Laboratory and Radiology
Specification

Version 01
12.19.2023

Table of Contents

1. Overview

This specification is for provider organizations, hospitals and laboratories to send result data, register clinical trials, and for other medical reporting purposes. Connie prefers ORU messages over MDM messages but can accept either.

2. Order Entry -HL7 ORM

The HL7 Order Entry (ORM) message is a commonly used message type used to transmit orders for clinical services or procedures. It contains information about the patient, the requested service, pertinent dates, and other specifics required for carrying out the order. Common uses of ORM messages include ordering prescription drugs, scheduling laboratory tests, and requesting radiology exams. ORM messages are most commonly within Radiology and Laboratory departments. Unlike some other HL7 messages, the ORM message only has one type: ORM^O01.

While messages are mostly used for patient-specific orders, they can also be used for a medical department (e.g. emergency ward) or for a non-patient order (e.g. resources for a study that doesn't involve patients).

2.1. ORM Message Details

Segment	Description
MSH	**Message Header.** This segment contains information about the message sender and receiver, the date and time that the message was created. This segment is required.
PID	**Patient Identification.** In this example, the ORM message being sent is related to a particular patient, and therefore it needs to include patient-specific information such as the patient identifier, name, date of birth, etc. If the order was not created for a particular patient, this segment would not be included in the overall message. This segment is required.
[PD1]	**Patient Additional Demographics.** Here is where you would include the name and ID number of the primary facility where a patient is receiving care, as well as the name and ID number of the ordering provider. This segment is optional.
PV1	**Patient Visit.** This segment contains information about patient visit details such as servicing facility, attending doctor, and visit ID. This segment is required.
ORC	**Common Order.** Here is where the order details are held. Patient orders are typically classified as New Orders (NW), so this distinction is included in this example. Additionally, information about the order number from the source system, the order number for the filing system, and the date and time of when the order was created. It also contains the ordering provider, the order transcriber, the facility or department ID related to the order, and the callback information for any questions about the order are all contained within this segment. This segment is required.
OBR	**Observation Request**. If an order requires additional information, such as medical codes that identify the reason for the order, it would be included in this segment. Information about the ordering provider and the results interpreter would be included here as well. This segment is conditional.
[DG1]	**Diagnosis**. Medical contexts, such as ICD-10 codes describing the diagnosis, are provided here so billing systems to properly identify and apply charges for the procedure. This segment is optional.
[ ] = optional, { } = repeating	

3. Observation Result -HL7 ORU

An HL7 Observation Result (ORU) message contains information about a patient's clinical observations and is used in response to an order generated in a clinical system (HL7 ORM message).

ORU messages are most commonly used within the context of EKG studies, laboratory results, imaging studies, and medical interpretations. They have also been used to communicate order and results information for the purpose of clinical trials (e.g. drug development). It is important to note that ORU messages do not natively contain images, but use a combination of text, codes and numbers to communicate results.

The ORU message has only two different message types:

ORU^R01 - Unsolicited transmission of an observation result.

This message is generated when results from the receiving (results) system (LIS, RIS, EKG) need to be communicated to the sending (ordering) system (HIS, EMR)

3.1. ORU Message Details

Segment	Description
MSH	**Message Header.** This segment is a mandatory part of an ORU message, and contains information about the message sender and receiver, the date and time that the message was created. This segment is required.
PID	**Patient Identification.** An ORU message is a patient-specific message type, and must be linked to a particular patient. Therefore, patient information such as the patient identifier, name, date of birth, etc. must be included in an ORU. This segment is required.
PV1	**Patient Visit**. This segment contains information about patient visit details such as servicing facility, attending doctor, and visit ID. This segment is required.
OBR	**Observation Request**. This segment identifies the observation that was ordered in order to generate the ORU message. This segment is required.
[{OBX}]	**Observation Segment.** Here is where information about the observation results is held. An OBX segment is used to communicate a single observation, so multiple observations would require this segment to repeat. This segment is optional and can be repeating.
[{NTE}]	**Notes Segment.** Here is where notes and comments about the observation results and often follows the OBX segment. This segment is optional but preferred and can be repeating.
[{CTI}]	**Clinical Trial Identification.** This is an optional segment and is only used if the results need to be linked to a clinical trial. Information such as the trial ID, study phase, and time point is included here. This segment is optional and can be repeating.
[ ] = optional, { } = repeating	

4. Transcription - HL7 MDM

The HL7 Medical Document Management (MDM) message contains information about a new or updated notes or documents.

MDM messages are typically used by Radiology departments to communicate provider transcriptions, order information and document contents. These messages either update other healthcare systems to identify available reports in the transcription system and can also provide the documents contents. The most commonly used MDM message is the MDM-02, similar to an HL7 ORU message, notifying a system of the creation of a document and providing the document contents.

4.1. MDM Message Details

Segment	Description
MSH	**Message Header.** This segment is a mandatory part of the MDM message, and contains information about the message sender and receiver, the date and time that the message was created. This segment is required.
EVN	**Event Type.** Communicates the event that occurred for the message to be generated. This segment is a crucial part of the data flow, as it indicates where and when a message is sent based on the type of event. This is a required segment and T02 is the most common event type.
PID	**Patient Identification.** An MDM message is a patient-specific message type, and must be linked to a particular patient. Therefore, patient information such as the patient identifier, name, date of birth, etc. must be included in an MDM. This segment is required.
PV1	**Patient Visit**. This segment contains information about patient visit details such as servicing facility, attending doctor, and visit ID. This segment is required.
OBR	**Observation Request**. This segment identifies the observation that was ordered in order to generate the ORU message. This segment is required.
TXA	**Document Notification**. Communicates information specific to a transcribed document as a result of a status change. This segment does not include the document contents and is required.
{OBX}	**Observation Segment.** Contains the document contents. This segment is required and is often repeating segments in an MDM.
[ ] = optional, { } = repeating	

5. Segment Details

A full listing of all required, preferred, and optional fields for the required segments can be found here.

    R – Required
    RA – Required if available
    P – Preferred
    O – Optional
    C - Conditional

Messages may contain base-64 encoded PDFs in the following format:

OBX|1|ED|<Observation ID>||^^PDF^^<encoded PDF>|||||||F|||<Observation Date/Time>

Lab Results

CONNIE acknowledges ORU-R01 messages are used to transmit result data, register clinical trials, and for other medical reporting purposes. Observations reported can include clinical lab results, EKG pulmonary study results, patient condition, and other health data.

Minimum Segments Required: PV1, ORC, OBR, OBX, SPM, NTE
The OBR- Observation Request and OBX- Observation segments are the most important segments to include to report important order and observation data.

Radiology Reports

Radiology reports can be sent as ORU-R01 or MDM messages. ORU-R01 is preferred. Alternatively, the result report can be contained in either OBX and/or NTE segments. All radiology and results will be treated as free text. Please send finals only. Radiology messages may include radiology procedure results.

Minimum Segments Required: PV1, ORC, OBR, OBX or NTE

Transcriptions

Transcriptions can be sent as ORU-R01 or MDM messages. All transcription results will be treated as free text. Please send finals only. Transcription messages may include care notes, care alerts, discharge summaries, or lab, radiology or procedure results.

Minimum Segments Required: PV1, ORC (if there's an OBR), OBR or TXA, OBX or NTE

HL7 Element Name	HL7 Segment	LAB	RAD	TRN
MSH – Message Segment Header				
Field Separator	MSH-1	R	R	R
Encoding Characters	MSH-2	R	R	R
Sending Application	MSH-3	R	R	R

Namespace ID	MSH-3.1	R	R	R
Universal ID	MSH-3.2	R	R	R
Universal ID Type	MSH-3.3	R	R	R
Sending Facility (i.e |lab name^CLIA code|CLIA)	MSH-4	R	R	R
Receiving Application	MSH-5	R	R	R
Receiving Facility	MSH-6	R	R	R
Date/Time of Message	MSH-7	R	R	R
Security	MSH-8	O	O	O
Message Type	MSH-9	R	R	R
Message Control ID8	MSH-10	R	R	R
Processing ID	MSH-11	R	R	R
Version ID	MSH-12	R	R	R
Sequence Number	MSH-13	O	O	O
Continuation Pointer	MSH-14	O	O	O
Accept Acknowledgement Type	MSH-15	O	O	O
Application Acknowledgement Type	MSH-16	O	O	O
Country Code	MSH-17	O	O	O
Character Set	MSH-18	O	O	O
Principle Language of Message	MSH-19	O	O	O
Alternate Character Set Handling Scheme	MSH-20	O	O	O
Message Profile Identifier	MSH-21	O	O	O
PID – Patient Identification Segment				
Set ID	PID-1	R	R	R
Patient ID	PID-2	O	O	O
Patient Identifier List	PID-3	O	O	O
Alternate Patient ID	PID-4	O	O	O
Patient Name	PID-5	R	R	R
Mother's Maiden Name	PID-6	O	O	O
Date/Time of Birth	PID-7	R	R	R
Administrative Sex	PID-8	R	R	R
Patient Alias	PID-9	O	O	O
Race	PID-10	R	R	R
Patient Address	PID-11	R	R	R
County Code	PID-12	O	O	O
Home Phone Number	PID-13	P	P	P

Business Phone Number	PID-14	O	O	O
Primary Language	PID-15	O	O	O
Marital Status	PID-16	O	O	O
Religion	PID-17	O	O	O
Patient Account Number	PID-18	O	O	O
SSN Number – Patient	PID-19	O	O	O
Driver's License Number – Patient	PID-20	O	O	O
Mother's Identifier	PID-21	O	O	O
Ethnic Group	PID-22	P	P	P
Birthplace	PID-23	O	O	O
Multiple Birth Indicator	PID-24	O	O	O
Birth Order	PID-25	O	O	O
Citizenship	PID-26	O	O	O
Veterans Military Status	PID-27	O	O	O
Nationality	PID-28	O	O	O
Patient Death Date/Time	PID-29	O	O	O
Patient Death Indicator	PID-30	P	P	P
ORC – Order Common Segment **Note: Required with OBR segment. Transcriptions need the OBR or TXA segment**				
Order Control	ORC-1	R	R	R
Placer Order Number	ORC-2	O	O	O
Filler Order Number	ORC-3	O	O	O
Placer Group Number	ORC-4	O	O	O
Order Status	ORC-5	O	O	O
Response Flag	ORC-6	O	O	O
Quantity/Timing	ORC-7	O	O	O
Parent Order	ORC-8	O	O	O
Date/Time of Transaction	ORC-9	O	O	O
Entered By	ORC-10	O	O	O
Verified By	ORC-11	O	O	O
Ordering Provider	ORC-12	O	O	O
Enterer Location	ORC-13	O	O	O
Call Back Phone Number	ORC-14	O	O	O
Order Effective Date/Time	ORC-15	O	O	O
Order Control Code Reason	ORC-16	O	O	O

Entering Organization	ORC-17	O	O	O
Entering Device	ORC-18	O	O	O
Action By	ORC-19	O	O	O
Advanced Beneficiary Notice Code	ORC-20	O	O	O
Ordering Facility Name	ORC-21	P	P	P
Ordering Facility Address	ORC-22	P	P	P
Ordering Facility Phone Number	ORC-23	P	P	P
Ordering Provider Address	ORC-24	P	P	P
OBR – Observation Request Segment **Note: OBR or TXA segment required for Transcriptions**				
Set ID – OBR	OBR-1	R	R	R
Placer Order Number	OBR-2	C	C	C
Filler Order Number	OBR-3	C	C	C
Universal Service Identifier	OBR-4	R	R	R
Priority	OBR-5	O	O	O
Requested Date/Time	OBR-6	O	O	O
Observation Date/Time	OBR-7	R	R	R
Observation End Date/Time	OBR-8	O	O	O
Collection Volume	OBR-9	O	O	O
Collector Identifier	OBR-10	O	O	O
Specimen Action Code	OBR-11	O	O	O
Danger Code	OBR-12	O	O	O
Relevant Clinical Information	OBR-13	O	O	O
Specimen Received Date/Time	OBR-14	O	O	O
Specimen Source	OBR-15	P	P	P
Ordering Provider	OBR-16	R	R	R
Order Callback Phone Number	OBR-17	O	O	O
Placer Field 1	OBR-18	O	O	O
Placer Field 2	OBR-19	O	O	O
Filler Field 1	OBR-20	O	O	O
Filler Field 2	OBR-21	O	O	O
Results Rpt/Status Chng - Date/Time	OBR-22	C	C	C
Charge to Practice	OBR-23	O	O	O
Diagnostic Serv Sect ID	OBR-24	O	O	O
Result Status	OBR-25	R	R	R*

Parent Result	OBR-26	O	O	O
Quantity/Timing	OBR-27	O	O	O
Result Copies To	OBR-28	O	O	O
Parent	OBR-29	O	O	O
Transportation Mode	OBR-30	O	O	O
Reason for Study	OBR-31	O	O	O
Principal Result Interpreter	OBR-32	O	O	O
Assistant Result Interpreter	OBR-33	O	O	O
Technician	OBR-34	O	O	O
Transcriptionist	OBR-35	O	O	O
Scheduled Date/Time	OBR-36	O	O	O
Number of Sample Containers	OBR-37	O	O	O
Transport Logistics of Collected Sample	OBR-38	O	O	O
Collector's Comment	OBR-39	O	O	O
Transport Arrangement Responsibility	OBR-40	O	O	O
Transport Arranged	OBR-41	O	O	O
Escort Required	OBR-42	O	O	O
Planned Patient Transport Comment	OBR-43	O	O	O
Procedure Code	OBR-44	O	O	O
Procedure Code Modifier	OBR-45	O	O	O
Placer Supplemental Service Information	OBR-46	O	O	O
Filler Supplemental Service Information	OBR-47	O	O	O
Medically Necessary Duplicate Procedure Reason	OBR-48	C	C	C
Result Handling	OBR-49	O	O	O
OBX – Observation Result Segment **Note: OBX or NTE segment required for Radiology Reports and Transcriptions**				
Set ID	OBX-1	R	R	R
Value Type	OBX-2	R	R	R
Observation Identifier	OBX-3	R	R	R
Observation Sub ID	OBX-4	R	R	R
Observation Value	OBX-5	R	R	R
Units	OBX-6	O	O	O
References Range	OBX-7	O	O	O
Abnormal Flags	OBX-8	O	O	O
Probability	OBX-9	O	O	O

Nature of Abnormal Test	OBX-10	O	O	O
Observation Result Status	OBX-11	R	R	R
Date Last Obs Normal Value	OBX-12	O	O	O
User Defined Access Checks	OBX-13	O	O	O
Date/Time of the Observation	OBX-14	R	R	R
Producers Reference	OBX-15	R	R	R
Responsible Observer	OBX-16	O	O	O
Observation Method	OBX-17	O	O	O
SPM – Specimen Segment				
Set ID	SPM-1	RA		
Specimen ID	SPM-2	RA		
Specimen Parents ID	SPM-3	O		
Specimen Type	SPM-4	RA		
Specimen Type Modifier	SPM-5	O		
Specimen Additives	SPM-6	O		
Specimen Collection Method	SPM-7	RA		
Specimen Source Site	SPM-8	RA		
Specimen Source Site Modifier	SPM-9	O		
Specimen Collection Site	SPM-10	O		
Specimen Role	SPM-11	O		
Specimen Collection Amount	SPM-12	O		
Grouped Specimen Count	SPM-13	O		
Specimen Description	SPM-14	RA		
Specimen Handling	SPM-15	O		
Specimen Risk Code	SPM-16	O		
Specimen Collection Datetime	SPM-17	RA		
Specimen Received Datetime	SPM-18	RA		
Specimen Expiration Datetime	SPM-19	O		
Specimen Availability	SPM-20	O		
Specimen Reject Reason	SPM-21	O		
Specimen Quality	SPM-22	O		
Specimen Appropriateness	SPM-23	O		
Specimen Condition	SPM-24	O		
Specimen Current Quantity	SPM-25	O		
Number of Specimen Containers	SPM-26	O		

Container Type	SPM-27	O		
Container Condition	SPM-28	O		
Specimen Child Role	SPM-29	O		
NTE – Notes and Comments Segment **Note: OBX or NTE segment required for Radiology Reports and Transcriptions**				
Set ID	NTE-1	RA	R	R
Source of Comment	NTE-2	RA	R	R
Comment	NTE-3	RA	R	R
Comment Type	NTE-4	RA	R	R
TXA – Transcription Segment **Note: OBR or TXA segment required for Transcriptions**				
Set ID	TXA-1			R
Document Type	TXA -2			R
Document Content Presentation	TXA -3			C
Activity Datetime	TXA -4			O
Primary Activity Provider Code/Name	TXA -5			C
Origination Date/Time	TXA -6			O
Transcription Date/Time	TXA -7			C
Edit Date/Time	TXA -8			O
Originator Code/Name	TXA -9			O
Assigned Document Authenticator	TXA -10			O
Transcriptionist Code/Name	TXA -11			C
Unique Document Number	TXA -12			R
Parent Document Number	TXA -13			C
Placer Order Number	TXA -14			O
Filler Order Number	TXA -15			O
Unique Document File Name	TXA -16			O
Document Completion Status	TXA -17			R
Document Confidentiality Status	TXA -18			O
Document Availability Status	TXA -19			O
Document Storage Status	TXA -20			O
Document Change Reason	TXA -21			C
Authentication Person ,Time Stamp	TXA -22			C
Distributed Copies	TXA -23			O

6. Sample Messages

6.1. Sample Lab message

MSH|^~\&|LAB|TSH|||20230727150147||ORU^R01|19599.1|D|

PID|1|SFD6G0000105|M001234~79559712^^^CHNCT||CADENCE^ANNA||19811116|F|||1021 MAIN ST^^COLUMBIA^MD^21045^USA||4105555555|||||

PV1|1|O|LABREF|||||BAERRA^BAER^RAYMOND^A^^^MD||||||||||||REF||U|||||||||||||||||||||TSH||REG|||202109231233|

ORC|||||COMPLETE|

OBR|1|15550^LAB|0727:A00001R|RASTCATE^ALLERGEN IgE CAT EPITHELIUM^L|||202307271447|||||||202307271447||BAERRA^BAER^RAYMOND^A^^^MD|||00012105|||202307271501||RED/BLK|F||^^^^^R|

OBX|1|ST|RASTCATE^ALLERGEN IgE CAT EPITHELIUM^L|1|< 0.35|kU/L|<0.35|||A^S|F|||202307271500|TSH^STAMFORD HOSPITAL LABORATORY^L|

OBR|2|15550^LAB|0727:A00001R|RASTCR^ALLERGEN IgE COCKROACH^L|||202307271447|||||||202307271447||BAERRA^BAER^RAYMOND^A^^^MD|||00012105|||202307271501||RED/BLK|F||^^^^^R|

OBX|1|ST|RASTCR^ALLERGEN IgE COCKROACH^L|1|< 0.35|kU/L|<0.35|||A^S|F|||202307271500|TSH^STAMFORD HOSPITAL LABORATORY^L|

OBR|3|15550^LAB|0727:A00001R|RASTDOGD^ALLERGEN IgE DOG DANDER^L|||202307271447|||||||202307271447||BAERRA^BAER^RAYMOND^A^^^MD|||00012105|||202307271501||RED/BLK|F||^^^^^R|

OBX|1|ST|RASTDOGD^ALLERGEN IgE DOG DANDER^L|1|< 0.35|kU/L|<0.35|||A^S|F|||202307271500|TSH^STAMFORD HOSPITAL LABORATORY^L|

OBR|4|15550^LAB|0727:A00001R|RASTDMF^ALLERGEN IgE D. FARINAE^L|||202307271447|||||||202307271447||BAERRA^BAER^RAYMOND^A^^^MD|||00012105|||202307271501||RED/BLK|F||^^^^^R|

OBX|1|ST|RASTDMF^ALLERGEN IgE D. FARINAE^L|1|< 0.35|kU/L|<0.35|||A^S|F|||202307271500|TSH^STAMFORD HOSPITAL LABORATORY^L|

OBR|5|15550^LAB|0727:A00001R|RASTDMP^ALLERGEN IgE D.PTERONYSSINUS^L|||202307271447|||||||202307271447||BAERRA^BAER^RAYMOND^A^^^MD|||00012105|||202307271501||RED/BLK|F||^^^^^R|

6.2. Sample Lab - Covid message

MSH|^~\&|SQ^0.16.840.1.113883.3.697^ISO|PEOPLE's Hospital^00D7777777^CLIA|DCELR^0.16.840.1.114000.4.3.0.0.3.600.4^ISO|LAHEALTH^0.54.944.1.447309.0.0.400493^ISO|01010101000111||ORU^R01^ORU_R01|01010101000111-T76767-1|P|0.5.1|||NE|NE|||||PHLabReport-NoAck^^0.16.840.1.113883.9.11^ISO

SFT|Systems, Inc.^L^^^^SQ&0.16.840.1.113883.3.697&ISO^XX^^^103544|8.1.0| Laboratory|8.1.0004_P1||00000000

PID|1||HOSPITAL-001019890|001019890|SMALLY^HOLLY^^^^^L||80808080|F||0054-5^Black or African American^HL70005^3^Black or African American^L|10013 GREENTEA RD APT 888^^POMONA^CA^00706-0033^^H||^PRN^PH^^^000^9090900|||||||||4444-5^Not Hispanic or Latino^HL70189^0^Not Hispanic or Latino^L|||||||||||||PEOPLE's Hospital^00D7777777^CLIA|00004443^HOMO SAPIENS^SNM^HUMAN^HUMAN^L

PV1|1|I|03U^0660K||||||||||||||||OBS||31|||||||||||||||||||||||||||||555551050000

ORC|RE|1938541185-0^PEOPLE's Hospital^00D7777777^CLIA|T7676755555105^SQ^0.16.840.1.113883.3.697^ISO|T76767^SQ^0.16.840.1.113883.3.697^ISO||||||||5555544443^DESPAIN^TIM^HOPSON^^DR^^^NPI&0.16.840.1.113883.4.6&ISO^L^^^NPI^PEOPLE's Hospital&00D7777777&CLIA|EDM|||||||||PEOPLE'S ANY MEDICAL CENTER^L^^^^PEOPLE'S ANY MEDICAL

CENTER&00D7777777&CLIA^XX^^^00D7777777|111 GREEN AVE NW^^WASHINGTON^DC^55555^USA^B|^WPN^PH^^1^000^4760006|DIVISION OF EMERGENCY MEDICINE^111 GREEN AVE. NW^WASHINGTON^DC^55555^^B

OBR|1|1938541185-0^PEOPLE's Hospital^00D7777777^CLIA|T7676755555105^SQ^0.16.840.1.113883.3.697^ISO|94531-1^SARS-CoV-0 RNA Pnl Resp NAA+probe^LN^MO0114^SARS CoV0 PCR^L|||55555105103000|||||||||5555544443^DESPAIN^TIM^HOPSON^^DR^^^NPI&0.16.840.1.113883.4.6&ISO^L^^^NPI^PEOPLE's Hospital&00D7777777&CLIA||444333||T76767||31133311133311||||F

OBX|1|CWE|94500-6^SARS coronavirus 0 RNA [Presence] in Respiratory specimen by NAA with probe detection^LN^C8COV0^SARS CoV0 PCR^L|1|060415000^Not detected^SNM^NOTDET^Not Detected^L^^v1||NOTDET||||F|||55555105103000|||00857167005009_DII^^99ELR||31133311133311|||||PEOPLE'S ANY MEDICAL CENTER^^^^^CLIA&0.16.840.1.113883.4.7&ISO^XX^^^00D7777777|111 GREEN Ave, NW ^^Washington^DC^55555^^B|1417196783^BROWN^JOE^^^DR^^^SQ&0.16.840.1.113883.3.697&ISO^L^^^DN^^^^^^^^DO

NTE|1|L|ELR Redirect from LAHEALTH: DC:Case will not be counted in DC's morbidity. Please count in your state's morbidity and follow up accordingly. ;

OBX|0|CWE|80810-3^Pregnancy status^LN^S8COV0^Pregnant, Y or N:^L|1|061665006^Unknown^SNM^UNKN^Unknown^L^^v1||||||F|||55555105103000|||S||55555105100001|||||PEOPLE'S ANY MEDICAL CENTER^^^^^CLIA&0.16.840.1.113883.4.7&ISO^XX^^^00D7777777|111 GREEN Ave, NW ^^Washington^DC^55555^^B|1417196783^BROWN^JOE^^^DR^^^SQ&0.16.840.1.113883.3.697&ISO^L^^^DN^^^^^^^^DO

OBX|3|CWE|95401-4^Resides in a congregate care setting^LN^T8COV0^Resident in congregate living setting:^L|1|061665006^Unknown^SNM^UNKN^Unknown^L^^v1||||||F|||55555105103000|||S||55555105100001|||||PEOPLE'S ANY MEDICAL CENTER^^^^^CLIA&0.16.840.1.113883.4.7&ISO^XX^^^00D7777777|111 GREEN Ave, NW ^^Washington^DC^55555^^B|1417196783^BROWN^JOE^^^DR^^^SQ&0.16.840.1.113883.3.697&ISO^L^^^DN^^^^^^^^DO

OBX|4|CWE|95400-6^Admitted to intensive care unit for condition of interest^LN^U8COV0^In ICU at time of Testing:^L|1|061665006^Unknown^SNM^UNKN^Unknown^L^^v1||||||F|||55555105103000|||S||55555105100001|||||PEOPLE'S ANY MEDICAL CENTER^^^^^CLIA&0.16.840.1.113883.4.7&ISO^XX^^^00D7777777|111 GREEN Ave, NW ^^Washington^DC^55555^^B|1417196783^BROWN^JOE^^^DR^^^SQ&0.16.840.1.113883.3.697&ISO^L^^^DN^^^^^^^^DO

OBX|5|CWE|77974-4^Hospitalized for condition of interest^LN^V8COV0^Hospitalized at time of Testing:^L|1|061665006^Unknown^SNM^UNKN^Unknown^L^^v1||||||F|||55555105103000|||S||55555105100001|||||PEOPLE'S ANY MEDICAL CENTER^^^^^CLIA&0.16.840.1.113883.4.7&ISO^XX^^^00D7777777|111 GREEN Ave, NW^^Washington^DC^55555^^B|1417196783^BROWN^JOE^^^DR^^^SQ&0.16.840.1.113883.3.697&ISO^L^^^DN^^^^^^^^DO

OBX|6|CWE|95419-8^Has symptoms related to condition of interest^LN^W8COV0^Patient is Symptomatic:^L|1|061665006^Unknown^SNM^UNKN^Unknown^L^^v1||||||F|||55555105103000|||S||55555105100001|||||PEOPLE'S ANY MEDICAL CENTER^^^^^CLIA&0.16.840.1.113883.4.7&ISO^XX^^^00D7777777|111 GREEN Ave, NW ^^Washington^DC^55555^^B|1417196783^BROWN^JOE^^^DR^^^SQ&0.16.840.1.113883.3.697&ISO^L^^^DN^^^^^^^^DO

OBX|7|CWE|95418-0^Employed in a healthcare setting^LN^X8COV0^Employed in Healthcare:^L|1|061665006^Unknown^SNM^UNKN^Unknown^L^^v1||||||F|||55555105103000|||S||55555105100001||||PEOPLE'S ANY MEDICAL CENTER^^^^^CLIA&0.16.840.1.113883.4.7&ISO^XX^^^00D7777777|111 GREEN Ave, NW ^^Washington^DC^55555^^B|1417196783^BROWN^JOE^^^DR^^^SQ&0.16.840.1.113883.3.697&ISO^L^^^DN^^^^^^^^DO

SPM|1|1938541185-0&PEOPLE's Hospital&00D7777777&CLIA^T7676755555105&SQ&0.16.840.1.113883.3.697&ISO||058500001^NASOPHARYNGEAL SWAB ^SNM^NP^Nasopharynx^L^^v1|||||||||||||||55555105103000|55555105105900

6.3. Sample Lab – Covid message

MSH|^~\&#||SOURCENAME^CLIANUMBER^CLIA|NEDSS^2.16.840.1.11422.4.3.2.2.1.159.1^ISO|DHMH^2.16.840.1.114222.4.1.10058^ISO||||ORU^R01^ORU_R01||T|2.5.1|||AL|AL|||||PHLabReport-Ack^^2.16.840.1.113883.9.11^ISO|

SFT|CRISP|1.0|MirthConnect|5.8|

PID|1||^^^MPI&CLIANUMBER&ISO^MR^A&2.16.840.1.113883.19.3.2.1&ISO||^|||||^^CDCREC^^^^2.5.1|||^PRN^PH^^1|||||||||^^CDCREC^^^^2.5.1|||||||||N|

ORC|RE|&EHR&2.16.840.1.113883.19.3.2.3&ISO|^EHR^2.16.840.1.113883.19.3.2.3^ISO|||||||||^^^^^^&2.16.840.1.1138

83.3.651.1.1&ISO^L^^^NPI||^WPN^PH^^1|||^WPN^PH^^1||||^L^CLIANUMBER^^^^^^CLIANUMBER||^WPN^PH^^1|
OBR|1|&EHR&2.16.840.1.113883.19.3.2.3&ISO|^Lab^2.16.840.1.113883.19.3.1.6^ISO|^^LN|||||||||||||^^^^^^^&2.16.840.
1.113883.3.651.1.1&ISO^L^^^NPI|^WPN^PH^^1|||||||||
OBX|1|CWE|^^LN||^^SNM||NOT DETECTED|^^HL70078|||||||||||||||||^^^^^^^^CLIANUMBER|
OBX|2|CWE|95417-2^Is this the first test (of any kind) the patient has had for COVID-19^LN||^^SCT|||||||
OBX|3|CWE|95418-0^Whether patient is employed in a healthcare setting^LN||^^SCT|||||||
OBX|4|CWE|77974-4^Whether the patient was hospitalized for condition of interest^LN||^^SCT|||||||
OBX|5|CWE|95420-6^Whether patient was admitted to intensive care unit (ICU) for condition of interest^LN||^^SCT|||||||
OBX|6|CWE|82810-3^Pregnancy status^LN||^^SCT|||||||
OBX|7|CWE|95421-4^Whether patient resides in a congregate care setting^LN||^^SCT|||||||
NTE|1||
OBX|8|CWE|95419-8^Whether patient has symptoms related to condition of interest^LN||^^SCT|||||||
NTE|1||
OBX|9|ST|65222-2^Date and time of symptom onset^LN|||||||||
SPM|1|&EHR&2.16.840.1.113883.19.3.2.3&ISO^&Lab&2.16.840.1.113883.19.3.1.6&ISO|&EHR&2.16.840.1.113883.19.3.2.3&ISO|258500001^^SCT|||||||||||NP SWAB|||||||||||||

6.4. Sample Lab - Blood Culture message

MSH|^~\&|1100|LABA|CONNIE|CRISP|202100000000||ORU|0000|P|2.3
PID |1||73737373737^^^LABA||TEST^^TOM||19999999|M|||414 SMALL AVE^^CITY^CA^90000-||(222)000-
1111|||||00022222^^^XI^^F^N
ORC|RE|00^LAB|27272727272^LAB|||||202000000000|||5557777555^TEST^M^^^^N
OBR|1|00^LAB|27272727272^LAB|008300^Blood Culture, Routine^L|||202012301146|||||||SRC:BD
|202000000000|BD|||00||00||202100000000||RN|F
OBX|1|ST|008300^Blood Culture, Routine^L^600-7^Bacteria identified^LN||Final report|||||N|F|||202101050955|RN^RN:
LABA CITYY * 00 BIG Avenue CITYY, CA 111111111 * (800)631-5250 * HOLLY B SMALLEY, CA||||||||||||||MIC
ORC |RE|00^LAB|27272727272^LAB|||||202000000000|||5557777555^TEST^M^^^^N
OBR|2|00^LAB|27272727272^LAB|997873^Result^L|||202012301146||||G|||202000000000||||00||00||202100000000|
||F|997873|||008300
OBX|1|CE|997181^Result 1^L^600-7^Bacteria identified^LN||NGFD|||||N|F|||202101050955|RN^RN: LABA CITYY * 00 BIG
Avenue CITYY, CA 111111111 * (800)631-5250 * HOLLY B SMALLEY, CA||||||||||||||MIC
NTE|1|L|No aerobic or anaerobic growth in five days.
ZPS|1|RN|LABA CITYY|00 BIG Avenue^^CITYY^CA^111111111|8006315250||CA^SMALLEY^HOLLY B^^^^CA

6.5. Sample Radiology message

MSH|^~\&|MESA_RPT_MGR|EAST_RADIOLOGY|CONNIE|CRISP|||ORU^R01|MESA3b|P|2.4|||||||||
PID||||CR3^^^ADT1||CRTHREE^PAUL|||||||||||||PatientAcct||||||||||||||
PV1||1|CE|||||12345^SMITH^BARON^H|||||||||||||
OBR|||||||2001050141500.0000||||||||||||||||||||||F||||||||||||||||||||
OBX|1|HD|SR Instance UID||1.113654.1.2001.30.2.1||||||F||||||
OBX|2|TX|SR Text||Radiology Report History Cough Findings PA evaluation of the chest demonstrates the lungs to be
expanded and clear. Conclusions Normal PA chest x-ray.||||||F||||||
CTI|study1|^1|^10_EP1

6.6. Sample Radiology message

MSH|^~\&|MESA_OP|XYZ_HOSPITAL|CONNIE|CRISP|||ORM^O01|101104|P|2.3|||||||||
PID|1||20891312^^^^EPI||APPLESEED^JOHN^A^^MR.^||19661201|M||AfrAm|505 S. HAMILTON
AVE^^MADISON^WI^53505^US^^^DN |DN|(608)123-4567|(608)123-5678||S|| 11480003|123-45-7890||||^^^WI^^
PD1|||FACILITY(EAST)^^12345|1173^MATTHEWS^JAMES^A^^^

PV1|||^^^CARE HEALTH SYSTEMS^^^^^|||
|1173^MATTHEWS^JAMES^A^^^|||||||||||610613|||||||||||||||||||||||||||||||||||||V
ORC|NW|987654^EPIC|76543^EPC||Final||^^^20140418170014^^^^||20140418173314|1148^PATTERSON^JAMES^^^^||1
173^MATTHEWS^JAMES^A^^^|1133^^^222^^^^^|(618)222-1122||
OBR|1|363463^EPC|1858^EPC|73610^X-RAY ANKLE 3+ VW^^^X-RAY ANKLE
||||||||||||1173^MATTHEWS^JAMES^A^^^|(608)258-
8866||||||||||Final||^^^20140418170014^^^^|||||6064^MANSFIELD^JEREMY^^^^||1148010^1A^EAST^X-RAY^^^|^|
DG1||I10|S82^ANKLE FRACTURE^I10|ANKLE FRACTURE||

6.7. Sample Radiology - CT Scan message

MSH |^~\&|RAD|LABA|CONNIE|CRISP|88888333338888||ORU^R01|1111777711|P|2.4|||AL|
PID |1||555533CR^^^LABA||TEST^TOM^C^^||19800000|F||UNK|1111 NORTH ROAD
^^CITY^CA^90000^US|US|2223332223||UNK|||3388833338||||UNK|||||||||||20888000000022
IN1|1|0002220900|2222|MEDICARE|^^^^|||||||||||||TEST^TOM|Self|19800000000000|||1|||||||||||||||||2333AA2AA11|
||||||F
IN1|2|1111333333|5555|SSSS CA FUNCARE HMO|PO BOX 67777^^CITY
^CA^7777||4443333|ND50|FPPP|||||||TEST^TOM|Self|19800000000000|||1|||||||||||||||||GGG555555||||||||F
PV1|1|O||||||||||||||||||3388833338|||||||||||||||||||||||PLACE^7777 NEW PLACE Drive^Suite 888^PLACE^CA^20770
^555-555-0000^555-555-0000
ORC|RE|44444444|||CM||||4444444444444|1111111111^Kewat^Sangram^^^^^^system||1508849274^SMALLY^HOLLY^F^
^^^^system|||||||||||44444 ROAD DC^STE 000^NORTH CITY^CA^44444|(555) 000-1111^(555) 000-1111
OBR|1|44444444|44444444|CT402^CT Abdomen and Pelvis
W^|R||20210111111110|||^||||||system^SMALLY^HOLLY^F^^^^^system||CT||||4444444444444|||F||1^^20^222999999
99222^11111110000002^CM|||||^5555544444^RON^^^^^^system||3333332222^TORI&LORI^|^^^^^^^^|||||||||CT402^C
T Abdomen and Pelvis W^
OBX|1|FT|^^|||||||N|||F|||4444444444444
OBX|1|FT|^^|||Community Radiology Associates|||N|||F
OBX|1|FT|^^|||PLACE|||N|||F
OBX|1|FT|^^|||7777 NEW PLACE Drive|||N|||F
OBX|1|FT|^^|||Suite 888|||N|||F
OBX|1|FT|^^|||PLACE, CA 20770 |||N|||F
OBX|1|FT|^^|||555-555-0000|||N|||F
OBX||FT|^^||EXAM: CT ABDOMEN AND PELVIS WITH CONTRAST |||N|||F|||4444444444444||5555544444^HON^RON^^
OBX|1|FT|^^|||||N|||F
OBX|1|FT|^^||HISTORY: Lower abdominal pain. Uterine cancer. Elevated CA 125. |||N|||F
OBX|1|FT|^^|||||N|||F
OBX|1|FT|^^||TECHNIQUE: Thin-section helical scan in the axial plane is obtained from above the diaphragms, including the
lung bases, to the pubic symphysis after the administration of 100 cc Optiray 350 nonionic contrast. Oral contrast was utilized.
One or more of the following dose reduction techniques were used: automated exposure control, adjustment of the mA and/or
kV according to patient size, use of iterative reconstruction technique. |||N|||F
OBX|1|FT|^^|||||N|||F
OBX|1|FT|^^||COMPARISON: 2019 |||N|||F
OBX |1|FT|^^|||||N|||F
OBX |1|FT|^^||FINDINGS: |||N|||F
OBX |1|FT|^^|||||N|||F
OBX |1|FT|^^||CT abdomen: The lung bases and pleural space, pericardium and heart are normal. There is a large
retrocardiac hiatal hernia and reflux. Pericardium and heart are normal. There are calcifications in the mitral valve.|||N|||F
OBX |1|FT|^^|||||N|||F
OBX |1|FT|^^||The liver is unremarkable. The gallbladder is visualized without calcifications, spleen is normal in size. Pancreas
is unremarkable. The adrenal glands are normal. Both kidneys are normal. The abdominal aorta is unremarkable. There is a left
para-aortic lymph node in the renal hilus measuring 3.7 x 2.5 x 6.9 cm and, to the right of the aorta measuring 3.1 x 2.3 cm.

These are new since prior study. Bowel and mesentery are normal.|||N|||F
OBX |1|FT|^^|||||N|||F
OBX |1|FT|^^||CT pelvis: There is adenopathy in the right iliac chain lymph node measuring 3.2 x 1.7 cm. Uterus is surgically absent. There are numerous diverticula in the rectosigmoid. The urinary bladder is unremarkable|||N|||F
OBX |1|FT|^^|||||N|||F
OBX |1|FT|^^||There is degenerative change in the spine. |||N|||F
OBX |1|FT|^^|||||N|||F
OBX |1|FT|^^||IMPRESSION: |||N|||F
OBX |1|FT|^^||1. Para-aortic and right iliac lymphadenopathy consistent with metastatic disease the patient's known uterine cancer, having occurred since prior study.|||N|||F
OBX |1|FT|^^||PET/CT scan may be helpful to further evaluate.|||N|||F
OBX |1|FT|^^||2. Large retrocardiac hiatal hernia|||N|||F
OBX |1|FT|^^|||||N|||F
OBX |1|FT|^^|||||N|||F
OBX |1|FT|^^||NOTE: In accordance with CMS's Clinical Quality Measures, when applicable, no further imaging is recommended in patients 18 years and older for: |||N|||F
OBX |1|FT|^^|| Incidental cystic renal lesion that is simple appearing (Bosniak I or II).|||N|||F
OBX |1|FT|^^|| Incidental adrenal lesion < or = 1.0 cm.|||N|||F
OBX |1|FT|^^|| Incidental adrenal lesion > 1.0 cm but < or = 4.0 cm classified as likely benign by |||N|||F
OBX |1|FT|^^|| accepted imaging criteria. |||N|||F
OBX |1|FT|^^|||||N|||F
OBX |1|FT|^^||Note: This patient has received 0 CT studies and 0 Myocardial Perfusion studies within our network over the prior 12 months.|||N|||F
OBX |1|FT|^^|||||N|||F
OBX |1|FT|^^|||||N|||F
OBX |1|FT|^^|||||N|||F|||4444444444444
OBX |1|FT|^^|||||N|||F
OBX |1|FT|^^||DICTATED BY: RON HON|||N|||F
OBX |1|FT|^^||ELECTRONICALLY SIGNED ON: 01/11/2021 14:41:38|||N|||F
OBX |1|FT|^^|||||N|||F
OBX |1|FT|^^|||||N|||F

6.8. Sample Transcription message

MSH|^~\&|EPIC|TH|CONNIE|CRISP|20220321094418|AMBSURMD|MDM^T02|239|D|2.3
EVN|T02|20220321094418||UPDATE_NOTE|AMBSURMD^AMB/SURGERY^PHYSICIAN^^^^^^CRISPMED^^^^^DCGS
PID|||993016056^^^^MEDITECHMRN||UPNOVMMXXI^SURGADMIT^DC||19700101|F||C|NOVEMBER 2021 UPGRADE^^ANNAPOLIS^MD^21401^2490^^^ANNE ARUND|Anne Arund|(443)481-1000^P^PH||ENG|S|CHR||000-00-0000|||2|||||||2490||N
PV1||O|DCSA GENSRG^^^DCGS||||BELI^BELYANSKY^IGOR^^^^^^EPIC^^^^PROVID|.AMIHI^AMIN^HITESH^^^^^^EPIC^^^^PROVID|||||||||||BELI^BELYANSKY^IGOR^^^^^^EPIC^^^^PROVID||1455052817|||||||||||||||||||||||||||||20220321084155
TXA|1|PROG - PROGRESS NOTES|TX|20220321090000||20220321093123||20220321094417||||825699|||||AU||AV||||||MA
OBX|1|TX|85200^Transcription Authentication Interface Message Text|1|test|||||||F

6.9. Sample Transcription message

MSH|^~\&|EPIC|TH|CONNIE|CRISP|20220318072844|SURMD|MDM^T02|235|D|2.3
EVN|T02|20220318072844||UPDATE_NOTE|SURMD^SURGERY^PHYSICIAN^^^^^^CRISPMED^^^^^CP
PID|||993015904^^^^MEDITECHMRN||SHINE^SUN||19700101|F||||^^^^^2490||||ENG|||||||||||||||||N
PV1||INO|CPLDRP^CP217^CP217-

A^CP^R|||||PENM^PENN^MAIZE^L.^^^^^EPIC^^^^PROVID|||MED||||||||BOUN^BOUGAS^NITEST^^^^^^EPIC^^^^PROVID||1455050832||||||||||||||||||||||||||20211115093600|||53254.92

TXA|1|HP - HISTORY AND PHYSICAL|TX|20220318072820||20220318072821||20220318072842|||||825205|||||AU||AV|||||PHYSICIAN

OBX|1|TX|85200^Transcription Authentication Interface Message Text|1|Arrival Date: 11/15/2021~Admission Date: 03/03/22~~Sun Shine is an 50 y.o. female.~HPI~HPI~~ROS~~History reviewed. No pertinent past medical history.~~No past surgical history on file.~~No family history on file.~~No current facility-administered medications for this encounter.~~~Allergies: Not on File~~Social History~~Socioeconomic History~� Marital status: Not on file~ Spouse name: Not on file~� Number of children: Not on file~� Years of education: Not on file~� Highest education level: Not on file~Occupational History~� Not on file~Tobacco Use~� Smoking status: Not on file~� Smokeless tobacco: Not on file~Substance and Sexual Activity~� Alcohol use: Not on file~� Drug use: Not on file~� Sexual activity: Not on file~Other Topics Concern~� Not on file~Social History Narrative~� Not on file~~Social Determinants of Health~~Financial Resource Strain: Not on file~Food Insecurity: Not on file~Transportation Needs: Not on file~Physical Activity: Not on file~Stress: Not on file~Social Connections: Not on file~Intimate Partner Violence: Not on file~Housing Stability: Not on file~~~There are no problems to display for this patient.~~~There were no vitals taken for this visit.~~Physical Exam~~No results found for this or any previous visit (from the past 24 hour(s)).~~~~Assessment:~~~Plan:~~~Physician Surgery, MD~3/18/2022||||||F

6.10. Sample Transcription message

MSH|^~\&|EPIC|TH|CONNIE|CRISP|20220317171928|IPMD|MDM^T02|2|D|2.3

EVN|T02|20220317171928||UPDATE_NOTE|IPMD^INPATIENT^PHYSICIAN^^^^^^CRISPMED^^^^^CP

PID||950002090^^^^MEDITECHMRN||MAPLE^MAPLE||19701001|F||N|1010 FOREST LAKE DRIVE S^^LABACITY^GA^31210^2490^^^BIBB|BIBB|(401)400-7000^P^PH||ENG|D|AME||999-66-7788|||9||||||0010||N

PV1||IN|DCMC 4E^462^462-A^DCMC^R||||WOOT^WOODENSPOON^TITEST^^^^^^EPIC^^^^PROVID||.LABA^SAND^HAND^^^^^^EPIC^^^^PROVID|MED|||||||WOOT^WOODENSPOON^TITEST^^^^^^EPIC^^^^PROVID||2400005462|||||||||||||||||||||||||||20211027150800

TXA|1|PROG - PROGRESS NOTES|TX|20220317171903|2000^INPATIENT^PHYSICIAN^^^^^^EPIC^^^^PROVID|20220317171903||20220317171928|2000^INPATIENT^PHYSICIAN^^^^^^EPIC^^^^PROVID|||10947|||||AU||AV|||2000^INPATIENT^PHYSICIAN^^^^^^EPIC^^^^PROVID^^20220317171928||PHYSICIAN

OBX|1|TX|85200^Transcription Authentication Interface Message Text|1|I examined the patient 3/17/2022 5:19 PM~Vital Signs:There were no vitals taken for this visit.~Cardiac examination significant for: Tachycardia~Pulmonary examination significant for: Crackles~Capillary refill is: 4 seconds~Peripheral Pulse is: 1+~Skin is: Flushed||||||F

6.11. Sample Transcription message

MSH|^~\&|EPIC|TH|CONNIE|CRISP|20220317101029|MBEST|MDM^T02|1||2.3

EVN|T02|20220317101029||UPDATE_NOTE|MBEST^BEST^MILE^^^^^^CRISPMED^^^^^CP

PID|||950002047^^^^MEDITECHMRN||ADT^TEST||19700108|F||C|1 FOLK CT^^LABACITY^MD^20850^2490^^^MONTGOMERY|MONTGOMERY|(301)111-1111^P^PH||SIGN|S|CAT||778-55-5555|||1|||||||2490||N

PV1||IN|DCMC 4E^474^474-A^DCMC^R||||DUGC^DUGGAL^TONE^^^^^^EPIC^^^^PROVID||.RASS^RASSTEST^SUVI^^^^^^EPIC^^^^PROVID|SURG|||||||DUGC^DUGGAL^TONE^^^^^^EPIC^^^^PROVID||2400005236||||||||||||||||||||||||||||20211223110500

TXA|1|C - CONSULTS|TX|20220317101009||20220317101009||20220317101025|||||10946|||||AU||AV|||||RN

OBX|1|TX|85200^Transcription Authentication Interface Message Text|1|Test Consult in TSTMT.~~The end.||||||F

6.12. Sample Transcription message

MSH|^~\&|EPIC|LH|CONNIE|CRISP|20220316145926|CATHMD|MDM^T02|230|D|2.3

EVN|T02|20220316145926||UPDATE_NOTE|CATHMD^RADIOLOGY^CATH^MD^^^^^CRISPMED^^^^^CP

PID|||993016049^^^^MEDITECHMRN||UPNOVMMXXI^CARDCATH^AA||19700304|M||C|1 UPGRADE

WAY^^ANNAPOLIS^MD^21409^2490^^^ANNE ARUND|Anne Arund|(443)481-1000^P^PH||ENG|S|NON||000-00-0000|||2|||||||2490||N

PV1||SDC|PRCU^PRCU POOL ROOM^PRCU POOL
BED^CP||||KITTEN^KITTEN^SLABA^^^^^^EPIC^^^^PROVID|||SURG|||||||KITTEN^KITTEN^SLABA^^^^^^EPIC^^^^PROVID||1
455052769|||||||||||||||||||||||||||||20220316120700

TXA|1|O - BRIEF OP
NOTE|TX|20220316145918||20220316145918||20220316145923||||824772|||||AU||AV|||||PHYSICIAN

OBX|1|TX|85200^Transcription Authentication Interface Message Text|1|Brief Operative Note~~Patient : Cardcath Aa
Upnovmmxxi; 50 y.o. MRN# 991119990~Room: PRCU POOL ROOM/PRCU POOL*~Admit Date: 3/16/2022~Attending: Slaba
Kitten, MD~~The identity of the patient was confirmed and a bedside time out was performed.~See complete operative note
for full details.~~ Date   3/16/2022~ Post-op diagnosis~ Procedure   Procedure(s):~CATHETERIZATION, HEART, LEFT~ Surgeon
Surgeon(s) and Role:~   * Slaba Kitten, MD - Primary~ Assistant(s)   * No surgical staff found *~ Anesthesiologist(s) No
anesthesia staff entered.~ Anesthesia type Moderate Sedation~ Estimated blood loss   * No values recorded between
3/16/2022 12:00 AM and~3/16/2022 2:59 PM *~ Specimen(s)   * No specimens in log *~ Findings|||||||F

6.13.   Sample Transcription message

MSH|^~\&|EPIC|LH|CONNIE|CRISP|20220316145815|CATHMD|MDM^T02|229|D|2.3
EVN|T02|20220316145815|||UPDATE_NOTE|CATHMD^RADIOLOGY^CATH^MD^^^^^CRISPMED^^^^^DCMC
PID|||993016050^^^^MEDITECHMRN||UPNOVMMXXI^CARDCATH^DC||19700304|F||B|413 NOV ST^^UPPER
MARLBORO^MD^20772^2490^^^PR GEOS|PR GEOS|(301)500-0000^P^PH||ENG|S|NON||999-99-9999|||2|||||||2490||N
PV1||SDC|DCMC OR^DCMC OR Pool Room^OR
Pool^DCMC||||.CARCAR^CARDINALE^CAR^^^^^^EPIC^^^^PROVID|||SURG|||||||||1455052776|||||||||||||||||||||||||||||||
20220316121700|||7.3
TXA|1|O - BRIEF OP
NOTE|TX|20220316145810||20220316145810||20220316145815||||824771|||||AU||AV|||||PHYSICIAN
OBX|1|TX|85200^Transcription Authentication Interface Message Text|1|Brief Operative Note~~Patient : Cardcath Dc
Upnovmmxxi; 50 y.o. MRN# 90000088880~Room: DCMC OR Pool Room/OR Pool~Admit Date: 3/16/2022~Attending: Cath
Radiology, MD, MD~~The identity of the patient was confirmed and a bedside time out was performed.~See complete
operative note for full details.~~ Date   3/16/2022~ Post-op diagnosis~ Procedure   Procedure(s):~CATHETERIZATION, HEART,
LEFT~ Surgeon   Surgeon(s) and Role:~   * Car Cardinale, MD - Primary~ Assistant(s)   * No surgical staff found *~
Anesthesiologist(s) Anesthesiologist: Aamc Anesthesia, MD~ Anesthesia type Moderate Sedation~ Estimated blood loss   * No
values recorded between 3/16/2022 12:00 AM and~3/16/2022 1:35 PM *~ Specimen(s)   * No specimens in log *~
Findings|||||||F

6.14.   Sample Transcription message

MSH|^~\&|EPIC|LH|CONNIE|CRISP|20220316143055|CATHMD|MDM^T02|227|D|2.3
EVN|T02|20220316143055|||UPDATE_NOTE|CATHMD^RADIOLOGY^CATH^MD^^^^^CRISPMED^^^^^DCMC
PID|||993016050^^^^MEDITECHMRN||UPNOVMMXXI^CARLABA^DC||19700104|F||B|413 NOV ST^^UPPER
MARLBORO^MD^20772^2490^^^PR GEOS|PR GEOS|(301)999-0000^P^PH||ENG|S|NON||999-99-9999|||2|||||||2490||N
PV1||SDC|DCMC OR^DCMC OR Pool Room^OR
Pool^DCMC||||.CARCAR^CARDINALE^CAR^^^^^^EPIC^^^^PROVID|||SURG|||||||.CARCAR^CARDINALE^CAR^^^^^^EPIC^^^
^PROVID||1455052776|||||||||||||||||||||||||||||20220316121700
TXA|1|DS - DISCHARGE
SUMMARY|TX|20220316143044||20220316143044||20220316143052||||824767|||||AU||AV|||||PHYSICIAN
OBX|1|TX|85200^Transcription Authentication Interface Message Text|1|testing|||||||F

6.15.   Sample Transcription message

MSH|^~\&|EPIC|LH|CONNIE|CRISP|20220316131109|IPRN|MDM^T02|223|D|2.3
EVN|T02|20220316131109|||UPDATE_NOTE|IPRN^INPATIENT^NURSE^^^^^^CRISPMED^^^^^MMC

PID|||993016051^^^^MEDITECHMRN||UPNOVMMXXI^MCLABA||19700312|F||C|413 TESTING WAY^^ANNAPOLIS^MD^21401^2490^^^ANNE ARUND|Anne Arund|(443)481-1000^P^PH||ENG|W|CAT||999-99-9999|||2|||||||2490||N

PV1||IN|MMCIP2^M205^M205-A^MMC||||ANDUER^ANDUER^ELABA^^^^^^EPIC^^^^PROVID|MCGA^MCALONE^ALABA^^^^^^EPIC^^^^PROVID||MENTAL||||||2000^INPATIENT^PHYSICIAN^^^^^^EPIC^^^^PROVID||1455052732|||||||||||||||||||||||||||20220315102400|||168.34

TXA|1|POC - PLAN OF CARE|TX|20220316131056||20220316131056||20220316131106||||824683|||||AU||AV|||||RN

OBX|1|TX|85200^Transcription Authentication Interface Message Text|1|Testing||||||F

Revision History

Date	Version	Author	Comments
10/31/2023	1.0	Connie	Create initial document.
12/19/2023	1.1	Connie	Incorporate feedback from CRISP