUCLEOTIDASE||38|IU/L|0 - 10|H||F||||
NTE|1||Test was requested by Dr Willis
NTE|2||*** PLEASE NOTE REFERENCE RANGE CHANGE AS OF 10/31/05
OBR|2|53510||962^BASIC METABOLIC
```

PANEL|||201501061726|||||||A12345^Willis^Sam|||||South West
CLINICAL LAB -

REFERENCE LAB- BURLINGTON,NC|F||||

NTE|1||Test was requested by Dr Willis

NTE|1||Test was performed at lab

OBX|1|NM|1001^GLUCOSE||82|MG/DL|70 - 110|||F

OBX|2|NM|1002^BUN||9|MG/DL|10 - 26|L||F

OBX|3|NM|1003^CREATININE||0.8|MG/DL|0.6 - 1.6|||F

OBX|4|NM|1004^BUN/CREAT RATIO||12.5|||||F

OBX|5|NM|1008^CALCIUM||10.8|MG/DL|8.3 - 10.6|H||F

OBX|6|NM|1019^SODIUM||137|MEQ/L|135 - 145|||F

OBX|7|NM|1021^POTASSIUM||4.4|MEQ/L|3.5 - 5.0|||F

NTE|1||Reference Range has been updated

OBX|8|NM|1022^CHLORIDE||104|MEQ/L|98 - 108|||F

OBX|9|NM|1023^CARBON DIOXIDE||25|MEQ/L|23 -

33|||FOBX|3|NM|1003^CREATININE||0.8|MG/DL|0.6 - 1.6|||F

OBX|4|NM|1004^BUN/CREAT RATIO||12.5|||||F

OBX|5|NM|1008^CALCIUM||10.8|MG/DL|8.3 - 10.6|H||F

OBX|6|NM|1019^SODIUM||137|MEQ/L|135 - 145|||F

OBX|7|NM|1021^POTASSIUM||4.4|MEQ/L|3.5 - 5.0|||F

NTE|1||Reference Range has been updated

OBX|8|NM|1022^CHLORIDE||104|MEQ/L|98 - 108|||F

OBX|9|NM|1023^CARBON DIOXIDE||25|MEQ/L|23 - 33|||F

Sample Microbiology Culture Message

MSH|^~\&|SQ|1000880|HCM||20150313102244||ORU^R01|20062850000002|T|2.2
||||

PID|||8020725^^||HCP^OUTPAT TWO^||19760523|M|^|||||||0408351538|998
020725

NTE||ADDRESS and Phone numbers|Reference
laboratories~Springfield~MA~01199~(123)

789-2357~FAX (456) 678-0987

PV1||O|HPSP^||||10622^Willis*^^JAN B.

MD|^|||||ROP|||||20060830000|200609290000|

ORC|RE|167437090|||||20150315102243|||10178^Jones*^^Mary M|||^|

OBR||167437090||54825^URINE

CULTURE|||201503210100|||||201409210101|URINE^URINE|00178^PIERANGEL
O*^^DAVID MD

(BOYLSTO||1.0||W1634|||MC^MB|F|^R|^~^~^|

OBX|1|ST|56229SD^SPECIMEN

DESCRIPTION|1|URINE|||||F|||200609210752|L^MAIN LAB

(BMC)|546^POIRIER^ GARY T

OBX|2|ST|56229SR^SPECIAL REQUESTS|1|NONE|||||F|||200609210752|L^MAIN
LAB

(BMC)|546^POIRIER^ GARY T

OBX|3|ST|56229CU^CULTURE|1|>100,000 COL/ML PROVIDENCIA

RUSTIGIANII|||||F|||200610131021|M^MICROBIOLOGY LAB|164^MURLEY-
KELLS^ KAREN

OBX|4|ST|56229CU^CULTURE|2|<10,000 COL/ML DIPHTHEROID BACILLI
ISOLATED.

SUSCEPTIBILITY TESTING NOT|||||P|||200610131021|M^MICROBIOLOGY
LAB|164^MURLEYKELLS^

KAREN

OBX|5|ST|56229CU^CULTURE|3|ROUTINELY PERFORMED ON THIS

ISOLATE.|||||P|||200610131021|M^MICROBIOLOGY LAB|164^MURLEY-KELLS^
KAREN

OBX|6|ST|56229RS^REPORT STATUS|1|FINAL

10122006|||||F|||200610131021|M^MICROBIOLOGY LAB|164^MURLEY-KELLS^
KAREN

OBX|7|FT|ZZ00OR^ORGANISM|1|ORGANISM >100,000 COL/ML PROVIDENCIA

RUSTIGIANII|||||F|||200610131021|M^MICROBIOLOGY LAB|164^MURLEY-
KELLS^ KAREN

OBX|8|FT|ZZ00ME^METHOD|1|METHOD MIN. INH.
CONC.|||||F|||200610131021|M^MICROBIOLOGY LAB|164^MURLEY-KELLS^
KAREN

OBX|9|FT|ZZ00^SUSCEPTIBILITY|1|AMPICILLIN RESISTANT||R|
|||F|||200610131021|M^MICROBIOLOGY LAB|164^MURLEY-KELLS^ KAREN

OBX|10|FT|ZZ00^SUSCEPTIBILITY|1|CEFAZOLIN
RESISTANT||R|||F|||200610131021|M^MICROBIOLOGY LAB|164^MURLEY-KELLS^
KAREN

OBX|11|FT|ZZ00^SUSCEPTIBILITY|1|CEFEPIME
SUSCEPTIBLE||S|||F|||200610131021|M^MICROBIOLOGY LAB|164^MURLEY-
KELLS^ KAREN

OBX|12|FT|ZZ00^SUSCEPTIBILITY|1|CEFOTETAN
SUSCEPTIBLE||S|||F|||200610131021|M^MICROBIOLOGY LAB|164^MURLEY-
KELLS^ KAREN

OBX|13|FT|ZZ00^SUSCEPTIBILITY|1|CEFTRIAZONE
SUSCEPTIBLE||S|||F|||200610131021|M^MICROBIOLOGY LAB|164^MURLEY-
KELLS^ KAREN

OBX|14|FT|ZZ00^SUSCEPTIBILITY|1|CIPROFLOXACIN
RESISTANT||R|||F|||200610131021|M^MICROBIOLOGY LAB|164^MURLEY-KELLS^
KAREN

OBX|15|FT|ZZ00^SUSCEPTIBILITY|1|GENTAMICIN
SUSCEPTIBLE||S|||F|||200610131021|M^MICROBIOLOGY LAB|164^MURLEY-
KELLS^ KAREN

OBX|16|FT|ZZ00^SUSCEPTIBILITY|1|IMIPENEM
SUSCEPTIBLE||S|||F|||200610131021|M^MICROBIOLOGY LAB|164^MURLEY-
KELLS^ KAREN

OBX|17|FT|ZZ00^SUSCEPTIBILITY|1|LEVOFLOXACIN
INTERMEDIATE||I|||F|||200610131021|M^MICROBIOLOGY LAB|164^MURLEY-
KELLS^ KAREN

OBX|18|FT|ZZ00^SUSCEPTIBILITY|1|NITROFURANTOIN
SUSCEPTIBLE||S|||F|||200610131021|M^MICROBIOLOGY LAB|164^MURLEY-
KELLS^ KAREN

OBX|19|FT|ZZ00^SUSCEPTIBILITY|1|PIPERACILLIN/TAZOBAC

SUSCEPTIBLE||S||||F|||200610131021|M^MICROBIOLOGY LAB|164^MURLEY-
KELLS^ KAREN

OBX|20|FT|ZZ00^SUSCEPTIBILITY|1|TRIMETH/SULFAMETHOX

SUSCEPTIBLE||S||||F|||200610131021|M^MICROBIOLOGY LAB|164^MURLEY-
KELLS^ KAREN

Sample Pathology Message

Example 1:

```
MSH|^~\&|COPATHPLUS||HIS||20140314133800||ORU^R01|1006|P|2
PID|1||2|54321|TEST^TEST||19780726|F|||||9133333333
ORC|RE||PRS07^PathPlus||CM|||200707260932|CLW^Wiser^Cindy
OBR|1||PRS07^CoPathPlus|HIS^Histology||201404140000|||||2014041409
31||12345^Wil
lis^Sam|||||200804140931||SP|C|||||12345^Willis^Sam|
OBX|1|TX|PATHOLOGY REPORT^PATHOLOGY REPORT||PATIENT: TEST,
PATIENT\.br\DOB/AGE/SEX: 3/13/1963 (Age: 44) F\.br\PHONE:
9133333333\.br\ACCT #: \.br\PATIENT #: 54321\.br\\.br\GROSS
PATHOLOGY:\.br\A.

The specimen is submitted in formalin, labeled "cervical biopsy at 10
o'clock ".

Received is a segment of whitish-tan soft tissue measuring \S\ cm in
maximum

dimensions. The tissue is submitted in its entirety in cassette
A1\.br\\.br\B.

The specimen is submitted in formalin, labeled "cervical biopsy at 11
o'clock ".

Received is a segment of whitish-tan soft tissue measuring \S\ cm in
maximum

dimensions. The tissue is submitted in its entirety in cassette
B1\.br\\.br\C.

The specimen is submitted in formalin, Labeled "skin". The tissue is
submitted in

its entirety in cassette C1\.br\|||||C
```

Example 2:

```

MSH|^~\&|COPATHPLUS||HIS||20140304080700||ORU^R01|1069373|P
PID|1||2|^05300|test^test||19780726|F||LANE^KANSAS
CITY^MO^64114^United
States||111-111-1111|||||111-11-1111
ORC|RE||PRC08^CoPathPlus|CM||||200802251207|^xxxx^xxxxx||12345^Willi
s^Sam^N
OBR|1||PRC084117^CoPathPlus|CYT^Cytology||201404140000|||||2014041
40000||12345^
Willis^Sam|||||200804140000||SP|F|
OBX|1|TX|Report^Report|||||||F
NTE|1||GYNECOLOGIC CYTOLOGY REPORT
NTE|2||
NTE|3||
NTE|4||CLINICAL HISTORY: Annual gyn exam
NTE|5|
NTE|6|
NTE|7||LMP/MENSTRUAL HISTORY: LMP: 01/25/08
NTE|8|
NTE|9||
NTE|10||SPECIMEN TYPE/SOURCE: Cytoc ThinPrep Pap -
vaginal/cervical/endocervical
NTE|11||# OF SLIDES: 1
NTE|12||

```


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