National Program of Cancer Registries

Reporting Pathology Protocols Project for Breast and Prostate Cancers and Melanomas

HL7 Implementation Guide

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Cancer Surveillance Branch
Division of Cancer Prevention and Control
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Preface

This document or implementation guide contains the HL7 (Health Level 7) specifications for the CDC–NPCR pilot project, the Reporting Pathology Protocols Project for Breast and Prostate Cancers and Melanomas, to transmit pathology reports for breast and prostate cancers and melanomas from pathology laboratories using the SNOMED CT Encoded CAP Cancer Checklists (SECCC) to cancer registries.

These specifications, as contained in this implementation guide, can be used by organizations or entities seeking guidance on how to format or structure HL7 Version 2.3.1 messages for the College of American Pathologists (CAP) Cancer Checklists. The HL7 message can then be sent from pathology laboratories to cancer registries. Cancer registries, in collaboration with sending pathology laboratories, can use this guidance to verify the appropriateness of the HL7 message and to parse that message of the CAP Cancer Checklist into the cancer registry software system. CAP has developed site-specific cancer protocols and checklists for use in the reporting of malignant tumors. While this guide focuses on the SECCC, it can also be used for the transmission of the CAP Cancer Checklists data without using the SNOMED CT codes.

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Introduction

Project Overview

Pathology reports are typically in a text format with specific information contained in the narrative. Within the last decade, the College of American Pathologists has developed cancer protocols with related cancer checklists to "aid pathologists with completeness, accuracy, and uniformity in reporting of malignant tumors." [Source: 1999, Reporting on Cancer Specimen Protocols and Case Summaries]

In 2004, the Centers for Disease Control and Prevention (CDC) National Program of Cancer Registries (NPCR) funded a pilot project involving three NPCR registries that partnered with anatomical pathology (AP) laboratories to evaluate the use of structured data entry for cancer pathology reports and to encourage the standard exchange of data between two key public health partners: pathology laboratories and cancer registries. This project focused on the reporting of information from the SNOMED Clinical Terms® (SNOMED CT®) Encoded CAP Cancer Checklists for breast and prostate cancers and melanomas. SNOMED CT (Systematized Nomenclature of Medicine – Clinical Terms) is a widely used clinical health care terminology.

The three NPCR registries included California, Maine, and Pennsylvania. In California, participants included the Public Health Institute/California Cancer Registry collaborating with C/NET Solutions and the pathology laboratory at the City of Hope National Medical Center and Cerner CoPathPlus. In Maine participants included the Maine Cancer Registry using IMPAC cancer registry software and collaborating with the pathology laboratory in Maine Medical Center and Dahl Chase Laboratory both using IMPAC PowerPath software. In Pennsylvania participants included the Pennsylvania Cancer Registry collaborating with the pathology laboratory at the University of Pittsburgh Medical Center (UPMC) using Cerner CoPathPlus and the UPMC cancer registry using IMPAC cancer registry software. Additional participants included SNOMED Terminology Solutions, a division of the College of American Pathologists (CAP).

Using the CAP Cancer Protocols and Checklists for breast and prostate cancers and melanomas, the project aimed to complete the following tasks:

- Develop electronic reporting capabilities to collect and transmit not only cancer-related pathology report data but also patient identifier and demographic data from the participating pathology laboratories to the cancer registries.
- Implement the CAP Cancer Protocols and Checklists for breast and prostate cancers and melanomas in the participating pathology laboratories and transmit the data to the cancer registry.
- Develop assessment measures to evaluate the project.
- Develop and implement plans to share expertise and experience related to the demonstration project with the greater cancer registry and pathology communities.
- Develop a messaging guide and, if necessary, conformance software.
- Compile the results of the assessment measures.

- Provide feedback and recommendations to improve the cancer protocols and checklists for breast and prostate cancers and melanomas that will meet the needs of pathologists and cancer registries.

As the first step in developing electronic reporting capabilities the project participants agreed to use the Health Level 7 (HL7) Version 2.3.1 format. HL7 is an American National Standards Organization (ANSI) that develops format standards for the transmission of clinical data. The project team established the structure of the project's HL7 message for both the core HL7 segments and the observation segments that corresponded to the data from the CAP Checklists. The project team maintained an open dialogue with the CAP Cancer Committee during the process of matching the CAP Checklist data to the corresponding HL7 observation segments. After the data was entered into the pathology laboratory system, it was converted to the project-specific HL7 message (or format) and transmitted to the participating cancer registry. This document contains the project's HL7 specifications.

In addition, conformance testing software, the Messaging Workbench (MWB), a free-for-use software tool developed by the US Veterans Administration in collaboration with the HL7 Conformance Special Interest Group, was used to capture the HL7 specifications in a sharable electronic format, referred to as the profile. This profile, when used with the MWB, tests the consistency of an HL7 message (for a pathology report) with the Project's HL7 specifications. Since the Checklists include SNOMED codes for all of the coded data items, the profile includes tables of all these SNOMED codes in a machine-processable format. In addition, the MWB was used to generate the vast majority of this document.

Use Case and Developed Systems

When a cancer is diagnosed by a pathologist studying the slides from a biopsy or specimen section, state statute requires that information on that cancer be reported to the state cancer registry. Increasingly, the standard Checklists developed by CAP are being used to identify all of the data items that should be reported by the pathologist and replacing the traditional text pathology report.

As noted before, this project focused on implementing the information from the SNOMED CT Encoded CAP Cancer Checklists for breast and prostate cancers and melanomas. In order to facilitate incorporation of these codes into the synoptic report sent by the pathologist to the participating cancer registries, the two lab system vendor participants in the project (Cerner CoPathPlus and IMPAC) modified their user interfaces to incorporate these SNOMED CT encodings in the workflow of the documentation of the case. The definition of the message, contained in this profile, was then used to produce a message that incorporates all of the CAP Checklist data items along with their SNOMED CT codes. The checklists include SNOMED CT codes for all of the coded data that may be carried in a filled-out checklist. This implementation guide document is generated primarily from the Messaging Workbench profile, and includes tables of all these SNOMED codes in a machine-processable format. The information in this implementation guide was used by the project laboratory participants to structure the CAP Cancer Checklists into an HL7 Version 2.3.1 format or message and by the project cancer registry participants to parse the HL7 messages into the registry's software system.

The Messaging Workbench (MWB) is also able to validate messages to confirm that they conform to the message profile defined, including all the coded data. This tool was used to assist in the debugging and development of the standard messages.

Document Format

As noted above, this document contains the project's HL7 specifications. These specifications were used by the project laboratory participants to format the cancer pathology report information and used by the cancer registry participants to parse into cancer registry systems. It consists of three main sections: Segment Tables, Data Tables, and Data Types. The Segment Tables describe each of the segments making up the core HL7 message structure. Each of the fields in these tables is of a particular Data Type, all of which are described in the Data Types section. The fields in the Segment Tables that carry coded data have their possible values described in the Data Tables section, which contains those data tables describing allowable values for the CAP Cancer Checklist data items as well as the standard HL7 coded data.

Segment Tables

Each of the segments included within the message has its contents detailed in a tabular format. Each table consists of a header row and a set of detail rows. The header row contains the name of the segment, its description, whether it is optional or required, and whether or not it repeats. The detail rows contain the name of each field and field component or sub-component in the segment, and a collection of columns specifying conformance detail about each field or component. The color-coding and definition of abbreviations is shown in the legend at the beginning of the Segments section below.

Some of the fields in a segment have 'Implementation Notes' associated with them. These are shown in a green background color immediately below the field (and before the components of the field, if there are any).

A few of the fields in some segments have a "Description" with them; this is shown in a light yellow color that spans the width of the table, just below the field entry.

Some of the fields or components of field are Not Supported, meaning that there are no conformance specifications associated with the field or component. If any of these are populated by a sender, they will be ignored by the receiver. They are indicated by a gray background for the field or component.

Please note that one of the columns for each of the segment fields is labeled "Tbl". This column will contain a number for every field or component that is a coded datatype, and has its contents constrained by a table. The number refers to the table number, and the tables have their content enumerated in the Data Tables section.

Data Tables

Each of the data tables specifying the coded data for the messages is defined in this section. Each table has a four or five digit number associated with it. Each table has a header line that shows the table number (ID) and the table name. The header line also contains the type of table (HL7, User Defined, or Local) and the Coding System (if any).

Following that is the table contents, in tabular form. Each row is a single coded entry. The columns are:

- Order – indicates the sequence; this is unused
- Code – this is the code value, to be placed in the CE.1 or CE.4 locations in the HL7 coded field.
- Description – this is the display text, to be placed in the CE.2 or CE.5 locations in the HL7 coded field.
- Source – this is either "User" indicating that it is a value defined for this project, or "HL7" meaning that the entry is drawn from the published values in the HL7 standard.
- Usage – all of the entries for the specification are 'Optional' in this column.
- Display Name – this is a generally shorter print name for the entry, and is suggested for User Interfaces and also for the CWE.9 component of a CWE datatype coded field.
- Instructions – In most of the data tables this is unused, but for the entries in the Procedure Code table (0088) containing CAP checklist SNOMED codes, this is the full text description of the procedure from the CAP checklist.

Data Types

Each of the HL7 fields and components of fields is formatted as an HL7 Data Type. These structures are detailed in the Data Types section for easy reference. The table of Data Types is in a similar format to the Segment Tables described above, but each 'field' is one of the HL7 defined data types.

Appendixes

The first appendix includes the Messaging Questions and Answers Document which describes the issues or questions about how to structure the CAP Cancer Checklists into the HL7 Version 2.3.1 format. The second appendix shows examples of HL7 messages of the CAP Cancer Checklists and the third appendix shows the description of how to handle multiple cancers or synoptic worksheets within one accession specimen (accession number).

Message Profile Technical Specifications

Below is the set of items making up the message description in the profile; it contains the data about the segment tables, message structure, profile identifiers, message type, version, owner, title, etc. These specifications are the master header of the specifications, and are automatically generated by the MWB. These technical specifications are for an implementer of an HL7 message, not for a general non-technical reader.

Interface ID	CDC RPP2 Project
Organization	CDC–NPCR
HL7 Version	2.3.1
Spec Version	1.0.2.18
Application Role	Sender
Conformance Type	Strict
Encodings	
	ER7
Event Description	Unsolicited Observation Message
Message Type	ORU
Event Type	R01
Order Control Code	RE
Message Structure	MSH message header segment PID patient identification segment NK1 next of kin / associated parties segment- [PV1] patient visit segment- { --- SEGMENT GROUP G1R - begin [ORC] common order segment OBR observation request segment NTE notes and comments segment { --- SEGMENT GROUP G1R.G2R - begin OBX observation/result segment [NTE] notes and comments segment } --- SEGMENT GROUP G1R.G2R - end } --- SEGMENT GROUP G1R - end
Structure Type	ORU_R01
Accept Ack	NE
Application Ack	AL
Ack Mode	Deferred
Static Profile ID	{ConfSig(1) CDC - NPCR(1) 2.3.1(1) static-profile(1) ORU(1) R01(1) RE(2) null(0) 1.0.2.17(1) Sender(1)}
Dynamic Profile ID	{ConfSig(1) CDC - NPCR(1) 2.3.1(1) dynamic-profile(2) AccNE_AppAL(2) defer_mode_ack(1)}

Segments and Segment Groups

The following section specifies the Segments and Segment Groups detailed content, which is contained in tabular form. The table below describes the abbreviations used within these tables.

Optionality Codes:	Abbreviations:	Color codes:
• R - required • RE - required or empty • C - conditional • CE - conditional or empty • O - optional • NS - not supported • U - unknown	• seq - sequence • DT - datatype • Len - length • Opt - optionality • Rep - repeatable • Min - quantity min • Max - quantity max • Tbl - table	Field • Component — Sub Component Implementation note **NS Element** **CM Datatype**

Segment	Description	Opt	Rep	Min	Max	Reference
MSH	**message header segment**	**R**	**False**			

Fields

Fields for MSH	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
Field Separator	1	ST	1	R	F	1	1				|	11.6.1
Encoding Characters	2	ST	4	R	F	1	1				^~\&	11.2.2
Sending Application	3	HD	180	R	F	1	1	0361				11.2.3
Implementation Note: Recommend use of an OID for the organization for the namespace; NAACCR optionality: O												
• namespace ID	3.1	IS	25	R		1	1	0300			COH_LAB1	
• universal ID	3.2	ST	15	C		0	1		Populate if Namespace ID not populated, and a universal ID is available		www.upmc.edu	
• universal ID type	3.3	ID	15	C		0	1	0301	Populate only if universal ID is populated.		DNS	
Sending Facility	4	HD	180	R	F	1	1	0362				11.2.4
Implementation Note: NAACCR item #s: 7010, 7020												
• namespace ID	4.1	IS	25	RE		0	1	0300			UPMC_LAB1	
Implementation Note: CLIA numbers (public and universal)should be used in the other components; use this only if there is no CLIA number for the lab and a local ID must be used. NAACCR recommends that this be used as the text name of the sending laboratory - item # 7020.												
• universal ID	4.2	ST	20	R		1	1				CLIA-NUMBER	
Implementation Note: CLIA number of laboratory. NAACCR reference: REPORTING FACILITY ID NO, Item N. 7010												
• universal ID type	4.3	ID	6	R		1	1	0301		True	CLIA	
Implementation Note: Must be "CLIA"												
Receiving Application	5	HD	180	RE	F	0	1	0361				11.6.6
• namespace ID	5.1	IS	25	R		1	1	0300			PA_CAREG	
Implementation Note: R* Defaults to "Cancer Registry", but may be any named application												
• universal ID	5.2	ST	25	RE		0	1					
Implementation Note: May be used if there is a universal set of Registry Application Names with identifiers.												
• universal ID type	5.3	ID	3	C		0	1	0301	Populate only if the ID is populated			

Fields for MSH	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
Implementation Note: Identifies the type of identifier if a public (non local) identifier is used for the application.												
Receiving Facility	6	HD	180	RE	F	0	1	0362				11.2.6
• namespace ID	6.1	IS	25	R		1	1	0300			PA	
Implementation Note: Receiving Facility Name, if local. Should be the 2-letter State code name.												
• universal ID	6.2	ST	25	RE		0	1					
Implementation Note: Use only if there is a universal ID for the receiving facility												
• universal ID type	6.3	ID	15	C		0	1	0301	Populate if the universal ID is populated			
Date/Time Of Message	7	TS	26	R	F	1	1					11.2.7
Implementation Note: NAACCR item #: 7490												
• Date/Time	7.1	NM	26	R		1	1				200606041132	
Implementation Note: NAACCR E-PATH Reference: DATE/TIME STAMP, Item #: 7490												
• degree of precision	7.2	ST	1	**NS**		0	0					
Security	8	ST	40	**NS**	F	0	0					11.6.3
Message Type	9	CM_MSG	13	R	F	1	1	0076				11.3.3
• message type	9.1	ID	3	R		1	1	0076			ORU	
Implementation Note: This is 'ORU' for the RPP2 message												
• trigger event	9.2	ID	3	R		1	1	0003			R01	
Implementation Note: This is 'R01' for the RPP2 message												
• message structure	9.3	ID	7	R		1	1	0354			ORU_R01	
Implementation Note: This is 'ORU_R01' for the RPP2 message												
Message Control ID	10	ST	20	R	F	1	1				89c68b375638f35a6de2	2.24.2.2
Implementation Note: NAACCR E-Path Reference: MESSAGE CONTROL ID, Item# 7500												
Processing ID	11	PT	3	R	F	1	1	0103				2.24.1.11
Implementation Note: NAACCR item #: 7510												

Fields for MSH	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
• processing ID	11.1	ID	1	R		1	1	0103			P	
Implementation Note: PROCESSING ID, Item#: 7510												
• processing mode	11.2	ID	1	R		1	1	0207			T	
Version ID	12	VID	60	R	F	1	1	0104				2.24.1.12
• version ID	12.1	ID	5	R		1	1	0104			2.3.1	
Implementation Note: Must always be 2.3.1 for RPP2 messages												
• internationalization code	12.2	CE	18	**NS**		0	0					
• international version ID	12.3	CE	18	**NS**		0	0					
Sequence Number	13	NM	15	**NS**	F	0	0					2.24.1.13
Continuation Pointer	14	ST	180	**NS**	F	0	0					2.24.8.1
Accept Acknowledgment Type	15	ID	2	RE	F	0	1	0155			AL	2.24.1.15
Application Acknowledgment Type	16	ID	2	**NS**	F	0	0	0155				2.24.1.16
Country Code	17	ID	2	RE	F	0	1				US	2.24.1.17
Character Set	18	ID	16	**NS**	F	0	0	0211				2.24.1.18
Principal Language Of Message	19	CE	60	**NS**	F	0	0					2.24.1.19
Alternate Character Set Handling Scheme	20	ID	20	**NS**	F	0	0	0356				2.24.1.20

Segment	Description	Opt	Rep	Min	Max	Reference
PID	**patient identification segment**	**R**	**False**			

Fields

Fields for PID	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
Set ID - PID	1	SI	4	R	F	1	1				1	3.3.2.1
Implementation Note: NAACCR optionality: O												
Patient ID	2	CX	27	**NS**	F	0	0					3.3.2.2
Patient Identifier List	3	CX	1913	R	T	1	*					3.3.2.3
Implementation Note: May contain both lab's and hospital's different id numbers, labeled PI and MR. Pt's SSN would be in another repeat, if available. Cerner uses MedRec# with 4th subfield containing code for hospital generating the number. Not all reports have a MedRec#, but some kind of number is required here. NAACCR item #s: Medical Record Number [2300] and Social Security Number [2320]												
• ID	3.1	ST	20	R		1	1				658B44MR4	
Implementation Note: NAACCR E-Path reference: MEDICAL RECORD NUMBER Item #s 2300, 2320												
• check digit	3.2	ST	0	**NS**		0	0					
• code identifying the check digit scheme employed	3.3	ID	3	**NS**		0	0					
• assigning authority	3.4	HD	55	R		1	1					
— namespace ID	3.4.1	IS	20	R		1	1	0300			COH_ADT01	
— universal ID	3.4.2	ST	20	RE		0	1				www.upmc.edu	
— universal ID type	3.4.3	ID	15	C		0	1	0301	Populate if universal ID is populated		DNS	
• identifier type code	3.5	IS	3	R		1	1	0203			MR	
• assigning facility	3.6	HD	55	R		1	1					
— namespace ID	3.6.1	IS	20	R		1	1	0300			COH1	

Fields for PID	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
— universal ID	3.6.2	ST	20	RE		0	1				www.upmc.edu	
— universal ID type	3.6.3	ID	15	C		0	1	0301	Populate if universal ID is populated.		DNS	
Alternate Patient ID - PID	4	CX	27	**NS**	F	0	0					3.3.2.4
Patient Name	5	XPN	71	R	T	1	*					3.3.2.5
Implementation Note: NAACCR Item #s: 2230, 2240, 2250												
• family+last name prefix	5.1	**CM**	25	R		1	1				Beebleproxter	
Implementation Note: NAME--LAST, Item#: 2230												
• given name	5.2	ST	14	R		1	1				Zaphod	
Implementation Note: NAME--FIRST, Item#: 2240												
middle initial or name	5.3	ST	15	RE		0	1				M	
Implementation Note: NAME--MIDDLE, Item#: 2250												
• suffix (e.g., JR or III)	5.4	ST	5	RE		0	1				III	
• prefix (e.g., DR)	5.5	ST	5	RE		0	1				Dr.	
• degree (e.g., MD)	5.6	IS	6	RE		0	1	0360			MS	
• name type code	5.7	ID	1	RE		0	1	0200			L	
• Name Representation code	5.8	ID	3	**NS**		0	0					
Mother's Maiden Name	6	XPN	72	RE	T	0	*					6.4.7.40
• family+last name prefix	6.1	**CM**	25	R		1	1				Whistlechoo	
• given name	6.2	ST	15	R		1	1				Myrna	
• middle initial or name	6.3	ST	15	RE		0	1				W	
• suffix (e.g., JR or III)	6.4	ST	5	RE		0	1				Esq.	
• prefix (e.g., DR)	6.5	ST	5	RE		0	1				Mrs.	
• degree (e.g., MD)	6.6	IS	6	RE		0	1	0360			MS	
• name type code	6.7	ID	1	RE		0	1	0200			L	
• Name Representation code	6.8	ID	3	**NS**		0	0					
Date/Time Of Birth	7	TS	27	R	F	1	1					8.6.2.6

Fields for PID	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
Implementation Note: NAACCR: RE. NAACCR item #: 240												
• Date/Time	7.1	NM	26	R		1	1				99999999	
Implementation Note: NAACCR E-Patah Reference: BIRTH DATE, Item #: 240 NAACCR usage: R*; Defined default value: "99999999"												
• degree of precision	7.2	ST	1	**NS**		0	0					
Sex	8	IS	1	R	F	1	1	0001			U	8.6.2.5
Implementation Note: NAACCR E-Path Reference: SEX, Item #: 220. NAACCR optionality: RE, Default value: 'U'. Note should never require the default constant.												
Patient Alias	9	XPN	72	RE	T	0	*					3.3.2.9
Implementation Note: NAACCR item #: 2280												
• family+last name prefix	9.1	**CM**	25	R		1	1				Blue	
• given name	9.2	ST	15	R		1	1				Little	
• middle initial or name	9.3	ST	15	RE		0	1				Boy	
• suffix (e.g., JR or III)	9.4	ST	5	RE		0	1				III	
• prefix (e.g., DR)	9.5	ST	5	RE		0	1				The	
• degree (e.g., MD)	9.6	IS	6	RE		0	1	0360			MD	
• name type code	9.7	ID	1	RE		0	1	0200			L	
• Name Representation code	9.8	ID	3	**NS**		0	0					
Race	10	CE	144	R	T	1	5	0005				6.4.7.71
Implementation Note: NAACCR optionality: RE. NAACCR item #: 160. Missing decision on default value; '99' has been suggested												
• identifier	10.1	ST	12	R		1	1	0005			B	
Implementation Note: NAACCR E-Path reference: RACE, Item # 160. NAACCR usage: R*												
• text	10.2	ST	30	R		1	1				Black	
Implementation Note: R*												
• name of coding system	10.3	ST	30	R		1	1	0396			HL70005	
Implementation Note: Use the CDC coding system for Race codes (same as the US Census and OMB). Note that these are numeric codes. NAACCR usage: R*												
• alternate identifier	10.4	ST	12	RE		0	1				2054-5	

Fields for PID	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
• alternate text	10.5	ST	30	RE		0	1				Black or African-American	
• name of alternate coding system	10.6	ST	30	RE		0	1	0396			PH_RaceAndEthnicity_CDC	
Implementation Note: use if a local Race code is also defined												
Patient Address	11	XAD	112	R	F	1	1					3.3.2.11
Implementation Note: NAACCR optionality: RE												
• street address	11.1	ST	40	R		1	1				17 Some Rd.	
Implementation Note: NAACCR E-Path reference: ADDR at DX--NO & STREET, Item #: 2330. NAACCR Usage: R; Default: "UNKNOWN"												
• other designation	11.2	ST	20	RE		0	1					
• city	11.3	ST	20	R		1	1				Harrisburgh	
Implementation Note: NAACCR E-Path reference: ADDR at DX--CITY, Item #: 70. NAACCR usage: R; Default: "UNKNOWN"												
• state or province	11.4	ST	2	R		1	1				PA	
Implementation Note: NAACCR E-Path reference: ADDR at DX--STATE, Item #: 80. NAACCR usage: R; Default: "ZZ"												
• zip or postal code	11.5	ST	9	R		1	1				99999	
Implementation Note: NAACCR E-Path reference: ADDR at DX--POSTAL CODE, Item #: 100. NAACCR usage: R; Default: "99999"												
• country	11.6	ID	3	RE		0	1				USA	
• address type	11.7	ID	3	RE		0	1	0190			M	
Implementation Note: NAACCR E-Path reference: ADDRESS TYPE CODE, Item #: 7520												
• other geographic designation	11.8	ST	3	RE		0	1					
• county/parish code	11.9	IS	6	RE		0	1	0289			30007	
Implementation Note: Values for this table must be defined.												
• census tract	11.10	IS	6	RE		0	1	0288			C00001	

Fields for PID	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
Implementation Note: Values for this table must be defined.												
• address representation code	11.11	ID	3	**NS**		0	0					
County Code	12	IS	4	**NS**	F	0	0	0289				3.3.2.12
Phone Number - Home	13	XTN	44	RE	T	0	*					3.3.2.13
Implementation Note: NAACCR TELEPHONE, Item#: 2360												
• [(999)] 999-9999 [X99999][C any text]	13.1	TN	20	**NS**		0	0					
• telecommunication use code	13.2	ID	3	RE		0	1	0201			PRN	
• telecommunication equipment type (ID)	13.3	ID	8	RE		0	1	0202			PH	
• Email address	13.4	ST	80	RE		0	1				patient@home.com	
• Country Code	13.5	NM	3	RE		0	1				1	
• Area/city code	13.6	NM	6	RE		0	1				999	
• Phone number	13.7	NM	10	RE		0	1				5551212	
• Extension	13.8	NM	8	RE		0	1				12345	
• any text	13.9	ST	200	RE		0	1				call if necessary	
Phone Number - Business	14	XTN	40	**NS**	F	0	0					3.3.2.14
Primary Language	15	CE	67	RE	F	0	1	0296				6.4.7.34
• identifier	15.1	ST	3	RE		0	1	0296			ENG	
Implementation Note: This is a user-defined table; recommend that RPP2 publish the value set defined by the CDC for human language codes used in the US for the table contents.												
• text	15.2	ST	20	RE		0	1				English	
• name of coding system	15.3	ST	8	C		0	1	0396	Populate if the identifier is populated		ISO0639	
• alternate identifier	15.4	ST	8	RE		0	1					
• alternate text	15.5	ST	20	RE		0	1					
• name of alternate coding system	15.6	ST	8	C		0	1	0396	Populate if the identifier is populated			
Marital Status	16	CE	80	RE	F	0	1	0002				12.3.3.4

Fields for PID	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
Implementation Note: NAACCR Item#: 150. NAACCR optionality: RE												
• identifier	16.1	ST	3	RE		0	1	0002			M	
• text	16.2	ST	20	RE		0	1				Married	
• name of coding system	16.3	ST	8	C		0	1	0396	Populate if the identifier is populated		HL70002	
• alternate identifier	16.4	ST	8	RE		0	1					
• alternate text	16.5	ST	20	RE		0	1					
• name of alternate coding system	16.6	ST	8	C		0	1	0396	Populate if the identifier is populated			
Religion	17	CE	80	**NS**	F	0	0	0006				6.4.7.39
Patient Account Number	18	CX	27	**NS**	F	0	0					3.3.2.18
SSN Number - Patient	19	ST	16	**NS**	F	0	0					3.3.2.19
Driver's License Number - Patient	20	DLN	25	**NS**	F	0	0					3.3.2.20
Mother's Identifier	21	CX	27	**NS**	F	0	0					3.3.2.21
Ethnic Group	22	CE	80	RE	F	0	1	0189				6.4.7.42
Implementation Note: Note that these values were completely user defined for v2.3.1; the values in the table here are from v2.4, when they were introduced. Note that the CDC has defined new codes based on the taxonomy of race and ethnicity published in 2005. NAACCR optionality: RE. NAACCR item #: 190												
• identifier	22.1	ST	1	RE		0	1	0189			H	
Implementation Note: This table contents was not defined until HL7 version 2.5; recommend using the 2.5 values for this.												
• text	22.2	ST	40	RE		0	1				Hispanic	
• name of coding system	22.3	ST	8	C		0	1	0396	Populate if the identifier is populated		HL70189	
• alternate identifier	22.4	ST	3	RE		0	1					
• alternate text	22.5	ST	3	RE		0	1					
• name of alternate coding system	22.6	ST	3	C		0	1		populate if the identifier is populated			
Birth Place	23	ST	60	RE	F	0	1				Somewhere here or there	3.3.2.23
Multiple Birth Indicator	24	ID	1	**NS**	F	0	0	0136				3.3.2.24

Fields for PID	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
Birth Order	25	NM	2	**NS**	F	0	0					3.3.2.25
Citizenship	26	CE	80	**NS**	F	0	0	0171				6.4.7.33
Veterans Military Status	27	CE	60	**NS**	F	0	0	0172				3.3.2.27
Nationality	28	CE	80	**NS**	F	0	0	0212				6.4.7.41
Patient Death Date and Time	29	TS	27	RE	F	0	1					3.3.2.29
• Date/Time	29.1	NM	26	RE		0	1					
• degree of precision	29.2	ST	1	**NS**		0	0					
Patient Death Indicator	30	ID	1	RE	F	0	1	0136			N	3.3.2.30

Implementation Note: NAACCR item #: 1760

Segment	Description	Opt	Rep	Min	Max	Reference
NK1	**next of kin / associated parties segment-**	**NS**	**False**			

Implementation Note: Optional for NAACCR, but not used for RPP2

Segment	Description	Opt	Rep	Min	Max	Reference
PV1	**patient visit segment-**	**RE**	**False**			

Fields

Fields for PV1	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
Set ID - PV1	1	SI	4	R	F	1	1				1	3.3.3.1
Implementation Note: NAACCR optionality: O RPP2 recommends default should be '1'												
Patient Class	2	IS	2	R	F	1	1	0004			O	3.3.3.2
Implementation Note: NAACCR Usage: R Default to "NA". Note that this value is not in table 4 set of standard HL7 values; if it is to be used, it must be added to the table.												
Assigned Patient Location	3	PL	262	RE	F	0	1					6.4.1.16
Implementation Note: NAACCR optionality: X												
• point of care	3.1	IS	20	RE		0	1	0302			H	
Implementation Note: This is drawn from a user-defined table; values must be established for this.												
• room	3.2	IS	12	R		1	1	0303			3W	
Implementation Note: This is drawn from a user-defined table; values must be established for this.												
• bed	3.3	IS	1	R		1	1	0304			B	
Implementation Note: This is drawn from a user-defined table; values must be established for this.												
• facility (HD)	3.4	HD	92	RE		0	1					
— namespace ID	3.4.1	IS	20	RE		0	1	0300			UPMC1	
— universal ID	3.4.2	ST	64	RE		0	1					
— universal ID type	3.4.3	ID	8	C		0	1	0301	Populate only if universal ID is populated			
• location status	3.5	IS	3	RE		0	1	0306				

Fields for PV1	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
Implementation Note: This is drawn from a user-defined table; values must be established for this.												
• person location type	3.6	IS	3	RE		0	1	0305				
Implementation Note: Need values defined for this.												
• building	3.7	IS	3	RE		0	1	0307			CP	
Implementation Note: This is drawn from a user-defined table; values must be established for this.												
• floor	3.8	IS	3	RE		0	1	0308			PS	
Implementation Note: This is drawn from a user-defined table; values must be established for this.												
• Location description	3.9	ST	120	RE		0	1				Penthouse suite, keep them comfortable so they pay their bill	
Admission Type	4	IS	2	RE	F	0	1	0007			R	3.3.3.4
Preadmit Number	5	CX	27	**NS**	F	0	0					3.3.3.5
Prior Patient Location	6	PL	80	**NS**	F	0	0					3.3.3.6
Attending Doctor	7	XCN	300	RE	F	0	1	0010				3.3.3.7
Implementation Note: NAACCR E-Path item # 2460. NAACCR usage: RE Note NAACCR defines this to be a repeating field, with the maximum number of repeats = 2. Note no default value assigned by group.												
• ID number (ST)	7.1	ST	10	RE		0	1				24563456	
Implementation Note: NAACCR E-Path reference: PHYSICIAN MANAGING, Item#: 2460. NAACCR Usage: R*												
• family+last name prefix	7.2	**CM**	25	R		1	1				AttendingMD	
Implementation Note: NAACCR Usage: R*. Default: "UNKNOWN"												
• given name	7.3	ST	15	R		1	1				Bones	

Fields for PV1	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
Implementation Note: NAACCR Usage: R*. Default: "UNKNOWN"												
• middle initial or name	7.4	ST	15	RE		0	1				Q	
Implementation Note: NAACCR Usage: R*												
• suffix (e.g., JR or III)	7.5	ST	5	RE		0	1				III	
• prefix (e.g., DR)	7.6	ST	5	RE		0	1				DR	
• degree (e.g., MD)	7.7	IS	6	RE		0	1	0360			MD	
• source table	7.8	IS	16	RE		0	1	0297			COHDOCS	
• assigning authority	7.9	HD	92	RE		0	1					
— namespace ID	7.9.1	IS	20	RE		0	1	0300			HHS	
Implementation Note: Use "HHS" to indicate that you are using a UPIN, or other HHS-assigned identifier. Use another namespace identifier if using a different ID.												
— universal ID	7.9.2	ST	64	C		0	1		Populate if not HHS for the ID assigning authority (not using UPIN), and there is also a universal ID.			
— universal ID type	7.9.3	ID	8	C		0	1	0301	Populate if universal ID is populated.		ISO	
• name type code	7.10	ID	1	R		1	1	0200			L	
Implementation Note: NAACCR Usage: R*. Default: none specified												
• identifier check digit	7.11	ST	3	**NS**		0	0					
• code identifying the check digit scheme employed	7.12	ID	3	**NS**		0	0					
• identifier type code	7.13	IS	8	C		0	1	0203	Populate only if the ID number in the first component is populated.		UPIN	
• assigning facility	7.14	HD	92	RE		0	1					
— namespace ID	7.14.1	IS	20	RE		0	1	0300				
— universal ID	7.14.2	ST	64	RE		0	1					

Fields for PV1	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
— universal ID type	7.14.3	ID	8	C		0	1	0301	Populate if universal ID is populated.		ISO	
• Name Representation code	7.15	ID	3	**NS**		0	0					
Referring Doctor	8	XCN	300	R	F	1	1	0010				3.3.3.8
Implementation Note: NAACCR Usage: RE. NAACCR item #: 2470. Note NAACCR defines this to be a repeating field, with the maximum number of repeats = 2.												
• ID number (ST)	8.1	ST	10	RE		0	1					
Implementation Note: NAACCR E-Path reference: REFERRING PHYSICIAN, Item#2470. NAACCR usage: R*. No default identified												
• family+last name prefix	8.2	**CM**	25	R		1	1				ReferringMD	
Implementation Note: NAACCR Usage: RE. Default: "UNKNOWN"												
• given name	8.3	ST	15	R		1	1				UNKNOWN	
Implementation Note: NAACCR Usage: R*. Default: "UNKNOWN"												
• middle initial or name	8.4	ST	15	RE		0	1					
Implementation Note: Usage: R*												
• suffix (e.g., JR or III)	8.5	ST	5	RE		0	1					
• prefix (e.g., DR)	8.6	ST	5	RE		0	1					
• degree (e.g., MD)	8.7	IS	6	RE		0	1	0360			MD	
• source table	8.8	IS	16	RE		0	1	0297				
• assigning authority	8.9	HD	92	RE		0	1					
— namespace ID	8.9.1	IS	20	RE		0	1	0300			HHS	
Implementation Note: Use "HHS" to indicate that you are using a UPIN, or other HHS-assigned identifier. Use another namespace identifier if using a different ID.												
— universal ID	8.9.2	ST	64	C		0	1		Populate if not HHS for the ID assigning authority (not using UPIN), and there is also a universal ID.			

Fields for PV1	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
— universal ID type	8.9.3	ID	8	C		0	1	0301	Populate if universal ID is populated.		ISO	
• name type code	8.10	ID	10	R		1	1	0200			L	
Implementation Note: Usage: R*. Default: "L" for 'legal name'												
• identifier check digit	8.11	ST	3	**NS**		0	0					
• code identifying the check digit scheme employed	8.12	ID	3	**NS**		0	0					
• identifier type code	8.13	IS	8	C		0	1	0203	Populate only if the ID number in the first component is populated.		UPIN	
• assigning facility	8.14	HD	92	RE		0	1					
— namespace ID	8.14.1	IS	20	C		0	1	0300	Populate only if using a local identifier for the physician, rather than a universal ID.			
— universal ID	8.14.2	ST	64	C		0	1		Populate only if using a universal identifier, such as a DEA number, instead of a UPIN.			
— universal ID type	8.14.3	ID	8	C		0	1	0301	Populate if universal ID is populated.		ISO	
• Name Representation code	8.15	ID	3	**NS**		0	0					
Consulting Doctor	9	XCN	300	RE	T	0	*	0010				3.3.3.9
Implementation Note: NAACCR optionality: RE. Note NAACCR defines this to be a repeating field, with the maximum number of repeats = 2.												
• ID number (ST)	9.1	ST	10	RE		0	1					
• family+last name prefix	9.2	**CM**	25	R		1	1				ConsultingMD	
Implementation Note: Usage: RE. Default: "UNKNOWN"												
• given name	9.3	ST	15	R		1	1				UNKNOWN	

Fields for PV1	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
Implementation Note: Usage: R*. Default: "UNKNOWN"												
• middle initial or name	9.4	ST	15	RE		0	1					
• suffix (e.g., JR or III)	9.5	ST	5	RE		0	1					
• prefix (e.g., DR)	9.6	ST	5	RE		0	1					
• degree (e.g., MD)	9.7	IS	6	RE		0	1	0360			MD	
• source table	9.8	IS	16	RE		0	1	0297				
• assigning authority	9.9	HD	92	RE		0	1					
— namespace ID	9.9.1	IS	20	RE		0	1	0300			HHS	
Implementation Note: Use "HHS" to indicate that you are using a UPIN, or other HHS-assigned identifier. Use another namespace identifier if using a different ID.												
— universal ID	9.9.2	ST	64	C		0	1		Populate if not HHS for the ID assigning authority (not using UPIN), and there is also a universal ID.			
— universal ID type	9.9.3	ID	8	C		0	1	0301	Populate only if universal ID is populated.		ISO	
• name type code	9.10	ID	1	R		1	1	0200			L	
Implementation Note: Usage: R*. Default: "L" for 'legal name'												
• identifier check digit	9.11	ST	3	**NS**		0	0					
• code identifying the check digit scheme employed	9.12	ID	3	**NS**		0	0					
• identifier type code	9.13	IS	8	C		0	1	0203	Populate if an ID is supplied in addition to, or alternative to, the name.		UPIN	
• assigning facility	9.14	HD	92	C		0	1		Populate if ID number is populated			
— namespace ID	9.14.1	IS	20	RE		0	1	0300				
— universal ID	9.14.2	ST	64	RE		0	1					
— universal ID type	9.14.3	ID	8	C		0	1	0301	Populate only if universal ID is populated.		ISO	

Fields for PV1	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
• Name Representation code	9.15	ID	3	**NS**		0	0					
Hospital Service	10	IS	3	**NS**	F	0	0	0069				3.3.3.10
Temporary Location	11	PL	80	**NS**	F	0	0					3.3.3.11
Preadmit Test Indicator	12	IS	2	**NS**	F	0	0	0087				3.3.3.12
Re-admission Indicator	13	IS	2	**NS**	F	0	0	0092				3.3.3.13
Admit Source	14	IS	3	**NS**	F	0	0	0023				3.3.3.14
Ambulatory Status	15	IS	2	**NS**	F	0	0	0009				6.4.7.32
VIP Indicator	16	IS	2	**NS**	F	0	0	0099				3.3.3.16
Admitting Doctor	17	XCN	300	RE	T	0	*	0010				3.3.3.17
Implementation Note: NAACCR optionality: RE. Note NAACCR defines this to be a repeating field, with the maximum number of repeats = 2.												
• ID number (ST)	17.1	ST	10	RE		0	1				D56747	
• family+last name prefix	17.2	**CM**	25	R		1	1				AdmittingMD	
• given name	17.3	ST	15	R		1	1				UNKNOWN	
Implementation Note: Usage: R*. Default: "UNKNOWN"												
• middle initial or name	17.4	ST	15	RE		0	1					
• suffix (e.g., JR or III)	17.5	ST	5	RE		0	1					
• prefix (e.g., DR)	17.6	ST	5	RE		0	1					
• degree (e.g., MD)	17.7	IS	6	RE		0	1	0360			MD	
• source table	17.8	IS	16	RE		0	1	0297				
• assigning authority	17.9	HD	87	C		0	1		Populate if ID number is populated			
Implementation Note: Since the ID is not supported, there is no support for the authority or facility that assigns the ID.												
— namespace ID	17.9.1	IS	20	RE		0	1	0300			HHS	
Implementation Note: Use "HHS" to indicate that you are using a UPIN, or other HHS-assigned identifier. Use another namespace identifier if using a different ID.												
— universal ID	17.9.2	ST	64	RE		0	1					
— universal ID type	17.9.3	ID	3	C		0	1	0301	Populate only if universal ID is populated.		ISO	

Fields for PV1	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
• name type code	17.10	ID	1	R		1	1	0200			L	
Implementation Note: Usage: R*. Default: "L" for 'legal name'												
• identifier check digit	17.11	ST	3	**NS**		0	0					
• code identifying the check digit scheme employed	17.12	ID	3	**NS**		0	0					
• identifier type code	17.13	IS	8	**NS**		0	0	0203				
• assigning facility	17.14	HD	31	RE		0	1					
— namespace ID	17.14.1	IS	20	C		0	1	0300	Populate only if using a local identifier for the physician, rather than a universal ID.			
— universal ID	17.14.2	ST	3	C		0	1	0064	Populate only if using a universal identifier, such as a DEA number, instead of a UPIN.			
— universal ID type	17.14.3	ID	8	C		0	1	0301	Populate only if universal ID is populated.		ISO	
• Name Representation code	17.15	ID	3	**NS**		0	0					
Patient Type	18	IS	2	RE	F	0	1	0018			A	6.4.1.18
Implementation Note: This table is user defined, and will need to have values defined for it. NAACCR optionality: X												
Visit Number	19	CX	300	RE	F	0	1					3.3.3.19
Implementation Note: NAACCR optionality: X												
• ID	19.1	ST	20	R		1	1				C01-242389484	
• check digit	19.2	ST	0	**NS**		0	0					
• code identifying the check digit scheme employed	19.3	ID	3	**NS**		0	0					
• assigning authority	19.4	HD	92	R		1	1					
— namespace ID	19.4.1	IS	20	RE		0	1	0300			COH_ADT01	
— universal ID	19.4.2	ST	64	RE		0	1					

Fields for PV1	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
— universal ID type	19.4.3	ID	8	C		0	1	0301	Populate only if universal ID is populated.		ISO	
• identifier type code	19.5	IS	3	R		1	1	0203			VN	
• assigning facility	19.6	HD	92	R		1	1					
— namespace ID	19.6.1	IS	20	RE		0	1	0300			COHBLDGS	
— universal ID	19.6.2	ST	64	RE		0	1					
— universal ID type	19.6.3	ID	8	C		0	1	0301	Populate if Universal ID is populated.		ISO	
Financial Class	20	FC	50	RE	T	0	*	0064				3.3.3.20
Implementation Note: NAACCR optionality: X												
• Financial Class	20.1	IS	4	R		1	1	0064			H03	
Implementation Note: This table is user-defined, and will need values defined for it.												
• Effective Date	20.2	TS	27	R		1	1					
— Date/Time	20.2.1	NM	26	R		1	1				20060217	
Implementation Note: YYYYMMDD[HHHMM[SS[.SSSS]]][+-ZZZZ]												
— degree of precision	20.2.2	ST	1	**NS**		0	0					
Charge Price Indicator	21	IS	2	**NS**	F	0	0	0032				3.3.3.21
Courtesy Code	22	IS	2	**NS**	F	0	0	0045				3.3.3.22
Credit Rating	23	IS	2	**NS**	F	0	0	0046				3.3.3.23
Contract Code	24	IS	2	**NS**	F	0	0	0044				3.3.3.24
Contract Effective Date	25	DT	8	**NS**	F	0	0					3.3.3.25
Contract Amount	26	NM	12	**NS**	F	0	0					3.3.3.26
Contract Period	27	NM	3	**NS**	F	0	0					3.3.3.27
Interest Code	28	IS	2	**NS**	F	0	0	0073				3.3.3.28
Transfer to Bad Debt Date	29	DT	8	**NS**	F	0	0					3.3.3.30
Bad Debt Agency Code	30	IS	10	**NS**	F	0	0	0021				3.3.3.31
Transfer to Bad Debt Code	31	IS	1	**NS**	F	0	0	0110				3.3.3.29
Bad Debt Transfer Amount	32	NM	12	**NS**	F	0	0					3.3.3.32
Bad Debt Recovery Amount	33	NM	12	**NS**	F	0	0					3.3.3.33

Fields for PV1	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
Delete Account Indicator	34	IS	1	**NS**	F	0	0	0111				3.3.3.34
Delete Account Date	35	DT	8	**NS**	F	0	0					3.3.3.35
Discharge Disposition	36	IS	3	RE	F	0	1	0112			5	3.3.3.36
Implementation Note: NAACCR optionality: X												
Discharged to Location	37	CM_DLD	30	**NS**	F	0	0	0113				3.3.3.37
Diet Type	38	CE	80	**NS**	F	0	0	0114				3.3.3.38
Servicing Facility	39	IS	2	**NS**	F	0	0	0115				3.3.3.39
Bed Status	40	IS	1	**NS**	F	0	0	0116				3.3.7.2
Account Status	41	IS	2	**NS**	F	0	0	0117				3.3.3.41
Pending Location	42	PL	80	**NS**	F	0	0					3.3.3.42
Prior Temporary Location	43	PL	80	**NS**	F	0	0					3.3.3.43
Admit Date/Time	44	TS	27	RE	F	0	1					3.3.3.44
Implementation Note: NAACCR optionality: X												
• Date/Time	44.1	NM	26	R		1	1				200606011530	
Implementation Note: YYYYMMDD[HHHMM[SS[.SSSS]]][+-ZZZZ]												
• degree of precision	44.2	ST	1	**NS**		0	0					
Discharge Date/Time	45	TS	27	RE	T	0	*					3.3.3.45
Implementation Note: NAACCR optionality: X												
• Date/Time	45.1	NM	26	R		1	1				200606041115	
Implementation Note: YYYYMMDD[HHHMM[SS[.SSSS]]][+-ZZZZ]												
• degree of precision	45.2	ST	1	**NS**		0	0					
Current Patient Balance	46	NM	12	**NS**	F	0	0					3.3.3.46
Total Charges	47	NM	12	**NS**	F	0	0					3.3.3.47

Fields for PV1	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
Total Adjustments	48	NM	12	**NS**	F	0	0					3.3.3.48
Total Payments	49	NM	12	**NS**	F	0	0					3.3.3.49
Alternate Visit ID	50	CX	27	**NS**	F	0	0	0203				3.3.3.50
Visit Indicator	51	IS	1	**NS**	F	0	0	0326				3.3.3.51
Other Healthcare Provider	52	XCN	60	**NS**	F	0	0	0010				3.3.3.52

Segment Group Definition

Seg Group	Description	Opt	Rep	Min	Max	Reference
Group G1R	**Segment Group G1R**	**R**	**True**	**1**	*****	

Segment	Description	Opt	Rep	Min	Max	Reference
ORC	**common order segment**	**RE**	**False**			

Fields

Fields for ORC	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
Order Control	1	ID	2	R	F	1	1	0119			RE	4.3.1.1
Placer Order Number	2	EI	112	RE	F	0	1					9.5.1.14
Implementation Note: NAACCR optionality: X												
• entity identifier	2.1	ST	20	R		1	1				3466543	
• namespace ID	2.2	IS	20	R		1	1	0300			COHBLDGS	
• universal ID	2.3	ST	64	C		0	1		Populate if no Namespace ID			
• universal ID type	2.4	ID	8	C		0	1	0301	Populate only if universal ID is populated.			
Filler Order Number	3	EI	22	**NS**	F	0	0					9.5.1.15
Placer Group Number	4	EI	22	**NS**	F	0	0					10.5.2.4
Order Status	5	ID	2	**NS**	F	0	0	0038				4.3.1.5
Response Flag	6	ID	1	**NS**	F	0	0	0121				4.3.1.6
Quantity/Timing	7	TQ	200	**NS**	F	0	0					7.3.1.27
Parent	8	CM_EIP	200	**NS**	F	0	0					4.3.1.8
Date/Time of Transaction	9	TS	27	RE	F	0	1					4.3.1.9
Implementation Note: Date/Time accessioning done at Lab. NAACCR optionality: X												
• Date/Time	9.1	NM	26	R		1	1				200606041437	

Fields for ORC	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
Implementation Note: YYYYMMDD[HHHMM[SS[.SSSS]]][+-ZZZZ]												
• degree of precision	9.2	ST	1	**NS**		0	0					
Entered By	10	XCN	300	RE	T	0	*					4.3.1.10
Implementation Note: NAACCR optionality: X												
• ID number (ST)	10.1	ST	20	RE		0	1				B74954	
• family+last name prefix	10.2	**CM**	25	R		1	1				Accessioner	
Implementation Note: NAACCR Usage: R*. Default: "UNKNOWN"												
• given name	10.3	ST	15	RE		0	1				UNKNOWN	
Implementation Note: Usage: R*. Default: "UNKNOWN"												
• middle initial or name	10.4	ST	15	RE		0	1					
• suffix (e.g., JR or III)	10.5	ST	5	RE		0	1					
• prefix (e.g., DR)	10.6	ST	5	RE		0	1					
• degree (e.g., MD)	10.7	IS	6	RE		0	1	0360			MT	
• source table	10.8	IS	10	C		0	1	0297	Populate if ID number is populated.		COHDOCS	
• assigning authority	10.9	HD	92	C		0	1		Populate if the ID number is populated.			
— namespace ID	10.9.1	IS	20	RE		0	1	0300			HHS	
Implementation Note: Use "HHS" to indicate that you are using a UPIN, or other HHS-assigned identifier. Use another namespace identifier if using a different ID.												
— universal ID	10.9.2	ST	64	RE		0	1					
— universal ID type	10.9.3	ID	8	C		0	1	0301	Populate only if universal ID is populated.		ISO	
• name type code	10.10	ID	1	R		1	1	0200			L	
Implementation Note: Usage: R*. Default: "L"												
• identifier check digit	10.11	ST	3	**NS**		0	0					

Fields for ORC	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
• code identifying the check digit scheme employed	10.12	ID	3	**NS**		0	0					
• identifier type code	10.13	IS	8	C		0	1	0203	Populate if ID number is populated.		UPIN	
• assigning facility	10.14	HD	92	C		0	1		Populate if ID number is populated.			
— namespace ID	10.14.1	IS	20	C		0	1	0300	Populate only if there is a locally defined ID number.		HHS	
— universal ID	10.14.2	ST	64	C		0	1		Populate only if a universally identified namespace is used instead of a local namespace ID.			
— universal ID type	10.14.3	ID	8	C		0	1	0301	Populate only if universal ID is populated.		ISO	
• Name Representation code	10.15	ID	3	**NS**		0	0					
Verified By	11	XCN	120	**NS**	F	0	0					4.3.1.11
Ordering Provider	12	XCN	120	**NS**	F	0	0					7.3.1.16
Enterer's Location	13	PL	80	**NS**	F	0	0					4.3.1.13
Call Back Phone Number	14	XTN	40	**NS**	F	0	0					4.3.1.14
Order Effective Date/Time	15	TS	27	**NS**	F	0	0					4.3.1.15
Order Control Code Reason	16	CE	200	**NS**	F	0	0					4.3.1.16
Entering Organization	17	CE	60	**NS**	F	0	0					4.3.1.17
Entering Device	18	CE	60	**NS**	F	0	0					4.3.1.18
Action By	19	XCN	120	**NS**	F	0	0					4.3.1.19
Advanced Beneficiary Notice Code	20	CE	40	**NS**	F	0	0	0339				4.3.1.20
Ordering Facility Name	21	XON	300	R	F	1	1					4.3.1.21
Implementation Note: NAACCR Optionality: C. NAACCR Item numbers: 7190, 7200												
• organization name	21.1	ST	80	R		1	1				UNKNOWN	
Implementation Note: NAACCR E-Path reference: PATH ORDER FACILITY NAME, Item # 7200. NAACCR Usage: R*. Default: "UNKNOWN"												
• organization name type code	21.2	IS	3	R		1	1	0204			L	

Fields for ORC	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
Implementation Note: NAACCR Usage: R*. Default: suggest "L" for legal name												
• ID number (NM)	21.3	NM	25	RE		0	1					
Implementation Note: NAACCR E-Path reference: PATH ORDERING FACILITY NUMBER (AHA NUMBER), Item#: 7190												
• check digit	21.4	NM	3	**NS**		0	0					
• code identifying the check digit scheme employed	21.5	ID	3	**NS**		0	0					
• assigning authority	21.6	HD	92	C		0	1		Populate if ID number is populated.			
— namespace ID	21.6.1	IS	20	RE		0	1	0300				
— universal ID	21.6.2	ST	64	RE		0	1					
— universal ID type	21.6.3	ID	8	C		0	1	0301	Populate only if universal ID is populated.			
• identifier type code	21.7	IS	8	C		0	1	0203	Populate if ID number is populated.		XX	
• assigning facility ID	21.8	HD	92	C		0	1		Populate if the ID number is populated.			
— namespace ID	21.8.1	IS	20	RE		0	1	0300				
— universal ID	21.8.2	ST	64	RE		0	1					
— universal ID type	21.8.3	ID	8	C		0	1	0301	Populate only if universal ID is populated.			
• Name Representation code	21.9	ID	3	**NS**		0	0					
Ordering Facility Address	22	XAD	112	RE	F	0	1					4.3.1.22
Implementation Note: NAACCR Usage: RE. NAACCR item numbers: 7210, 7220, 7230, 7240, 7235												
• street address	22.1	ST	40	RE		0	1				UNKNOWN	
Implementation Note: NAACCR E-Path reference: PATH ORDER FAC ADDR--NO & ST, Item#: 7210. NAACCR Usage: R*. Default: "UNKNOWN"												
• other designation	22.2	ST	20	RE		0	1					
• city	22.3	ST	20	RE		0	1				UNKNOWN	
Implementation Note: NAACCR E-Path reference: PATH ORDER FAC ADDR--CITY, Item#: 7220 NAACCR Usage: R* Default: "UNKNOWN"												

Fields for ORC	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
• state or province	22.4	ST	2	RE		0	1				PA	
Implementation Note: NAACCR E-Path reference: PATH ORDER FAC ADDR--STATE, Item # 7230 NAACCR Usage: R* Default: "ZZ"												
• zip or postal code	22.5	ST	9	RE		0	1				99999	
Implementation Note: NAACCR E-Path reference: PATH ORDER FAC ADDR--POSTAL CODE, Item#: 7240 NAACCR Usage: R* Default: "99999"												
• country	22.6	ID	3	RE		0	1				USA	
Implementation Note: NAACCR E-Path reference: PATH ORDER FAC ADDR--COUNTRY, Item#: 7235												
• address type	22.7	ID	3	RE		0	1	0190			B	
• other geographic designation	22.8	ST	3	RE		0	1					
• county/parish code	22.9	IS	6	RE		0	1	0289				
Implementation Note: Values for this table must be defined.												
• census tract	22.10	IS	6	RE		0	1	0288				
Implementation Note: Values for this table must be defined.												
• address representation code	22.11	ID	3	**NS**		0	0					
Ordering Facility Phone Number	23	XTN	138	R	F	1	1					4.3.1.23
Implementation Note: NAACCR E-Path reference: PATH ORDER FACILITY--TELEPHONE, Item#: 7250 NAACCR optionality: RE No default value specified												
• [(999)] 999-9999 [X99999][C any text]	23.1	TN	20	**NS**		0	0					
• telecommunication use code	23.2	ID	3	RE		0	1	0201			WPN	
• telecommunication equipment type (ID)	23.3	ID	8	RE		0	1	0202			PH	
• Email address	23.4	ST	80	RE		0	1					
• Country Code	23.5	NM	3	RE		0	1				1	
• Area/city code	23.6	NM	6	R		1	1				412	
Implementation Note: Usage: R*. No default value specified												
• Phone number	23.7	NM	10	R		1	1				5551234	

Fields for ORC	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
Implementation Note: Usage: R*. No default value specified												
• Extension	23.8	NM	8	RE		0	1				7734	
• any text	23.9	ST	200	RE		0	1					
Ordering Provider Address	24	XAD	129	RE	F	0	1					4.3.1.24
Implementation Note: Optional in RPP2; NAACCR optionality: RE. NAACCR item numbers: 7140, 7150, 7160, 7170, 7165												
• street address	24.1	ST	40	R		1	1				UNKNOWN	
Implementation Note: NAACCR E-Path reference: PATH ORDER CLIENT/PHYS ADDR--STREET, Item#: 7140 Usage: R* Default: "UNKNOWN"												
• other designation	24.2	ST	20	RE		0	1					
• city	24.3	ST	20	R		1	1				UNKNOWN	
Implementation Note: NAACCR E-Path reference: PATH ORDER CLIENT/PHYSADDR--CITY, Item#: 7150 Usage: R* Default: "UNKNOWN"												
• state or province	24.4	ST	2	R		1	1				PA	
Implementation Note: NAACCR E-Path reference: PATH ORDER CLIENT/PHYSADDR--STATE, Item#: 7160 Usage: R* Default: "ZZ"												
• zip or postal code	24.5	ST	9	R		1	1				99999	
Implementation Note: NAACCR E-Path reference: PATH ORDER CLIENT/PHYSADDR--POSTCOD, Item#: 7170 Usage: R* Default: "99999"												
• country	24.6	ID	3	RE		0	1				USA	
Implementation Note: NAACCR E-Path reference: PATH ORDER CLIENT/PHYSADDR--COUNTRY, Item#: 7165												
• address type	24.7	ID	3	RE		0	1	0190			O	
• other geographic designation	24.8	ST	20	RE		0	1					
• county/parish code	24.9	IS	6	RE		0	1	0289				
• census tract	24.10	IS	6	RE		0	1	0288				
Implementation Note: If this is used, it will have to be valued with Census Tract codes.												
• address representation code	24.11	ID	3	**NS**		0	0					

Segment	Description	Opt	Rep	Min	Max	Reference
OBR	**observation request segment**	**R**	**False**			

Fields

Fields for OBR	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
Set ID - OBR	1	SI	4	R	F	1	1				1	7.3.1.1
Placer Order Number	2	EI	110	RE	F	0	1					9.5.1.14
• entity identifier	2.1	ST	20	RE		0	1					
• namespace ID	2.2	IS	20	RE		0	1	0300				
• universal ID	2.3	ST	64	RE		0	1					
• universal ID type	2.4	ID	6	C		0	1	0301	Populate only if universal ID is populated.			
Filler Order Number	3	EI	110	R	F	1	1					9.5.1.15
Implementation Note: NAACCR item #: 7090												
• entity identifier	3.1	ST	20	R		1	1				2345T-24563U4567	
Implementation Note: NAACCR E-Path reference: PATH REPORT NUMBER, Item#: 7090												
• namespace ID	3.2	IS	20	R		1	1	0300			COHCPTHL	
• universal ID	3.3	ST	64	C		0	1		Populate if namespace ID is not populated.			
• universal ID type	3.4	ID	6	C		0	1	0301	Populate only if universal ID is populated.			

Universal Service ID	4	CE	196	R	F	1	1					Coded Cancer Report
Implementation Note: NAACCR item #: 7480												
• identifier	4.1	ST	12	R		1	1			True	11529-5	
Implementation Note: PATH--REPORT TYPE, Item#: 7480 This should indicate the general contents of the message so that receivers may route the message properly. The precise checklist is in OBR-20												
• text	4.2	ST	80	R		1	1			True	STUDY REPORT:FIND:PT:PATIENT:DOC:SURGICAL PATHOLOGY	
Implementation Note: Short name for this is: SURGICAL PATH REPORT. The text field contains the full formal LOINC name.												
• name of coding system	4.3	ST	6	R		1	1	0396		True	LN	
Implementation Note: Will generally be a LOINC code for the procedure done.												
• alternate identifier	4.4	ST	12	RE		0	1					
• alternate text	4.5	ST	80	RE		0	1					
• name of alternate coding system	4.6	ST	6	RE		0	1					
Priority-OBR	5	ID	2	**NS**	F	0	0					7.3.1.5
Requested Date/time	6	TS	27	**NS**	F	0	0					7.3.1.6
Observation Date/Time #	7	TS	27	R	F	1	1					7.3.1.7
Implementation Note: NAACCR item #: 7320												
• Date/Time	7.1	NM	26	R		1	1				200606031435	
Implementation Note: NAACCR E-Path reference: PATH--DATE SPEC COLLECTION, Item #:7320												
• degree of precision	7.2	ST	1	**NS**		0	0					
Observation End Date/Time #	8	TS	27	**NS**	F	0	0					7.3.1.8

Collection Volume *	9	CQ	21	**NS**	F	0	0					7.3.1.9
Collector Identifier *	10	XCN	60	**NS**	F	0	0					7.3.1.10
Specimen Action Code *	11	ID	1	**NS**	F	0	0	0065				7.3.1.11
Danger Code	12	CE	60	**NS**	F	0	0					7.3.1.12
Relevant Clinical Info.	13	ST	300	RE	F	0	1					7.3.1.13
Implementation Note: NAACCR optionality: X												
Specimen Received Date/Time *	14	TS	27	RE	F	0	1					7.3.1.14
Implementation Note: NAACCR optionality: RE												
• Date/Time	14.1	NM	26	R		1	1				200606030900	
Implementation Note: YYYYMMDD[HHHMM[SS[.SSSS]]][+-ZZZZ]												
• degree of precision	14.2	ST	1	**NS**		0	0					
Specimen Source	15	CM_SPS	530	RE	F	0	1	0070				7.3.1.15
Implementation Note: NAACCR optionality: RE												
• specimen source name or code	15.1	CE	124	RE		0	1	0070				
— identifier	15.1.1	ST	12	RE		0	1	0070			SKN	
— text	15.1.2	ST	40	RE		0	1				Skin	
— name of coding system	15.1.3	ST	8	RE		0	1	0396			HL70070	
— alternate identifier	15.1.4	ST	12	RE		0	1				SK123	
— alternate text	15.1.5	ST	40	RE		0	1				Shoulder Skin	
— name of alternate coding system	15.1.6	ST	12	RE		0	1				SPECSRC	
• additives	15.2	TX	40	RE		0	1				formalin	
• freetext	15.3	TX	80	RE		0	1					
• body site	15.4	CE	118	RE		0	1					
— identifier	15.4.1	ST	12	RE		0	1	0163			LSC	
— text	15.4.2	ST	40	RE		0	1				Left subclavian	

— name of coding system	15.4.3	ST	8	RE		0	1	0396			HL70163	
— alternate identifier	15.4.4	ST	12	RE		0	1					
— alternate text	15.4.5	ST	40	RE		0	1					
— name of alternate coding system	15.4.6	ST	6	RE		0	1					
• site modifier	15.5	CE	113	**NS**		0	0					
• collection modifier method code	15.6	CE	116	RE		0	1					
Implementation Note: This has been poorly defined in HL7, and has no table or code system associated with it. The standard suggests: F (Frozen); R (Refrigerated). Recommend that this is not supported in RPP2.												
— identifier	15.6.1	ST	12	RE		0	1					
Implementation Note: This has been poorly defined in HL7, and has no table or code system associated with it. The standard suggests: F (Frozen); R (Refrigerated). Recommend that this is not supported in RPP2.												
— text	15.6.2	ST	40	RE		0	1					
— name of coding system	15.6.3	ST	6	RE		0	1	0396				
— alternate identifier	15.6.4	ST	12	RE		0	1					
— alternate text	15.6.5	ST	40	RE		0	1					
— name of alternate coding system	15.6.6	ST	6	RE		0	1					
Ordering Provider	16	XCN	300	RE	F	0	1					7.3.1.16
Implementation Note: RPP2 optionality: C. This is the surgeon. Should have both the ID number and the name. NAACCR item #s: 7100, 7110, 7120, 7130.												
• ID number (ST)	16.1	ST	20	R		1	1				A68453	
Implementation Note: NAACCR E-Path reference: PATH ORDER CLIENT/PHYS--LICNO., Item#: 7100 Usage: R*. No default specified												
• family+last name prefix	16.2	**CM**	25	R		1	1				SurgeonMD	
Implementation Note: NAACCR E-Path reference: PATH ORDER CLIENT/PHYS--LNAME, Item#: 7110 Usage: R* Default: "UNKNOWN"												
• given name	16.3	ST	15	R		1	1				UNKNOWN	
Implementation Note: NAACCR E-Path reference: PATH ORDER CLIENT/PHYS--FNAME, Item #: 7120 Usage: R*												

• middle initial or name	16.4	ST	15	RE		0	1				Q	
Implementation Note: NAACCR E-Path reference: PATH ORDER CLIENT/PHYS--MNAME, Item #: 7130												
• suffix (e.g., JR or III)	16.5	ST	3	RE		0	1				JR	
• prefix (e.g., DR)	16.6	ST	3	RE		0	1				DR	
• degree (e.g., MD)	16.7	IS	3	RE		0	1	0360			MD	
• source table	16.8	IS	10	C		0	1	0297	Populate if ID Number is populated.			
• assigning authority	16.9	HD	90	R		1	1					
— namespace ID	16.9.1	IS	20	C		0	1	0300	Populate if no universal ID.		HHS	
Implementation Note: Usage: R*												
— universal ID	16.9.2	ST	64	C		0	1		Populate if no namespace ID.			
— universal ID type	16.9.3	ID	6	C		0	1	0301	Populate only if universal ID is populated.		ISO	
• name type code	16.10	ID	1	R		1	1	0200			L	
Implementation Note: Usage: R*. No default defined; suggest "L" - legal name												
• identifier check digit	16.11	ST	3	**NS**		0	0					
• code identifying the check digit scheme employed	16.12	ID	3	**NS**		0	0					

• identifier type code	16.13	IS	6	C		0	1	0203	Populate only if identifier is populated		UPIN	
• assigning facility	16.14	HD	90	R		1	1					
Implementation Note: Usage: R*												
— namespace ID	16.14.1	IS	20	RE		0	1	0300				
— universal ID	16.14.2	ST	64	RE		0	1					
— universal ID type	16.14.3	ID	6	C		0	1	0301	Populate only if universal ID is populated.		ISO	
• Name Representation code	16.15	ID	3	**NS**		0	0					
Order Callback Phone Number	17	XTN	44	RE	T	0	2					7.3.1.17
Implementation Note: NAACCR E-Path reference: PATH ORDER CLIENT/PHYS--PHONE, NAACCR optionality: O. NAACCR Item #: 7180												
• [(999)] 999-9999 [X99999][C any text]	17.1	TN	20	**NS**		0	0					
• telecommunication use code	17.2	ID	3	RE		0	1	0201			ASN	
• telecommunication equipment type (ID)	17.3	ID	3	RE		0	1	0202			PH	
• Email address	17.4	ST	80	RE		0	1					
• Country Code	17.5	NM	3	RE		0	1					
• Area/city code	17.6	NM	6	R		1	1				412	
• Phone number	17.7	NM	10	R		1	1				5551234	
• Extension	17.8	NM	8	RE		0	1				6547	
• any text	17.9	ST	200	RE		0	1					
Placer Field 1	18	ST	60	**NS**	F	0	0					7.3.1.18

Placer Field 2	19	ST	60	**NS**	F	0	0					7.3.1.19
Filler Field 1 +	20	CM_CWE2	1392	R	F	1	1					7.3.1.20
Implementation Note: Checklist Identifier Code and Versions. Special composite: Must be two CNE instances. Must extend this to be a 12 component field. NAACCR optionality: X												
• Checklist Identifier	20.1	CWE	662	R		1	1					
Implementation Note: Checklist identifier												
— identifier	20.1.1	ST	10	R		1	1	99941			406058005	
Implementation Note: SNOMED ID for the checklist identifier.												
— text	20.1.2	ST	200	**NS**		0	0					
— name of coding system	20.1.3	ST	8	R		1	1	0396		True	SCT	
Implementation Note: Must be SNOMED CT; "SCT"												
— alternate identifier	20.1.4	ST	10	RE		0	1	99942			R-10139	
Implementation Note: Should be the legacy-style SNOMED code for the checklist												
— alternate text	20.1.5	ST	3	**NS**		0	0					
— name of alternate coding system	20.1.6	ST	8	RE		0	1	0396			SCT2	
Implementation Note: Must indicate the SNOMED CT legacy-style codes; SCT2												
— coding system version ID	20.1.7	ST	20	RE		0	1					
Implementation Note: should contain the SNOMED release version ID												
— alternate coding system version ID	20.1.8	ST	20	RE		0	1					
Implementation Note: May also contain the SNOMED release version ID; must be the same as the previous field if it is populated.												
— original text	20.1.9	ST	200	RE		0	1				MELANOMA OF THE SKIN: Excision, Re-Excision	
Implementation Note: leave empty, unused in RPP2												

• Checklist Version Identifier	20.2	CWE	662	R		1	1					
— identifier	20.2.1	ST	10	RE		0	1					
Implementation Note: For future expansion if the version identifiers are formalized as coded terms.												
— text	20.2.2	ST	200	RE		0	1					
— name of coding system	20.2.3	ST	8	C		0	1	0396	Must be populated if the identifier component is populated.			
Implementation Note: For future expansion if the version identifiers are formalized as coded terms. This is not likely to be SNOMED-CT, but may end up being some kind of local or HL7 table.												
— alternate identifier	20.2.4	ST	3	**NS**		0	0					
— alternate text	20.2.5	ST	3	**NS**		0	0					
— name of alternate coding system	20.2.6	ST	3	**NS**		0	0					
— coding system version ID	20.2.7	ST	20	C		0	1		Populate only if the identifier component is populated.			
Implementation Note: For future expansion if the version identifiers are formalized as coded terms.												
— alternate coding system version ID	20.2.8	ST	3	**NS**		0	0					
— original text	20.2.9	ST	200	R		1	1				April 26, 2006 release	
Implementation Note: Use for the string version identification for the checklist.												
Filler Field 2 +	21	ST	20	**NS**	F	0	0					7.3.1.21
Results Rpt/Status Chng - Date/Time +	22	TS	27	RE	F	0	1					7.3.1.22
Implementation Note: NAACCR optionality: RE. NAACCR item #: 7530.												

• Date/Time	22.1	NM	26	R		1	1				200606031324	
Implementation Note: NAACCR E-Path reference: DATE/TIME RESULTS WRITTEN AS AREPORT OR REPORT CHANGED, Item #: 7530												
• degree of precision	22.2	ST	1	**NS**		0	0					
Charge to Practice +	23	CM_MOC	40	**NS**	F	0	0					7.3.1.23
Diagnostic Serv Sect ID	24	ID	10	**NS**	F	0	0	0074				7.3.1.24
Result Status +	25	ID	1	R	F	1	1	0123			F	7.3.1.25
Implementation Note: NAACCR E-Path reference: PATH--RESULT STATUS, Item#: 7330. NAACCR optionality: R. No default specified; suggest "F" - Final Results												
Parent Result +	26	CM_PRL	200	**NS**	F	0	0					7.3.1.26
Quantity/Timing	27	TQ	200	**NS**	F	0	0					7.3.1.27
Result Copies To	28	XCN	150	**NS**	F	0	0					7.3.1.28
Parent	29	CM_EIP	200	**NS**	F	0	0					7.3.1.29
Transportation Mode	30	ID	20	**NS**	F	0	0	0124				7.3.1.30
Reason for Study	31	CE	300	**NS**	F	0	0					7.3.1.31
Principal Result Interpreter +	32	CM_NDL	376	R	F	1	1					7.3.1.32
Implementation Note: NAACCR item #s: 7260, 7270, 7280, 7290, 7300, 7310												
• name	32.1	CN	182	R		1	1					
Implementation Note: Usage: R*												
— ID number (ST)	32.1.1	ST	20	R		1	1				G46396	
Implementation Note: NAACCR E-Path reference: PATHOLOGIST LIC NUMBER, Item #: 7300. Usage: R*. No default specified; use UPIN if available.												
— family name	32.1.2	ST	25	R		1	1				InterpretingMD	
Implementation Note: NAACCR E-Path reference: PATHOLOGIST LAST NAME, Item #: 7260. Usage: R*. Default: "UNKNOWN"												
— given name	32.1.3	ST	15	R		1	1				UNKNOWN	
Implementation Note: NAACCR E-Path reference: PATHOLOGIST FIRST NAME, Item #: 7270. Usage: R*. Default: "UNKNOWN"												
— middle initial or name	32.1.4	ST	15	RE		0	1				Q	

Implementation Note: NAACCR E-Path reference: PATHOLOGIST MIDDLE NAME, Item #: 7280												
— suffix (e.g., JR or III)	32.1.5	ST	3	RE		0	1				III	
Implementation Note: NAACCR E-Path reference: PATHOLOGIST NAME SUFFIX, Item #: 7290												
— prefix (e.g., DR)	32.1.6	ST	3	RE		0	1				DR	
— degree (e.g., MD)	32.1.7	IS	3	RE		0	1	0360			MD	
— source table	32.1.8	IS	8	R		1	1	0297			COHDOCS	
Implementation Note: Usage: R*												
— assigning authority	32.1.9	HD	90	R		1	1					
Implementation Note: Usage: R* **HL7 and/or Local Definition:** Illegal sub-sub components discovered. Data will be lost if more than the first component is populated.												
• start date/time	32.2	TS	27	R		1	1					
Implementation Note: Usage: R*. Default: No default specified												
— Date/Time	32.2.1	NM	26	R		1	1				200606030835	
Implementation Note: YYYYMMDD[HHHMM[SS[.SSSS]]][+-ZZZZ] Usage: R*. Default: No default specified												
— degree of precision	32.2.2	ST	1	**NS**		0	0					
• end date/time	32.3	TS	27	R		1	1					
Implementation Note: Usage: R*. Default: No default specified												
— Date/Time	32.3.1	NM	26	R		1	1				200606030912	
Implementation Note: YYYYMMDD[HHHMM[SS[.SSSS]]][+-ZZZZ]. Usage: R*. Default: No default specified												
— degree of precision	32.3.2	ST	1	**NS**		0	0					
• point of care (IS)	32.4	IS	20	RE		0	1	0302				

Implementation Note: This is drawn from a user-defined table; values must be established for this.												
• room	32.5	IS	12	RE		0	1	0303			3E	
Implementation Note: This is drawn from a user-defined table; values must be established for this.												
• bed	32.6	IS	6	RE		0	1	0304			A	
Implementation Note: This is drawn from a user-defined table; values must be established for this.												
• facility (HD)	32.7	HD	90	R		1	1					
Implementation Note: Usage: R*. Default: No default specified												
— namespace ID	32.7.1	IS	20	C		0	1	0300	Populate if not using universal ID.			
Implementation Note: Note - need facility table to be populated here.												
— universal ID	32.7.2	ST	64	C		0	1		Populate if not using namespace ID.		FACILITYID	
— universal ID type	32.7.3	ID	6	C		0	1	0301	Populate only if universal ID is populated.		ISO	
• location status	32.8	IS	3	RE		0	1	0306				
Implementation Note: This is drawn from a user-defined table; values must be established for this.												
• person location type	32.9	IS	3	RE		0	1	0305			H	
Implementation Note: This is drawn from a user-defined table; values must be established for this.												
• building	32.10	IS	3	RE		0	1	0307				

Implementation Note: This is drawn from a user-defined table; values must be established for this.												
• floor	32.11	IS	3	RE		0	1	0308			1	
Implementation Note: This is drawn from a user-defined table; values must be established for this.												
Assistant Result Interpreter +	33	CM_NDL	419	RE	T	0	6					7.3.1.33
Implementation Note: NAACCR optionality: O												
• name	33.1	CN	254	R		1	1					
— ID number (ST)	33.1.1	ST	20	R		1	1				C59883	
Implementation Note: Usage: R*. Default: No default specified												
— family name	33.1.2	ST	25	R		1	1				AsstInterpretingMD	
Implementation Note: Usage: R*. Default: "UNKNOWN"												
— given name	33.1.3	ST	15	R		1	1				Zaphod	
Implementation Note: Usage: R*												
— middle initial or name	33.1.4	ST	15	RE		0	1				Q	
— suffix (e.g., JR or III)	33.1.5	ST	3	RE		0	1				JR	
— prefix (e.g., DR)	33.1.6	ST	3	RE		0	1				DR	
— degree (e.g., MD)	33.1.7	IS	3	RE		0	1	0360			MD	
— source table	33.1.8	IS	80	R		1	1	0297			COHDOCS	
Implementation Note: Usage: R*. Default: No default specified												
— assigning authority	33.1.9	HD	90	R		1	1					
Implementation Note: Usage: R*. Default: No default specified **HL7 and/or Local Definition:** Illegal sub-sub components discovered. Data will be lost if more than the first component is populated.												
• start date/time	33.2	TS	27	R		1	1					

Implementation Note: Usage: R*												
— Date/Time	33.2.1	NM	26	R		1	1				200606020923	
Implementation Note: YYYYMMDD[HHHMM[SS[.SSSS]]][+-ZZZZ]. Usage: R*. Default: No default specified												
— degree of precision	33.2.2	ST	1	**NS**		0	0					
• end date/time	33.3	TS	27	R		1	1					
Implementation Note: Usage: R*. Default: No default specified												
— Date/Time	33.3.1	NM	26	R		1	1				200606021146	
Implementation Note: YYYYMMDD[HHHMM[SS[.SSSS]]][+-ZZZZ]. Usage: R*. Default: No default specified												
— degree of precision	33.3.2	ST	1	**NS**		0	0					
• point of care (IS)	33.4	IS	3	RE		0	1	0302				
Implementation Note: This is drawn from a user-defined table; values must be established for this.												
• room	33.5	IS	3	RE		0	1	0303				
Implementation Note: This is drawn from a user-defined table; values must be established for this.												
• bed	33.6	IS	3	RE		0	1	0304				
Implementation Note: This is drawn from a user-defined table; values must be established for this.												
• facility (HD)	33.7	HD	90	R		1	1					
Implementation Note: Usage: R*. Default: No default specified												
— namespace ID	33.7.1	IS	20	C		0	1	0300	Populate if not using universal ID.			
— universal ID	33.7.2	ST	64	C		0	1		Populate if not using namespace ID.		FACILITYID	

— universal ID type	33.7.3	ID	6	C		0	1	0301	Populate only if universal ID is populated.			
• location status	33.8	IS	3	RE		0	1	0306				
Implementation Note: This is drawn from a user-defined table; values must be established for this.												
• person location type	33.9	IS	3	RE		0	1	0305				
Implementation Note: This is drawn from a user-defined table; values must be established for this.												
• building	33.10	IS	3	RE		0	1	0307				
Implementation Note: This is drawn from a user-defined table; values must be established for this.												
• floor	33.11	IS	3	RE		0	1	0308				
Implementation Note: This is drawn from a user-defined table; values must be established for this.												
Technician +	34	CM_NDL	347	R	T	1	6					7.3.1.34
Implementation Note: NAACCR optionality: O												
• name	34.1	CN	182	R		1	1					
Implementation Note: Usage: R*												
— ID number (ST)	34.1.1	ST	20	R		1	1				3546346	
Implementation Note: Usage: R*. Default: No default specified												
— family name	34.1.2	ST	25	R		1	1				Technician	
Implementation Note: Usage: R*. Default: "UNKNOWN"												
— given name	34.1.3	ST	15	R		1	1				UNKNOWN	
Implementation Note: Usage: R*												

— middle initial or name	34.1.4	ST	15	RE		0	1					
— suffix (e.g., JR or III)	34.1.5	ST	3	RE		0	1					
— prefix (e.g., DR)	34.1.6	ST	3	RE		0	1					
— degree (e.g., MD)	34.1.7	IS	3	RE		0	1	0360			MT	
— source table	34.1.8	IS	8	R		1	1	0297			COHDOCS	
Implementation Note: Usage: R*												
— assigning authority	34.1.9	HD	90	R		1	1					
Implementation Note: Usage: R*. Default: No default specified **HL7 and/or Local Definition:** Illegal sub-sub components discovered. Data will be lost if more than the first component is populated.												
• start date/time	34.2	TS	27	R		1	1					
Implementation Note: Usage: R*. Default: No default specified												
— Date/Time	34.2.1	NM	26	R		1	1				200606021045	
Implementation Note: YYYYMMDD[HHHMM[SS[.SSSS]]][+-ZZZZ]. Usage: R*. Default: No default specified												
— degree of precision	34.2.2	ST	1	**NS**		0	0					
• end date/time	34.3	TS	27	R		1	1					
Implementation Note: Usage: R*. Default: No default specified												
— Date/Time	34.3.1	NM	26	R		1	1				200606021115	
Implementation Note: YYYYMMDD[HHHMM[SS[.SSSS]]][+-ZZZZ]. Usage: R*. Default: No default specified												
— degree of precision	34.3.2	ST	1	**NS**		0	0					
• point of care (IS)	34.4	IS	3	RE		0	1	0302				
Implementation Note: This is drawn from a user-defined table; values must be established for this.												
• room	34.5	IS	3	RE		0	1	0303				

Implementation Note: This is drawn from a user-defined table; values must be established for this.												
• bed	34.6	IS	3	RE		0	1	0304				
Implementation Note: This is drawn from a user-defined table; values must be established for this.												
• facility (HD)	34.7	HD	90	R		1	1					
Implementation Note: Usage: R*. Default: No default specified												
— namespace ID	34.7.1	IS	20	C		0	1	0300	Use if not using universal ID.			
— universal ID	34.7.2	ST	64	C		0	1		Use if not using namespace ID.		FACILITYID	
— universal ID type	34.7.3	ID	6	C		0	1	0301	Populate if universal ID is populated.			
• location status	34.8	IS	3	RE		0	1	0306				
Implementation Note: This is drawn from a user-defined table; values must be established for this.												
• person location type	34.9	IS	3	RE		0	1	0305				
Implementation Note: This is drawn from a user-defined table; values must be established for this.												
• building	34.10	IS	3	RE		0	1	0307				
Implementation Note: This is drawn from a user-defined table; values must be established for this.												
• floor	34.11	IS	3	RE		0	1	0308				
Implementation Note: This is drawn from a user-defined table; values must be established for this.												
Transcriptionist +	35	CM_NDL	200	**NS**	F	0	0					7.3.1.35
Scheduled Date/Time +	36	TS	27	**NS**	F	0	0					7.3.1.36

Number of Sample Containers *	37	NM	4	**NS**	F	0	0					7.3.1.37
Transport Logistics of Collected Sample *	38	CE	60	**NS**	F	0	0					7.3.1.38
Collector's Comment *	39	CE	200	**NS**	F	0	0					7.3.1.39
Transport Arrangement Responsibility	40	CE	60	**NS**	F	0	0					7.3.1.40
Transport Arranged	41	ID	30	**NS**	F	0	0	0224				7.3.1.41
Escort Required	42	ID	1	**NS**	F	0	0	0225				7.3.1.42
Planned Patient Transport Comment	43	CE	200	**NS**	F	0	0					7.3.1.43
Procedure Code	44	CE	642	RE	F	0	1	0088				8.9.2.7
Implementation Note: Use for those checklists have the procedure coded. May populate just the text component for those checklists that have not coded the procedure. NAACCR optionality: O												
• identifier	44.1	ST	12	RE		0	1				35646002	
Implementation Note: Populate with SNOMED code only if the procedure has been coded on the checklists. Otherwise, use the 'made up' code in table 88 so that the text may be populated with correct syntax for this CE.												
• text	44.2	ST	200	RE		0	1				Excision of lesion of skin (procedure)	
Implementation Note: May be populated with text only items, such as: PROSTATE GLAND: Needle Biopsy, Transurethral Prostatic Resection (TUR), Enucleation Specimen. Or may be populated with the values that are coded on the checklists where this has been done.												
• name of coding system	44.3	ST	6	C		0	1	0396	Populate if identifier is populated.		SCT	
Implementation Note: Note that for the items that have not been SNOMED encoded, populate this with 'HL70088' to use the surrogate code value from that table.												
• alternate identifier	44.4	ST	12	RE		0	1	99958			P1-40305	
Implementation Note: Populate only if using the SNOMED code for Procedure Code, then use this second triplet to hold the 'legacy-style' SNOMED codes (SCT2)												
• alternate text	44.5	ST	200	**NS**		0	0					
• name of alternate coding system	44.6	ST	8	RE		0	1	0396			SCT2	
Procedure Code Modifier	45	CE	124	RE	T	0	*	0340				7.3.1.45
Implementation Note: NAACCR optionality: X												

• identifier	45.1	ST	12	R		1	1	0340			D	
Implementation Note: Unknown what this should be used for at this time.												
• text	45.2	ST	40	RE		0	1				Performed after patient expired.	
• name of coding system	45.3	ST	8	C		0	1	0396	Populate if identifier is populated.		HL70340	
• alternate identifier	45.4	ST	12	RE		0	1					
• alternate text	45.5	ST	40	RE		0	1					
• name of alternate coding system	45.6	ST	12	C		0	1		Populate if alternate identifier is populated.			

Segment	Description	Opt	Rep	Min	Max	Reference
NTE	**notes and comments segment**	**NS**	**False**			

Segment Group Definition

Seg Group	Description	Opt	Rep	Min	Max	Reference
Group G2R	**Segment Group G1R.G2R - nested one level**	**R**	**True**	**1**	*****	

Implementation Note: Note that the profile contains 3 OBX definitions, one for each of the three value types supported in the RPP2 messaging: CWE, NM, and ST.

Segment	Description	Opt	Rep	Min	Max	Reference
OBX (CWE)	**observation/result segment – CWE**	**RE**	**True**			

Implementation Note: This first OBX profile is for value type CWE, and it is designed to carry all of the SNOMED-encoded checklist answer items in the synoptic report.

Fields

Fields for OBX	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
Set ID - OBX	1	SI	4	R	F	1	1				1	7.3.2.1
Value Type	2	ID	3	R	F	1	1	0125		True	CWE	8.7.5.7
Implementation Note: This is fixed at CWE to carry the SNOMED-CT answer items.												
Observation Identifier	3	CE	432	R	F	1	1					7.3.2.3
• identifier	3.1	ST	12	R		1	1	99917			371439000	
• text	3.2	ST	200	RE		0	1				Specimen type (observable entity)	
• name of coding system	3.3	ST	4	R		1	1	0396		True	SCT	
• alternate identifier	3.4	ST	12	RE		0	1	99937			R-00254	
• alternate text	3.5	ST	200	RE		0	1					
• name of alternate coding system	3.6	ST	4	RE		0	1	0396			SCT2	
Observation Sub-ID	4	ST	20	RE	F	0	1					7.3.2.4
Observation Value	5	CWE	662	R	T	1	*					7.3.2.5
Implementation Note:												

Fields for OBX	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
NAACCR E-Path references: PATIENT AGE AT SPECIMEN, Item #: 7080; PATH--SNOMED CT CODE(S), Item #: 7340; PATH--SNOMED CT VERSION, Item #: 7350; PATH--ICD-CM CODE, Item #: 7360; PATH--ICD VERSION NUMBER, Item #: 7370; PATH--CPT CODES, Item #: 7380; PATH--CPT CODE VERSION, Item #: 7390; PATH--TEXT DIAGNOSIS, Item #: 7400; PATH--CLINICAL HISTORY, Item #: 7410; PATH--NATURE OF SPECIMEN, Item #: 7420; PATH--GROSS PATHOLOGY, Item #: 7430; PATH--MICRO PATHOLOGY, Item #: 7440; PATH--FINAL DIAGNOSIS, Item #: 7450; PATH--COMMENT SECTION, Item #: 7460; PATH--SUPPL REPORTS, Item#: 7470; TEXT-STAGING, Item #: 2600												
• identifier	5.1	ST	12	R		1	1	99918			396359006	
• text	5.2	ST	200	RE		0	1				Lymph node from regional lymph node dissection (specimen) (specify)	
• name of coding system	5.3	ST	4	R		1	1			True	SCT	
• alternate identifier	5.4	ST	12	RE		0	1	99938			G-8204	
Implementation Note: Use the SNOMED alphanumeric identifier as the alternate identifier												
• alternate text	5.5	ST	200	RE		0	1					
Implementation Note: if using the standard checklist value, do not populate												
• name of alternate coding system	5.6	ST	4	RE		0	1	0396			SCT2	
• coding system version ID	5.7	ST	15	RE		0	1					
• alternate coding system version ID	5.8	ST	15	RE		0	1					
• original text	5.9	ST	200	RE		0	1				Lymphadenectomy, regional nodes (specify):	
Implementation Note: Use for the actually display text shown to the user												
Observation Value_rep	5	CWE	662	RE	F	0	1					
• identifier	5.1	ST	20	**NS**		0	0					
• text	5.2	ST	200	**NS**		0	0					
• name of coding system	5.3	ST	8	**NS**		0	0					

Fields for OBX	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
• alternate identifier	5.4	ST	20	**NS**		0	0					
• alternate text	5.5	ST	200	**NS**		0	0					
• name of alternate coding system	5.6	ST	8	**NS**		0	0					
• coding system version ID	5.7	ST	20	**NS**		0	0					
• alternate coding system version ID	5.8	ST	20	**NS**		0	0					
• original text	5.9	ST	200	RE		0	1					
Units	6	CE	60	**NS**	F	0	0					7.3.2.6
References Range	7	ST	60	**NS**	F	0	0					7.3.2.7
Abnormal Flags	8	ID	5	**NS**	F	0	0	0078				7.3.2.8
Probability	9	NM	5	**NS**	F	0	0					7.3.2.9
Nature of Abnormal Test	10	ID	2	**NS**	F	0	0	0080				7.3.2.10
Observation Result Status	11	ID	1	R	F	1	1	0085			F	7.3.2.11
Implementation Note: NAACCR E-Path reference: item #7330.												
Date Last Obs Normal Values	12	TS	27	**NS**	F	0	0					7.3.2.12
User Defined Access Checks	13	ST	20	RE	F	0	1					7.3.2.13
Date/Time of the Observation	14	TS	27	**NS**	F	0	0					7.3.2.14
Producer’s ID	15	CE	60	**NS**	F	0	0					7.3.2.15
Responsible Observer	16	XCN	80	**NS**	F	0	0					7.3.2.16
Observation Method	17	CE	60	**NS**	F	0	0					7.3.2.17

Segment	Description	Opt	Rep	Min	Max	Reference
OBX (NM)	**observation/result segment – NM**	**RE**	**False**			

Implementation Note: This second OBX profile is for value type NM (numeric), and it is designed to carry all of the checklist answer items that are numeric in the synoptic report.

Fields

Fields for OBX	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
Set ID - OBX	1	SI	4	R	F	1	1				10	7.3.2.1
Value Type	2	ID	3	R	F	1	1	0125		True	NM	8.7.5.7
Implementation Note: This profile is for those numeric answers in the synoptic reports.												
Observation Identifier	3	CE	432	R	F	1	1					7.3.2.3
• identifier	3.1	ST	12	R		1	1	99919			396361002	
• text	3.2	ST	200	RE		0	1				Lesion size, largest dimension (observable entity)	
• name of coding system	3.3	ST	4	R		1	1	0396			SCT	
• alternate identifier	3.4	ST	12	RE		0	1	99939			F-02C74	
• alternate text	3.5	ST	200	RE		0	1				LESION SIZE (greatest dimension)	
• name of alternate coding system	3.6	ST	4	RE		0	1	0396			SCT2	
Observation Sub-ID	4	ST	20	RE	F	0	1					7.3.2.4
Observation Value	5	NM	12	R	T	1	2				2.5	7.3.2.5
Implementation Note: NAACCR E-Path references: PATIENT AGE AT SPECIMEN, Item #: 7080; PATH--SNOMED CT CODE(S), Item #: 7340; PATH--SNOMED CT VERSION, Item #: 7350; PATH--ICD-CM CODE, Item #: 7360; PATH--ICD VERSION NUMBER, Item #: 7370; PATH--CPT CODES, Item #: 7380; PATH--CPT CODE VERSION, Item #: 7390; PATH--TEXT DIAGNOSIS, Item #: 7400; PATH--CLINICAL HISTORY, Item #: 7410; PATH--NATURE OF SPECIMEN, Item #: 7420; PATH--GROSS PATHOLOGY, Item #: 7430; PATH--MICRO PATHOLOGY, Item #: 7440; PATH--FINAL DIAGNOSIS, Item #: 7450; PATH--COMMENT SECTION, Item #: 7460;												

Fields for OBX	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
PATH--SUPPL REPORTS, Item#: 7470; TEXT-STAGING, Item #: 2600												
Units	6	CE	60	C	F	0	1		Use for numeric measurements			7.3.2.6
Implementation Note: NAACCR optionality: RE. NAACCR item #s: 7540												
• identifier	6.1	ST	6	RE		0	1				cm	
Implementation Note: Units string. For RPP2, only 'cm' and 'mm' are used for numeric values												
• text	6.2	ST	3	**NS**		0	0					
• name of coding system	6.3	ST	4	R		1	1				ISO+	
Implementation Note: Use the ISO code system												
• alternate identifier	6.4	ST	3	**NS**		0	0					
• alternate text	6.5	ST	3	**NS**		0	0					
• name of alternate coding system	6.6	ST	3	**NS**		0	0					
References Range	7	ST	60	**NS**	F	0	0					7.3.2.7
Abnormal Flags	8	ID	5	**NS**	F	0	0	0078				7.3.2.8
Probability	9	NM	5	**NS**	F	0	0					7.3.2.9
Nature of Abnormal Test	10	ID	2	**NS**	F	0	0	0080				7.3.2.10
Observation Result Status	11	ID	1	R	F	1	1	0085			F	7.3.2.11
Implementation Note: NAACCR item #7330.												
Date Last Obs Normal Values	12	TS	27	**NS**	F	0	0					7.3.2.12
User Defined Access Checks	13	ST	20	RE	F	0	1					7.3.2.13
Date/Time of the Observation	14	TS	27	**NS**	F	0	0					7.3.2.14
Producer’s ID	15	CE	60	**NS**	F	0	0					7.3.2.15
Responsible Observer	16	XCN	80	**NS**	F	0	0					7.3.2.16
Observation Method	17	CE	60	**NS**	F	0	0					7.3.2.17

Segment	Description	Opt	Rep	Min	Max	Reference
OBX (ST)	**observation/result segment – ST**	**RE**	**False**			

Implementation Note: This third OBX profile is for value type ST (string), and it is designed to carry all of the checklist answer items that are freetext in the synoptic report.

Fields

Fields for OBX	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
Set ID - OBX	1	SI	4	R	F	1	1				10	7.3.2.1
Value Type	2	ID	3	R	F	1	1	0125		True	ST	8.7.5.7
Implementation Note: This is fixed at ST and carries the freetext answer items in the synoptic report.												
Observation Identifier	3	CE	432	R	F	1	1					7.3.2.3
• identifier	3.1	ST	12	R		1	1	99920			371480007	
• text	3.2	ST	200	RE		0	1				Tumor site (observable entity)	
• name of coding system	3.3	ST	4	R		1	1	0396		True	SCT	
• alternate identifier	3.4	ST	12	RE		0	1	99940			R-0025A	
• alternate text	3.5	ST	200	RE		0	1				TUMOR SITE specify if known	
• name of alternate coding system	3.6	ST	4	RE		0	1	0396			SCT2	
Observation Sub-ID	4	ST	20	RE	F	0	1					7.3.2.4
Observation Value	5	ST	65535	R	T	1	2				Right side of forehead	7.3.2.5

Implementation Note:
Use the ST observation types for comments, uncoded items, and the multiple numeric 'additional dimensions' items.
NAACCR E-Path references: PATIENT AGE AT SPECIMEN, Item #: 7080; PATH--SNOMED CT CODE(S), Item #: 7340; PATH--SNOMED CT VERSION, Item #: 7350; PATH--ICD-CM CODE, Item #: 7360; PATH--ICD VERSION NUMBER, Item #: 7370; PATH--CPT CODES, Item #: 7380; PATH--CPT CODE VERSION, Item #: 7390; PATH--TEXT DIAGNOSIS, Item #: 7400; PATH--CLINICAL HISTORY, Item #: 7410; PATH--NATURE OF SPECIMEN, Item #: 7420; PATH--GROSS

Fields for OBX	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
PATHOLOGY, Item #: 7430; PATH--MICRO PATHOLOGY, Item #: 7440; PATH--FINAL DIAGNOSIS, Item #: 7450; PATH--COMMENT SECTION, Item #: 7460; PATH--SUPPL REPORTS, Item#: 7470; TEXT-STAGING, Item #: 2600												
Units	6	CE	60	**NS**	F	0	0					7.3.2.6
References Range	7	ST	60	**NS**	F	0	0					7.3.2.7
Abnormal Flags	8	ID	5	**NS**	F	0	0	0078				7.3.2.8
Probability	9	NM	5	**NS**	F	0	0					7.3.2.9
Nature of Abnormal Test	10	ID	2	**NS**	F	0	0	0080				7.3.2.10
Observation Result Status	11	ID	1	R	F	1	1	0085			F	7.3.2.11
Implementation Note: NAACCR item #7330. Note is R* in NAACCR, but R in RPP2												
Date Last Obs Normal Values	12	TS	27	**NS**	F	0	0					7.3.2.12
User Defined Access Checks	13	ST	20	RE	F	0	1					7.3.2.13
Date/Time of the Observation	14	TS	27	**NS**	F	0	0					7.3.2.14
Producer's ID	15	CE	60	**NS**	F	0	0					7.3.2.15
Responsible Observer	16	XCN	80	**NS**	F	0	0					7.3.2.16
Observation Method	17	CE	60	**NS**	F	0	0					7.3.2.17

Segment	Description	Opt	Rep	Min	Max	Reference
NTE	**notes and comments segment**	**NS**	**False**			

Tables

0001 – Sex

Table HL7 ID: 0001 Name: Sex

Type: USER Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	F	Female	HL7	Optional		
2	M	Male	HL7	Optional		
3	O	Other	HL7	Optional		
4	U	Unknown	HL7	Optional		

0002 - Marital Status

Table HL7 ID: 0002 Name: Marital Status

Type: USER Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	A	Separated	HL7	Optional		
2	D	Divorced	HL7	Optional		
3	M	Married	HL7	Optional		
4	S	Single	HL7	Optional		
5	W	Widowed	HL7	Optional		

0003 - Event Type

Table HL7 ID: 0003 Name: Event Type

Type: HL7 Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	R01	ORU/ACK - Unsolicited transmission of an observation message	HL7	Optional		

0004 - Patient Class

Table HL7 ID: 0004 Name: Patient Class

Type: USER Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	B	Obstetrics	HL7	Optional		
2	E	Emergency	HL7	Optional		
3	I	Inpatient	HL7	Optional		
4	NA	Not available (NAACCR default)	User	Optional		
5	O	Outpatient	HL7	Optional		
6	P	Preadmit	HL7	Optional		
7	R	Recurring patient	HL7	Optional		

0005 – Race

Table HL7 ID: 0005 Name: Race

Type: USER Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	1002-5	American Indian or Alaska Native	HL7	Optional		
2	2028-9	Asian	User	Optional		
3	2054-5	Black or African-American	User	Optional		
4	2076-8	Native Hawaiian or Other Pacific Islander	User	Optional		
5	2106-3	White	User	Optional		
6	2131-1	Other	User	Optional		
7	2135-2	Hispanic or Latino	User	Optional		
8	U	Unknown	User	Optional		

0007 - Admission type

Table HL7 ID: 0007 Name: Admission type

Type: USER Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	A	Accident	HL7	Optional		
2	E	Emergency	HL7	Optional		
3	L	Labor and Delivery	HL7	Optional		
4	R	Routine	HL7	Optional		

0010 - Physician ID

Table HL7 ID: 0010 Name: Physician ID

Type: USER Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1		No suggested values	User	Optional		

0018 - Patient type

Table HL7 ID: 0018 Name: Patient type

Type: USER Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	A	Adult	User	Optional	Adult	
2	C	Child	User	Optional	Child	
3	D	Adolescent	User	Optional	Adolescent	
4	I	Infant	User	Optional	Infant	

0064 - Financial class

Table HL7 ID: 0064 Name: Financial class

Type: USER Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	CH00	S-CHIP coverage-not VFC eligible	User	Optional	S-CHIP coverage-not VFC eligible	S-CHIP coverage-not VFC eligible

Order	Code	Description	Source	Usage	Display Name	Instructions
2	CH01	S-CHIP coverage-separate from Medicaid-not VFC eligible	User	Optional	S-CHIP coverage-separate from Medicaid-not VFC eli	S-CHIP coverage-separate from Medicaid-not VFC eligible
3	CH02	S-CHIP coverage-combination of Medicaid and separate-not VFC eligible	User	Optional	S-CHIP coverage-combination of Medicaid and separa	S-CHIP coverage-combination of Medicaid and separate-not VFC eligible
4	H01	self pay	User	Optional	self pay	self pay
5	H02	Medicaid (may be called by state-specific name, e.g., Medi-Cal)	User	Optional	Medicaid (may be called by state-specific name, e.	Medicaid (may be called by state-specific name e.g. Medi-Cal)
6	H03	third party or private insurance	User	Optional	third party or private insurance	third party or private insurance
7	IS00	Some or all vaccine costs covered	User	Optional	Some or all vaccine costs covered	Some or all vaccine costs covered
8	IS01	Underinsured (no vaccine costs covered and not FQC/RHC)	User	Optional	Underinsured (no vaccine costs covered and not FQC	Underinsured (no vaccine costs covered and not FQC/RHC)
9	NY01	e.g., IHAP eligible	User	Optional	e.g., IHAP eligible	e.g. IHAP eligible
10	V00	VFC eligibility not determined/unknown	User	Optional	VFC eligibility not determined/unknown	VFC eligibility not determined/unknown
11	V01	not VFC eligible	User	Optional	not VFC eligible	not VFC eligible
12	V02	VFC eligible - Medicaid/Medicaid Managed Care expansion	User	Optional	VFC eligible - Medicaid/Medicaid Managed Care expa	VFC eligible - Medicaid/Medicaid Managed Care expansion
13	V03	VFC eligible - Uninsured	User	Optional	VFC eligible - Uninsured	VFC eligible - Uninsured
14	V04	VFC eligible - American Indian/Alaskan Native	User	Optional	VFC eligible - American Indian/Alaskan Native	VFC eligible - American Indian/Alaskan Native
15	V05	VFC eligible - Federally Qualified Health Center Patient (under-insured)	User	Optional	VFC eligible - Federally Qualified Health Center P	VFC eligible - Federally Qualified Health Center Patient (under-insured)
16	V06	VFC eligible - State-specific eligibility	User	Optional	VFC eligible - State-specific eligibility	VFC eligible - State-specific eligibility
17	V07	VFC eligible - Local-specific eligibility	User	Optional	VFC eligible - Local-specific eligibility	VFC eligible - Local-specific eligibility

0070 - Specimen source codes

Table HL7 ID: 0070 Name: Specimen source codes

Type: HL7 Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	ORH	Other	HL7	Optional		

Order	Code	Description	Source	Usage	Display Name	Instructions
2	PAT	Patient	HL7	Optional		
3	SKN	Skin	HL7	Optional		

0076 - Message type

Table HL7 ID: 0076 Name: Message type

Type: HL7 Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	ORU	Observ result/unsolicited	HL7	Optional		

0085 - Observation result status codes interpretation

Table HL7 ID: 0085 Name: Observation result status codes interpretation

Type: HL7 Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	C	Record coming over is a correction and thus replaces a final result	HL7	Optional		
2	F	Final results; Can only be changed with a corrected result.	HL7	Optional		
3	I	Specimen in lab; results pending	HL7	Optional		
4	P	Preliminary results	HL7	Optional		
5	R	Results entered -- not verified	HL7	Optional		
6	S	Partial results	HL7	Optional		
7	U	Results status change to final without retransmitting results already sent as _preliminary.' E.g., radiology changes status from preliminary to final	HL7	Optional		
8	W	Post original as wrong, e.g., transmitted for wrong patient	HL7	Optional		
9	X	Results cannot be obtained for this observation	HL7	Optional		

0088 - PROCEDURE CODE

Table HL7 ID: 0088 Name: PROCEDURE CODE

Type: USER Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	26294005	Radical prostatectomy (procedure)	User	Optional	Radical prostatectomy	PROSTATE GLAND: Radical Prostatectomy - Radical prostatectomy (procedure)
2	35646002	Excision of lesion of skin (procedure)	User	Optional	Skin excision/re-excision	MELANOMA OF THE SKIN: Excision Re-Excision

Order	Code	Description	Source	Usage	Display Name	Instructions
3	BREAST	Breast cancer procedures	User	Optional	Breast cancer procedures	BREAST: Excision Less Than Total Mastectomy (Includes Wire-Guided Localization Excisions) Total Mastectomy Modified Radical Mastectomy Radical Mastectomy
4	PROSTBIOPSY	Prostate biopsy TUR, Enucleation, Needle Biopsy	User	Optional	Prostate Biopsy	PROSTATE GLAND: Needle Biopsy Transurethral Prostatic Resection (TUR) Enucleation Specimen

0103 - Processing ID

Table HL7 ID: 0103 Name: Processing ID

Type: HL7 Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	D	Debugging	HL7	Optional		
2	P	Production	HL7	Optional		
3	T	Training	HL7	Optional		

0104 - Version ID

Table HL7 ID: 0104 Name: Version ID

Type: HL7 Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	2.3.1	Release 2.3.1	HL7	Optional		

0112 - Discharge disposition

Table HL7 ID: 0112 Name: Discharge disposition

Type: USER Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	1	Discharged to home or self care (routine discharge)	HL7	Optional		
2	10	Discharge to be defined at state level, if necessary	HL7	Optional		

Order	Code	Description	Source	Usage	Display Name	Instructions
3	2	Discharged/transferred to another short term general hospital for inpatient care	HL7	Optional		
4	20	Expired	HL7	Optional		
5	21	Expired to be defined at state level, if necessary	HL7	Optional		
6	3	Discharged/transferred to skilled nursing facility (SNF)	HL7	Optional		
7	30	Still patient or expected to return for outpatient services	HL7	Optional		
8	31	Still patient to be defined at state level, if necessary	HL7	Optional		
9	4	Discharged/transferred to an intermediate care facility (ICF)	HL7	Optional		
10	40	Expired at home	HL7	Optional		
11	41	Expired in a medical facility; e.g., hospital, SNF, ICF, or free standing hospice	HL7	Optional		
12	42	Expired - place unknown	HL7	Optional		
13	5	Discharged/transferred to another type of institution for inpatient care or referred for outpatient services to another institution	HL7	Optional		
14	6	Discharged/transferred to home under care of organized home health service organization	HL7	Optional		
15	7	Left against medical advice or discontinued care	HL7	Optional		
16	8	Discharged/transferred to home under care of Home IV provider	HL7	Optional		
17	9	Admitted as an inpatient to this hospital	HL7	Optional		

0119 - Order control codes and their meaning

Table HL7 ID: 0119 Name: Order control codes and their meaning

Type: HL7 Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	CN	Combined result (R01)	HL7	Optional		
2	RE	Observations to follow (O01/R01)	HL7	Optional		

0123 - Result status

Table HL7 ID: 0123 Name: Result status

Type: HL7 Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	A	Some, but not all, results available	HL7	Optional		
2	C	Correction to results	HL7	Optional		
3	F	Final results; results stored and verified. Can only be changed with a corrected result.	HL7	Optional		
4	I	No results available; specimen received, procedure incomplete	HL7	Optional		
5	O	Order received; specimen not yet received	HL7	Optional		
6	P	Preliminary: A verified early result is available, final results not yet obtained	HL7	Optional		

Order	Code	Description	Source	Usage	Display Name	Instructions
7	R	Results stored; not yet verified	HL7	Optional		
8	S	No results available; procedure scheduled, but not done	HL7	Optional		
9	X	No results available; Order canceled.	HL7	Optional		
10	Y	No order on record for this test. (Used only on queries)	HL7	Optional		
11	Z	No record of this patient. (Used only on queries)	HL7	Optional		

0125 - Value type

Table HL7 ID: 0125 Name: Value type

Type: HL7 Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	CWE	Coded With Extensions	User	Optional	Coded W/Exc	
2	NM	Numeric	HL7	Optional		
3	ST	String Data.	HL7	Optional		

0136 - Yes/no indicator

Table HL7 ID: 0136 Name: Yes/no indicator

Type: HL7 Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	N	No	HL7	Optional		
2	Y	Yes	HL7	Optional		

0155 - Accept/application acknowledgment conditions

Table HL7 ID: 0155 Name: Accept/application acknowledgment conditions

Type: HL7 Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	AL	Always	HL7	Optional		
2	ER	Error/reject conditions only	HL7	Optional		
3	NE	Never	HL7	Optional		
4	SU	Successful completion only	HL7	Optional		

0163 - Administrative site

Table HL7 ID: 0163 Name: Administrative site

Type: HL7 Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	BE	Bilateral Ears	HL7	Optional		
2	BN	Bilateral Nares	HL7	Optional		
3	BU	Buttock	HL7	Optional		
4	LA	Left Arm	HL7	Optional		
5	LAC	Left Anterior Chest	HL7	Optional		

Order	Code	Description	Source	Usage	Display Name	Instructions
6	LE	Left Ear	HL7	Optional		
7	LF	Left Foot	HL7	Optional		
8	LG	Left Gluteus Medius	HL7	Optional		
9	LH	Left Hand	HL7	Optional		
10	LLAQ	Left Lower Abd Quadrant	HL7	Optional		
11	LLFA	Left Lower Forearm	HL7	Optional		
12	LMFA	Left Mid Forearm	HL7	Optional		
13	LN	Left Naris	HL7	Optional		
14	LPC	Left Posterior Chest	HL7	Optional		
15	LSC	Left Subclavian	HL7	Optional		
16	LT	Left Thigh	HL7	Optional		
17	LUA	Left Upper Arm	HL7	Optional		
18	LUAQ	Left Upper Abd Quadrant	HL7	Optional		
19	LUFA	Left Upper Forearm	HL7	Optional		
20	LVG	Left Ventragluteal	HL7	Optional		
21	LVL	Left Vastus Lateralis	HL7	Optional		
22	RA	Right Arm	HL7	Optional		
23	RAC	Right Anterior Chest	HL7	Optional		
24	RACF	Right Antecubital Fossa	HL7	Optional		
25	RD	Right Deltoid	HL7	Optional		
26	RE	Right Ear	HL7	Optional		
27	RF	Right Foot	HL7	Optional		
28	RG	Right Gluteus Medius	HL7	Optional		
29	RH	Right Hand	HL7	Optional		
30	RLAQ	Rt Lower Abd Quadrant	HL7	Optional		
31	RLFA	Right Lower Forearm	HL7	Optional		
32	RMFA	Right Mid Forearm	HL7	Optional		
33	RN	Right Naris	HL7	Optional		
34	RPC	Right Posterior Chest	HL7	Optional		
35	RSC	Right Subclavian	HL7	Optional		
36	RT	Right Thigh	HL7	Optional		
37	RUA	Right Upper Arm	HL7	Optional		
38	RUAQ	Right Upper Abd Quadrant	HL7	Optional		
39	RUFA	Right Upper Forearm	HL7	Optional		
40	RVG	Right Ventragluteal	HL7	Optional		
41	RVL	Right Vastus Lateralis	HL7	Optional		

0189 - Ethnic group

Table HL7 ID: 0189 Name: Ethnic group

Type: USER Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	H	Hispanic or Latino	User	Optional	Hispanic or Latino	
2	N	Not Hispanic or Latino	User	Optional	Not Hispanic or Latino	

Order	Code	Description	Source	Usage	Display Name	Instructions
3	U	Unknown Ethnicity	User	Optional	Unknown	

0190 - Address type

Table HL7 ID: 0190 Name: Address type

Type: HL7 Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	B	Firm/Business	HL7	Optional		
2	BA	Bad address	HL7	Optional		
3	BDL	Birth delivery location (address where birth occurred)	HL7	Optional		
4	BR	Residence at birth (home address at time of birth)	HL7	Optional		
5	C	Current Or Temporary	HL7	Optional		
6	F	Country Of Origin	HL7	Optional		
7	H	Home	HL7	Optional		
8	L	Legal Address	HL7	Optional		
9	M	Mailing	HL7	Optional		
10	N	Birth (nee) (birth address, not otherwise specified)	HL7	Optional		
11	O	Office	HL7	Optional		
12	P	Permanent	HL7	Optional		
13	RH	Registry home. Refers to the information system, typically managed by a public health agency, that stores patient information such as immunization histories or cancer data, regardless of where the patient obtains services.	HL7	Optional		

0200 - Name type

Table HL7 ID: 0200 Name: Name type

Type: HL7 Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	A	Alias Name	HL7	Optional		
2	B	Name at Birth	HL7	Optional		
3	C	Adopted Name	HL7	Optional		
4	D	Display Name	HL7	Optional		
5	L	Legal Name	HL7	Optional		
6	M	Maiden Name	HL7	Optional		
7	P	Name of Partner/Spouse	HL7	Optional		
8	S	Coded Pseudo-Name to ensure anonymity	HL7	Optional		
9	T	Tribal/Community Name	HL7	Optional		
10	U	Unspecified	HL7	Optional		

0201 - Telecommunication use code

Table HL7 ID: 0201 Name: Telecommunication use code

Type: HL7 Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	ASN	Answering Service Number	HL7	Optional		
2	BPN	Beeper Number	HL7	Optional		
3	EMR	Emergency Number	HL7	Optional		
4	NET	Network (email) Address	HL7	Optional		
5	ORN	Other Residence Number	HL7	Optional		
6	PRN	Primary Residence Number	HL7	Optional		
7	VHN	Vacation Home Number	HL7	Optional		
8	WPN	Work Number	HL7	Optional		

0202 - Telecommunication equipment type

Table HL7 ID: 0202 Name: Telecommunication equipment type

Type: HL7 Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	BP	Beeper	HL7	Optional		
2	CP	Cellular Phone	HL7	Optional		
3	FX	Fax	HL7	Optional		
4	Internet	Internet Address: Use Only If Telecommunication Use Code Is NET	HL7	Optional		
5	MD	Modem	HL7	Optional		
6	PH	Telephone	HL7	Optional		
7	X.400	X.400 email address: Use Only If Telecommunication Use Code Is NET	HL7	Optional		

0203 - Identifier type

Table HL7 ID: 0203 Name: Identifier type

Type: USER Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	AM	American Express	HL7	Optional		
2	AN	Account number	HL7	Optional		
3	BR	Birth registry number	HL7	Optional		
4	DI	Diner’s Club card	HL7	Optional		
5	DL	Driver’s license number	HL7	Optional		
6	DN	Doctor number	HL7	Optional		
7	DS	Discover Card	HL7	Optional		
8	EI	Employee number	HL7	Optional		
9	EN	Employer number	HL7	Optional		
10	FI	Facility ID	HL7	Optional		
11	GI	Guarantor internal identifier	HL7	Optional		
12	GN	Guarantor external identifier	HL7	Optional		
13	LN	License number	HL7	Optional		
14	LR	Local Registry ID	HL7	Optional		

Order	Code	Description	Source	Usage	Display Name	Instructions
15	MA	Medicaid number	HL7	Optional		
16	MC	Medicare number	HL7	Optional		
17	MR	Medical record number	HL7	Optional		
18	MS	MasterCard	HL7	Optional		
19	NE	National employer identifier	HL7	Optional		
20	NH	National Health Plan Identifier	HL7	Optional		
21	NI	National unique individual identifier	HL7	Optional		
22	NNxxx	National Person Identifier where the xxx is the ISO table 3166 3-character (alphabetic) country code	HL7	Optional		
23	NPI	National provider identifier	HL7	Optional		
24	PI	Patient internal identifier	HL7	Optional		
25	PN	Person number	HL7	Optional		
26	PRN	Provider number	HL7	Optional		
27	PT	Patient external identifier	HL7	Optional		
28	RR	Railroad Retirement number	HL7	Optional		
29	RRI	Regional registry ID	HL7	Optional		
30	SL	State license	HL7	Optional		
31	SR	State registry ID	HL7	Optional		
32	SS	Social Security number	HL7	Optional		
33	U	Unspecified	HL7	Optional		
34	UPIN	Medicare/HCFA's Universal Physician Identification numbers	HL7	Optional		
35	VN	Visit number	HL7	Optional		
36	VS	VISA	HL7	Optional		
37	WC	WIC identifier	HL7	Optional		
38	XX	Organization identifier	HL7	Optional		

0204 - Organizational name type

Table HL7 ID: 0204 Name: Organizational name type

Type: USER Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	A	Alias name	HL7	Optional		
2	D	Display name	HL7	Optional		
3	L	Legal name	HL7	Optional		
4	SL	Stock exchange listing name	HL7	Optional		

0207 - Processing mode

Table HL7 ID: 0207 Name: Processing mode

Type: HL7 Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	A	Archive	HL7	Optional		
2	I	Initial load	HL7	Optional		
3	not present	Not present (the default, meaning current processing)	HL7	Optional		

Order	Code	Description	Source	Usage	Display Name	ructions
4	R	Restore from archive	HL7	Optional		
5	T	Current processing, transmitted at intervals (scheduled or on demand)	HL7	Optional		

0288 - Census Tract

Table HL7 ID: 0288 Name: Census Tract

Type: USER Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	C00001	sample census tract code	User	Optional	sample census tract code	

0289 – County

Table HL7 ID: 0289 Name: County

Type: USER Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	30007	sample county code	User	Optional	sample county code	

0296 - Primary language

Table HL7 ID: 0296 Name: Primary language

Type: USER Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	ENG	English	User	Optional	English	

0297 - CN ID source

Table HL7 ID: 0297 Name: CN ID source

Type: USER Coding System: HL7 Defined Codes - HL7nnn

Note that the values in this table are for illustrative purposes only. For validation, this table must be populated and shared by sending and receiving systems of each trading partner.

Order	Code	Description	Source	Usage	Display Name	Instructions
1	COHDOCS	Phsyician master for City of Hope	User	Optional	City of Hope MD master	
2	DCDOCS	Dahl-Chase Phsyician Master	User	Optional	Dahl-Chase MD Master	

Order	Code	Description	Source	Usage	Display Name	Instructions
3	MMCDOCS	Maine Medical Center Physician ID master	User	Optional	MMC MD Master	
4	UPMCDOCS	UPMC Physician Master	User	Optional	UPMC Physician Master	

0300 - Namespace ID

Table HL7 ID: 0300 Name: Namespace ID

Type: USER Coding System: HL7 Defined Codes - HL7nnn

Note that the values in this table are for illustrative purposes only. For validation, this table must be populated and shared by sending and receiving systems of each trading partner.

Order	Code	Description	Source	Usage	Display Name	Instructions
1	CA	California	User	Optional	California	
2	CA_CAREG	California Cancer Registry	User	Optional	California Cancer Registry	
3	COH_ADT01	City of Hope ADT system 1	User	Optional	City of Hope ADT1	
4	COH_LAB1	COH_LAB1	User	Optional	COH_LAB1	
5	COH1	City Of Hope Facility 1	User	Optional		
6	COHBLDGS	City Of Hope Hospital facilities	User	Optional	City Of Hope Hospital facilities	
7	COHCPTHL	City of Hope CoPath Lab Filler Numbers	User	Optional	COH Lab Nums	
8	COHPOE	City of Hope Order Entry System	User	Optional	City of Hope Order Entry System	
9	COHSTAFF	City Of Hope Hospital Staff IDs	User	Optional	City Of Hope Hospital Staff IDs	
10	Dahl-Chase1	Dahl-Chase Facility 1	User	Optional		
11	DC_ADT01	Dahl-Chase ADT System1	User	Optional	Dahl-Chase ADT1	
12	DC_LAB1	Dahl-Chase Lab 1	User	Optional	Dahl-Chase Lab 1	
13	HHS	Health and Human Services	User	Optional	Health and Human Services	
14	ME	Maine	User	Optional	Maine	
15	ME_CAREG	Maine Cancer Registry	User	Optional	Maine Cancer Registry	
16	MMC_ADT01	Maine Medical Center ADT system 01	User	Optional	Maine Medical ADT1	
17	MMC_Lab1	Maine Medical Center Lab 1	User	Optional	Maine Lab 1	
18	MMC1	Maine Medical facility 1	User	Optional		
19	PA	Pennsylvania	User	Optional	Pennsylvania	

Order	Code	Description	Source	Usage	Display Name	Instructions
20	PA_CAREG	Pennsylvania Cancer Registry	User	Optional	Pennsylvania Cancer Registry	
21	UPMC_ADT01	UMPC ADT System 1	User	Optional	UMPC ADT1	
22	UPMC_LAB1	UPMC_LAB1	User	Optional	UPMC_LAB1	
23	UPMC_PATH	UPMC Pathology System	User	Optional	UPMC Pathology System	
24	UPMC_POE	UPMC Order system	User	Optional	UPMC Order system	
25	UPMC1	UPMC Facility 1	User	Optional	UPMC Facility 1	
26	UPMCFACS	UPMC Facilities	User	Optional	UPMC Facilities	

0301 - Universal ID type

Table HL7 ID: 0301 Name: Universal ID type

Type: HL7 Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	CLIA	Commercial Laboratory ID	HL7	Optional		
2	DNS	An Internet dotted name. Either in ASCII or as integers	HL7	Optional		
3	GUID	Same as UUID.	HL7	Optional		
4	HCD	The CEN Healthcare Coding Scheme Designator. (Identifiers used in DICOM follow this assignment scheme.)	HL7	Optional		
5	HL7	Reserved for future HL7 registration schemes	HL7	Optional		
6	ISO	An International Standards Organization Object Identifier	HL7	Optional		
7	L,M,N	These are reserved for locally defined coding schemes.	HL7	Optional		
8	Random	Usually a base64 encoded string of random bits. The uniqueness depends on the length of the bits. Mail systems often generate ASCII string "unique names," from a combination of random bits and system names. Obviously, such identifiers will not be con	HL7	Optional		
9	UUID	The DCE Universal Unique Identifier	HL7	Optional		
10	x400	An X.400 MHS format identifier	HL7	Optional		
11	x500	An X.500 directory name	HL7	Optional		

0302 - Point of care

Table HL7 ID: 0302 Name: Point of care

Type: USER Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	AS	Ambulatory Surgery Center	User	Optional	Ambulatory Surgery	

Order	Code	Description	Source	Usage	Display Name	Instructions
2	E	Emergency Room	User	Optional	Emergency	
3	H	Hospital	User	Optional	Hospital	

0303 – Room

Table HL7 ID: 0303 Name: Room

Type: USER Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	3E	3rd floor East	User	Optional	3 East	
2	3W	3rd floor West	User	Optional	3 West	

0304 – Bed

Table HL7 ID: 0304 Name: Bed

Type: USER Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	A	Bed A	User	Optional	Bed A	
2	B	Bed B	User	Optional	Bed B	

0305 - Person location type

Table HL7 ID: 0305 Name: Person location type

Type: USER Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	H	Hospital	User	Optional	Hospital	
2	T	Hospice	User	Optional	Hospice	

0306 - Location Status

Table HL7 ID: 0306 Name: Location Status
Type: Local Coding System: Local General Code - 99zzz or L

Order	Code	Description	Source	Usage	Display Name	Instructions
1	C	Closed	User	Optional	Closed	
2	H	Housekeeping	User	Optional	Housekeeping	
3	I	Isolated	User	Optional	Isolated	
4	K	Contaminated	User	Optional	Contaminated	
5	O	Occupied	User	Optional	Occupied	
6	U	Unoccupied	User	Optional	Unoccupied	

0307 – Building

Table HL7 ID: 0307 Name: Building
Type: USER Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	CP	Cancer Pavilion	User	Optional		
2	LAB	Laboratory	User	Optional	Laboratory	
3	LTC	Long Term Care Facility	User	Optional	LTC facility	

0308 – Floor

Table HL7 ID: 0308 Name: Floor
Type: USER Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	1	First Floor	User	Optional	First Floor	
2	8	8th floor	User	Optional	8th floor	
3	B	Basement	User	Optional	Basement	
4	PS	Penthouse Suite	User	Optional	Penthouse Suite	

0340 - Procedure Code Modifier

Table HL7 ID: 0340 Name: Procedure Code Modifier
Type: USER Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	D	Performed post patient expiry	User	Optional	Performed post patient expiry	

0354 - Message structure

Table HL7 ID: 0354 Name: Message structure
Type: HL7 Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	ORU_R01	R01	HL7	Optional		

0360 – Degree

Table HL7 ID: 0360 Name: Degree

Type: USER Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	AA	Associate of Arts	HL7	Optional		
2	AAS	Associate of Applied Science	HL7	Optional		
3	ABA	Associate of Business Administration	HL7	Optional		
4	AE	Associate of Engineering	HL7	Optional		
5	AS	Associate of Science	HL7	Optional		
6	BA	Bachelor of Arts	HL7	Optional		
7	BBA	Bachelor of Business Administration	HL7	Optional		
8	BE	Bachelor or Engineering	HL7	Optional		
9	BFA	Bachelor of Fine Arts	HL7	Optional		
10	BN	Bachelor of Nursing	HL7	Optional		
11	BS	Bachelor of Science	HL7	Optional		
12	BSL	Bachelor of Science _ Law	HL7	Optional		
13	BT	Bachelor of Theology	HL7	Optional		
14	CER	Certificate	HL7	Optional		
15	DBA	Doctor of Business Administration	HL7	Optional		
16	DED	Doctor of Education	HL7	Optional		
17	DIP	Diploma	HL7	Optional		
18	DO	Doctor of Osteopathy	HL7	Optional		
19	HS	High School Graduate	HL7	Optional		
20	JD	Juris Doctor	HL7	Optional		
21	MA	Master of Arts	HL7	Optional		
22	MBA	Master of Business Administration	HL7	Optional		
23	MCE	Master of Civil Engineering	HL7	Optional		
24	MD	Doctor of Medicine	HL7	Optional		
25	MDI	Master of Divinity	HL7	Optional		
26	ME	Master of Engineering	HL7	Optional		
27	MED	Master of Education	HL7	Optional		
28	MEE	Master of Electrical Engineering	HL7	Optional		
29	MFA	Master of Fine Arts	HL7	Optional		
30	MME	Master of Mechanical Engineering	HL7	Optional		
31	MS	Master of Science	HL7	Optional		
32	MSL	Master of Science _ Law	HL7	Optional		
33	MT	Master of Theology	HL7	Optional		
34	NG	Non-Graduate	HL7	Optional		
35	PHD	Doctor of Philosophy	HL7	Optional		
36	PHE	Doctor of Engineering	HL7	Optional		
37	PHS	Doctor of Science	HL7	Optional		
38	SEC	Secretarial Certificate	HL7	Optional		
39	TS	Trade School Graduate	HL7	Optional		

0361 - Sending/receiving application

Table HL7 ID: 0361 Name: Sending/receiving application

Type: USER Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1		No suggested values	User	Optional		

0362 - Sending/receiving facility

Table HL7 ID: 0362 Name: Sending/receiving facility

Type: USER Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1		No suggested values	User	Optional		

0396 - Coding Systems

Table HL7 ID: 0396 Name: Coding Systems

Type: HL7 Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	99958	Procedure Code2	User	Optional	Procedure Code2	
2	HL70002	HL7 Marital Status Table	User	Optional	Marital Status	
3	HL70005	HL7 Race table	User	Optional	Race	
4	HL70070	Specimen Source	User	Optional	Specimen Source	
5	HL70088	Procedure Code	User	Optional	Procedure Code	
6	HL70163	Administrative site	User	Optional	Administrative site	
7	HL70189	HL7 Ethnic Group	User	Optional	Ethnic Group	
8	HL70340	Procedure Code Modifier	User	Optional	Procedure Code Modifier	
9	ISO+	ISO 2955.83 (units of measure) with HL7 extensions	User	Optional	ISO 2955.83 Units w/HL7 exts	See chapter 7 section 7.4.2.6
10	ISO0639	Human Language	User	Optional	Human Language	
11	LN	Logical Observation Identifier Names and Codes (LOINC)	User	Optional	LOINC	Regenstrief Institute c/o LOINC 1050 Wishard Blvd. 5th floor Indianapolis IN 46202. 317/630-7433. Available from the Regenstrief Institute server at http://www.Regenstrief.org/loinc/loinc.htm. Also available via HL7 file server: FTP/Gopher (www.mcis.duke.edu/standards/ termcode/loinclab and www.mcis.duke.edu/standards/termcode/loinclin) and World Wide Web (http://www.mcis.duke.edu/standards/termcode/loincl.htm). January 2000 version has identifiers synonyms and cross-reference codes for reporting over 26 000 laboratory and related observations and 1 500 clinical measures.
12	PH_RaceAndEthnicity_CDC	CDC Defined Race/Ethnicity Codes	User	Optional	CDC Race/Ethnicity	

Order	Code	Description	Source	Usage	Display Name	Instructions
13	SCT	SNOMED Clinical Terms	User	Optional	SNOMED-CT	SNOMED International I325 Waukegan Rd Northfield IL 60093 +1 800-323-4040 mailto:snomed@cap.org http://www.snomed.org
14	SCT2	SNOMED alpha-style codes	User	Optional	SNOMED alpha-style codes	SNOMED International I325 Waukegan Rd Northfield IL 60093 +1 800-323-4040 mailto:snomed@cap.org http://www.snomed.org

99917 - All RPP2 Questions CWE

Table HL7 ID: 99917 Name: All RPP2 Questions CWE

Type: Local Coding System: Local General Code - 99zzz or L

Order	Code	Description	Source	Usage	Display Name	Instructions
1	246116008	Lesion size (observable entity)	User	Optional	LESION SIZE	
2	27350008	Mitotic index (observable entity)	User	Optional	MITOTIC INDEX	
3	371439000	Specimen type (observable entity)	User	Optional	Specimen Type	
4	371441004	Histologic type (observable entity)	User	Optional	Histologic Type	
5	371469007	Histologic grade (observable entity)	User	Optional	Histologic Grade	
6	371470008	Tubule formation score (observable entity)	User	Optional	Tubule formation	
7	371471007	Nuclear pleomorphism score (observable entity)	User	Optional	Nuclear pleomorphism	
8	371473005	Mitotic count score, 25x objective (observable entity)	User	Optional	For a 25x objective with a field area of 0.274 mm2	
9	371474004	Mitotic count score, 40x objective (observable entity)	User	Optional	For a 40x objective with a field area of 0.152 mm2	
10	371475003	Specimen size (observable entity)	User	Optional	Specimen Size	
11	371480007	Tumor site (observable entity)	User	Optional	TUMOR SITE	
12	371493002	Status of venous (large vessel) invasion by tumor (observable entity)	User	Optional	VENOUS (LARGE VESSEL) INVASION (V)	
13	371494008	pN category (observable entity)	User	Optional	REGIONAL LYMPH NODES (pN)	
14	371497001	DISTANT METASTASIS (pM) pM category (observable entity)	User	Optional	DISTANT METASTASIS (pM)	
15	371498006	Additional pathologic finding in tumor specimen (observable entity)	User	Optional	ADDITIONAL PATHOLOGIC FINDINGS	
16	371513001	Status of perineural invasion by tumor (observable entity)	User	Optional	PERINEURAL INVASION	
17	372276001	Nottingham Combined Grade (observable entity)	User	Optional	Total Nottingham Score (combined grade)	
18	372289007	Status of periprostatic fat invasion by tumor (observable entity)	User	Optional	PERIPROSTATIC FAT INVASION	
19	384625004	pT category (observable entity)	User	Optional	PRIMARY TUMOR (pT)	
20	384630000	Tumor size, invasive component (observable entity)	User	Optional	Size of invasive component	
21	384669006	Status of microcalcifications in specimen (observable entity)	User	Optional	Margins involved by invasive carcinoma; specify which margin	

Order	Code	Description	Source	Usage	Display Name	Instructions
22	384695008	Extent of surgical margin involvement by malignant neoplasm (observable entity)	User	Optional	Extent of Margin Involvement for Invasive Carcinoma	
23	384705006	Extent of surgical margin involvement by ductal carcinoma in situ (observable entity)	User	Optional	Extent of Margin Involvement by DCIS, other specify	
24	384727002	Specimen laterality (observable entity)	User	Optional	LATERALITY	
25	384960007	Surgical margin site involved by malignant neoplasm (observable entity)	User	Optional	Margins involved by invasive carcinoma; specify which margin	
26	384994009	Primary Gleason pattern (observable entity)	User	Optional	Primary Pattern	
27	384995005	Secondary Gleason pattern (observable entity)	User	Optional	Secondary Pattern	
28	384999004	Status of seminal vesicle invasion by tumor (observable entity)	User	Optional	SEMINAL VESICLE INVASION	
29	385002007	Tertiary Gleason pattern (observable entity)	User	Optional	Tertiary Pattern	
30	385009003	Status of extraprostatic extension of tumor (observable entity)	User	Optional	EXTRAPROSTATIC EXTENSION	
31	385011007	Transurethral prostatic resection specimen tumor quantitation (observable entity)	User	Optional	TUMOR QUANTITATION: TUR Specimens	
32	385391004	Status of venous (large vessel)/lymphatic (small vessel) invasion by tumor (observable entity)	User	Optional	VENOUS/LYMPHATIC (LARGE/SMALL VESSEL) INVASION (V/L)	
33	395535007	Status of surgical margin involvement by tumor (observable entity)	User	Optional	MARGINS	
34	395543002	Status of surgical deep margin involvement by tumor (observable entity)	User	Optional	Deep Margin	
35	395715009	Status of lymphatic (small vessel) invasion by tumor (observable entity)	User	Optional	LYMPHATIC (SMALL VESSEL) INVASION (L)	
36	396236002	Depth of invasion by tumor (observable entity)	User	Optional	DEPTH OF INVASION	
37	396327004	Type of lymph node submitted (observable entity)	User	Optional	LYMPH NODE SAMPLING	
38	396367003	Status of tumor involvement by ulceration (observable entity)	User	Optional	ULCERATION	
39	396395003	Status of tumor infiltration by lymphocytes (observable entity)	User	Optional	TUMOR INFILTRATING LYMPHOCYTES	
40	396406008	Status of specimen involvement by satellite nodule(s) (observable entity)	User	Optional	SATELLITE NODULE(S)	
41	396410006	Tumor pigmentation (observable entity)	User	Optional	PIGMENTATION	
42	396415001	Status of specimen involvement by matted nodes (observable entity)	User	Optional	Matted nodes	
43	396432002	Status of regression of tumor (observable entity)	User	Optional	TUMOR REGRESSION	

Order	Code	Description	Source	Usage	Display Name	Instructions
44	396509003	Status of surgical lateral margin involvement by tumor (observable entity)	User	Optional	Lateral Margins	
45	396809007	Surgical margin closest to malignant neoplasm (observable entity)	User	Optional	Invasive carcinoma closest uninvolved margin; specify which margin	
46	399377002	Specimen margin involved by ductal carcinoma in situ (observable entity)	User	Optional	Margins involved by DCIS specify which margin	
47	399489004	Status of specimen involvement by macroscopic tumor (observable entity)	User	Optional	MACROSCOPIC TUMOR	
48	399663008	Specimen margin closest to ductal carcinoma in situ (observable entity)	User	Optional	DCIS Closest uninvolved margin; specify which margin	

99918 - All RPP2 Answers CWE

Table HL7 ID: 99918 Name: All RPP2 Answers CWE

Type: Local Coding System: Local General Code - 99zzz or L

Order	Code	Description	Source	Usage	Display Name	Instructions
1	11671000	Adenoid cystic carcinoma (morphologic abnormality)	User	Optional	Adenoid cystic carcinoma	
2	119325001	Skin (tissue) specimen (specimen)	User	Optional	Skin	
3	122596005	Specimen from breast obtained by complete excision of lesion, less than total mastectomy (specimen)	User	Optional	Specimen from breast obtained by complete excision of lesion, less than total mastectomy	
4	122724004	Specimen from prostate obtained by enucleation (specimen)	User	Optional	Specimen from prostate obtained by enucleation	
5	127457009	Tissue specimen from breast (specimen)	User	Optional	Tissue specimen from breast	
6	128170008	Tissue specimen from prostate (specimen)	User	Optional	Tissue specimen from prostate	
7	128640002	Glandular intraepithelial neoplasia, grade III (morphologic abnormality)	User	Optional	Glandular intraepithelial neoplasia, grade III	
8	128732001	Mucosal lentiginous melanoma (morphologic abnormality)	User	Optional	Mucosal lentiginous melanoma	
9	14926007	pM1 stage (finding)	User	Optional	pM1 stage	
10	15176003	Adenocarcinoma with squamous metaplasia (morphologic abnormality)	User	Optional	Acral lentiginous melanoma, malignant	
11	16974005	Acral lentiginous melanoma, malignant (morphologic abnormality)	User	Optional	Acral lentiginous melanoma, malignant	
12	17076002	pMX stage (finding)	User	Optional	pMX stage	
13	17474009	Atypical glandular hyperplasia (morphologic abnormality)	User	Optional	Atypical glandular hyperplasia	
14	19100000	Structure of lower inner quadrant of breast (body structure)	User	Optional	Structure of lower inner quadrant of breast	
15	2092003	Malignant melanoma, no ICD-O subtype (morphologic abnormality)	User	Optional	Malignant melanoma, no ICD-O subtype	
16	2142002	Nodular melanoma (morphologic abnormality)	User	Optional	Nodular melanoma	
17	21917009	pN0 category (finding)	User	Optional	pN0 category	
18	22694002	Adenocarcinoma with apocrine metaplasia (morphologic abnormality)	User	Optional	Adenocarcinoma with apocrine metaplasia	
19	23109009	Pseudosarcomatous carcinoma (morphologic abnormality)	User	Optional	Pseudosarcomatous carcinoma	

Order	Code	Description	Source	Usage	Display Name	Instructions
20	253026002	Adenocarcinoma with metaplasia (morphologic abnormality)	User	Optional	pM1 stage	
21	258351006	Grade 1 (qualifier value)	User	Optional	Grade 1	
22	258353009	Grade 3 (qualifier value)	User	Optional	Grade 3	
23	266569009	Benign prostatic hyperplasia (disorder)	User	Optional	Benign prostatic hyperplasia	
24	2985005	Paget's disease, mammary (morphologic abnormality)	User	Optional	Paget's disease, mammary	
25	30156004	Cribriform carcinoma (morphologic abnormality)	User	Optional	Medullary carcinoma	
26	309060009	Mastectomy sample (specimen)	User	Optional	Mastectomy sample	
27	32913002	Medullary carcinoma (morphologic abnormality)	User	Optional	Medullary carcinoma	
28	33419001	LX stage (finding)	User	Optional	LX stage	
29	33564002	Structure of lower outer quadrant of breast (body structure)	User	Optional	Structure of lower outer quadrant of breast	
30	35917007	Adenocarcinoma, no subtype (morphologic abnormality)	User	Optional	Adenocarcinoma, no subtype	
31	369731000	Perineural invasion by tumor present (finding)	User	Optional	Perineural invasion by tumor present	
32	369732007	Venous (large vessel) invasion by tumor present (finding)	User	Optional	Venous	
33	369760009	Ulcerated tumor configuration (finding)	User	Optional	Ulcerated tumor configuration	
34	369770006	Gleason Pattern 1 (finding)	User	Optional	Gleason Pattern 1	
35	369771005	Gleason Pattern 2 (finding)	User	Optional	Gleason Pattern 2	
36	369772003	Gleason Pattern 3 (finding)	User	Optional	Gleason Pattern 3	
37	369773008	Gleason Pattern 4 (finding)	User	Optional	Gleason Pattern 4	
38	369774002	Gleason Pattern 5 (finding)	User	Optional	Gleason Pattern 5	
39	369778004	Breast tubule formation: Majority of tumor >75% (score:1) (finding)	User	Optional	Breast tubule formation: Majority of tumor >75% (score:1)	
40	369779007	Breast tubule formation: Moderate 10% to 75% (score:2) (finding)	User	Optional	Breast tubule formation: Moderate 10% to 75% (score:2)	
41	369780005	Breast tubule formation: Minimal <10% (score:3) (finding	User	Optional	Breast tubule formation: Minimal <10% (score:3)	
42	369784001	Less than 10 mitoses per 10 HPF (score:1) (finding)	User	Optional	Less than 10 mitoses per 10 HPF (score:1)	
43	369785000	10-20 mitoses per 10 HPF (score:2) (finding)	User	Optional	10-20 mitoses per 10 HPF (score:2)	
44	369786004	Greater than 20 mitoses per 10 HPF (score:3) (finding)	User	Optional	Greater than 20 mitoses per 10 HPF (score:3)	
45	369787008	0-5 mitoses per 10 HPF (score:1) (finding)	User	Optional	0-5 mitoses per 10 HPF (score:1)	

Order	Code	Description	Source	Usage	Display Name	Instructions
46	369788003	6-10 mitoses per 10 HPF (score:2) (finding)	User	Optional	6-10 mitoses per 10 HPF (score:2)	
47	369789006	Greater than 10 mitoses per 10 HPF (score:3) (finding)	User	Optional	Greater than 10 mitoses per 10 HPF (score:3)	
48	369790002	Nottingham Combined Grade I: 3-5 points (finding)	User	Optional	Nottingham Combined Grade I: 3-5 points	
49	369791003	Nottingham Combined Grade II: 6-7 points (finding)	User	Optional	Nottingham Combined Grade II: 6-7 points	
50	369792005	Nottingham Combined Grade III: 8-9 points (finding)	User	Optional	Nottingham Combined Grade III: 8-9 points	
51	370051000	Perineural invasion by tumor absent (finding)	User	Optional	Perineural invasion by tumor absent	
52	372291004	Periprostatic fat invasion by tumor present (finding)	User	Optional	Periprostatic fat invasion by tumor present	
53	372293001	Seminal vesicle invasion by tumor absent (finding)	User	Optional	Seminal vesicle invasion by tumor absent	
54	372294007	Seminal vesicle invasion by tumor present (finding)	User	Optional	Seminal vesicle invasion by tumor present	
55	372305000	Extraprostatic extension of tumor absent (finding)	User	Optional	Extraprostatic extension of tumor absent	
56	372306004	Extraprostatic extension of tumor present (finding)	User	Optional		
57	373151001	pN0: No regional lymph node metastasis histologically (i.e., none greater than 0.2 mm), no additional examination for isolated tumor cells (breast) (finding)	User	Optional	pN0: No regional lymph node metastasis histologically, no additional examination for isolated tumor	
58	373156006	pN1: Metastasis in 1 to 3 axillary lymph nodes, and/or in internal mammary nodes with microscopic disease detected by sentinel lymph node dissection but not clinically apparent (breast) (finding)	User	Optional	Surgical posterolateral	
59	373157002	pN1mi: Micrometastasis (greater than 0.2 mm, none greater than 2.0 mm) (breast) (finding)	User	Optional	pN1mi: Micrometastasis	
60	373159004	pN1a: Metastasis in 1 to 3 axillary lymph nodes (at least one tumor deposit greater than 2.0 mm) (breast) (finding)	User	Optional	pN1a: Metastasis in 1 to 3 axillary lymph nodes	
61	373160009	pN1b: Metastasis in internal mammary lymph nodes with microscopic disease detected by sentinel lymph node dissection but not clinically apparent (breast) (finding)	User	Optional	pN1b: Metastasis in internal mammary lymph nodes with microscopic disease detected by sentinel lymph	
62	373161008	pN1c: Metastasis in 1 to 3 axillary lymph nodes and in internal mammary lymph nodes with microscopic disease detected by sentinel lymph node dissection but not clinically apparent (breast) (finding)	User	Optional	pN1c: Metastasis in 1 to 3 axillary lymph nodes and in internal mammary lymph nodes with microscopic	

Order	Code	Description	Source	Usage	Display Name	Instructions
63	373163006	pN2a: Metastasis in 4 to 9 axillary lymph nodes (at least one tumor deposit greater than 2.0 mm) (breast) (finding)	User	Optional	pN2a: Metastasis in 4 to 9 axillary lymph nodes	
64	373164000	pN2b: Metastasis in clinically apparent internal mammary lymph nodes in the absence of axillary lymph node metastasis (breast) (finding)	User	Optional	pN2b: Metastasis in clinically apparent internal mammary lymph nodes in the absence of axillary lymp	
65	373165004	pN3a: Metastasis in 10 or more axillary lymph nodes (at least one tumor deposit greater than 2.0 mm), or metastasis to infraclavicular lymph nodes (breast) (finding)	User	Optional	pN3a: Metastasis in 10 or more axillary lymph nodes	
66	373166003	pN3c: Metastasis in ipsilateral supraclavicular lymph nodes (breast) (finding)	User	Optional	pN3c: Metastasis in ipsilateral supraclavicular lymph nodes	
67	373167007	pN3b: Tumor of breast with metastasis as per AJCC 6th Edition definition (breast) (finding)	User	Optional	Specimen from skin obtained by wide excision	
68	373176000	pTis: Ductal carcinoma in situ (breast) (finding)	User	Optional	pTis: Ductal carcinoma in situ	
69	373177009	pTis: Lobular carcinoma in situ (breast) (finding)	User	Optional	pTis: Lobular carcinoma in situ	
70	373178004	pTis: Paget disease without invasive carcinoma (breast) (finding)	User	Optional	pTis: Paget disease without invasive carcinoma	
71	373179007	pT1mic: Microinvasion 0.1 cm or less in greatest dimension (breast) (finding)	User	Optional	pT1mic: Microinvasion 0.1 cm or less in greatest dimension	
72	373180005	pT1a: Tumor more than 0.1 cm but not more than 0.5 cm in greatest dimension (breast) (finding)	User	Optional	pT1a: Tumor more than 0.1 cm but not more than 0.5 cm in greatest dimension	
73	373182002	pT2: Tumor more than 2 cm but not more than 5 cm in greatest dimension (breast) (finding)	User	Optional	pT2: Tumor more than 2 cm but not more than 5 cm in greatest dimension	
74	373183007	pT1c: Tumor more than 1 cm but not more than 2 cm in greatest dimension (breast) (finding)	User	Optional	pT1c: Tumor more than 1 cm but not more than 2 cm in greatest dimension	
75	373184001	pT3: Tumor more than 5 cm in greatest dimension (breast) (finding)	User	Optional	pT3: Tumor more than 5 cm in greatest dimension	
76	373186004	pT4a: Tumor of any size with extension to chest wall, not including pectoralis muscle (breast) (finding)	User	Optional	pT4a: Tumor of any size with extension to chest wall, not including pectoralis muscle	
77	373187008	pT4b: Tumor of any size with edema (including peau d'orange) or ulceration of the skin of the breast or satellite skin nodules confined to the same breast (breast) (finding)	User	Optional	pT4b: Tumor of any size with edema (including peau d'orange) or ulceration of the skin of the breast	

Order	Code	Description	Source	Usage	Display Name	Instructions
78	373189006	pT4c: Tumor of any size with direct extension to chest wall (not including pectoralis muscle) and edema (including peau d'orange) or ulceration of the skin of the breast or satellite skin nodules confined to the same breast (finding)	User	Optional	pT4c: Tumor of any size with direct extension to chest wall (not including pectoralis muscle) and ed	
79	373190002	pT4d: Inflammatory carcinoma (breast) (finding)	User	Optional	pT4d: Inflammatory carcinoma	
80	373192005	Lymph node from axillary dissection (specimen)	User	Optional	Lymph node from axillary dissection	
81	373193000	Lymph node from sentinel lymph node dissection (specimen)	User	Optional	Lymph node from sentinel lymph node dissection	
82	373194006	No lymph node submitted (finding)	User	Optional	No lymph node submitted	
83	373204007	pT1b: Tumor more than 0.5 cm but not more than 1 cm in greatest dimension (breast) (finding)	User	Optional	pT1b: Tumor more than 0.5 cm but not more than 1 cm in greatest dimension	
84	373395001	Invasive ductal carcinoma with an extensive intraductal component (morphologic abnormality)	User	Optional	Periprostatic fat invasion by tumor present	
85	384668003	Nottingham Combined Grade cannot be determined (finding)	User	Optional	Nottingham Combined Grade cannot be determined	
86	384670007	Microcalcifications not identified in specimen (finding)	User	Optional	Microcalcifications not identified in specimen	
87	384672004	Microcalcifications in non-neoplastic tissue present (finding)	User	Optional	pT1c: Tumor more than 1 cm but not more than 2 cm in greatest dimension	
88	384673009	Microcalcifications in tumor and non-neoplastic tissue present (finding)	User	Optional	Microcalcifications in tumor and non-neoplastic tissue present	
89	384687009	Surgical margin uninvolved by ductal carcinoma in situ (finding)	User	Optional	Surgical margin uninvolved by ductal carcinoma in situ	
90	384688004	Surgical margin involved by ductal carcinoma in situ (finding)	User	Optional	Surgical margin involved by ductal carcinoma in situ	
91	384689007	Surgical margin involved by malignant neoplasm (finding)	User	Optional	Tubular adenocarcinoma	
92	384690003	Surgical margin uninvolved by malignant neoplasm (finding)	User	Optional	Surgical margin uninvolved by malignant neoplasm	
93	384696009	Surgical margin involved by malignant neoplasm, unifocal (finding)	User	Optional	Surgical margin involved by malignant neoplasm, unifocal	
94	384697000	Surgical margin involved by malignant neoplasm, multifocal (finding)	User	Optional	Surgical margin involved by malignant neoplasm, multifocal	
95	384698005	Surgical margin involved by malignant neoplasm, extensive (finding)	User	Optional	Surgical margin involved by malignant neoplasm, extensive	

Order	Code	Description	Source	Usage	Display Name	Instructions
96	384701002	Surgical margin involved by ductal carcinoma in situ, unifocal (finding)	User	Optional		
97	384703004	Surgical margin involved by ductal carcinoma in situ, multifocal (finding)	User	Optional		
98	384704005	Surgical margin involved by ductal carcinoma in situ, extensive (finding)	User	Optional		
99	384735004	Nuclear pleomorphism: small regular nuclei (score:1) (finding)	User	Optional	Nuclear pleomorphism: small regular nuclei (score:1)	
100	384737007	Nuclear pleomorphism: moderate increase in size, etc (score:2) (finding)	User	Optional	Nuclear pleomorphism: moderate increase in size, etc (score:2)	
101	384738002	Nuclear pleomorphism: marked variation in size, nucleoli, chromatin clumping, etc (score:3) (finding)	User	Optional	Nuclear pleomorphism: marked variation in size, nucleoli, chromatin clumping, etc (score:3)	
102	384741006	Grade cannot be determined (finding)	User	Optional	Grade cannot be determined	
103	384744003	Lymph node from sentinel lymph node dissection and axillary dissection (specimen)	User	Optional	Lymph node from sentinel lymph node dissection and axillary dissection	
104	384819001	Specimen from prostate obtained by needle biopsy (specimen)	User	Optional	Specimen from prostate obtained by needle biopsy	
105	384820007	Specimen from prostate obtained by transurethral resection (specimen)	User	Optional	Specimen from prostate obtained by transurethral resection	
106	384984004	pT2a: Unilateral, one-half of one lobe or less (prostate) (finding)	User	Optional	pN2b: Clinically apparent	
107	384985003	pT2b: Unilateral, involving more than one-half of lobe but not both lobes (prostate) (finding)	User	Optional	pT2b: Unilateral, involving more than one-half of lobe but not both lobes	
108	384986002	pT2c: Bilateral disease (prostate) (finding)	User	Optional	pT2c: Bilateral disease	
109	384988001	pT3a: Extraprostatic extension (prostate) (finding)	User	Optional	pT3a: Extraprostatic extension	
110	384989009	pT3b: Seminal vesicle invasion (prostate) (finding)	User	Optional	pT3b: Seminal vesicle invasion	
111	384990000	pT4: Invasion of bladder AND/OR rectum (prostate) (finding)	User	Optional	pT4: Invasion of bladder AND/OR rectum	
112	384998007	Periprostatic fat invasion by tumor not identified (finding)	User	Optional	Lymph node from sentinel lymph node dissection and axillary dissection	
113	385000004	Seminal vesicle invasion by tumor not identified (finding)	User	Optional	Seminal vesicle invasion by tumor not identified	
114	385001000	Perineural invasion by tumor not identified (finding)	User	Optional	Perineural invasion by tumor not identified	
115	385003002	Surgical apical margin involved by malignant neoplasm (finding)	User	Optional	Surgical apical margin involved by malignant neoplasm	

Order	Code	Description	Source	Usage	Display Name	Instructions
116	385004008	Surgical anterior margin involved by malignant neoplasm (finding)	User	Optional	Surgical anterior margin involved by malignant neoplasm	
117	385005009	Surgical lateral margin involved by malignant neoplasm (finding)	User	Optional	Surgical lateral margin involved by malignant neoplasm	
118	385006005	Surgical posterior margin involved by malignant neoplasm (finding)	User	Optional	Surgical posterior margin involved by malignant neoplasm	
119	385007001	Surgical bladder neck margin involved by malignant neoplasm (finding)	User	Optional	pN0(mol+): No regional lymph node metastasis histologically, positive nonmorphologic (molecular) fin	
120	385008006	Surgical posterolateral (neurovascular bundle) margin involved by malignant neoplasm (finding)	User	Optional	Blue nevus, malignant	
121	385015003	Extraprostatic extension of tumor present, unifocal (finding)	User	Optional	Extraprostatic extension of tumor present, unifocal	
122	385016002	Extraprostatic extension of tumor present, multifocal (finding)	User	Optional	Extraprostatic extension of tumor present, multifocal	
123	385017006	Extraprostatic extension of tumor indeterminate (finding)	User	Optional	Extraprostatic extension of tumor indeterminate	
124	385293004	Grade 2 (qualifier value)	User	Optional	Grade 2	
125	385299000	Seminal vesicle absent in tumor specimen (finding)	User	Optional	Seminal vesicle absent in tumor specimen	
126	38549000	Carcinoma, undifferentiated (morphologic abnormality)	User	Optional	Carcinoma, undifferentiated	
127	395537004	Surgical margin involvement by tumor cannot be assessed (finding)	User	Optional	Surgical margin involvement by tumor cannot be assessed	
128	395544008	Surgical deep margin involved by malignant neoplasm (finding)	User	Optional	Surgical deep margin involved by malignant neoplasm	
129	395552006	Venous (large vessel)/lymphatic (small vessel) invasion by tumor absent (finding)	User	Optional	Venous (large vessel)/lymphatic (small vessel) invasion by tumor absent	
130	395553001	Venous (large vessel)/lymphatic (small vessel) invasion by tumor present (finding)	User	Optional	Venous (large vessel)/lymphatic (small vessel) invasion by tumor present	
131	395554007	Venous (large vessel)/lymphatic (small vessel) invasion by tumor indeterminate (finding)	User	Optional	Venous (large vessel)/lymphatic (small vessel) invasion by tumor indeterminate	
132	395555008	No additional pathologic finding in tumor specimen (finding)	User	Optional	No additional pathologic finding in tumor specimen	
133	396353007	Specimen from skin obtained by elliptical excision (specimen)	User	Optional	Specimen from skin obtained by elliptical excision	

Order	Code	Description	Source	Usage	Display Name	Instructions
134	396354001	Specimen from skin obtained by wide excision (specimen)	User	Optional	Specimen from skin obtained by wide excision	
135	396355000	Specimen from skin obtained by excision (specimen) (specify): ____ not coded	User	Optional	Specimen from skin obtained by excision	
136	396356004	Specimen from skin obtained by re-excision (specimen) (specify): ____ not coded	User	Optional	Specimen from skin obtained by re-excision	
137	396357008	Specimen from skin obtained by elliptical re-excision (specimen)	User	Optional	Specimen from skin obtained by elliptical re-excision	
138	396358003	Specimen from skin obtained by wide re-excision (specimen)	User	Optional	Specimen from skin obtained by wide re-excision	
139	396359006	Lymph node from regional lymph node dissection (specimen) (specify)	User	Optional	Lymph node from regional lymph node dissection	
140	396364005	Lesion size cannot be determined (finding)	User	Optional	Lesion size cannot be determined	
141	396369000	pTis: Melanoma in situ (melanoma of the skin) (finding)	User	Optional	pTis: Melanoma in situ	
142	396371000	pT1a: Melanoma 1.0 mm or less in thickness and level II or III, no ulceration (melanoma of the skin) (finding)	User	Optional	pT1a: Melanoma 1.0 mm or less in thickness and level II or III, no ulceration	
143	396372007	pT1b: Melanoma 1.0 mm or less in thickness and level IV or V or with ulceration (melanoma of the skin) (finding)	User	Optional	pT1b: Melanoma 1.0 mm or less in thickness and level IV or V or with ulceration	
144	396374008	pT2a: Melanoma 1.01 to 2.0 mm in thickness, no ulceration (melanoma of the skin) (finding)	User	Optional	pT2a: Melanoma 1.01 to 2.0 mm in thickness, no ulceration	
145	396375009	pT2b: Melanoma 1.01 to 2.0 mm in thickness, with ulceration (melanoma of the skin) (finding)	User	Optional	pT2b: Melanoma 1.01 to 2.0 mm in thickness, with ulceration	
146	396377001	pT3a: Melanoma 2.01 to 4.0 mm in thickness, no ulceration (melanoma of the skin) (finding)	User	Optional	pT3a: Melanoma 2.01 to 4.0 mm in thickness, no ulceration	
147	396378006	pT3b: Melanoma 2.01 to 4.0 mm in thickness, with ulceration (melanoma of the skin) (finding)	User	Optional	pT3b: Melanoma 2.01 to 4.0 mm in thickness, with ulceration	
148	396380000	pT4a: Melanoma greater than 4.0 mm in thickness, no ulceration (melanoma of the skin) (finding)	User	Optional	pT4a: Melanoma greater than 4.0 mm in thickness, no ulceration	
149	396381001	pT4b: Melanoma greater than 4.0 mm in thickness, with ulceration (melanoma of the skin) (finding)	User	Optional	pT4b: Melanoma greater than 4.0 mm in thickness, with ulceration	
150	396383003	pN1a: Clinically occult (microscopic) metastasis (melanoma of the skin) (finding)	User	Optional	Extraprostatic extension of tumor present, unifocal	

Order	Code	Description	Source	Usage	Display Name	Instructions
151	396384009	pN1b: Clinically apparent (macroscopic) metastasis (melanoma of the skin) (finding)	User	Optional	pN1b: Clinically apparent	
152	396386006	pN2a: Clinically occult (microscopic) metastasis (melanoma of the skin) (finding)	User	Optional	pN2a: Clinically occult	
153	396387002	pN2b: Clinically apparent (macroscopic) metastasis (melanoma of the skin) (finding)	User	Optional	pN2b: Clinically apparent	
154	396388007	pN2c: Satellite or in-transit metastasis without nodal metastasis (melanoma of the skin) (finding)	User	Optional	pN2c: Satellite or in-transit metastasis without nodal metastasis	
155	396389004	pN3: Metastasis in four or more regional nodes, or matted metastatic nodes, or in-transit metastasis or satellite(s) with metastasis in regional node(s) (melanoma of the skin) (finding)	User	Optional	pN3: Metastasis in four or more regional nodes, or matted metastatic nodes, or in-transit metastasis	
156	396390008	pM1a: Metastasis to skin, subcutaneous tissues, or distant lymph nodes (melanoma of the skin) (finding)	User	Optional	pM1a: Metastasis to skin, subcutaneous tissues, or distant lymph nodes	
157	396391007	pM1b: Metastasis to lung (melanoma of the skin) (finding)	User	Optional	pM1b: Metastasis to lung	
158	396392000	pM1c: Metastasis to visceral site other than lung or distant metastasis at any site associated with an elevated serum lactic dehydrogenase (LDH) (melanoma of the skin) (finding)	User	Optional	pM1c: Metastasis to visceral site other than lung or distant metastasis at any site associated with	
159	396393005	Perineural invasion by tumor indeterminate (finding)	User	Optional	Perineural invasion by tumor indeterminate	
160	396396002	Tumor infiltration by lymphocytes absent (finding)	User	Optional	Right breast structure	
161	396397006	Tumor infiltration by lymphocytes brisk (finding)	User	Optional	L1 stage	
162	396398001	Tumor infiltration by lymphocytes non-brisk (finding)	User	Optional	Small cell carcinoma	
163	396399009	Surgical lateral margin uninvolved by in situ melanoma (finding)	User	Optional	Surgical lateral margin uninvolved by in situ melanoma	
164	396400002	Surgical lateral margin involved by in situ melanoma (finding)	User	Optional	Surgical lateral margin involved by in situ melanoma	
165	396403000	Specimen involvement by macroscopic tumor present (finding)	User	Optional	Specimen involvement by macroscopic tumor present	
166	396404006	Specimen involvement by macroscopic tumor absent (finding)	User	Optional	Specimen involvement by macroscopic tumor absent	
167	396405007	Specimen involvement by macroscopic tumor indeterminate (finding)	User	Optional	Specimen involvement by macroscopic tumor indeterminate	

Order	Code	Description	Source	Usage	Display Name	Instructions
168	396407004	Specimen involvement by satellite nodule(s) absent (finding)	User	Optional	Specimen involvement by satellite nodul	
169	396408009	Specimen involvement by satellite nodule(s) present (finding)	User	Optional	Specimen involvement by satellite nodul	
170	396409001	Specimen involvement by satellite nodule(s) cannot be determined (finding)	User	Optional	Specimen involvement by satellite nodul	
171	396416000	Specimen involvement by matted nodes present (finding)	User	Optional	Specimen involvement by matted nodes present	
172	396418004	Specimen involvement by matted nodes absent (finding)	User	Optional	Specimen involvement by matted nodes absent	
173	396434001	Regression of tumor absent (finding)	User	Optional	Regression of tumor absent	
174	396440008	Regression involving 75% or more of tumor, present (finding)	User	Optional	Regression involving 75% or more of tumor, present	
175	396443005	Regression involving less than 75% of tumor, present (finding)	User	Optional	Regression involving less than 75% of tumor, present	
176	396446002	Less than 1 mitotic figure per mm2 (finding)	User	Optional	pN1mi: Micrometastasis	
177	396447006	1 or more mitotic figure per mm2 (finding)	User	Optional	1 or more mitotic figure per mm2	
178	396512000	Surgical lateral margin uninvolved by malignant melanoma (finding)	User	Optional	Surgical lateral margin uninvolved by malignant melanoma	
179	396513005	Surgical lateral margin involved by malignant melanoma (finding)	User	Optional	Surgical lateral margin involved by malignant melanoma	
180	396516002	Surgical deep margin uninvolved by malignant melanoma (finding)	User	Optional	Surgical deep margin uninvolved by malignant melanoma	
181	396517006	Surgical deep margin involved by malignant melanoma (finding)	User	Optional	Surgical deep margin involved by malignant melanoma	
182	396555001	Unpigmented tumor (finding)	User	Optional	Infiltrating duct carcinoma	
183	396561003	Tumor pigmentation, diffuse (finding)	User	Optional	Tumor pigmentation, diffuse	
184	396562005	Tumor pigmentation, patchy/focal (finding)	User	Optional	Lobular carcinoma in situ	
185	396563000	Tumor pigmentation indeterminate (finding)	User	Optional	Structure of upper outer quadrant of breast	
186	396564006	Tumor pigmentation cannot be determined (finding)	User	Optional	Tumor pigmentation cannot be determined	
187	396565007	Tumor ulceration absent (finding)	User	Optional	Tumor ulceration absent	
188	397200008	Microcalcifications present in malignant neoplasm (finding)	User	Optional	Microcalcifications present in malignant neoplasm	
189	397201007	Microcalcifications present in ductal carcinoma in situ (finding)	User	Optional	Microcalcifications present in ductal carcinoma in situ	
190	397206002	Specimen laterality not specified (finding)	User	Optional	Specimen laterality not specified	

Order	Code	Description	Source	Usage	Display Name	Instructions
191	397213002	pM1a: Distant metastasis to non-regional lymph node(s) (prostate) (finding)	User	Optional	pM1a: Distant metastasis to non-regional lymph nod	
192	397214008	pM1b: Distant metastasis to bone(s) (prostate) (finding)	User	Optional	pM1b: Distant metastasis to bon	
193	397215009	pM1c: Distant metastasis site other than bone or non-regional lymph node(s) (prostate)	User	Optional	pM1c: Distant metastasis site other than bone or non-regional lymph nod	
194	397216005	Benign glands at surgical margin (finding)	User	Optional	Benign glands at surgical margin	
195	397376003	Depth of invasion by tumor cannot be determined (finding)	User	Optional	Depth of invasion by tumor cannot be determined	
196	39880006	pT0 category (finding)	User	Optional	pT0 category	
197	39937001	Skin structure (body structure)	User	Optional	Skin structure	
198	399385006	Surgical lateral margin involvement by melanoma cannot be assessed (finding)	User	Optional	Surgical inferior margin is closest uninvolved margin to malignant neoplasm	
199	399416001	Extent of surgical margin involvement by ductal carcinoma in situ cannot be assessed (finding)	User	Optional		
200	399475009	Minimal deviation melanoma (morphologic abnormality)	User	Optional	pT4d: Inflammatory carcinoma	
201	399495003	Prostate tumor incidental histologic finding in more than 5% of tissue resected (finding)	User	Optional	Prostate tumor incidental histologic finding in more than 5% of tissue resected	
202	399510009	Prostate tumor incidental histologic finding in 5% or less of tissue resected (finding)	User	Optional	Prostate tumor incidental histologic finding in 5% or less of tissue resected	
203	399606003	Cannot be determined (see Comment) (finding)	User	Optional	Cannot be determined	
204	399630001	pT category not identified (finding)	User	Optional	pT category not identified	
205	399642006	Nevus remnant (morphologic abnormality)	User	Optional	pT1b: Tumor more than 0.5 cm but not more than 1 cm in greatest dimension	
206	399644007	Neurotropic melanoma, malignant (morphologic abnormality)	User	Optional	No lymph node submitted	
207	399686001	Tumor size, invasive component, cannot be determined (finding)	User	Optional	Structure of upper inner quadrant of breast	
208	399695009	Extent of surgical margin involvement by malignant neoplasm cannot be assessed (finding)	User	Optional	Extent of surgical margin involvement by malignant neoplasm cannot be assessed	
209	399717009	Surgical deep margin involvement by melanoma cannot be assessed (finding)	User	Optional	Surgical inferior margin involved by malignant neoplasm	
210	40223008	V0 stage (finding)	User	Optional	V0 stage	

Order	Code	Description	Source	Usage	Display Name	Instructions
211	406088001	pN0(i-): No regional lymph node metastasis histologically, negative morphologic findings for isolated tumor cells (breast) (finding)	User	Optional	PN0(i-): No regional lymph node metastasis histologically, negative morphologic findings for isolate	
212	406089009	pN0(i+): No regional lymph node metastasis histologically, positive morphologic findings for isolated tumor cells, no cluster greater than 0.2 mm (breast) (finding)	User	Optional	pN0(i+): No regional lymph node metastasis histologically, positive morphologic findings for isolate	
213	406090000	pN0(mol-): No regional lymph node metastasis histologically, negative nonmorphologic (molecular) findings for isolated tumor cells (breast) (finding)	User	Optional	pN0(mol-): No regional lymph node metastasis histologically, negative nonmorphologic (molecular) fin	
214	406091001	pN0(mol+): No regional lymph node metastasis histologically, positive nonmorphologic (molecular) findings for isolated tumor cells (breast) (finding)	User	Optional	pN0(mol+): No regional lymph node metastasis histologically, positive nonmorphologic (molecular) fin	
215	41216001	Prostatic structure (body structure)	User	Optional	Prostatic structure	
216	418011000	Surgical inferior margin involved by malignant neoplasm (finding)	User	Optional	Surgical inferior margin involved by malignant neoplasm	
217	418077005	Surgical superior margin is closest uninvolved margin to malignant neoplasm (finding)	User	Optional	Surgical superior margin is closest uninvolved margin to malignant neoplasm	
218	418359007	Surgical lateral margin is closest uninvolved margin to malignant neoplasm (finding)	User	Optional	Surgical lateral margin is closest uninvolved margin to malignant neoplasm	
219	418663008	Surgical medial margin is closest uninvolved margin to malignant neoplasm (finding)	User	Optional	Surgical medial margin is closest uninvolved margin to malignant neoplasm	
220	418666000	Surgical superior margin involved by malignant neoplasm (finding)	User	Optional	Surgical superior margin involved by malignant neoplasm	
221	418890002	Surgical deep margin is closest uninvolved margin to malignant neoplasm (finding)	User	Optional	Surgical deep margin is closest uninvolved margin to malignant neoplasm	
222	41919003	Juvenile carcinoma of the breast (morphologic abnormality)	User	Optional	Juvenile carcinoma of the breast	
223	420186002	Surgical medial margin involved by malignant neoplasm (finding)	User	Optional	Surgical medial margin involved by malignant neoplasm	
224	420194009	Surgical inferior margin is closest uninvolved margin to malignant neoplasm (finding)	User	Optional	Surgical inferior margin is closest uninvolved margin to malignant neoplasm	
225	43189003	pTX category (finding)	User	Optional	pTX category	
226	44474009	Malignant melanoma in Hutchinson's melanotic freckle (morphologic abnormality)	User	Optional	pTis: Lobular carcinoma in situ	
227	44649003	L0 stage (finding)	User	Optional	L0 stage	

Order	Code	Description	Source	Usage	Display Name	Instructions
228	45552005	pN1 category (finding)	User	Optional	pN1 category	
229	4631006	Tubular adenocarcinoma (morphologic abnormality)	User	Optional	Tubular adenocarcinoma	
230	49058007	Structure of central portion of breast (body structure)	User	Optional	Structure of central portion of breast	
231	51757004	Desmoplastic melanoma, malignant (morphologic abnormality)	User	Optional	Desmoplastic melanoma, malignant	
232	54452005	pNX category (finding)	User	Optional	Specimen from skin obtained by re-excision	
233	55320002	Superficial spreading melanoma (morphologic abnormality)	User	Optional	Superficial spreading melanoma	
234	56484001	Adenocarcinoma with cartilaginous and osseous metaplasia (morphologic abnormality)	User	Optional	Mucosal lentiginous melanoma	
235	59367005	Adenosquamous carcinoma (morphologic abnormality)	User	Optional	Adenosquamous carcinoma	
236	60815008	Grade not determined (finding)	User	Optional	Grade not determined	
237	64524002	Intraductal papillary adenocarcinoma with invasion (morphologic abnormality)	User	Optional	Intraductal papillary adenocarcinoma with invasion	
238	6510002	VX stage (finding)	User	Optional	VX stage	
239	67159000	Blue nevus, malignant (morphologic abnormality)	User	Optional	Blue nevus, malignant	
240	68358000	Adenocarcinoma with spindle cell metaplasia (morphologic abnormality)	User	Optional		
241	68453008	Carcinoma, no subtype (morphologic abnormality)	User	Optional	Carcinoma, no subtype	
242	68956006	Carcinoma in situ, no ICD-O subtype (morphologic abnormality)	User	Optional	Carcinoma in situ, no ICD-O subtype	
243	72495009	Mucinous adenocarcinoma (morphologic abnormality)	User	Optional	Mucinous adenocarcinoma	
244	73056007	Right breast structure (body structure)	User	Optional	Right breast structure	
245	74139005	L1 stage (finding)	User	Optional	L1 stage	
246	74364000	Small cell carcinoma (morphologic abnormality)	User	Optional	Small cell carcinoma	
247	75931002	Malignant melanoma in giant pigmented nevus (morphologic abnormality)	User	Optional	pTis: Ductal carcinoma in situ	
248	76365002	Structure of upper outer quadrant of breast (body structure)	User	Optional	Structure of upper outer quadrant of breast	
249	76752008	Breast structure (body structure)	User	Optional	Breast structure	
250	77284006	Lobular carcinoma in situ (morphologic abnormality)	User	Optional	Lobular carcinoma in situ	

Order	Code	Description	Source	Usage	Display Name	Instructions
251	77831004	Structure of upper inner quadrant of breast (body structure)	User	Optional	Structure of upper inner quadrant of breast	
252	80248007	Left breast structure (body structure)	User	Optional	Left breast structure	
253	82591005	Paget's disease and infiltrating duct carcinoma of breast (morphologic abnormality)	User	Optional	Paget's disease and infiltrating duct carcinoma of breast	
254	82711006	Infiltrating duct carcinoma (morphologic abnormality)	User	Optional	Infiltrating duct carcinoma	
255	856006	Actinic keratosis (morphologic abnormality)	User	Optional	Actinic keratosis	
256	86049000	Malignant neoplasm, primary (morphologic abnormality)	User	Optional	Malignant neoplasm, primary	
257	86616005	Intraductal carcinoma, noninfiltrating, no ICD-O subtype (morphologic abnormality)	User	Optional	Intraductal carcinoma, noninfiltrating, no ICD-O subtype	
258	87737001	Signet ring cell carcinoma (morphologic abnormality)	User	Optional	Signet ring cell carcinoma	
259	89740008	Lobular carcinoma (morphologic abnormality)	User	Optional	Lobular carcinoma	
260	9713002	Prostatitis (disorder)	User	Optional	Prostatitis	

99919 - All RPP2 Questions NM

Table HL7 ID: 99919 Name: All RPP2 Questions NM

Type: Local Coding System: Local General Code - 99zzz or L

Order	Code	Description	Source	Usage	Display Name	Instructions
1	371506001	Specimen weight (observable entity)	User	Optional	Specimen Weight	
2	372279008	Percentage of prostatic tissue involved by carcinoma (observable entity)	User	Optional	Number containing metastases identified microscopically	
3	372308003	Number of regional lymph nodes involved (observable entity	User	Optional	Number regional lymph nodes involved	
4	372309006	Number of regional lymph nodes examined (observable entity)	User	Optional	Number regional lymph nodes examined	
5	384626003	Specimen size, additional dimension (observable entity)	User	Optional	Specimen Size	
6	384627007	Specimen size, largest dimension (observable entity)	User	Optional	Specimen Size	
7	384631001	Tumor size, invasive component, greatest dimension (observable entity)	User	Optional	Size of invasive component Greatest dimension	
8	384632008	Tumor size, invasive component, additional dimension (observable entity)	User	Optional	Size of invasive component Additional dimensions	
9	384891002	Distance of malignant neoplasm from closest margin (observable entity)	User	Optional	Distance from closest uninvolved margin	
10	384997002	Total Gleason score (observable entity)	User	Optional	Total Gleason Score	
11	385398005	Tumor size, dominant nodule, greatest dimension (observable entity)	User	Optional	Greatest dimension	
12	385399002	Tumor size, dominant nodule, additional dimension (observable entity)	User	Optional	Additional dimensions	
13	385405004	Linear extent of involvement of carcinoma in specimen obtained by needle biopsy (observable entity)	User	Optional	Total linear millimeters of carcinoma	
14	396236002	Depth of invasion by tumor (observable entity)	User	Optional	DEPTH OF INVASION	
15	396361002	Lesion size, largest dimension (observable entity)	User	Optional	LESION SIZE (greatest dimension)	
16	396362009	Lesion size, additional dimension (observable entity)	User	Optional	LESION SIZE additional dimensions)	
17	396413008	Number of regional lymph nodes containing metastases identified macroscopically (observable entity)	User	Optional	Number containing metastases identified macroscopically	

Order	Code	Description	Source	Usage	Display Name	Instructions
18	396414002	Number of regional lymph nodes containing metastases identified microscopically (observable entity)	User	Optional	Number containing metastases identified microscopically	
19	396511007	Distance of in situ melanoma from closest lateral margin (observable entity)	User	Optional	Distance of melanoma in situ from closest margin	
20	396515003	Distance of malignant melanoma from closest lateral margin (observable entity)	User	Optional	Distance of invasive melanoma from closest lateral margin	
21	396518001	Distance of malignant melanoma from deep margin (observable entity)	User	Optional	Distance of invasive melanoma from deep margin	
22	399441008	Total number of tissue chips (observable entity)	User	Optional	Total number of tissue chips	
23	399482008	Total number of tissue cores (observable entity)	User	Optional	total number cores	
24	399496002	Distance of ductal carcinoma in situ from closest margin (observable entity)	User	Optional	Distance from closest uninvolved margin	
25	399589001	Number of tissue chips positive for carcinoma (observable entity)	User	Optional	Number of positive chips	
26	399598003	Length of core in specimen obtained by needle biopsy (observable entity)	User	Optional	length of core(s)	
27	399727003	Number of tissue cores positive for carcinoma (observable entity)	User	Optional	Number cores positive	
28	406094009	Number of mitoses per 10 high power fields (observable entity)	User	Optional	Mitotic Count (for those using other grading systems)	

99920 - All RPP2 Questions ST

Table HL7 ID: 99920 Name: All RPP2 Questions ST

Type: Local Coding System: Local General Code - 99zzz or L

Order	Code	Description	Source	Usage	Display Name	Instructions
1	371498006	Additional pathologic finding in tumor specimen (observable entity)	User	Optional		
2	384739005	Grading system used (observable entity)	User	Optional	Specify grading system	
3	385010008	Needle biopsy specimen tumor quantitation (observable entity	User	Optional		
4	385421009	Site of distant metastasis (observable entity)	User	Optional	DISTANT METASTASIS (pM)	
5	409770001	Narrative comments on pathology specimen (observable entity)	User	Optional	COMMENT(S)	
6	422796005	Location of melanoma in situ in specimen with uninvolved lateral margin (observable entity)	User	Optional		
7	422973004	Location of malignant melanoma in specimen with involved lateral margin (observable entity)	User	Optional	TUMOR QUANTITATION: Needle Biopsy Specimens, Other quantitation (specify):	
8	424082007	Location of melanoma in situ in specimen with involved lateral margin (observable entity)	User	Optional		
9	424696000	Location of malignant melanoma in specimen with uninvolved lateral margin (observable entity)	User	Optional		
10	424949006	Location of malignant melanoma in specimen with uninvolved deep margin (observable entity)	User	Optional		
11	425133002	Location of malignant melanoma in specimen with involved deep margin (observable entity)	User	Optional		

99937 - All RPP2 Questions CWE_LGCY

Table HL7 ID: 99937 Name: All RPP2 Questions CWE_LGCY

Type: Local Coding System: Local General Code - 99zzz or L

Order	Code	Description	Source	Usage	Display Name	Instructions
1	F-0052A	Depth of invasion by tumor (observable entity)	User	Optional	DEPTH OF INVASION	
2	F-005A2	Status of tumor infiltration by lymphocytes (observable entity)	User	Optional	TUMOR INFILTRATING LYMPHOCYTES	
3	F-005AC	Status of specimen involvement by matted nodes (observable entity)	User	Optional	Matted nodes	
4	F-005AF	Status of regression of tumor (observable entity)	User	Optional	TUMOR REGRESSION	
5	F-02A22	Lesion size (observable entity)	User	Optional	LESION SIZE	
6	F-02BDB	Tumor size, invasive component (observable entity)	User	Optional	Size of invasive component	
7	F-048CF	Status of microcalcifications in specimen (observable entity)	User	Optional	For a 25x objective with a field area of 0.274 mm2	
8	F-048D0	Specimen laterality (observable entity)	User	Optional	LATERALITY	
9	F-04932	Specimen margin involved by ductal carcinoma in situ (observable entity)	User	Optional	Margins involved by DCIS specify which margin	
10	F-04944	Type of lymph node submitted (observable entity)	User	Optional	LYMPH NODE SAMPLING	
11	F-04946	Status of tumor involvement by ulceration (observable entity)	User	Optional	ULCERATION	
12	F-0495D	Status of specimen involvement by satellite nodule(s) (observable entity)	User	Optional	SATELLITE NODULE(S)	
13	F-0495E	Tumor pigmentation (observable entity)	User	Optional	PIGMENTATION	
14	F-0497B	Status of specimen involvement by macroscopic tumor (observable entity)	User	Optional	MACROSCOPIC TUMOR	
15	F-E4060	Mitotic index (observable entity)	User	Optional	MITOTIC INDEX	
16	G-F7BB	Status of seminal vesicle invasion by tumor (observable entity)	User	Optional	SEMINAL VESICLE INVASION	
17	R-00254	Specimen type (observable entity)	User	Optional	Specimen Type	
18	R-00255	Specimen size (observable entity)	User	Optional	Specimen Size	
19	R-00257	Histologic type (observable entity)	User	Optional	Histologic Type	
20	R-00258	Histologic grade (observable entity)	User	Optional	Histologic Grade	
21	R-0025A	Tumor site (observable entity)	User	Optional	TUMOR SITE	

Order	Code	Description	Source	Usage	Display Name	Instructions
22	R-0025E	Additional pathologic finding in tumor specimen (observable entity)	User	Optional	ADDITIONAL PATHOLOGIC FINDINGS	
23	R-00261	Tubule formation score (observable entity)	User	Optional	Tubule formation	
24	R-00262	Nuclear pleomorphism score (observable entity)	User	Optional	Nuclear pleomorphism	
25	R-00264	Mitotic count score, 25x objective (observable entity)	User	Optional	For a 25x objective with a field area of 0.274 mm2	
26	R-00265	Mitotic count score, 40x objective (observable entity)	User	Optional	For a 40x objective with a field area of 0.152 mm2	
27	R-00269	DISTANT METASTASIS (pM) pM category (observable entity)	User	Optional	DISTANT METASTASIS (pM)	
28	R-0026B	pN category (observable entity)	User	Optional	REGIONAL LYMPH NODES (pN)	
29	R-0026D	Status of perineural invasion by tumor (observable entity)	User	Optional	PERINEURAL INVASION	
30	R-00270	Status of venous (large vessel) invasion by tumor (observable entity)	User	Optional	VENOUS (LARGE VESSEL) INVASION (V)	
31	R-00285	Status of periprostatic fat invasion by tumor (observable entity)	User	Optional	PERIPROSTATIC FAT INVASION	
32	R-00288	Nottingham Combined Grade (observable entity)	User	Optional	Total Nottingham Score (combined grade)	
33	R-00404	Status of lymphatic (small vessel) invasion by tumor (observable entity)	User	Optional	LYMPHATIC (SMALL VESSEL) INVASION (L)	
34	R-00415	pT category (observable entity)	User	Optional	PRIMARY TUMOR (pT)	
35	R-00424	Extent of surgical margin involvement by malignant neoplasm (observable entity)	User	Optional	Extent of Margin Involvement for Invasive Carcinoma	
36	R-0042C	Extent of surgical margin involvement by ductal carcinoma in situ (observable entity)	User	Optional	Extent of Margin Involvement by DCIS, other specify	
37	R-00469	Status of venous (large vessel)/lymphatic (small vessel) invasion by tumor (observable entity)	User	Optional	VENOUS/LYMPHATIC (LARGE/SMALL VESSEL) INVASION (V/L)	
38	R-00472	Status of surgical margin involvement by tumor (observable entity)	User	Optional	MARGINS	
39	R-00479	Status of surgical deep margin involvement by tumor (observable entity)	User	Optional	Deep Margin	
40	R-00485	Surgical margin site involved by malignant neoplasm (observable entity)	User	Optional	Margins involved by invasive carcinoma; specify which margin	
41	R-00496	Primary Gleason pattern (observable entity)	User	Optional	Primary Pattern	
42	R-00497	Secondary Gleason pattern (observable entity)	User	Optional	Secondary Pattern	
43	R-0049A	Tertiary Gleason pattern (observable entity)	User	Optional	Tertiary Pattern	

Order	Code	Description	Source	Usage	Display Name	Instructions
44	R-0049E	Status of extraprostatic extension of tumor (observable entity)	User	Optional	EXTRAPROSTATIC EXTENSION	
45	R-004A0	Transurethral prostatic resection specimen tumor quantitation (observable entity)	User	Optional	TUMOR QUANTITATION: TUR Specimens	
46	R-004EF	Surgical margin closest to malignant neoplasm (observable entity)	User	Optional	Invasive carcinomaClosest uninvolved margin; specify which margin	
47	R-0056C	Specimen margin closest to ductal carcinoma in situ (observable entity)	User	Optional	DCIS Closest uninvolved margin; specify which margin	
48	R-0058A	Status of surgical lateral margin involvement by tumor (observable entity)	User	Optional	Lateral Margins	

99938 - All RPP2 Answers CWE_LGCY

Table HL7 ID: 99938 Name: All RPP2 Answers CWE_LGCY

Type: Local Coding System: Local General Code - 99zzz or L

Order	Code	Description	Source	Usage	Display Name	Instructions
1	D7-51010	Prostatitis (disorder)	User	Optional	Prostatitis	
2	D7-F0479	Benign prostatic hyperplasia (disorder)	User	Optional	Benign prostatic hyperplasia	
3	F-004DF	Prostate tumor incidental histologic finding in 5% or less of tissue resected (finding)	User	Optional	Prostate tumor incidental histologic finding in 5% or less of tissue resected	
4	F-00586	Lesion size cannot be determined (finding)	User	Optional	Lesion size cannot be determined	
5	F-005A3	Tumor infiltration by lymphocytes absent (finding)	User	Optional	Tumor infiltration by lymphocytes absent	
6	F-005A4	Tumor infiltration by lymphocytes brisk (finding)	User	Optional	Tumor infiltration by lymphocytes brisk	
7	F-005A5	Tumor infiltration by lymphocytes non-brisk (finding)	User	Optional	Tumor infiltration by lymphocytes non-brisk	
8	F-005AA	Specimen involvement by macroscopic tumor present (finding)	User	Optional	Specimen involvement by macroscopic tumor present	
9	F-005AB	Specimen involvement by macroscopic tumor indeterminate (finding)	User	Optional	Specimen involvement by macroscopic tumor indeterminate	
10	F-005AD	Specimen involvement by matted nodes present (finding)	User	Optional	Specimen involvement by matted nodes present	
11	F-005B0	Regression of tumor absent (finding)	User	Optional	Regression of tumor absent	
12	F-005B1	Regression involving 75% or more of tumor, present (finding)	User	Optional	Regression involving 75% or more of tumor, present	
13	F-005B2	Regression involving less than 75% of tumor, present (finding)	User	Optional	Regression involving less than 75% of tumor, present	
14	F-005C1	Tumor size, invasive component, cannot be determined (finding)	User	Optional	Tumor size, invasive component, cannot be determined	
15	F-005CD	Prostate tumor incidental histologic finding in more than 5% of tissue resected (finding)	User	Optional	Prostate tumor incidental histologic finding in more than 5% of tissue resected	
16	F-02B9B	Nottingham Combined Grade cannot be determined (finding)	User	Optional	Nottingham Combined Grade cannot be determined	
17	F-02B9C	Nuclear pleomorphism: small regular nuclei (score:1) (finding)	User	Optional	Nuclear pleomorphism: small regular nuclei (score:1)	
18	F-02B9E	Nuclear pleomorphism: moderate increase in size, etc (score:2) (finding)	User	Optional	Nuclear pleomorphism: moderate increase in size, etc (score:2)	

Order	Code	Description	Source	Usage	Display Name	Instructions
19	F-02B9F	Nuclear pleomorphism: marked variation in size, nucleoli, chromatin clumping, etc (score:3) (finding)	User	Optional	Nuclear pleomorphism: marked variation in size, nucleoli, chromatin clumping, etc (score:3)	
20	F-02BAF	Venous (large vessel)/lymphatic (small vessel) invasion by tumor absent (finding)	User	Optional	Venous (large vessel)/lymphatic (small vessel) invasion by tumor absent	
21	F-02BB0	Venous (large vessel)/lymphatic (small vessel) invasion by tumor indeterminate (finding)	User	Optional	Venous (large vessel)/lymphatic (small vessel) invasion by tumor indeterminate	
22	F-02BB1	No additional pathologic finding in tumor specimen (finding)	User	Optional	No additional pathologic finding in tumor specimen	
23	F-02BDD	Periprostatic fat invasion by tumor not identified (finding)	User	Optional	Periprostatic fat invasion by tumor not identified	
24	F-02BDE	Seminal vesicle invasion by tumor not identified (finding)	User	Optional	Seminal vesicle invasion by tumor not identified	
25	F-02BDF	Perineural invasion by tumor not identified (finding)	User	Optional	Perineural invasion by tumor not identified	
26	F-02BE1	Extraprostatic extension of tumor indeterminate (finding)	User	Optional	Extraprostatic extension of tumor indeterminate	
27	F-02C05	Depth of invasion by tumor cannot be determined (finding)	User	Optional	Depth of invasion by tumor cannot be determined	
28	F-0369D	Perineural invasion by tumor indeterminate (finding)	User	Optional	Perineural invasion by tumor indeterminate	
29	F-036AF	Less than 1 mitotic figure per mm2 (finding)	User	Optional	Less than 1 mitotic figure per mm2	
30	F-036B0	1 or more mitotic figure per mm2 (finding)	User	Optional	1 or more mitotic figure per mm2	
31	F-3A049	Venous (large vessel)/lymphatic (small vessel) invasion by tumor present (finding)	User	Optional	Venous (large vessel)/lymphatic (small vessel) invasion by tumor present	
32	G-8110	Skin (tissue) specimen (specimen)	User	Optional	Skin	
33	G-81F4	Lymph node from sentinel lymph node dissection and axillary dissection (specimen)	User	Optional	Lymph node from sentinel lymph node dissection and axillary dissection	
34	G-81FD	Specimen from skin obtained by elliptical excision (specimen)	User	Optional	Specimen from skin obtained by elliptical excision	
35	G-81FE	Specimen from skin obtained by wide excision (specimen)	User	Optional	Specimen from skin obtained by wide excision	
36	G-81FF	Specimen from skin obtained by excision (specimen) (specify): ____ not coded	User	Optional	Specimen from skin obtained by excision	
37	G-8201	Specimen from skin obtained by re-excision (specimen) (specify): ____ not coded	User	Optional	Specimen from skin obtained by re-excision	
38	G-8202	Specimen from skin obtained by elliptical re-excision (specimen)	User	Optional	Specimen from skin obtained by elliptical re-excision	

Order	Code	Description	Source	Usage	Display Name	Instructions
39	G-8203	Specimen from skin obtained by wide re-excision (specimen)	User	Optional	Specimen from skin obtained by wide re-excision	
40	G-8204	Lymph node from regional lymph node dissection (specimen) (specify)	User	Optional	Lymph node from regional lymph node dissection	
41	G-8310	Tissue specimen from breast (specimen)	User	Optional	Tissue specimen from breast	
42	G-8312	Specimen from breast obtained by complete excision of lesion, less than total mastectomy (specimen)	User	Optional	Specimen from breast obtained by complete excision of lesion, less than total mastectomy	
43	G-833A	Mastectomy sample (specimen)	User	Optional	Mastectomy sample	
44	G-83D5	Specimen from prostate obtained by enucleation (specimen)	User	Optional	Specimen from prostate obtained by enucleation	
45	G-8407	Specimen from prostate obtained by needle biopsy (specimen)	User	Optional	Specimen from prostate obtained by needle biopsy	
46	G-8408	Specimen from prostate obtained by transurethral resection (specimen)	User	Optional	Specimen from prostate obtained by transurethral resection	
47	G-852E	Tissue specimen from prostate (specimen)	User	Optional	Tissue specimen from prostate	
48	G-8DA8	Surgical margin involved by malignant neoplasm (finding)	User	Optional	Surgical margin involved by malignant neoplasm	
49	G-8DA9	Surgical margin involved by malignant neoplasm, multifocal (finding)	User	Optional	Surgical margin involved by malignant neoplasm, multifocal	
50	G-8DAE	Surgical apical margin involved by malignant neoplasm (finding)	User	Optional	Surgical apical margin involved by malignant neoplasm	
51	G-8DAF	Surgical lateral margin involved by malignant neoplasm (finding)	User	Optional	Surgical lateral margin involved by malignant neoplasm	
52	G-8DB0	Surgical bladder neck margin involved by malignant neoplasm (finding)	User	Optional	Surgical bladder neck margin involved by malignant neoplasm	
53	G-8DC8	Surgical medial margin involved by malignant neoplasm (finding)	User	Optional	Surgical medial margin involved by malignant neoplasm	
54	G-8DC9	Surgical inferior margin involved by malignant neoplasm (finding)	User	Optional	Surgical inferior margin involved by malignant neoplasm	
55	G-8DCA	Surgical superior margin involved by malignant neoplasm (finding)	User	Optional	Surgical superior margin involved by malignant neoplasm	
56	G-F182	pT0 category (finding)	User	Optional	pT0 category	
57	G-F187	pTX category (finding)	User	Optional	pTX category	
58	G-F190	pN0 category (finding)	User	Optional	pN0 category	
59	G-F191	pN1 category (finding)	User	Optional	pN1 category	
60	G-F195	pNX category (finding)	User	Optional	pNX category	

Order	Code	Description	Source	Usage	Display Name	Instructions
61	G-F1B8	pT2b: Unilateral, involving more than one-half of lobe but not both lobes (prostate) (finding)	User	Optional	pT2b: Unilateral, involving more than one-half of lobe but not both lobes	
62	G-F1BA	pT3b: Seminal vesicle invasion (prostate) (finding)	User	Optional	pT3b: Seminal vesicle invasion	
63	G-F1BB	pT4: Invasion of bladder AND/OR rectum (prostate) (finding)	User	Optional	pT4: Invasion of bladder AND/OR rectum	
64	G-F201	pM1 stage (finding)	User	Optional	pM1 stage	
65	G-F202	pM1b: Distant metastasis to bone(s) (prostate) (finding)	User	Optional	pM1b: Distant metastasis to bon	
66	G-F205	pMX stage (finding)	User	Optional	pMX stage	
67	G-F220	L0 stage (finding)	User	Optional	L0 stage	
68	G-F221	L1 stage (finding)	User	Optional	L1 stage	
69	G-F225	LX stage (finding)	User	Optional	LX stage	
70	G-F230	V0 stage (finding)	User	Optional	V0 stage	
71	G-F235	VX stage (finding)	User	Optional	VX stage	
72	G-F285	pTis: Melanoma in situ (melanoma of the skin) (finding)	User	Optional	pTis: Melanoma in situ	
73	G-F287	pT1a: Melanoma 1.0 mm or less in thickness and level II or III, no ulceration (melanoma of the skin) (finding)	User	Optional	pT1a: Melanoma 1.0 mm or less in thickness and level II or III, no ulceration	
74	G-F288	pT1b: Melanoma 1.0 mm or less in thickness and level IV or V or with ulceration (melanoma of the skin) (finding)	User	Optional	pT1b: Melanoma 1.0 mm or less in thickness and level IV or V or with ulceration	
75	G-F28A	pT2a: Melanoma 1.01 to 2.0 mm in thickness, no ulceration (melanoma of the skin) (finding)	User	Optional	pT2a: Melanoma 1.01 to 2.0 mm in thickness, no ulceration	
76	G-F28B	pT2b: Melanoma 1.01 to 2.0 mm in thickness, with ulceration (melanoma of the skin) (finding)	User	Optional	pT2b: Melanoma 1.01 to 2.0 mm in thickness, with ulceration	
77	G-F28D	pT3a: Melanoma 2.01 to 4.0 mm in thickness, no ulceration (melanoma of the skin) (finding)	User	Optional	pT3a: Melanoma 2.01 to 4.0 mm in thickness, no ulceration	
78	G-F28E	pT3b: Melanoma 2.01 to 4.0 mm in thickness, with ulceration (melanoma of the skin) (finding)	User	Optional	pT3b: Melanoma 2.01 to 4.0 mm in thickness, with ulceration	
79	G-F290	pT4a: Melanoma greater than 4.0 mm in thickness, no ulceration (melanoma of the skin) (finding)	User	Optional	pT4a: Melanoma greater than 4.0 mm in thickness, no ulceration	
80	G-F291	pT4b: Melanoma greater than 4.0 mm in thickness, with ulceration (melanoma of the skin) (finding)	User	Optional	pT4b: Melanoma greater than 4.0 mm in thickness, with ulceration	
81	G-F293	pN1a: Clinically occult (microscopic) metastasis (melanoma of the skin) (finding)	User	Optional	pN1a: Clinically occult	

Order	Code	Description	Source	Usage	Display Name	Instructions
82	G-F294	pN1b: Clinically apparent (macroscopic) metastasis (melanoma of the skin) (finding)	User	Optional	pN1b: Clinically apparent	
83	G-F296	pN2a: Clinically occult (microscopic) metastasis (melanoma of the skin) (finding)	User	Optional	pN2a: Clinically occult	
84	G-F297	pN2b: Clinically apparent (macroscopic) metastasis (melanoma of the skin) (finding)	User	Optional	pN2b: Clinically apparent	
85	G-F298	pN2c: Satellite or in-transit metastasis without nodal metastasis (melanoma of the skin) (finding)	User	Optional	pN2c: Satellite or in-transit metastasis without nodal metastasis	
86	G-F299	pN3: Metastasis in four or more regional nodes, or matted metastatic nodes, or in-transit metastasis or satellite(s) with metastasis in regional node(s) (melanoma of the skin) (finding)	User	Optional	pN3: Metastasis in four or more regional nodes, or matted metastatic nodes, or in-transit metastasis	
87	G-F29A	pM1a: Metastasis to skin, subcutaneous tissues, or distant lymph nodes (melanoma of the skin) (finding)	User	Optional	pM1a: Metastasis to skin, subcutaneous tissues, or distant lymph nodes	
88	G-F29B	pM1b: Metastasis to lung (melanoma of the skin) (finding)	User	Optional	pM1b: Metastasis to lung	
89	G-F29C	pM1c: Metastasis to visceral site other than lung or distant metastasis at any site associated with an elevated serum lactic dehydrogenase (LDH) (melanoma of the skin) (finding)	User	Optional	pM1c: Metastasis to visceral site other than lung or distant metastasis at any site associated with	
90	G-F505	Grade not determined (finding)	User	Optional	Grade not determined	
91	G-F538	Perineural invasion by tumor present (finding)	User	Optional	Perineural invasion by tumor present	
92	G-F539	Venous (large vessel) invasion by tumor present (finding)	User	Optional	Venous	
93	G-F57D	Ulcerated tumor configuration (finding)	User	Optional	Ulcerated tumor configuration	
94	G-F584	Unpigmented tumor (finding)	User	Optional	Unpigmented tumor	
95	G-F588	Tumor pigmentation, diffuse (finding)	User	Optional	Tumor pigmentation, diffuse	
96	G-F589	Tumor pigmentation, patchy/focal (finding)	User	Optional	Tumor pigmentation, patchy/focal	
97	G-F58A	Tumor pigmentation indeterminate (finding)	User	Optional	Tumor pigmentation indeterminate	
98	G-F58B	Tumor pigmentation cannot be determined (finding)	User	Optional	Tumor pigmentation cannot be determined	
99	G-F58C	Tumor ulceration absent (finding)	User	Optional	Tumor ulceration absent	
100	G-F601	Gleason Pattern 1 (finding)	User	Optional	Gleason Pattern 1	
101	G-F602	Gleason Pattern 2 (finding)	User	Optional	Gleason Pattern 2	
102	G-F603	Gleason Pattern 3 (finding)	User	Optional	Gleason Pattern 3	
103	G-F604	Gleason Pattern 4 (finding)	User	Optional	Gleason Pattern 4	
104	G-F605	Gleason Pattern 5 (finding)	User	Optional	Gleason Pattern 5	

Order	Code	Description	Source	Usage	Display Name	Instructions
105	G-F60A	Breast tubule formation: Majority of tumor >75% (score:1) (finding)	User	Optional	Breast tubule formation: Majority of tumor >75% (score:1)	
106	G-F60B	Breast tubule formation: Moderate 10% to 75% (score:2) (finding)	User	Optional	Breast tubule formation: Moderate 10% to 75% (score:2)	
107	G-F60C	Breast tubule formation: Minimal <10% (score:3) (finding	User	Optional	Breast tubule formation: Minimal <10% (score:3)	
108	G-F610	Less than 10 mitoses per 10 HPF (score:1) (finding)	User	Optional	Less than 10 mitoses per 10 HPF (score:1)	
109	G-F611	10-20 mitoses per 10 HPF (score:2) (finding)	User	Optional	10-20 mitoses per 10 HPF (score:2)	
110	G-F612	Greater than 20 mitoses per 10 HPF (score:3) (finding)	User	Optional	Greater than 20 mitoses per 10 HPF (score:3)	
111	G-F613	0-5 mitoses per 10 HPF (score:1) (finding)	User	Optional	0-5 mitoses per 10 HPF (score:1)	
112	G-F614	6-10 mitoses per 10 HPF (score:2) (finding)	User	Optional	6-10 mitoses per 10 HPF (score:2)	
113	G-F615	Greater than 10 mitoses per 10 HPF (score:3) (finding)	User	Optional	Greater than 10 mitoses per 10 HPF (score:3)	
114	G-F616	Nottingham Combined Grade I: 3-5 points (finding)	User	Optional	Nottingham Combined Grade I: 3-5 points	
115	G-F617	Nottingham Combined Grade II: 6-7 points (finding)	User	Optional	Nottingham Combined Grade II: 6-7 points	
116	G-F618	Nottingham Combined Grade III: 8-9 points (finding)	User	Optional	Nottingham Combined Grade III: 8-9 points	
117	G-F7A3	Perineural invasion by tumor absent (finding)	User	Optional	Perineural invasion by tumor absent	
118	M-091AE	Microcalcifications not identified in specimen (finding)	User	Optional	Microcalcifications not identified in specimen	
119	M-091B0	Specimen laterality not specified (finding)	User	Optional	Specimen laterality not specified	
120	M-091C5	Specimen involvement by macroscopic tumor absent (finding)	User	Optional	Specimen involvement by macroscopic tumor absent	
121	M-091C6	Specimen involvement by satellite nodule(s) absent (finding)	User	Optional	Specimen involvement by satellite nodul	
122	M-091C7	Specimen involvement by satellite nodule(s) present (finding)	User	Optional	Specimen involvement by satellite nodul	
123	M-091C8	Specimen involvement by satellite nodule(s) cannot be determined (finding)	User	Optional	Specimen involvement by satellite nodul	
124	M-091C9	Specimen involvement by matted nodes absent (finding)	User	Optional	Specimen involvement by matted nodes absent	
125	M-091CA	Cannot be determined (see Comment) (finding)	User	Optional	Cannot be determined	
126	M-72425	Atypical glandular hyperplasia (morphologic abnormality)	User	Optional	Atypical glandular hyperplasia	
127	M-72850	Actinic keratosis (morphologic abnormality)	User	Optional	Actinic keratosis	

Order	Code	Description	Source	Usage	Display Name	Instructions
128	M-80003	Malignant neoplasm, primary (morphologic abnormality)	User	Optional	Malignant neoplasm, primary	
129	M-80102	Carcinoma in situ, no ICD-O subtype (morphologic abnormality)	User	Optional	Carcinoma in situ, no ICD-O subtype	
130	M-80103	Carcinoma, no subtype (morphologic abnormality)	User	Optional	Carcinoma, no subtype	
131	M-80203	Carcinoma, undifferentiated (morphologic abnormality)	User	Optional	Carcinoma, undifferentiated	
132	M-80333	Pseudosarcomatous carcinoma (morphologic abnormality)	User	Optional	Pseudosarcomatous carcinoma	
133	M-80413	Small cell carcinoma (morphologic abnormality)	User	Optional	Small cell carcinoma	
134	M-81403	Adenocarcinoma, no subtype (morphologic abnormality)	User	Optional	Adenocarcinoma, no subtype	
135	M-81482	Glandular intraepithelial neoplasia, grade III (morphologic abnormality)	User	Optional	Glandular intraepithelial neoplasia, grade III	
136	M-82003	Adenoid cystic carcinoma (morphologic abnormality)	User	Optional	Adenoid cystic carcinoma	
137	M-82013	Cribriform carcinoma (morphologic abnormality)	User	Optional	Periprostatic fat invasion by tumor not identified	
138	M-82113	Tubular adenocarcinoma (morphologic abnormality)	User	Optional	Tubular adenocarcinoma	
139	M-84803	Mucinous adenocarcinoma (morphologic abnormality)	User	Optional	Mucinous adenocarcinoma	
140	M-84903	Signet ring cell carcinoma (morphologic abnormality)	User	Optional	Signet ring cell carcinoma	
141	M-85002	Intraductal carcinoma, noninfiltrating, no ICD-O subtype (morphologic abnormality)	User	Optional	Intraductal carcinoma, noninfiltrating, no ICD-O subtype	
142	M-85003	Infiltrating duct carcinoma (morphologic abnormality)	User	Optional	Infiltrating duct carcinoma	
143	M-85023	Juvenile carcinoma of the breast (morphologic abnormality)	User	Optional	Juvenile carcinoma of the breast	
144	M-85033	Intraductal papillary adenocarcinoma with invasion (morphologic abnormality)	User	Optional	Intraductal papillary adenocarcinoma with invasion	
145	M-85103	Medullary carcinoma (morphologic abnormality)	User	Optional	Medullary carcinoma	
146	M-85202	Lobular carcinoma in situ (morphologic abnormality)	User	Optional	Lobular carcinoma in situ	
147	M-85203	Lobular carcinoma (morphologic abnormality)	User	Optional	Lobular carcinoma	
148	M-85403	Paget’s disease, mammary (morphologic abnormality)	User	Optional	Paget’s disease, mammary	

Order	Code	Description	Source	Usage	Display Name	Instructions
149	M-85413	Paget's disease and infiltrating duct carcinoma of breast (morphologic abnormality)	User	Optional	Paget's disease and infiltrating duct carcinoma of breast	
150	M-85603	Adenosquamous carcinoma (morphologic abnormality)	User	Optional	Adenosquamous carcinoma	
151	M-85703	Adenocarcinoma with squamous metaplasia (morphologic abnormality)	User	Optional	Lymph node from axillary dissection	
152	M-85713	Adenocarcinoma with cartilaginous and osseous metaplasia (morphologic abnormality)	User	Optional	pN3a: Metastasis in 10 or more axillary lymph nodes	
153	M-85723	Adenocarcinoma with spindle cell metaplasia (morphologic abnormality)	User	Optional	pN3b: Tumor of breast with metastasis as per AJCC 6th Edition definition	
154	M-85733	Adenocarcinoma with apocrine metaplasia (morphologic abnormality)	User	Optional	Adenocarcinoma with apocrine metaplasia	
155	M-87203	Malignant melanoma, no ICD-O subtype (morphologic abnormality)	User	Optional	Malignant melanoma, no ICD-O subtype	
156	M-87213	Nodular melanoma (morphologic abnormality)	User	Optional	Nodular melanoma	
157	M-87423	Malignant melanoma in Hutchinson's melanotic freckle (morphologic abnormality)	User	Optional	Malignant melanoma in Hutchinson's melanotic freckle	
158	M-87433	Superficial spreading melanoma (morphologic abnormality)	User	Optional	Superficial spreading melanoma	
159	M-87443	Acral lentiginous melanoma, malignant (morphologic abnormality)	User	Optional	Acral lentiginous melanoma, malignant	
160	M-87453	Desmoplastic melanoma, malignant (morphologic abnormality)	User	Optional	Desmoplastic melanoma, malignant	
161	M-87463	Mucosal lentiginous melanoma (morphologic abnormality)	User	Optional	Mucosal lentiginous melanoma	
162	M-87613	Malignant melanoma in giant pigmented nevus (morphologic abnormality)	User	Optional	Malignant melanoma in giant pigmented nevus	
163	M-87803	Blue nevus, malignant (morphologic abnormality)	User	Optional	Blue nevus, malignant	
164	R-000C4	Adenocarcinoma with metaplasia (morphologic abnormality)	User	Optional	pN2b: Metastasis in clinically apparent internal mammary lymph nodes in the absence of axillary lymp	
165	R-0027E	Extraprostatic extension of tumor absent (finding)	User	Optional	Extraprostatic extension of tumor absent	
166	R-0027F	Extraprostatic extension of tumor present (finding)	User	Optional		
167	R-0028F	Seminal vesicle invasion by tumor absent (finding)	User	Optional	Seminal vesicle invasion by tumor absent	
168	R-00291	Periprostatic fat invasion by tumor present (finding)	User	Optional	Periprostatic fat invasion by tumor present	
169	R-00292	Seminal vesicle invasion by tumor present (finding)	User	Optional	Seminal vesicle invasion by tumor present	

Order	Code	Description	Source	Usage	Display Name	Instructions
170	R-003AE	No lymph node submitted (finding)	User	Optional	No lymph node submitted	
171	R-003AF	Lymph node from sentinel lymph node dissection (specimen)	User	Optional	Lymph node from sentinel lymph node dissection	
172	R-003B0	Lymph node from axillary dissection (specimen)	User	Optional	Lymph node from axillary dissection	
173	R-003BC	pTis: Ductal carcinoma in situ (breast) (finding)	User	Optional	pTis: Ductal carcinoma in situ	
174	R-003BD	pTis: Lobular carcinoma in situ (breast) (finding)	User	Optional	pTis: Lobular carcinoma in situ	
175	R-003BE	pTis: Paget disease without invasive carcinoma (breast) (finding)	User	Optional	pTis: Paget disease without invasive carcinoma	
176	R-003BF	pT1mic: Microinvasion 0.1 cm or less in greatest dimension (breast) (finding)	User	Optional	pT1mic: Microinvasion 0.1 cm or less in greatest dimension	
177	R-003C0	pT1a: Tumor more than 0.1 cm but not more than 0.5 cm in greatest dimension (breast) (finding)	User	Optional	pT1a: Tumor more than 0.1 cm but not more than 0.5 cm in greatest dimension	
178	R-003C1	pT1b: Tumor more than 0.5 cm but not more than 1 cm in greatest dimension (breast) (finding)	User	Optional	pT1b: Tumor more than 0.5 cm but not more than 1 cm in greatest dimension	
179	R-003C2	pT1c: Tumor more than 1 cm but not more than 2 cm in greatest dimension (breast) (finding)	User	Optional	pT1c: Tumor more than 1 cm but not more than 2 cm in greatest dimension	
180	R-003C3	pT2: Tumor more than 2 cm but not more than 5 cm in greatest dimension (breast) (finding)	User	Optional	pT2: Tumor more than 2 cm but not more than 5 cm in greatest dimension	
181	R-003C4	pT3: Tumor more than 5 cm in greatest dimension (breast) (finding)	User	Optional	pT3: Tumor more than 5 cm in greatest dimension	
182	R-003C6	pT4a: Tumor of any size with extension to chest wall, not including pectoralis muscle (breast) (finding)	User	Optional	pT4a: Tumor of any size with extension to chest wall, not including pectoralis muscle	
183	R-003C7	pT4b: Tumor of any size with edema (including peau d’orange) or ulceration of the skin of the breast or satellite skin nodules confined to the same breast (breast) (finding)	User	Optional	pT4b: Tumor of any size with edema (including peau d’orange) or ulceration of the skin of the breast	
184	R-003C8	pT4c: Tumor of any size with direct extension to chest wall (not including pectoralis muscle) and edema (including peau d’orange) or ulceration of the skin of the breast or satellite skin nodules confined to the same breast (finding)	User	Optional	pT4c: Tumor of any size with direct extension to chest wall (not including pectoralis muscle) and ed	
185	R-003C9	pT4d: Inflammatory carcinoma (breast) (finding)	User	Optional	pT4d: Inflammatory carcinoma	

Order	Code	Description	Source	Usage	Display Name	Instructions
186	R-003CB	pN0: No regional lymph node metastasis histologically (i.e., none greater than 0.2 mm), no additional examination for isolated tumor cells (breast) (finding)	User	Optional	pN0: No regional lymph node metastasis histologically, no additional examination for isolated tumor	
187	R-003D0	pN1: Metastasis in 1 to 3 axillary lymph nodes, and/or in internal mammary nodes with microscopic disease detected by sentinel lymph node dissection but not clinically apparent (breast) (finding)	User	Optional	pN1: Metastasis in 1 to 3 axillary lymph nodes	
188	R-003D1	pN1mi: Micrometastasis (greater than 0.2 mm, none greater than 2.0 mm) (breast) (finding)	User	Optional	pN1mi: Micrometastasis	
189	R-003D3	pN1a: Metastasis in 1 to 3 axillary lymph nodes (at least one tumor deposit greater than 2.0 mm) (breast) (finding)	User	Optional	pN1a: Metastasis in 1 to 3 axillary lymph nodes	
190	R-003D4	pN1b: Metastasis in internal mammary lymph nodes with microscopic disease detected by sentinel lymph node dissection but not clinically apparent (breast) (finding)	User	Optional	pN1b: Metastasis in internal mammary lymph nodes with microscopic disease detected by sentinel lymph	
191	R-003D5	pN1c: Metastasis in 1 to 3 axillary lymph nodes and in internal mammary lymph nodes with microscopic disease detected by sentinel lymph node dissection but not clinically apparent (breast) (finding)	User	Optional	pN1c: Metastasis in 1 to 3 axillary lymph nodes and in internal mammary lymph nodes with microscopic	
192	R-003D7	pN2a: Metastasis in 4 to 9 axillary lymph nodes (at least one tumor deposit greater than 2.0 mm) (breast) (finding)	User	Optional	pN2a: Metastasis in 4 to 9 axillary lymph nodes	
193	R-003D8	pN2b: Metastasis in clinically apparent internal mammary lymph nodes in the absence of axillary lymph node metastasis (breast) (finding)	User	Optional	pN2b: Metastasis in clinically apparent internal mammary lymph nodes in the absence of axillary lymp	
194	R-003D9	pN3a: Metastasis in 10 or more axillary lymph nodes (at least one tumor deposit greater than 2.0 mm), or metastasis to infraclavicular lymph nodes (breast) (finding)	User	Optional	pN3a: Metastasis in 10 or more axillary lymph nodes	
195	R-003DA	pN3b: Tumor of breast with metastasis as per AJCC 6th Edition definition (breast) (finding)	User	Optional	pN3b: Tumor of breast with metastasis as per AJCC 6th Edition definition	
196	R-003DB	pN3c: Metastasis in ipsilateral supraclavicular lymph nodes (breast) (finding)	User	Optional	pN3c: Metastasis in ipsilateral supraclavicular lymph nodes	
197	R-003E6	Invasive ductal carcinoma with an extensive intraductal component (morphologic abnormality)	User	Optional	Invasive ductal carcinoma with an extensive intraductal component	

Order	Code	Description	Source	Usage	Display Name	Instructions
198	R-0041F	Microcalcifications in non-neoplastic tissue present (finding)	User	Optional	Microcalcifications in non-neoplastic tissue present	
199	R-00420	Microcalcifications in tumor and non-neoplastic tissue present (finding)	User	Optional	Microcalcifications in tumor and non-neoplastic tissue present	
200	R-00421	Surgical margin uninvolved by ductal carcinoma in situ (finding)	User	Optional	Surgical margin uninvolved by ductal carcinoma in situ	
201	R-00422	Surgical margin involved by ductal carcinoma in situ (finding)	User	Optional	Surgical margin involved by ductal carcinoma in situ	
202	R-00423	Surgical margin uninvolved by malignant neoplasm (finding)	User	Optional	Surgical margin uninvolved by malignant neoplasm	
203	R-00425	Surgical margin involved by malignant neoplasm, unifocal (finding)	User	Optional	Surgical margin involved by malignant neoplasm, unifocal	
204	R-00426	Surgical margin involved by malignant neoplasm, extensive (finding)	User	Optional	Surgical margin involved by malignant neoplasm, extensive	
205	R-00428	Surgical margin involved by ductal carcinoma in situ, unifocal (finding)	User	Optional		
206	R-00429	Surgical margin involved by ductal carcinoma in situ, multifocal (finding)	User	Optional		
207	R-0042B	Surgical margin involved by ductal carcinoma in situ, extensive (finding)	User	Optional		
208	R-0042E	Seminal vesicle absent in tumor specimen (finding)	User	Optional	Seminal vesicle absent in tumor specimen	
209	R-0042F	Microcalcifications present in malignant neoplasm (finding)	User	Optional	Microcalcifications present in malignant neoplasm	
210	R-00430	Microcalcifications present in ductal carcinoma in situ (finding)	User	Optional	Microcalcifications present in ductal carcinoma in situ	
211	R-00436	Grade cannot be determined (finding)	User	Optional	Grade cannot be determined	
212	R-00474	Surgical margin involvement by tumor cannot be assessed (finding)	User	Optional	Surgical margin involvement by tumor cannot be assessed	
213	R-0047A	Surgical deep margin involved by malignant neoplasm (finding)	User	Optional	Surgical deep margin involved by malignant neoplasm	
214	R-00493	pT2a: Unilateral, one-half of one lobe or less (prostate) (finding)	User	Optional	pT2a: Unilateral, one-half of one lobe or less	
215	R-00494	pT2c: Bilateral disease (prostate) (finding)	User	Optional	pT2c: Bilateral disease	
216	R-00495	pT3a: Extraprostatic extension (prostate) (finding)	User	Optional	pT3a: Extraprostatic extension	
217	R-0049B	Surgical anterior margin involved by malignant neoplasm (finding)	User	Optional	Surgical anterior margin involved by malignant neoplasm	

Order	Code	Description	Source	Usage	Display Name	Instructions
218	R-0049C	Surgical posterior margin involved by malignant neoplasm (finding)	User	Optional	Surgical posterior margin involved by malignant neoplasm	
219	R-0049D	Surgical posterolateral (neurovascular bundle) margin involved by malignant neoplasm (finding)	User	Optional	Surgical posterolateral	
220	R-004A3	Extraprostatic extension of tumor present, unifocal (finding)	User	Optional	Extraprostatic extension of tumor present, unifocal	
221	R-004A4	Extraprostatic extension of tumor present, multifocal (finding)	User	Optional	Extraprostatic extension of tumor present, multifocal	
222	R-004A9	pM1a: Distant metastasis to non-regional lymph node(s) (prostate) (finding)	User	Optional	pM1a: Distant metastasis to non-regional lymph nod	
223	R-004AA	pM1c: Distant metastasis site other than bone or non-regional lymph node(s) (prostate)	User	Optional	pM1c: Distant metastasis site other than bone or non-regional lymph nod	
224	R-004AB	Benign glands at surgical margin (finding)	User	Optional	Benign glands at surgical margin	
225	R-004BB	Surgical lateral margin involvement by melanoma cannot be assessed (finding)	User	Optional	Surgical lateral margin involvement by melanoma cannot be assessed	
226	R-004C2	Surgical deep margin involvement by melanoma cannot be assessed (finding)	User	Optional	Surgical deep margin involvement by melanoma cannot be assessed	
227	R-004EA	Extent of surgical margin involvement by malignant neoplasm cannot be assessed (finding)	User	Optional	Extent of surgical margin involvement by malignant neoplasm cannot be assessed	
228	R-00541	Extent of surgical margin involvement by ductal carcinoma in situ cannot be assessed (finding)	User	Optional		
229	R-00545	pT category not identified (finding)	User	Optional	pT category not identified	
230	R-00556	Surgical lateral margin uninvolved by in situ melanoma (finding)	User	Optional	Surgical lateral margin uninvolved by in situ melanoma	
231	R-00557	Surgical lateral margin involved by in situ melanoma (finding)	User	Optional	Surgical lateral margin involved by in situ melanoma	
232	R-0058D	Surgical lateral margin uninvolved by malignant melanoma (finding)	User	Optional	Surgical lateral margin uninvolved by malignant melanoma	
233	R-0058E	Surgical lateral margin involved by malignant melanoma (finding)	User	Optional	Surgical lateral margin involved by malignant melanoma	
234	R-00591	Surgical deep margin uninvolved by malignant melanoma (finding)	User	Optional	Surgical deep margin uninvolved by malignant melanoma	
235	R-00592	Surgical deep margin involved by malignant melanoma (finding)	User	Optional	Surgical deep margin involved by malignant melanoma	
236	R-005E2	Surgical superior margin is closest uninvolved margin to malignant neoplasm (finding)	User	Optional	Surgical superior margin is closest uninvolved margin to malignant neoplasm	

Order	Code	Description	Source	Usage	Display Name	Instructions
237	R-005E3	Surgical inferior margin is closest uninvolved margin to malignant neoplasm (finding)	User	Optional	Surgical inferior margin is closest uninvolved margin to malignant neoplasm	
238	R-005E4	Surgical medial margin is closest uninvolved margin to malignant neoplasm (finding)	User	Optional	Surgical medial margin is closest uninvolved margin to malignant neoplasm	
239	R-005E5	Surgical lateral margin is closest uninvolved margin to malignant neoplasm (finding)	User	Optional	Surgical lateral margin is closest uninvolved margin to malignant neoplasm	
240	R-005E6	Surgical deep margin is closest uninvolved margin to malignant neoplasm (finding)	User	Optional	Surgical deep margin is closest uninvolved margin to malignant neoplasm	
241	R-100AE	Neurotropic melanoma, malignant (morphologic abnormality)	User	Optional	Neurotropic melanoma, malignant	
242	R-100AF	Nevus remnant (morphologic abnormality)	User	Optional	Nevus remnant	
243	R-100B0	Minimal deviation melanoma (morphologic abnormality)	User	Optional	Minimal deviation melanoma	
244	R-10198	pN0(i-): No regional lymph node metastasis histologically, negative morphologic findings for isolated tumor cells (breast) (finding)	User	Optional	PN0(i-): No regional lymph node metastasis histologically, negative morphologic findings for isolate	
245	R-10199	pN0(i+): No regional lymph node metastasis histologically, positive morphologic findings for isolated tumor cells, no cluster greater than 0.2 mm (breast) (finding)	User	Optional	pN0(i+): No regional lymph node metastasis histologically, positive morphologic findings for isolate	
246	R-1019A	pN0(mol-): No regional lymph node metastasis histologically, negative nonmorphologic (molecular) findings for isolated tumor cells (breast) (finding)	User	Optional	pN0(mol-): No regional lymph node metastasis histologically, negative nonmorphologic (molecular) fin	
247	R-1019B	pN0(mol+): No regional lymph node metastasis histologically, positive nonmorphologic (molecular) findings for isolated tumor cells (breast) (finding)	User	Optional	pN0(mol+): No regional lymph node metastasis histologically, positive nonmorphologic (molecular) fin	
248	R-40981	Grade 2 (qualifier value)	User	Optional	Grade 2	
249	R-41E14	Grade 1 (qualifier value)	User	Optional	Grade 1	
250	R-41E15	Grade 3 (qualifier value)	User	Optional	Grade 3	
251	T-01000	Skin structure (body structure)	User	Optional	Skin structure	
252	T-04000	Breast structure (body structure)	User	Optional	Breast structure	
253	T-04001	Structure of central portion of breast (body structure)	User	Optional	Structure of central portion of breast	
254	T-04002	Structure of upper inner quadrant of breast (body structure)	User	Optional	Structure of upper inner quadrant of breast	
255	T-04003	Structure of lower inner quadrant of breast (body structure)	User	Optional	Structure of lower inner quadrant of breast	

Order	Code	Description	Source	Usage	Display Name	Instructions
256	T-04004	Structure of upper outer quadrant of breast (body structure)	User	Optional	Structure of upper outer quadrant of breast	
257	T-04005	Structure of lower outer quadrant of breast (body structure)	User	Optional	Structure of lower outer quadrant of breast	
258	T-04020	Right breast structure (body structure)	User	Optional	Right breast structure	
259	T-04030	Left breast structure (body structure)	User	Optional	Left breast structure	
260	T-92000	Prostatic structure (body structure)	User	Optional	Prostatic structure	

99939 - All RPP2 Questions NM_LGCY

Table HL7 ID: 99939 Name: All RPP2 Questions NM_LGCY

Type: Local Coding System: Local General Code - 99zzz or L

Order	Code	Description	Source	Usage	Display Name	Instructions
1	F-0052A	Depth of invasion by tumor (observable entity)	User	Optional	DEPTH OF INVASION	
2	F-02C74	Lesion size, largest dimension (observable entity)	User	Optional	LESION SIZE (greatest dimension)	
3	F-02C75	Lesion size, additional dimension (observable entity)	User	Optional	LESION SIZE additional dimensions)	
4	F-0493D	Total number of tissue chips (observable entity)	User	Optional	Total number of tissue chips	
5	F-0494D	Total number of tissue cores (observable entity)	User	Optional	total number cores	
6	F-04961	Number of regional lymph nodes containing metastases identified macroscopically (observable entity)	User	Optional	Number containing metastases identified macroscopically	
7	F-04962	Number of regional lymph nodes containing metastases identified microscopically (observable entity)	User	Optional	Number containing metastases identified microscopically	
8	F-04971	Number of tissue chips positive for carcinoma (observable entity)	User	Optional	Number of positive chips	
9	R-00256	Specimen weight (observable entity)	User	Optional	Specimen Weight	
10	R-00293	Percentage of prostatic tissue involved by carcinoma (observable entity)	User	Optional	Proportion (percent) of prostatic tissue involved by tumor	
11	R-002AA	Number of regional lymph nodes examined (observable entity)	User	Optional	Number regional lymph nodes examined	
12	R-002AB	Number of regional lymph nodes involved (observable entity	User	Optional	Number regional lymph nodes involved	
13	R-003ED	Tumor size, dominant nodule, greatest dimension (observable entity)	User	Optional	Greatest dimension	
14	R-003EE	Tumor size, dominant nodule, additional dimension (observable entity)	User	Optional	Additional dimensions	
15	R-003F3	Linear extent of involvement of carcinoma in specimen obtained by needle biopsy (observable entity)	User	Optional	Total linear millimeters of carcinoma	
16	R-00416	Specimen size, additional dimension (observable entity)	User	Optional	Specimen Size	
17	R-00417	Specimen size, largest dimension (observable entity)	User	Optional	Specimen Size	

Order	Code	Description	Source	Usage	Display Name	Instructions
18	R-00418	Tumor size, invasive component, greatest dimension (observable entity)	User	Optional	Size of invasive component Greatest dimension	
19	R-00419	Tumor size, invasive component, additional dimension (observable entity)	User	Optional	Size of invasive component Additional dimensions	
20	R-00481	Distance of malignant neoplasm from closest margin (observable entity)	User	Optional	Distance from closest uninvolved margin	
21	R-00499	Total Gleason score (observable entity)	User	Optional	Total Gleason Score	
22	R-004C1	Distance of ductal carcinoma in situ from closest margin (observable entity)	User	Optional	Distance from closest uninvolved margin	
23	R-0050C	Length of core in specimen obtained by needle biopsy (observable entity)	User	Optional	length of core(s)	
24	R-0058C	Distance of in situ melanoma from closest lateral margin (observable entity)	User	Optional	Distance of melanoma in situ from closest margin	
25	R-00590	Distance of malignant melanoma from closest lateral margin (observable entity)	User	Optional	Distance of invasive melanoma from closest lateral margin	
26	R-00593	Distance of malignant melanoma from deep margin (observable entity)	User	Optional	Distance of invasive melanoma from deep margin	
27	R-005A2	Number of tissue cores positive for carcinoma (observable entity)	User	Optional	Number cores positive	
28	R-1019F	Number of mitoses per 10 high power fields (observable entity)	User	Optional	Mitotic Count (for those using other grading systems)	

99940 - All RPP2 Questions ST_LGCY

Table HL7 ID: 99940 Name: All RPP2 Questions ST_LGCY

Type: Local Coding System: Local General Code - 99zzz or L

Order	Code	Description	Source	Usage	Display Name	Instructions
1	F-00654	Location of malignant melanoma in specimen with uninvolved lateral margin (observable entity)	User	Optional		
2	F-00655	Location of malignant melanoma in specimen with involved lateral margin (observable entity)	User	Optional		
3	F-00656	Location of melanoma in situ in specimen with uninvolved lateral margin (observable entity)	User	Optional		
4	F-00657	Location of melanoma in situ in specimen with involved lateral margin (observable entity)	User	Optional		
5	F-00658	Location of malignant melanoma in specimen with uninvolved deep margin (observable entity)	User	Optional		
6	F-00659	Location of malignant melanoma in specimen with involved deep margin (observable entity)	User	Optional		
7	F-048D1	Grading system used (observable entity)	User	Optional	Specify grading system	
8	R-0025E	Additional pathologic finding in tumor specimen (observable entity)	User	Optional	ADDITIONAL PATHOLOGIC FINDINGS, other specify	
9	R-0049F	Needle biopsy specimen tumor quantitation (observable entity	User	Optional	TUMOR QUANTITATION: Needle Biopsy Specimens, Other quantitation (specify):	
10	R-10063	Site of distant metastasis (observable entity)	User	Optional		
11	R-101EE	Narrative comments on pathology specimen (observable entity)	User	Optional	COMMENT(S)	

99941 - Checklist Identifier

Table HL7 ID: 99941 Name: Checklist Identifier

Type: Local Coding System: Local General Code - 99zzz or L

Order	Code	Description	Source	Usage	Display Name	Instructions
1	406030002	College of American Pathologists Cancer Checklist; Breast: Excision Less Than Total Mastectomy (Includes Wire-Guided Localization Excisions); Total Mastectomy, Modified Radical Mastectomy, Radical Mastectomy (record artifact)	User	Optional	Breast Checklist	
2	406058005	College of American Pathologists Cancer Checklist; Melanoma of the Skin: Excision; Re-Excision (record artifact)	User	Optional	Skin Melanoma Checklist	
3	406076003	College of American Pathologists Cancer Checklist; Prostate Gland: Needle Biopsy, Transurethral Prostatic Resection (TUR), Enucleation Specimen (record artifact)	User	Optional	Prostate Biopsy Checklist	
4	406077007	College of American Pathologists Cancer Checklist; Prostate Gland: Radical Prostatectomy (record artifact)	User	Optional	Prostatectomy Checklist	

99942 - Checklist Identifier_LGCY

Table HL7 ID: 99942 Name: Checklist Identifier_LGCY

Type: Local Coding System: Local General Code - 99zzz or L

Order	Code	Description	Source	Usage	Display Name	Instructions
1	R-10116	College of American Pathologists Cancer Checklist; Breast: Excision Less Than Total Mastectomy (Includes Wire-Guided Localization Excisions); Total Mastectomy, Modified Radical Mastectomy, Radical Mastectomy (record artifact)	User	Optional	Breast Checklist	
2	R-10139	College of American Pathologists Cancer Checklist; Melanoma of the Skin: Excision; Re-Excision (record artifact)	User	Optional	Skin Melanoma Checklist	
3	R-1014C	College of American Pathologists Cancer Checklist; Prostate Gland: Needle Biopsy, Transurethral Prostatic Resection (TUR), Enucleation Specimen (record artifact)	User	Optional	Prostate Biopsy Checklist	
4	R-1014D	College of American Pathologists Cancer Checklist; Prostate Gland: Radical Prostatectomy (record artifact)	User	Optional	Prostatectomy Checklist	

99958 - PROCEDURE CODE_LGCY

Table HL7 ID: 99958 Name: PROCEDURE CODE_LGCY

Type: USER Coding System: HL7 Defined Codes - HL7nnn

Order	Code	Description	Source	Usage	Display Name	Instructions
1	P1-40305	Excision of lesion of skin (procedure)	User	Optional	Skin excision/re-excision	MELANOMA OF THE SKIN: Excision Re-Excision
2	P1-78324	Radical prostatectomy (procedure)	User	Optional	Radical prostatectomy	PROSTATE GLAND: Radical Prostatectomy - Radical prostatectomy (procedure)

Data Type Definitions

Data Type and Components	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
	1		0	R	F	1	1					
AD	2	AD	24	R	F	1	1					
Description: address												
• street address	2.1	ST	3	O		0	1					
• other designation	2.2	ST	3	O		0	1					
• city	2.3	ST	3	O		0	1					
• state or province	2.4	ST	3	O		0	1					
• zip or postal code	2.5	ST	3	O		0	1					
• country	2.6	ID	3	O		0	1					
• address type	2.7	ID	3	O		0	1					
• other geographic designation	2.8	ST	3	O		0	1					
CD	3	CD	18	R	F	1	1					
Description: channel definition												
• channel identifier	3.1	**CM**	3	O		0	1					
• electrode names	3.2	**CM**	3	O		0	1					
• channel sensitivity/units	3.3	**CM**	3	O		0	1					
• calibration parameters	3.4	**CM**	3	O		0	1					
• sampling frequency	3.5	NM	3	O		0	1					
• minimum/maximum data values	3.6	**CM**	3	O		0	1					
CE	4	CE	18	R	F	1	1					
Description: coded element												
• identifier	4.1	ST	3	O		0	1					
• text	4.2	ST	3	O		0	1					
• name of coding system	4.3	ST	3	O		0	1					
• alternate identifier	4.4	ST	3	O		0	1					
• alternate text	4.5	ST	3	O		0	1					
• name of alternate coding system	4.6	ST	3	O		0	1					
CF	5	CF	18	R	F	1	1					
Description: coded element with formatted values												
• identifier	5.1	ST	3	O		0	1					
• formatted text	5.2	FT	3	O		0	1					
• name of coding system	5.3	ST	3	O		0	1					
• alternate identifier	5.4	ST	3	O		0	1					
• alternate formatted text	5.5	FT	3	O		0	1					

Data Type and Components	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
• name of alternate coding system	5.6	ST	3	O		0	1					
CK	6	CK	18	R	F	1	1					
Description: composite ID with check digit												
• ID number (NM)	6.1	NM	3	O		0	1					
• check digit	6.2	NM	3	O		0	1					
• code identifying the check digit scheme employed	6.3	ID	3	O		0	1					
• assigning authority	6.4	HD	9	O		0	1					
— namespace ID	6.4.1	IS	3	O		0	1	0300				
— universal ID	6.4.2	ST	3	O		0	1					
— universal ID type	6.4.3	ID	3	O		0	1	0301				
CM	7	**CM**	0	R	F	1	1					
Description: Composite data type												
CM_ABS_RANGE	8	CM_ABS_RANGE	12	R	F	1	1					
Description: absolute range												
• Range	8.1	**CM**	3	O		0	1					
• Numeric Change	8.2	NM	3	O		0	1					
• Percent per Change	8.3	NM	3	O		0	1					
• Days	8.4	NM	3	O		0	1					
CM_AUI	9	CM_AUI	32	R	F	1	1					
Description: authorization information												
• authorization number	9.1	ST	3	O		0	1					
• date	9.2	TS	26	O		0	1					
— Date/Time	9.2.1	NM	26	R		1	1					
Implementation Note: YYYYMMDD[HHHMM[SS[.SSSS]]][+-ZZZZ]												
— degree of precision	9.2.2	ST	1	B		0	0					
Implementation Note: Retained for backward compatibility only												
• source	9.3	ST	3	O		0	1					
CM_CCD	10	CM_CCD	29	R	F	1	1					
Description: charge time												
• when to charge code	10.1	ID	3	O		0	1					
• date/time	10.2	TS	26	O		0	1					
— Date/Time	10.2.1	NM	26	R		1	1					
Implementation Note: YYYYMMDD[HHHMM[SS[.SSSS]]][+-ZZZZ]												

Data Type and Components	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
— degree of precision	10.2.2	ST	1	B		0	0					
Implementation Note: Retained for backward compatibility only												
CM_CWE2	11	CM_CWE2	1392	R	F	1	1					
Description: Composite Two Coded Entries												
• Object Identifier	11.1	CWE	696	O		0	1					
— identifier	11.1.1	ST	20	O		0	1					
— text	11.1.2	ST	200	O		0	1					
— name of coding system	11.1.3	ST	8	O		0	1					
— alternate identifier	11.1.4	ST	20	O		0	1					
— alternate text	11.1.5	ST	200	O		0	1					
— name of alternate coding system	11.1.6	ST	8	O		0	1					
— coding system version ID	11.1.7	ST	20	O		0	1					
— alternate coding system version ID	11.1.8	ST	20	O		0	1					
— original text	11.1.9	ST	200	O		0	1					
• Object Version Identifier	11.2	CWE	696	O		0	1					
— identifier	11.2.1	ST	20	O		0	1					
— text	11.2.2	ST	200	O		0	1					
— name of coding system	11.2.3	ST	8	O		0	1					
— alternate identifier	11.2.4	ST	20	O		0	1					
— alternate text	11.2.5	ST	200	O		0	1					
— name of alternate coding system	11.2.6	ST	8	O		0	1					
— coding system version ID	11.2.7	ST	20	O		0	1					
— alternate coding system version ID	11.2.8	ST	20	O		0	1					
— original text	11.2.9	ST	200	O		0	1					
CM_DDI	12	CM_DDI	9	R	F	1	1					
Description: daily deductible												
• delay days	12.1	NM	3	O		0	1					
• amount	12.2	NM	3	O		0	1					
• number of days	12.3	NM	3	O		0	1					
CM_DIN	13	CM_DIN	44	R	F	1	1					
Description: activation date												
• date	13.1	TS	26	O		0	1					
— Date/Time	13.1.1	NM	26	R		1	1					
Implementation Note: YYYYMMDD[HHHMM[SS[.SSSS]]][+-ZZZZ]												
— degree of precision	13.1.2	ST	1	B		0	0					

Data Type and Components	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
Implementation Note: Retained for backward compatibility only												
• institution name	13.2	CE	18	O		0	1					
— identifier	13.2.1	ST	3	O		0	1					
— text	13.2.2	ST	3	O		0	1					
— name of coding system	13.2.3	ST	3	O		0	1					
— alternate identifier	13.2.4	ST	3	O		0	1					
— alternate text	13.2.5	ST	3	O		0	1					
— name of alternate coding system	13.2.6	ST	3	O		0	1					
CM_DLD	14	CM_DLD	29	R	F	1	1					
Description: discharge location												
• discharge location	14.1	ID	3	O		0	1					
• effective date	14.2	TS	26	O		0	1					
— Date/Time	14.2.1	NM	26	R		1	1					
Implementation Note: YYYYMMDD[HHHMM[SS[.SSSS]]][+-ZZZZ]												
— degree of precision	14.2.2	ST	1	B		0	0					
Implementation Note: Retained for backward compatibility only												
CM_DLT	15	CM_DLT	12	R	F	1	1					
Description: delta check												
• Range	15.1	**CM**	3	O		0	1					
• numeric threshold	15.2	NM	3	O		0	1					
• change	15.3	ST	3	O		0	1					
• length of time-days	15.4	NM	3	O		0	1					
CM_DTN	16	CM_DTN	6	R	F	1	1					
Description: Day Type and Number												
• day type	16.1	IS	3	O		0	1					
• number of days	16.2	NM	3	O		0	1					
CM_EIP	17	CM_EIP	24	R	F	1	1					
Description: parent order												
• parent's placer order number	17.1	EI	12	O		0	1					
— entity identifier	17.1.1	ST	3	O		0	1					
— namespace ID	17.1.2	IS	3	O		0	1	0300				
— universal ID	17.1.3	ST	3	O		0	1					
— universal ID type	17.1.4	ID	3	O		0	1	0301				
• parent's filler order number	17.2	EI	12	O		0	1					
— entity identifier	17.2.1	ST	3	O		0	1					
— namespace ID	17.2.2	IS	3	O		0	1	0300				

Data Type and Components	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
— universal ID	17.2.3	ST	3	O		0	1					
— universal ID type	17.2.4	ID	3	O		0	1	0301				
CM_ELD	18	CM_ELD	27	R	F	1	1					
Description: error												
• segment ID	18.1	ST	3	O		0	1					
• sequence	18.2	NM	3	O		0	1					
• field position	18.3	NM	3	O		0	1					
• code identifying error	18.4	CE	18	O		0	1					
— identifier	18.4.1	ST	3	O		0	1					
— text	18.4.2	ST	3	O		0	1					
— name of coding system	18.4.3	ST	3	O		0	1					
— alternate identifier	18.4.4	ST	3	O		0	1					
— alternate text	18.4.5	ST	3	O		0	1					
— name of alternate coding system	18.4.6	ST	3	O		0	1					
CM_FAM_NAME	19	CM_FAM_NAME	6	R	F	1	1					
Description: family + last name prefix												
• family name	19.1	ST	3	O		0	1					
• last name prefix	19.2	ST	3	O		0	1					
CM_LA1	20	CM_LA1	54	R	F	1	1					
Description: Location with address information (variant 1)												
• point of care (ST)	20.1	ST	3	O		0	1					
• room	20.2	IS	3	O		0	1					
• bed	20.3	IS	3	O		0	1					
• facility (HD)	20.4	HD	9	O		0	1					
— namespace ID	20.4.1	IS	3	O		0	1	0300				
— universal ID	20.4.2	ST	3	O		0	1					
— universal ID type	20.4.3	ID	3	O		0	1	0301				
• location status	20.5	IS	3	O		0	1					
• person location type	20.6	IS	3	O		0	1					
• building	20.7	IS	3	O		0	1					
• floor	20.8	IS	3	O		0	1					
• address	20.9	AD	24	O		0	1					
— street address	20.9.1	ST	3	O		0	1					
— other designation	20.9.2	ST	3	O		0	1					
— city	20.9.3	ST	3	O		0	1					
— state or province	20.9.4	ST	3	O		0	1					
— zip or postal code	20.9.5	ST	3	O		0	1					
— country	20.9.6	ID	3	O		0	1					
— address type	20.9.7	ID	3	O		0	1					
— other geographic designation	20.9.8	ST	3	O		0	1					

Data Type and Components	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
CM_LA2	21	CM_LA2	54	R	F	1	1					
Description: Location with address information (variant 2)												
• point of care (ST)	21.1	ST	3	O		0	1					
• room	21.2	IS	3	O		0	1					
• bed	21.3	IS	3	O		0	1					
• facility (HD)	21.4	HD	9	O		0	1					
— namespace ID	21.4.1	IS	3	O		0	1	0300				
— universal ID	21.4.2	ST	3	O		0	1					
— universal ID type	21.4.3	ID	3	O		0	1	0301				
• location status	21.5	IS	3	O		0	1					
• person location type	21.6	IS	3	O		0	1					
• building	21.7	IS	3	O		0	1					
• floor	21.8	IS	3	O		0	1					
• street address	21.9	ST	3	O		0	1					
• other designation	21.10	ST	3	O		0	1					
• city	21.11	ST	3	O		0	1					
• state or province	21.12	ST	3	O		0	1					
• zip or postal code	21.13	ST	3	O		0	1					
• country	21.14	ID	3	O		0	1					
• address type	21.15	ID	3	O		0	1					
• other geographic designation	21.16	ST	3	O		0	1					
CM_MOC	22	CM_MOC	24	R	F	1	1					
Description: Charge to Practice												
• dollar amount	22.1	MO	6	O		0	1					
— quantity	22.1.1	NM	3	O		0	1					
— denomination	22.1.2	ID	3	O		0	1					
• charge code	22.2	CE	18	O		0	1					
— identifier	22.2.1	ST	3	O		0	1					
— text	22.2.2	ST	3	O		0	1					
— name of coding system	22.2.3	ST	3	O		0	1					
— alternate identifier	22.2.4	ST	3	O		0	1					
— alternate text	22.2.5	ST	3	O		0	1					
— name of alternate coding system	22.2.6	ST	3	O		0	1					
CM_MSG	23	CM_MSG	15	R	F	1	1					
Description: Message Type												
• message type	23.1	ID	3	O		0	1	0076				
• trigger event	23.2	ID	3	O		0	1	0003				
• message structure	23.3	ID	7	O		0	1	0354				

Data Type and Components	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
CM_NDL	24	CM_NDL	115	R	F	1	1					
Description: observing practitioner												
• name	24.1	CN	33	O		0	1					
— ID number (ST)	24.1.1	ST	3	O		0	1					
— family name	24.1.2	ST	3	O		0	1					
— given name	24.1.3	ST	3	O		0	1					
— middle initial or name	24.1.4	ST	3	O		0	1					
— suffix (e.g., JR or III)	24.1.5	ST	3	O		0	1					
— prefix (e.g., DR)	24.1.6	ST	3	O		0	1					
— degree (e.g., MD)	24.1.7	IS	3	O		0	1					
— source table	24.1.8	IS	3	O		0	1					
— assigning authority	24.1.9	HD	9	O		0	1					
• start date/time	24.2	TS	26	O		0	1					
— Date/Time	24.2.1	NM	26	R		1	1					
Implementation Note: YYYYMMDD[HHHMM[SS[.SSSS]]][+-ZZZZ]												
— degree of precision	24.2.2	ST	1	B		0	0					
Implementation Note: Retained for backward compatibility only												
• end date/time	24.3	TS	26	O		0	1					
— Date/Time	24.3.1	NM	26	R		1	1					
Implementation Note: YYYYMMDD[HHHMM[SS[.SSSS]]][+-ZZZZ]												
— degree of precision	24.3.2	ST	1	B		0	0					
Implementation Note: Retained for backward compatibility only												
• point of care (IS)	24.4	IS	3	O		0	1					
• room	24.5	IS	3	O		0	1					
• bed	24.6	IS	3	O		0	1					
• facility (HD)	24.7	HD	9	O		0	1					
— namespace ID	24.7.1	IS	3	O		0	1	0300				
— universal ID	24.7.2	ST	3	O		0	1					
— universal ID type	24.7.3	ID	3	O		0	1	0301				
• location status	24.8	IS	3	O		0	1					
• person location type	24.9	IS	3	O		0	1					
• building	24.10	IS	3	O		0	1					
• floor	24.11	IS	3	O		0	1					
CM_OCD	25	CM_OCD	6	R	F	1	1					
Description: occurrence												
• occurrence code	25.1	ID	3	O		0	1					

Data Type and Components	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
• occurrence date	25.2	DT	3	O		0	1					
CM_OSP	26	CM_OSP	24	R	F	1	1					
Description: occurrence span												
• occurrence span code	26.1	CE	18	O		0	1					
— identifier	26.1.1	ST	3	O		0	1					
— text	26.1.2	ST	3	O		0	1					
— name of coding system	26.1.3	ST	3	O		0	1					
— alternate identifier	26.1.4	ST	3	O		0	1					
— alternate text	26.1.5	ST	3	O		0	1					
— name of alternate coding system	26.1.6	ST	3	O		0	1					
• occurrence span start date	26.2	DT	3	O		0	1					
• occurrence span stop date	26.3	DT	3	O		0	1					
CM_PCF	27	CM_PCF	32	R	F	1	1					
Description: Pre-certification required												
• pre-certification patient type	27.1	IS	3	O		0	1					
• pre-certification required	27.2	ID	3	O		0	1					
• pre-certification window	27.3	TS	26	O		0	1					
— Date/Time	27.3.1	NM	26	R		1	1					
Implementation Note: YYYYMMDD[HHHMM[SS[.SSSS]]][+-ZZZZ]												
— degree of precision	27.3.2	ST	1	B		0	0					
Implementation Note: Retained for backward compatibility only												
CM_PEN	28	CM_PEN	6	R	F	1	1					
Description: penalty												
• penalty type	28.1	IS	3	O		0	1					
• penalty amount	28.2	NM	3	O		0	1					
CM_PI	29	CM_PI	9	R	F	1	1					
Description: person identifier												
• ID number (ST)	29.1	ST	3	O		0	1					
• type of ID number (IS)	29.2	IS	3	O		0	1					
• other qualifying info	29.3	ST	3	O		0	1					
CM_PIP	30	CM_PIP	42	R	F	1	1					
Description: Privileges												
• privilege	30.1	CE	18	O		0	1					
— identifier	30.1.1	ST	3	O		0	1					
— text	30.1.2	ST	3	O		0	1					

Data Type and Components	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
— name of coding system	30.1.3	ST	3	O		0	1					
— alternate identifier	30.1.4	ST	3	O		0	1					
— alternate text	30.1.5	ST	3	O		0	1					
— name of alternate coding system	30.1.6	ST	3	O		0	1					
• privilege class	30.2	CE	18	O		0	1					
— identifier	30.2.1	ST	3	O		0	1					
— text	30.2.2	ST	3	O		0	1					
— name of coding system	30.2.3	ST	3	O		0	1					
— alternate identifier	30.2.4	ST	3	O		0	1					
— alternate text	30.2.5	ST	3	O		0	1					
— name of alternate coding system	30.2.6	ST	3	O		0	1					
• expiration date	30.3	DT	3	O		0	1					
• activation date	30.4	DT	3	O		0	1					
CM_PLN	31	CM_PLN	12	R	F	1	1					
Description: Practitioner ID Numbers												
• ID number (ST)	31.1	ST	3	O		0	1					
• type of ID number (IS)	31.2	IS	3	O		0	1					
• state/other qualifying info	31.3	ST	3	O		0	1					
• expiration date	31.4	DT	3	O		0	1					
CM_PRL	32	CM_PRL	24	R	F	1	1					
Description: parent result link												
• OBX-3 observation identifier of parent result	32.1	CE	18	O		0	1					
— identifier	32.1.1	ST	3	O		0	1					
— text	32.1.2	ST	3	O		0	1					
— name of coding system	32.1.3	ST	3	O		0	1					
— alternate identifier	32.1.4	ST	3	O		0	1					
— alternate text	32.1.5	ST	3	O		0	1					
— name of alternate coding system	32.1.6	ST	3	O		0	1					
• OBX-4 sub-ID of parent result	32.2	ST	3	O		0	1					
• part of OBX-5 observation result from parent	32.3	TX	3	O		0	1					
CM_PTA	33	CM_PTA	9	R	F	1	1					
Description: Policy Type												
• policy type	33.1	IS	3	O		0	1					
• amount class	33.2	IS	3	O		0	1					
• amount	33.3	NM	3	O		0	1					
CM_RANGE	34	CM_RANGE	36	R	F	1	1					

Data Type and Components	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
Description: Wertebereich												
• Low Value	34.1	CE	18	O		0	1					
— identifier	34.1.1	ST	3	O		0	1					
— text	34.1.2	ST	3	O		0	1					
— name of coding system	34.1.3	ST	3	O		0	1					
— alternate identifier	34.1.4	ST	3	O		0	1					
— alternate text	34.1.5	ST	3	O		0	1					
— name of alternate coding system	34.1.6	ST	3	O		0	1					
• High Value	34.2	CE	18	O		0	1					
— identifier	34.2.1	ST	3	O		0	1					
— text	34.2.2	ST	3	O		0	1					
— name of coding system	34.2.3	ST	3	O		0	1					
— alternate identifier	34.2.4	ST	3	O		0	1					
— alternate text	34.2.5	ST	3	O		0	1					
— name of alternate coding system	34.2.6	ST	3	O		0	1					
CM_RFR	35	CM_RFR	21	R	F	1	1					
Description: reference range												
• reference range	35.1	**CM**	3	O		0	1					
• sex	35.2	IS	3	O		0	1					
• age range	35.3	**CM**	3	O		0	1					
• age gestation	35.4	**CM**	3	O		0	1					
• species	35.5	TX	3	O		0	1					
• race/subspecies	35.6	ST	3	O		0	1					
• conditions	35.7	TX	3	O		0	1					
CM_RMC	36	CM_RMC	9	R	F	1	1					
Description: Room Coverage												
• room type	36.1	IS	3	O		0	1					
• amount type	36.2	IS	3	O		0	1					
• coverage amount	36.3	NM	3	O		0	1					
CM_SPD	37	CM_SPD	12	R	F	1	1					
Description: Specialty												
• specialty name	37.1	ST	3	O		0	1					
• governing board	37.2	ST	3	O		0	1					
• eligible or certified	37.3	ID	3	O		0	1					
• date of certification	37.4	DT	3	O		0	1					
CM_SPS	38	CM_SPS	78	R	F	1	1					
Description: specimen source												
• specimen source name or code	38.1	CE	18	O		0	1					
— identifier	38.1.1	ST	3	O		0	1					
— text	38.1.2	ST	3	O		0	1					
— name of coding system	38.1.3	ST	3	O		0	1					

Data Type and Components	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
— alternate identifier	38.1.4	ST	3	O		0	1					
— alternate text	38.1.5	ST	3	O		0	1					
— name of alternate coding system	38.1.6	ST	3	O		0	1					
• additives	38.2	TX	3	O		0	1					
• freetext	38.3	TX	3	O		0	1					
• body site	38.4	CE	18	O		0	1					
— identifier	38.4.1	ST	3	O		0	1					
— text	38.4.2	ST	3	O		0	1					
— name of coding system	38.4.3	ST	3	O		0	1					
— alternate identifier	38.4.4	ST	3	O		0	1					
— alternate text	38.4.5	ST	3	O		0	1					
— name of alternate coding system	38.4.6	ST	3	O		0	1					
• site modifier	38.5	CE	18	O		0	1					
— identifier	38.5.1	ST	3	O		0	1					
— text	38.5.2	ST	3	O		0	1					
— name of coding system	38.5.3	ST	3	O		0	1					
— alternate identifier	38.5.4	ST	3	O		0	1					
— alternate text	38.5.5	ST	3	O		0	1					
— name of alternate coding system	38.5.6	ST	3	O		0	1					
• collection modifier method code	38.6	CE	18	O		0	1					
— identifier	38.6.1	ST	3	O		0	1					
— text	38.6.2	ST	3	O		0	1					
— name of coding system	38.6.3	ST	3	O		0	1					
— alternate identifier	38.6.4	ST	3	O		0	1					
— alternate text	38.6.5	ST	3	O		0	1					
— name of alternate coding system	38.6.6	ST	3	O		0	1					
CM_UVC	39	CM_UVC	6	R	F	1	1					
Description: Value code and amount												
• value code	39.1	IS	3	O		0	1					
• value amount	39.2	NM	3	O		0	1					
CM_VR	40	CM_VR	6	R	F	1	1					
Description: value qualifier												
• first data code value	40.1	ST	3	O		0	1					
• Last data code value	40.2	ST	3	O		0	1					
CM_WVI	41	CM_WVI	6	R	F	1	1					
Description: channel identifier												
• Channel Number	41.1	NM	3	O		0	1					
• Channel Name	41.2	ST	3	O		0	1					
CN	42	CN	33	R	F	1	1					

Data Type and Components	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
Description: composite ID number and name												
• ID number (ST)	42.1	ST	3	O		0	1					
• family name	42.2	ST	3	O		0	1					
• given name	42.3	ST	3	O		0	1					
• middle initial or name	42.4	ST	3	O		0	1					
• suffix (e.g., JR or III)	42.5	ST	3	O		0	1					
• prefix (e.g., DR)	42.6	ST	3	O		0	1					
• degree (e.g., MD)	42.7	IS	3	O		0	1					
• source table	42.8	IS	3	O		0	1					
• assigning authority	42.9	HD	9	O		0	1					
— namespace ID	42.9.1	IS	3	O		0	1	0300				
— universal ID	42.9.2	ST	3	O		0	1					
— universal ID type	42.9.3	ID	3	O		0	1	0301				
CNE	43	CNE	27	R	F	1	1					
Description: coded with no exceptions												
• identifier	43.1	ST	3	O		0	1					
• text	43.2	ST	3	O		0	1					
• name of coding system	43.3	ST	3	O		0	1					
• alternate identifier	43.4	ST	3	O		0	1					
• alternate text	43.5	ST	3	O		0	1					
• name of alternate coding system	43.6	ST	3	O		0	1					
• coding system version ID	43.7	ST	3	O		0	1					
• alternate coding system version ID	43.8	ST	3	O		0	1					
• original text	43.9	ST	3	O		0	1					
CP	44	CP	36	R	F	1	1					
Description: composite price												
• price	44.1	MO	6	O		0	1					
— quantity	44.1.1	NM	3	O		0	1					
— denomination	44.1.2	ID	3	O		0	1					
• price type	44.2	ID	3	O		0	1	0205				
• from value	44.3	NM	3	O		0	1					
• to value	44.4	NM	3	O		0	1					
• range units	44.5	CE	18	O		0	1					
— identifier	44.5.1	ST	3	O		0	1					
— text	44.5.2	ST	3	O		0	1					
— name of coding system	44.5.3	ST	3	O		0	1					
— alternate identifier	44.5.4	ST	3	O		0	1					

Data Type and Components	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
— alternate text	44.5.5	ST	3	O		0	1					
— name of alternate coding system	44.5.6	ST	3	O		0	1					
• range type	44.6	ID	3	O		0	1	0298				
CQ	45	CQ	21	R	F	1	1					
Description: composite quantity with units												
• quantity	45.1	NM	3	O		0	1					
• units	45.2	CE	18	O		0	1					
— identifier	45.2.1	ST	3	O		0	1					
— text	45.2.2	ST	3	O		0	1					
— name of coding system	45.2.3	ST	3	O		0	1					
— alternate identifier	45.2.4	ST	3	O		0	1					
— alternate text	45.2.5	ST	3	O		0	1					
— name of alternate coding system	45.2.6	ST	3	O		0	1					
CWE	46	CWE	696	R	F	1	1					
Description: coded with exceptions												
• identifier	46.1	ST	20	O		0	1					
• text	46.2	ST	200	O		0	1					
• name of coding system	46.3	ST	8	O		0	1					
• alternate identifier	46.4	ST	20	O		0	1					
• alternate text	46.5	ST	200	O		0	1					
• name of alternate coding system	46.6	ST	8	O		0	1					
• coding system version ID	46.7	ST	20	O		0	1					
• alternate coding system version ID	46.8	ST	20	O		0	1					
• original text	46.9	ST	200	O		0	1					
CX	47	CX	27	R	F	1	1					
Description: extended composite ID with check digit												
• ID	47.1	ST	3	O		0	1					
• check digit	47.2	ST	0	O		0	1					
• code identifying the check digit scheme employed	47.3	ID	3	O		0	1					
• assigning authority	47.4	HD	9	O		0	1					
— namespace ID	47.4.1	IS	3	O		0	1	0300				
— universal ID	47.4.2	ST	3	O		0	1					
— universal ID type	47.4.3	ID	3	O		0	1	0301				
• identifier type code	47.5	IS	3	O		0	1	0203				
• assigning facility	47.6	HD	9	O		0	1					

Data Type and Components	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
— namespace ID	47.6.1	IS	3	O		0	1	0300				
— universal ID	47.6.2	ST	3	O		0	1					
— universal ID type	47.6.3	ID	3	O		0	1	0301				
DLN	48	DLN	9	R	F	1	1					
Description: driver's license number												
• Driver's License Number	48.1	ST	3	O		0	1					
• Issuing State, province, country	48.2	IS	3	O		0	1					
• expiration date	48.3	DT	3	O		0	1					
DR	49	DR	52	R	F	1	1					
Description: date/time range												
• range start date/time	49.1	TS	26	O		0	1					
— Date/Time	49.1.1	NM	26	R		1	1					
Implementation Note: YYYYMMDD[HHHMM[SS[.SSSS]]][+-ZZZZ]												
— degree of precision	49.1.2	ST	1	B		0	0					
Implementation Note: Retained for backward compatibility only												
• range end date/time	49.2	TS	26	O		0	1					
— Date/Time	49.2.1	NM	26	R		1	1					
Implementation Note: YYYYMMDD[HHHMM[SS[.SSSS]]][+-ZZZZ]												
— degree of precision	49.2.2	ST	1	B		0	0					
Implementation Note: Retained for backward compatibility only												
DT	50	DT	0	R	F	1	1					
Description: Date												
ED	51	ED	21	R	F	1	1					
Description: encapsulated data												
• source application	51.1	HD	9	O		0	1					
— namespace ID	51.1.1	IS	3	O		0	1	0300				
— universal ID	51.1.2	ST	3	O		0	1					
— universal ID type	51.1.3	ID	3	O		0	1	0301				
• type of data	51.2	ID	3	O		0	1	0191				
• data	51.3	ID	3	O		0	1	0291				
• encoding	51.4	ID	3	O		0	1	0299				

Data Type and Components	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
• data subtype	51.5	ST	3	O		0	1					
EI	52	EI	12	R	F	1	1					
Description: entity identifier												
• entity identifier	52.1	ST	3	O		0	1					
• namespace ID	52.2	IS	3	O		0	1	0300				
• universal ID	52.3	ST	3	O		0	1					
• universal ID type	52.4	ID	3	O		0	1	0301				
FC	53	FC	29	R	F	1	1					
Description: financial class												
• Financial Class	53.1	IS	3	O		0	1	0064				
• Effective Date	53.2	TS	26	O		0	1					
— Date/Time	53.2.1	NM	26	R		1	1					
Implementation Note: YYYYMMDD[HHHMM[SS[.SSSS]]][+-ZZZZ]												
— degree of precision	53.2.2	ST	1	B		0	0					
Implementation Note: Retained for backward compatibility only												
FT	54	FT	0	R	F	1	1					
Description: Formatted text												
HD	55	HD	9	R	F	1	1					
Description: hierarchic designator												
• namespace ID	55.1	IS	3	O		0	1	0300				
• universal ID	55.2	ST	3	O		0	1					
• universal ID type	55.3	ID	3	O		0	1	0301				
ID	56	ID	0	R	F	1	1					
Description: Coded values for HL7 tables												
IS	57	IS	0	R	F	1	1					
Description: Coded value for user-defined tables												
JCC	58	JCC	6	R	F	1	1					
Description: job code/class												
• job code	58.1	IS	3	O		0	1	0327				
• job class	58.2	IS	3	O		0	1	0328				
MA	59	MA	18	R	F	1	1					
Description: multiplexed array												
• sample 1 from channel 1	59.1	NM	3	O		0	1					
• sample 1 from channel 2	59.2	NM	3	O		0	1					
• sample 1 from channel 3	59.3	NM	3	O		0	1					

Data Type and Components	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
• sample 2 from channel 1	59.4	NM	3	O		0	1					
• sample 2 from channel 2	59.5	NM	3	O		0	1					
• sample 2 from channel 1	59.6	NM	3	O		0	1					
MO	60	MO	6	R	F	1	1					
Description: money												
• quantity	60.1	NM	3	O		0	1					
• denomination	60.2	ID	3	O		0	1					
NA	61	NA	12	R	F	1	1					
Description: numeric array												
• value1	61.1	NM	3	O		0	1					
• value2	61.2	NM	3	O		0	1					
• value3	61.3	NM	3	O		0	1					
• value4	61.4	NM	3	O		0	1					
NM	62	NM	0	R	F	1	1					
Description: Numeric												
PL	63	PL	33	R	F	1	1					
Description: person location												
• point of care	63.1	IS	3	O		0	1					
• room	63.2	IS	3	O		0	1					
• bed	63.3	IS	3	O		0	1					
• facility (HD)	63.4	HD	9	O		0	1					
— namespace ID	63.4.1	IS	3	O		0	1	0300				
— universal ID	63.4.2	ST	3	O		0	1					
— universal ID type	63.4.3	ID	3	O		0	1	0301				
• location status	63.5	IS	3	O		0	1					
• person location type	63.6	IS	3	O		0	1					
• building	63.7	IS	3	O		0	1					
• floor	63.8	IS	3	O		0	1					
• Location description	63.9	ST	3	O		0	1					
PN	64	PN	18	R	F	1	1					
Description: person name												
• family+last name	64.1	**CM**	3	O		0	1					
• given name	64.2	ST	3	O		0	1					
• middle initial or name	64.3	ST	3	O		0	1					
• suffix (e.g., JR or III)	64.4	ST	3	O		0	1					
• prefix (e.g., DR)	64.5	ST	3	O		0	1					
• degree (e.g., MD)	64.6	IS	3	O		0	1					
PPN	65	PPN	83	R	F	1	1					

Data Type and Components	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
Description: performing person time stamp												
• ID number (NM)	65.1	NM	3	O		0	1					
• family+last name	65.2	CM	3	O		0	1					
• given name	65.3	ST	3	O		0	1					
• middle initial or name	65.4	ST	3	O		0	1					
• suffix (e.g., JR or III)	65.5	ST	3	O		0	1					
• prefix (e.g., DR)	65.6	ST	3	O		0	1					
• degree (e.g., MD)	65.7	IS	3	O		0	1					
• source table	65.8	IS	3	O		0	1					
• assigning authority	65.9	HD	9	O		0	1					
— namespace ID	65.9.1	IS	3	O		0	1	0300				
— universal ID	65.9.2	ST	3	O		0	1					
— universal ID type	65.9.3	ID	3	O		0	1	0301				
• name type code	65.10	ID	3	O		0	1					
• identifier check digit	65.11	ST	3	O		0	1					
• code identifying the check digit scheme employed	65.12	ID	3	O		0	1					
• identifier type code	65.13	IS	3	O		0	1					
• assigning facility	65.14	HD	9	O		0	1					
— namespace ID	65.14.1	IS	3	O		0	1	0300				
— universal ID	65.14.2	ST	3	O		0	1					
— universal ID type	65.14.3	ID	3	O		0	1	0301				
• Date/Time Action Performed	65.15	TS	26	O		0	1					
— Date/Time	65.15.1	NM	26	R		1	1					
Implementation Note: YYYYMMDD[HHHMM[SS[.SSSS]]][+-ZZZZ]												
— degree of precision	65.15.2	ST	1	B		0	0					
Implementation Note: Retained for backward compatibility only												
• Name Representation code	65.16	ID	3	O		0	1					
PT	66	PT	3	R	F	1	1					
Description: processing type												
• processing ID	66.1	ID	1	O		0	1	0103				

Data Type and Components	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
• processing mode	66.2	ID	1	O		0	1	0207				
QIP	67	QIP	6	R	F	1	1					
Description: query input parameter list												
• field name	67.1	ST	3	O		0	1					
• value1&value2&value3	67.2	ST	3	O		0	1					
QSC	68	QSC	12	R	F	1	1					
Description: query selection criteria												
• segment field name	68.1	ST	3	O		0	1					
• relational operator	68.2	ID	3	O		0	1					
• Value	68.3	ST	3	O		0	1					
• relational conjunction	68.4	ID	3	O		0	1					
RCD	69	RCD	9	R	F	1	1					
Description: row column definition												
• segment field name	69.1	ST	3	O		0	1					
• HL7 date type	69.2	ST	3	O		0	1					
• maximum column width	69.3	NM	3	O		0	1					
RI	70	RI	6	R	F	1	1					
Description: repeat interval												
• repeat pattern	70.1	IS	3	O		0	1					
• explicit time interval	70.2	ST	3	O		0	1					
RP	71	RP	18	R	F	1	1					
Description: reference pointer												
• pointer	71.1	ST	3	O		0	1					
• application ID	71.2	HD	9	O		0	1					
— namespace ID	71.2.1	IS	3	O		0	1	0300				
— universal ID	71.2.2	ST	3	O		0	1					
— universal ID type	71.2.3	ID	3	O		0	1	0301				
• type of data	71.3	ID	3	O		0	1					
• subtype	71.4	ID	3	O		0	1					
SCV	72	SCV	6	R	F	1	1					
Description: scheduling class value pair												
• parameter class	72.1	IS	3	O		0	1					
• parameter value	72.2	IS	3	O		0	1					
SI	73	SI	0	R	F	1	1					
Description: Sequence ID												
SN	74	SN	12	R	F	1	1					
Description: structured numeric												
• comparator	74.1	ST	3	O		0	1					

Data Type and Components	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
• num1	74.2	NM	3	O		0	1					
• separator or suffix	74.3	ST	3	O		0	1					
• num2	74.4	NM	3	O		0	1					
ST	75	ST	0	R	F	1	1					
Description: String												
TM	76	TM	0	R	F	1	1					
Description: Time												
TN	77	TN	0	R	F	1	1					
Description: Telephone number												
TQ	78	TQ	115	R	F	1	1					
Description: timing quantity												
• quantity	78.1	CQ	21	O		0	1					
— quantity	78.1.1	NM	3	O		0	1					
— units	78.1.2	CE	18	O		0	1					
• interval	78.2	**CM**	3	O		0	1					
• duration	78.3	ST	3	O		0	1					
• start date/time	78.4	TS	26	O		0	1					
— Date/Time	78.4.1	NM	26	R		1	1					
Implementation Note: YYYYMMDD[HHHMM[SS[.SSSS]]][+-ZZZZ]												
— degree of precision	78.4.2	ST	1	B		0	0					
Implementation Note: Retained for backward compatibility only												
• end date/time	78.5	TS	26	O		0	1					
— Date/Time	78.5.1	NM	26	R		1	1					
Implementation Note: YYYYMMDD[HHHMM[SS[.SSSS]]][+-ZZZZ]												
— degree of precision	78.5.2	ST	1	B		0	0					
Implementation Note: Retained for backward compatibility only												
• priority	78.6	ST	3	O		0	1					
• condition	78.7	ST	3	O		0	1					
• text	78.8	ST	3	O		0	1					
• conjunction	78.9	ST	3	O		0	1					
• order sequencing	78.10	**CM**	3	O		0	1					
• occurrence duration	78.11	CE	18	O		0	1					
— identifier	78.11.1	ST	3	O		0	1					
— text	78.11.2	ST	3	O		0	1					
— name of coding system	78.11.3	ST	3	O		0	1					
— alternate identifier	78.11.4	ST	3	O		0	1					

Data Type and Components	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
— alternate text	78.11.5	ST	3	O		0	1					
— name of alternate coding system	78.11.6	ST	3	O		0	1					
• total occurrences	78.12	NM	3	O		0	1					
TS	79	TS	26	R	F	1	1					
Description: Time stamp												
• Date/Time	79.1	NM	26	R		1	1					
Implementation Note: YYYYMMDD[HHHMM[SS[.SSSS]]][+-ZZZZ]												
• degree of precision	79.2	ST	1	B		0	0					
Implementation Note: Retained for backward compatibility only												
TX	80	TX	0	R	F	1	1					
Description: text data												
VARIES	81	VARIES	0	R	F	1	1					
Description: Variable data type												
VH	82	VH	12	R	F	1	1					
Description: visiting hours												
• start day range	82.1	ID	3	O		0	1					
• end day range	82.2	ID	3	O		0	1					
• start hour range	82.3	TM	3	O		0	1					
• end hour range	82.4	TM	3	O		0	1					
VID	83	VID	44	R	F	1	1					
Description: version identifier												
• version ID	83.1	ID	5	O		0	1	0104				
• internationalization code	83.2	CE	18	O		0	1					
— identifier	83.2.1	ST	3	O		0	1					
— text	83.2.2	ST	3	O		0	1					
— name of coding system	83.2.3	ST	3	O		0	1					
— alternate identifier	83.2.4	ST	3	O		0	1					
— alternate text	83.2.5	ST	3	O		0	1					
— name of alternate coding system	83.2.6	ST	3	O		0	1					
• international version ID	83.3	CE	18	O		0	1					
— identifier	83.3.1	ST	3	O		0	1					
— text	83.3.2	ST	3	O		0	1					
— name of coding system	83.3.3	ST	3	O		0	1					
— alternate identifier	83.3.4	ST	3	O		0	1					
— alternate text	83.3.5	ST	3	O		0	1					
— name of alternate coding system	83.3.6	ST	3	O		0	1					
XAD	84	XAD	33	R	F	1	1					

Data Type and Components	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
Description: extended address												
• street address	84.1	ST	3	O		0	1					
• other designation	84.2	ST	3	O		0	1					
• city	84.3	ST	3	O		0	1					
• state or province	84.4	ST	3	O		0	1					
• zip or postal code	84.5	ST	3	O		0	1					
• country	84.6	ID	3	O		0	1					
• address type	84.7	ID	3	O		0	1					
• other geographic designation	84.8	ST	3	O		0	1					
• county/parish code	84.9	IS	3	O		0	1					
• census tract	84.10	IS	3	O		0	1					
• address representation code	84.11	ID	3	O		0	1					
XCN	85	XCN	57	R	F	1	1					
Description: extended composite ID number and name for persons												
• ID number (ST)	85.1	ST	3	O		0	1					
• family+last name prefix	85.2	**CM**	3	O		0	1					
• given name	85.3	ST	3	O		0	1					
• middle initial or name	85.4	ST	3	O		0	1					
• suffix (e.g., JR or III)	85.5	ST	3	O		0	1					
• prefix (e.g., DR)	85.6	ST	3	O		0	1					
• degree (e.g., MD)	85.7	IS	3	O		0	1					
• source table	85.8	IS	3	O		0	1					
• assigning authority	85.9	HD	9	O		0	1					
— namespace ID	85.9.1	IS	3	O		0	1	0300				
— universal ID	85.9.2	ST	3	O		0	1					
— universal ID type	85.9.3	ID	3	O		0	1	0301				
• name type code	85.10	ID	3	O		0	1					
• identifier check digit	85.11	ST	3	O		0	1					
• code identifying the check digit scheme employed	85.12	ID	3	O		0	1					
• identifier type code	85.13	IS	3	O		0	1					
• assigning facility	85.14	HD	9	O		0	1					
— namespace ID	85.14.1	IS	3	O		0	1	0300				
— universal ID	85.14.2	ST	3	O		0	1					

Data Type and Components	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
— universal ID type	85.14.3	ID	3	O		0	1	0301				
• Name Representation code	85.15	ID	3	O		0	1					
XON	86	XON	39	R	F	1	1					
Description: extended composite name and identification number for organizations												
• organization name	86.1	ST	3	O		0	1					
• organization name type code	86.2	IS	3	O		0	1					
• ID number (NM)	86.3	NM	3	O		0	1					
• check digit	86.4	NM	3	O		0	1					
• code identifying the check digit scheme employed	86.5	ID	3	O		0	1					
• assigning authority	86.6	HD	9	O		0	1					
— namespace ID	86.6.1	IS	3	O		0	1	0300				
— universal ID	86.6.2	ST	3	O		0	1					
— universal ID type	86.6.3	ID	3	O		0	1	0301				
• identifier type code	86.7	IS	3	O		0	1					
• assigning facility ID	86.8	HD	9	O		0	1					
— namespace ID	86.8.1	IS	3	O		0	1	0300				
— universal ID	86.8.2	ST	3	O		0	1					
— universal ID type	86.8.3	ID	3	O		0	1	0301				
• Name Representation code	86.9	ID	3	O		0	1					
XPN	87	XPN	24	R	F	1	1					
Description: extended person name												
• family+last name prefix	87.1	**CM**	3	O		0	1					
• given name	87.2	ST	3	O		0	1					
• middle initial or name	87.3	ST	3	O		0	1					
• suffix (e.g., JR or III)	87.4	ST	3	O		0	1					
• prefix (e.g., DR)	87.5	ST	3	O		0	1					
• degree (e.g., MD)	87.6	IS	3	O		0	1					
• name type code	87.7	ID	3	O		0	1					
• Name Representation code	87.8	ID	3	O		0	1					
XTN	88	XTN	27	R	F	1	1					
Description: extended telecommunication number												

Data Type and Components	Seq	DT	Len	Opt	Rep	Min	Max	Tbl	Predicate	Fixed Val	Ex Val	Reference
• [(999)] 999-9999 [X99999][C any text]	88.1	TN	3	O		0	1					
• telecommunication use code	88.2	ID	3	O		0	1					
• telecommunication equipment type (ID)	88.3	ID	3	O		0	1					
• Email address	88.4	ST	3	O		0	1					
• Country Code	88.5	NM	3	O		0	1					
• Area/city code	88.6	NM	3	O		0	1					
• Phone number	88.7	NM	3	O		0	1					
• Extension	88.8	NM	3	O		0	1					
• any text	88.9	ST	3	O		0	1					

Appendix A - Messaging Questions and Answers Document

Note: The January 2006 version of the CAP Checklist will be used for RPP2.

1 – Question: What is the use of structured numeric data type? Should we use Alternative #1: Data type as meant by HL7, or Alternative #2: Change the data type to ST? (see Additional dimension in 8th OBX in sample message in Appendix I)

Decision: We will use Alternative #2 – treat the data type as free text (string ST). [*Messaging Workgroup Meeting on 5/3/06*]

Example: If there are two additional dimensions 'nn' and 'mm', the two OBX segments would be:

OBX|17|NM|385399002^Tumor size, dominant nodule, additional dimension (observable entity)^SCT^R-003EE^^SCTA|1|nn|cm|||||F

OBX|17|NM|385399002^Tumor size, dominant nodule, additional dimension (observable entity)^SCT^R-003EE^^SCTA|1|mm|cm|||||F

2 – Question: What is the location for the checklist identifier for RPP2?

Discussion: RPP1 used OBR 44. The group discussed OBR4 and OBR 20 as options. OBR 4 holds the Universal Service Identifier, but maybe inappropriate as it contains high level information already in use. OBR 20 is more of a filler field to be used for any agreed upon data. This seems to be a more appropriate place.

Decision: We will use the OBR 20 segment for the Checklist Identifier for RPP2. This field will be required and data type will be changed to CE. [*Messaging Workgroup Meeting on 11/9/05 and reconfirmed on 2/8/06*]

Checklist ID subcomponents: <checklist identifier (ST)> & <checklist name text (ST)> & <name of coding system (ST)> & <alternate identifier (ST)> & <alternate text (ST)> & <name of alternate coding system (ST)>

2a. – Question: Where should the version date of the CAP Checklist be located in the HL7 message?

Discussion: OBR 21 was used for the path lab phone number in E-Path. In RPP1, OBR was used, but never made a final decision of version date locator. If using CWE data type for OBR 20, the CWE code already identifies the CAP checklist version.

Decision: This will not be resolved for RPP2. Instead, we will:

1. focus on the date at the top of the checklist, and
2. work with the CAP Cancer Committee for future work, i.e., create versioning scenarios and present to CAP for future consideration.

[Messaging Workgroup Meeting on 5/3/06]

3 – Question: Does RPP2 intend to incorporate both the discrete CAP protocol data and the entire text pathology report or portions of the pathology report into a single message in the RPP2 standard? If so, how?

Discussion: This is an open question; the structure will allow us to incorporate both the discrete data items and the text. In RPP1, we had to exclude text because it was not compatible with parallel testing; however, we did include some text (clinical history and a generic other text section) in the OBX segment. [Linda, Zeke, or Barry can answer the question about which codes were used in OBX-3 to identify the clinical history text and other text.] RPP1, added full text to path report and put in as optional OBX content. *Note:* The "how" remains unanswered, but NAACCR E-Path guide has addressed this matter. See corresponding OBX-3 section.

Note: Need to discuss how to structure the layout.

Decision: For the transmission of text data, RPP2 will rely upon the NAACCR E-Path transmission standards as noted in NAACCR Volume V. [*Messaging Workgroup Meeting on 2/8/06*]
See the following link:
http://www.naaccr.org/index.asp?Col_SectionKey=7&Col_ContentID=122

4 – Question: The CAP checklists contain headers which help to organize the paper document (e.g., macroscopic, microscopic). These are listed in the OBX template. Will there be any ambiguity in the data if the headers are excluded from the HL7 message?

Discussion: There would be no ambiguity if the header is excluded. The registry receiving software would have no problem. It may not be necessary to include protocol header; header can be inferred from the message. If desired, need to discuss how to format the message.

Decision: The group decided that this is fine as is. The header in the checklist has no value and only serves to group the values, so there would be no ambiguity if the header is excluded. Note that the SNOMED codes are different for the similar data items under different header sections. LOINC Panels and Document sections support this, but it is felt that this level of complexity is unnecessary. [*Messaging Workgroup Meeting on 2/8/06*]

5 – Question: How should nested concepts typically associated with the "other specify" questions be handled in the HL7 message? How should text data be included in the HL7 message and specifically where should Clinical History information be located?

Decision: The following 4 examples describe different scenarios. An "other specify" question can usually be handled by a repeating OBX-5 field. The "check all that apply" usually requires repeating OBX's. Each checked concept get a different OBX. [*Messaging Workgroup Meeting on 1/18/06*]

Nesting Concepts Encoding Example #1: Specimen Type from the Melanoma Checklist using "other specify":

SPECIMEN TYPE *[R-00254, 371439000] Specimen type (observable entity)*
___ Excision, ellipse *[G-81FD, 396353007] Specimen from skin obtained by elliptical excision (specimen)*
___ Excision, wide *[G-81FE, 396354001] Specimen from skin obtained by wide excision (specimen)*

___ Excision, other (specify): ____ *[G-81FF, 396355000] Specimen from skin obtained by excision (specimen) (specify): ____ not coded*
___ Re-excision, ellipse *[G-8202, 396357008] Specimen from skin obtained by elliptical re-excision (specimen)*
___ Re-excision, wide *[G-8203, 396358003] Specimen from skin obtained by wide re-excision (specimen)*
___ Re-excision, other (specify): _____ *[G-8201, 396356004] Specimen from skin obtained by re-excision (specimen) (specify): ____ not coded*
___ Lymphadenectomy, sentinel node(s) *[R-003AF, 373193000] Lymph node from sentinel lymph node dissection (specimen)*
_**X**_ Lymphadenectomy, regional nodes (specify): _**axillary**_ *[G-8204, 396359006] Lymph node from regional lymph node dissection (specimen) (specify): ____ not coded*
___ Other (specify): ____ *not coded*
___ Not specified *[G-8110, 119325001] Skin (tissue) specimen (specimen)*

This section of the checklist would be held in a single OBX (since it is a single line entry answer) as:

OBX|1|CWE|371439000^Specimen type (observable entity)^SCT^^^^^^SPECIMEN TYPE||396359006^Lymph node from regional lymph node dissection (specimen)^SCT^^^^^^^Lymphadenectomy, regional nodes (specify)~^^^^^^^^^axillary||||||F

Note: There is a two-part answer here that is implemented as a single OBX with a repeating OBX-5 field.

Nesting Concepts Encoding Example #2: Additional Pathologic Findings from the Prostate Checklist using a "check all that apply" structure:

*ADDITIONAL PATHOLOGIC FINDINGS (check all that apply) *[R-0025E, 371498006] Additional pathologic finding in tumor specimen (observable entity)*
*___ None identified *[F-02BB1, 395555008] No additional pathologic finding in tumor specimen (finding)*
*_**X**_ High-grade prostatic intraepithelial neoplasia (PIN) *[M-81482, 128640002] Glandular intraepithelial neoplasia, grade III (morphologic abnormality)*
*_**X**_ Inflammation (specify type): _**eosinophilic**_ *[D7-51010, 9713002] Prostatitis (disorder) (specify type): ___ not coded*
*___ Atypical adenomatous hyperplasia *[M-72425, 17474009] Atypical glandular hyperplasia (morphologic abnormality)*
*___ Benign prostatic hyperplasia *[D7-F0479, 266569009] Benign prostatic hyperplasia (disorder)*
*_**X**_ Other (specify): _**residual tumor with capsular penetration**_*not coded*

This is a slightly more complex example illustrating a 'check all that apply' list (the meaning of the asterisks) with three answers, one of which is single-part coded, one is single-part uncoded, and one is multipart. This would be encoded as three OBX segments, one for each answer, in the following manner (in this example, there are 33 answers implied prior to this part of the checklist, since the SetID begins at 34):

OBX|34|CWE|371498006^Additional pathologic finding in tumor specimen (observable entity)^SCT^^^^^^*ADDITIONAL PATHOLOGIC FINDINGS (check all that apply)||128640002^Glandular intraepithelial neoplasia, grade III (morphologic abnormality)^SCT^^^^^^High-grade prostatic intraepithelial neoplasia (PIN)||||||F

OBX|35|CWE|371498006^Additional pathologic finding in tumor specimen (observable entity)^SCT^^^^^^*ADDITIONAL PATHOLOGIC FINDINGS (check all that apply)||9713002^Prostatitis (disorder)^SCT^^^^^^Inflammation (specify type):~^^^^^^^^eosinophilic||||||F

OBX|36|CWE|371498006^Additional pathologic finding in tumor specimen (observable entity)^SCT^^^^^^*ADDITIONAL PATHOLOGIC FINDINGS (check all that apply)||^^^^^^^^residual tumor with capsular penetration||||||F

Nesting Concepts Encoding Example #3: Tumor Quantitation from the Prostate Checklist:

TUMOR QUANTITATION: TUR Specimens *[R-004A0, 385011007] Transurethral prostatic resection specimen tumor quantitation (observable entity)*
Proportion (percent) of prostatic tissue involved by tumor: _5_% *[R-003EC, 385397000] Percentage of prostatic tissue, obtained by transurethral prostatic resection, involved by carcinoma (observable entity)*
_X_ Tumor incidental histologic finding in no more than 5% of tissue resected *[F-004DF, 399510009] Prostate tumor incidental histologic finding in 5% or less of tissue resected (finding)*
___ Tumor incidental histologic finding in more than 5% of tissue resected *[F-005CD, 399495003] Prostate tumor incidental histologic finding in more than 5% of tissue resected (finding)*
*Number of positive chips/total chips: __2__/__10__ *[F-04971, 399589001] Number of tissue chips positive for carcinoma (observable entity) and [F-0493D, 399441008] Total number of tissue chips (observable entity)* ***{start commentary}****Two codes. The first code [F-04971, 399589001] Number of tissue chips positive for carcinoma (observable entity) is for Number of positive chips ___. The second code [F-0493D, 399441008] Total number of tissue chips (observable entity) is for total chips: ____.* ***{end commentary}***

This example shows a TUR Prostate procedure where there have been four entries made by the Pathologist: 'X', '5', '2', and '10' as answers. The interesting illustration of this example is that there are four OBX segments even though there have been only three line items in the checklist identified. The reason for this is the SNOMED commentary for the chips ratio answer: ***{start commentary}*** "*Two codes. The first code [F-04971, 399589001] Number of tissue chips positive for carcinoma (observable entity) is for Number of positive chips ___. The second code [F-0493D, 399441008] Total number of tissue chips (observable entity) is for total chips: ____.*"***{end commentary}*** This comment indicates that there are actually TWO line item answers that are dependent, meaning that if one of them is answered they both must be, and they have separate code labels for the answers.

OBX|17|CWE|385011007^Transurethral prostatic resection specimen tumor quantitation (observable entity^SCT^^^^^^TUMOR QUANTITATION: TUR Specimens||399510009^Prostate tumor incidental histologic finding in 5% or less of tissue resected (finding)^SCT^^^^^^Tumor incidental histologic finding in no more than 5% of tissue resected||||||F

OBX|18|NM|385397000^Percentage of prostatic tissue, obtained by transurethral prostatic resection, involved by carcinoma (observable entity)^SCT^^^^^^ Proportion (percent) of prostatic tissue involved by tumor:||5|%^Percent^UCUM|||||F

OBX|19|NM|399589001^Number of tissue chips positive for carcinoma (observable entity)^SCT^^^^^^Number of positive chips^||2||||||F

OBX|20|NM|399441008^Total number of tissue chips (observable entity)^SCT^^^^^^total chips:||10||||||F

Note: The Set ID starts at '17'; normally, this would sequence from 1 for the first answer of the checklist, through the total number of responses in this worksheet. The number '17' was picked as a starting sequence, implying that there are 16 other OBX's ahead of these four in the message.

Nesting Concepts Encoding Example #4: Extraprostatic extension from the Prostate Checklist:

EXTRAPROSTATIC EXTENSION (check all that apply) *[R-0049E, 385009003] Status of extraprostatic extension of tumor (observable entity)*
___ Absent *[R-0027E, 372305000] Extraprostatic extension of tumor absent (finding)*
_X_ Present *[R-0027F, 372306004] Extraprostatic extension of tumor present (finding)*
*___ Unifocal *[R-004A3, 385015003] Extraprostatic extension of tumor present, unifocal (finding)*
*_X_ Multifocal *[R-004A4, 385016002] Extraprostatic extension of tumor present, multifocal (finding)*
___ Indeterminate *[F-02BE1, 385017006] Extraprostatic extension of tumor indeterminate (finding)*

OBX|…|CWE|385009003^Status of extraprostatic extension of tumor (observable entity)^SCT^R-0049E^^SCT2||372306004^Extraprostatic extension of tumor present (finding)^SCT^R-0027F^^SCTA|…
OBX|…|CWE|385009003^Status of extraprostatic extension of tumor (observable entity)^SCT^R-0049E^^SCT2||385016002^Extraprostatic extension of tumor present, multifocal (finding)^SCT^R-004A4^^SCTA|…

6 – Question: How should each OBR be uniquely identified, in addition to the CAP Checklist identifier?

Discussion: In some circumstances, a single HL7 message could contain two OBR segments each with the identical CAP Checklist identifier.

Decision: Use the OBR-Set ID (OBR-1) as a unique and sequential identifier. There will be one of these for a single checklist. The next sequence (additional OBRs) will indicate more than one checklist in the message or associated text pathology data. [*Messaging Workgroup Meeting on 2/8/06*]

6a. Will a diagnosis be assigned to a specimen part for RPP2?

Discussion: There are so few instances where this occur. If there is a compelling use case for doing this, then we will address it.

Decision: We will not assign a diagnosis to a specimen part for RPP2 (no part ID), but if there is a compelling use case for doing it, it will be addressed. [*Messaging Workgroup Meeting on 5/3/06*]

7 – Question: Can some CAP answers be either of a specific data type or free text?

Discussion: For example, data types for questions that can either CE or text (see ADDITIONAL PATHOLOGIC FINDINGS in 11th and 12th OBX in sample message in Appendix I). There can be two alternatives; Alternative #1: For CE data types, allow text to be in the second subfield of the CE data item. Alternative #2: Allow data type to vary according to the type of the answer.

Decision: Yes. We will use CWE for the answers (OBX-5). OBX-3 remains a CE.

8 – Question: How should multiple specimen/multiple cancer/multiple checklists scenarios be handled in the message?

Discussion: RPP1 did not address the multiple primary issue, but this situation needs to be addressed and RPP2 is the ideal environment. It was suggested that use cases be developed for various multiple specimen and multiple cancer scenarios and come up with a proposed design solution (see Use Cases and Proposed Message Structure for Multiple Synoptic Worksheets in Appendix II).

Decision: RPP2 will support multiple specimen/multiple cancer scenarios. The following is the recommended message structure for several scenarios for multiple checklists for one patient. Each OBR corresponds to a CAP checklist and the ORC corresponds to the specimen. One of the OBR segments could contain the entire text pathology report or portions of the pathology report. [*Messaging Workgroup Meeting on 1/18/06*]

Scenarios:

- One specimen (separately submitted tissue) to two or more cancers with the same primary site
- One specimen (separately submitted tissue) to two or more cancers with different primary sites
- Many specimens (separately submitted tissues) to two or more cancers with the same primary site
- Many specimens (separately submitted tissues) to two or more cancers with different primary sites

- MSH/PID/PV1
  - ORC - Specimen
  - OBR – Part **1** and Worksheet **1** (type)
    - OBX – Heading/Question and Value
      - OBX – " " " "
      - OBX – " " " "
      - OBX – " " " "
  - OBR – Part **1** and Worksheet **2** (type)
    - OBX – Heading/Question and Value
      - OBX – " " " "
      - OBX – " " " "
      - OBX – " " " "
  - OBR – Part **3** and Worksheet **3** (type)
    - OBX – Heading/Question and Value
      - OBX – " " " "
      - OBX – " " " "
      - OBX – " " " "

9 – Question: What shall we do with questions that have potentially repeating answers? (see ADDITIONAL PATHOLOGIC FINDINGS in 11th and 12th OBX in sample message in Appendix I)

Discussion: Two alternatives are proposed: Alternative #1: Send multiple OBX's with redundant OBX-3's. Alternative #2: Send a single OBX-3 with repeating OBX-5 fields.

Decision: We will use Alternative #2. Multi-part (Check all that apply) answers will have one OBX for each answer. For questions of the same concept, a single OBX statement will be used with repeating OBX-5 sub-components (see SNOMED Encoding Issue on Checklists" document in Appendix II**).** [*Messaging Workgroup Meeting on 1/18/06*]

10 - Question: Which version of HL7 will be used for RPP2?

Discussion: The CDC laboratory standard, as well as NAACCR recommendation is HL7 2.3.1; however, the industry is moving to HL7 2.5. In RPP1, Ohio used 2.3.1. UPMC is currently using HL7 2.2.

Decision: We will use HL7 2.3.1 for RPP2 to be consistent with CDC and NAACCR.
[*Messaging Workgroup Meeting on 1/12/05*]

11 – Question: Should the same code for tumor size and specimen size be used?

Discussion: Specimen size - OBX spreadsheet, RPP2 data item #12, #13
Tumor size – OBX spreadsheet, RPP2 data item #58

Decision: No. Suggest using separate code. We have distinct LOINC codes for these now.
[*Messaging Workgroup Meeting on 9/21/05*]

12 – Question: Do we need separate codes for lesion size vs. tumor size?

Discussion: Lesion size - OBX spreadsheet, RPP2 data item #19, Tumor size – OBX spreadsheet, RPP2 data item #58.

Decision: Yes; need separate code. We now have distinct LOINC codes for these. [*Messaging Workgroup Meeting on 9/21/05*]

13– Question: Should we use LOINC and SNOMED codes for RPP2 instead of SNOMED codes only?

Discussion: Reasons for using LOINC codes for question structure:

- Using LOINC for the 'question' codes is a stated direction of the CDC
- This was done for RPP1
- NCVHS has recommended LOINC for this purpose
- LOINC is both free for use internationally, and unified in structure, representation, distribution, and licensure in all jurisdictions throughout the world, thereby easing information sharing as it becomes increasingly apparent that diseases are unaware of political boundaries.
- LOINC has been recommended for use in Claims Attachments and there has so far been no significant pushback to indicate that this will change; that means that when approved, Claims Attachments will require LOINC for this type of clinical detail for Medicare reimbursements.

Reasons for using SNOMED codes for the question structure:

- SNOMED is the vocabulary used by pathologists.
- Vendors (Cerner DHT and IMPAC) expressed a strong preference for using one coding system and avoiding the effort of reconciling two coding systems.
- The SNOMED codes are already available.
- The lead time to obtain LOINC codes for the checklists adds too much time to the project timeline
- Vocabulary experts and management staff in Cancer Surveillance Branch at CDC feel that using the SNOMED codes is reasonable.

Decision: We will use SNOMED/SNOMED. In the unusual situation when a SNOMED CT code does not exist for text data concepts, but a LOINC codes does, we will use the LOINC question code. Ken Gerlach

(CDC–NPCR) discussed this issue and the pros and cons of using SNOMED/SNOMED with vocabulary experts within CDC (Steve Steindel, Ganesan, Sundak, David Dobbs) and in the user community. [*Messaging Workgroup Meeting on 11/9/05*]

Note: We now have LOINC codes for all of the questions.

14 - Question: How will local/state-specific data items be included in RPP2?

Discussion: Each state should include at a minimum, the required and non-required CAP data elements. After that, it is up to the state to determine which local/state-specific data item to include.

Decision: Coded elements will only be used for purposes of RPP2. [*Messaging Workgroup Meeting on 5/3/06*]

Note: For locally coded items, local codes and code system IDs will be used for the CE and CWE data fields. **[***Face-to-Face Meeting #3 on 4/11/06***]**

15 – Question: In those situations with a single cancer pathology report that contains multiple cancers, should each cancer be linked to the respective specimens or parts, and if so, how?

Discussion: The group discussed whether there should be a parts identifier to identify which worksheet is linked to which part. Ted Klein noted that there is a specimen segment in HL7 2.5 if the Registry cared to differentiate between parts. The Registry consensus was that there was no need to differentiate between the parts or slides as they relate to cancer diagnoses. The Registry is looking for one worksheet per cancer. Sub-site information is included within the CAP checklists. In the cancer registry community, operative reports are used in conjunction with pathology reports to reach the final coding decision. OBR-15 was also discussed as a possible location for tissue/part information.

Decision: In the cancer registry domain, there is no use-case need to be able to link a specimen part, block, or slide with the corresponding diagnoses. In the cancer registry community, operative reports are used in conjunction with pathology reports to reach the final coding decision. [Note: HL7 Version 2.5 contains a segment category titled, "Specimen" which would allow the differentiation of different specimen parts.] [*Messaging Workgroup Meeting on 1/18/06*]

16 – Question: In the melanoma of the skin worksheet there is the following section for LESION SIZE:

LESION SIZE *[F-02A22, 246116008] Lesion size (observable entity)*
Greatest dimension: ___ cm *[F-02C74, 396361002] Lesion size, largest dimension (observable entity)*
*Additional dimensions: ___ x ___ cm *[F-02C75, 396362009] Lesion size, additional dimension (observable entity)*
___ Cannot be determined (see Comment) *[F-00586, 396364005] Lesion size cannot be determined (finding)*

Assuming the greatest dimension was filled in with 6 and the additional dimensions were filled in with 2 and 5 respectively, would there be 3 OBX segments to hold this data?

Decision: The "*Additional dimensions: ___ x ___ cm" is optional. See below example.

```
OBX|17|NM|396361002^Lesion size, largest dimension (observable
entity)^SCT^F-02C74^^SCT2||6|CM|||||F
OBX|18|NM|396362009 ^Lesion size, additional dimension (observable entity)^SCT^ F-02C75
^^SCT2||2|CM|||||F
```

```
OBX|19|NM| 396362009 ^Lesion size, additional dimension (observable
entity)^SCT^ F-02C75 ^^SCT2||5|CM|||||F
```

<u>17 – Question</u>: Which location should be used for the Surgical Pathology Number in RPP2, i.e. (PID-3, PV1-19, or an observation in OBX)?

<u>Discussion</u>: OBR-3, which is a filler number, is the location for the surgical path number on the checklist.

<u>Decision</u>: OBR-3 is the location for the surgical path number [*Messaging Workgroup Meeting on 5/3/06*].

<u>18 – Question</u>: What coding system should be used for Units of Measure in OBX-6?

<u>Discussion:</u> The choices are: 1) ANSI (the default if it is not populated, according to HL7), 2) ISO+, or 3) UCUM (being advocated now in the PHIN).

<u>Decision:</u> ISO should be used (which in the HL7 syntax would be "ISO+" from table 396) [*Messaging Workgroup Meeting on 5/3/06*].

<u>19 – Question</u>: Should a question code for Tumor Site be used in the messaging for Prostate biopsy to capture the answer codes that SNOMED added in the front:

[R-0025A, 371480007] Tumor site (observable entity) and [T-92000, 41216001] Prostatic structure (body structure)

<u>Decision:</u> Yes. We will include a question code for Tumor Site in the messaging for Prostate biopsy. [*Messaging Workgroup meeting on 6/28/06*]

<u>20 – Question</u>: On prostate, if we have the following:

EXTRAPROSTATIC EXTENSION (check all that apply) *[R-0049E, 385009003] Status of extraprostatic extension of tumor (observable entity)*
___ Absent *[R-0027E, 372305000] Extraprostatic extension of tumor absent (finding)*
_X_ Present *[R-0027F, 372306004] Extraprostatic extension of tumor present (finding)*
*___ Unifocal *[R-004A3, 385015003] Extraprostatic extension of tumor present, unifocal (finding)*
*_X_ Multifocal *[R-004A4, 385016002] Extraprostatic extension of tumor present, multifocal (finding)*
___ Indeterminate *[F-02BE1, 385017006] Extraprostatic extension of tumor indeterminate (finding)*

Should this be sent in one OBX:

OBX|…|CWE|385009003^Status of extraprostatic extension of tumor (observable entity)^SCT^R-0049E^^SCT2||385016002^Extraprostatic extension of tumor present, multifocal (finding)^SCT^R-004A4^^SCT2|…

Or, should it be sent in two OBX's:

OBX|…|CWE|385009003^Status of extraprostatic extension of tumor (observable entity)^SCT^R-0049E^^SCT2||372306004^Extraprostatic extension of tumor present (finding)^SCT^R-0027F^^SCT2|…

OBX|…|CWE|385009003^Status of extraprostatic extension of tumor (observable entity)^SCT^R-0049E^^SCT2||385016002^Extraprostatic extension of tumor present, multifocal (finding)^SCT^R-004A4^^SCT2|…

Discussion: There are 3 options:

1. single OBX; populate most granular answer
2. two OBX's with everything checked gets an OBX's
3. sub-answer is X, and have repeating OBX's to show both answers

Note: Whatever pattern we decide for this case, use that pattern as one of the business rules for all the similar checklist sections.

Decision: The group agreed to option 2: Two OBX's; everything checked will get an OBX [*Messaging Workgroup Meeting on 6/28/06*]

21 – Question: For any of the primary tumor sections (pT), do we want to permit the grouping of the answers to be transmitted in the message, or only the coded values of the items that can have an 'X' next to them? For example in below melanoma checklist, do we want to permit the transmission of the grouping of the answers (pT3) or the coded values of the answers that can have an 'X' next to them (pT3a or pT3b)?

pT3: Melanoma 2.01 to 4.0 mm in thickness, with or without ulceration *[G-F28C, 396376005] pT3: Melanoma 2.01 to 4.0 mm in thickness, with or without ulceration (melanoma of the skin) (finding)*
___ pT3a: Melanoma 2.01 to 4.0 mm in thickness, no ulceration *[G-F28D, 396377001] pT3a: Melanoma 2.01 to 4.0 mm in thickness, no ulceration (melanoma of the skin) (finding)*
___ pT3b: Melanoma 2.01 to 4.0 mm in thickness, with ulceration *[G-F28E, 396378006] pT3b: Melanoma 2.01 to 4.0 mm in thickness, with ulceration (melanoma of the skin) (finding)*

Discussion: Barry stated that if it's not checkable, then don't want to see it. Ken stated that the CTR's want to see the pT3a, pT3b. Rocky stated that for melanoma should leave it granular, but need to take a look at others on an individual basis to decide.

Decision: The 'pT3' heading is implied as checked if any of the items below it are checked; it cannot be checked by itself. The coded answers for pT3a or pT3b should be transmitted. [*Messaging Workgroup Meeting on 6/28/06*]

22 – Question: Some answers on the checklists do not have SNOMED CT codes. See "Specify locations(s), if possible: _____" in the below example from the Melanoma Checklist. How should these situations be handled in the message?

Lateral Margins *[R-0058A, 396509003] Status of surgical lateral margin involvement by tumor (observable entity)*
___ Cannot be assessed *[R-004BB, 399385006] Surgical lateral margin involvement by melanoma cannot be assessed (finding)*
___ Uninvolved by invasive melanoma *[R-0058D, 396512000] Surgical lateral margin uninvolved by malignant melanoma (finding)*
Distance of invasive melanoma from closest lateral margin: ___ mm *[R-00590, 396515003] Distance of malignant melanoma from closest lateral margin (observable entity)*
Specify location(s), if possible: ____*not coded*
___ Involved by invasive melanoma *[R-0058E, 396513005] Surgical lateral margin involved by malignant melanoma (finding)*
Specify location(s), if possible: ____*not coded*

___ Uninvolved by melanoma in situ *[R-00556, 396399009] Surgical lateral margin uninvolved by in situ melanoma (finding)*

Distance of melanoma in situ from closest margin: ___ mm *[R-0058C, 396511007] Distance of in situ melanoma from closest lateral margin (observable entity)*

Specify location(s), if possible: ____ *not coded*

___ Involved by melanoma in situ *[R-00557, 396400002] Surgical lateral margin involved by in situ melanoma (finding)*

Specify location(s), if possible: ____*not coded*

Discussion: There is no SNOMED code to identify the question; can use either the 1) LOINC, or 2) local codes. The cancer registry prefers to ignore data that they don't understand; throw away the non-coded answers and document supplemental answer as string. The CAP Committee wants to leave this as a mandatory item, and would be opposed to leaving it out. They would like the RPP2 group to come up with a way of handling this issue.

Decision: We will use temporary codes for the first field and leave it blank for the second field. **[***Messaging Workgroup Meeting on 9/27/06***]**

23. Question: In the Breast checklist, at the very end, we have:

*ADDITIONAL PATHOLOGIC FINDINGS *[R-0025E, 371498006] Additional pathologic finding in tumor specimen (observable entity)*

Is this a valid Breast question with an uncoded (text string) answer?

Decision: Yes. This is just text write-in. **[***Messaging Workgroup Meeting on 6/28/06***]**

24. Question: We agreed that OBR-4 needs to be an explicit code that broadly identifies the set of data as a cancer checklist, or perhaps even as specific as the type of checklist; OBR-20 has the checklist identifier itself precisely though. Should a LOINC code be used?

Discussion: There is a code 22034-3 PATHOLOGY REPORT.TOTAL, but I believe this is used for (and it should be) the entire report - the text report, not the coded checklist thing. If we were doing nesting, then this would label the whole message, with one OBR being the CAP checklist synoptic data, and another being the text report or NAACCR message, etc.

Decision: If checklist ID is in OBR-20, then use the LOINC code for NAACCR for surgical path report (11529-5). **[***Messaging Workgroup Meeting on 8/9/06***]**

25. Question: How should the values for Namespace ID and things like filler order number, etc. be standardized in table 0300 for the project participant senders? In the CoPath test message, there is "CoPathPlus".

Discussion: How are other pathology labs handling this? Suggest putting it in local.
Two options: 1) leave it blank, or 2) have it and work with sending vendors on how they want to populate the fields.

Decision: The group agreed on option #2: have it and allow the vendors to determine how they want to populate the Namespace ID fields.**[***Messaging Workgroup Meeting on 8/9/06***]**

26. Question: How should we populate race coding system?

Discussion: Historically, HL7 v2 messages used the single-character Race codes:
B - Black/African-American
H - Hispanic or Latino
A - Asian or Pacific Islander
W - White or Caucasian

The CDC proposed two years ago, and HL7 accepted, a new Race code standard that is coordinated with other national bodies and the new Census codes (recommended). These are:
1002-5 American Indian or Alaska Native
2028-9 Asian
2054-5 Black or African American
2076-8 Native Hawaiian or Other Pacific Islander
2106-3 White
2131-1 Other Race

Note: 2135-2 Hispanic or Latino is missing from this list; there is a flag in PID-22 Ethnic Group indicating Hispanic/non-Hispanic that is used in v2.x The name of this code system is PH_RaceAndEthnicity_CDC.

Linda Coles stated that their users can build in as they see fit, so may not be 'Required'. What are vendors using? Vendors are using single characters. Richard Moldwin asked if the group wants to consider SNOMED race codes; NAACCR seems limited. Ken proposed that for RPP2, use single character; send out current codes in NAACCR Vol. 5 and see if it is possible to use. Linda and Steve will take a look at it and readdress at next meeting.

Decision: The group agreed to use the HL7 standard/PHIN standard for race and do a mapping table to map from single characters to numeric codes. **[***Messaging Workgroup Meeting on 9/27/06***]**

27. Question: There is an HL7 table, 297, which has the namespace IDs for the doctors, technicians, result interpreters, etc. We don't have values for that currently. It is a required field if the ID number is included, which we said was required (the physician ID). Do we want to either relax this or define a set of namespace IDs?

Decision: We will use local path codes. The receivers will know these are local codes. This will be documented in the Implementation Guide. **[***Messaging Workgroup Meeting on 9/27/06***]**

28 – Question: Pathology data on a single specimen, reported in a single ORC segment, may contain multiple primaries. Checklist data on each of the multiple primaries is contained under a unique OBR segment. Some of the fields in the OBR segment are of particular interest to cancer registration e.g. OBR-7 (Path-Date Spec Collection), OBR-16 (Path Ordering Client/Phys), OBR-17 (Path Ordering Client/Phys Phone), and OBR-21 (Path Lab phone number). Should the information in these fields be repeated in each of the OBR segments or only in the first OBR segment?

Answer: Yes, the information in those fields should be identical and repeated in each of the OBR segments.

Appendix B - Sample OBR/OBX HL7 messages
Sets for Prostate Gland, Enucleation Specimen

OBR|1||SMS0204989|SURG^Surgical
Pathology|||200507290000||||||200207290000|^Prostate|00289^Physician^Ordering^^^^MD||||||||F||||||28901
^Interpreter^Result^^^^MD||||||||||R-1014C^Prostate NDL,TUR,ES^SNM|

OBX|1|CE|R-00254^Specimen Type^SNM||G-83D5^Enucleation^SNM|||||F|
OBX|2|NM|R-00256^Weight^SNM||40|g^Gram^ISO+||||F|
OBX|3|CE|R-00257^HISTOLOGIC TYPE ^SNM||M81403^Adenocarcinoma^SNM|||||F|
OBX|4|CE|R-00496^Primary Pattern ^SNM||G-F603^Grade 3^SNM|||||F|
OBX|5|CE|R-00497^Secondary Pattern ^SNM||G-F604^Grade 4^SNM|||||F|
OBX|6|NM|R-00499^Total Gleason Score^SNM||7|||||F|
OBX|7|NM|R-004A2^TUMOR QUANTITATION: ENUCLEATION SPECIMENS
^SNM||75|%^Percent^ISO+||||F|
OBX|8|NM|R-003ED^Greatest dimension^SNM||2|cm^Centimeter^ISO+||||F|
OBX|9|SN|R-003EE^Additional dimensions^SNM||^1^x^1|cm^Centimeter^ISO+||||F|
OBX|10|CE|R-0026D^PERINEURAL INVASION ^SNM||G-F538^Present^SNM|||||F|
OBX|11|CE|R-0025E^ADDITIONAL PATHOLOGIC FINDINGS ^SNM||M-81482^High-grade
PIN^SNM|||||F|
OBX|12|CE|R-0025E^ADDITIONAL PATHOLOGIC FINDINGS ^SNM||^Other: This is text of other
findings^|||||F|
OBX|13|CE|R-00285^PERIPROSTATIC FAT INVASION
^SNM||R-00291^present^SNM|||||F|
OBX|14|CE|G-F7BB^SEMINAL VESICLE INVASION ^SNM||F-02BDE^not
identified^SNM|||||F|
OBX|15|CE|R-00404^LYMPHATIC (SMALL VESSEL) INVASION (L)
^SNM||G-F225^indeterminate ^SNM|||||F|
OBX|16|ST|R-101EE^COMMENT(S) ^SNM||Free text as entered by Diagnostician
|||||F|

Ib. Sample OBR/OBX HL7 message for Prostatectomy

MSH|^~\&|UPMC_LAB1^www.upmc.edu^DNS|UPMC_PATH^CLIA-
NUMBER^CLIA|PA_CAREG|PA|200606061726||ORU^R01^ORU_R01|750D1-F-
BFA4AC8D6FE|P^T|2.3.1|||AL||US

PID|1||658B44MR4^^^COH_ADT01&www.upmc.edu&DNS^MR^UPMC1||Beebleproxter^Zaphod^Q^JR
^Mr.^AS^L|Blue^Meg^A^^^MBA^A~Bluebinghoefer^Margaretta^^^Mrs.^MBA^L|99999999|M||B^Afric
an American^HL70005^2054-5^Black or African-American^PH_RaceAndEthnicity_CDC|17 Some
Rd.^APT
10^Harrisburgh^PA^99999^USA^M^^30007^C00001||^PRN^PH^patient@home.com^1^412^5551212^77
34^call if necessary||ENG^English^ISO0639|D^Divorced^HL70002||||||N^Not Hispanic or
Latino^HL70189|Somewhere here or there||||||200606041132|Y

PV1|1|O|H^3E^A^UPMC1^^H^CP^8^Penthouse suite, keep them comfortable so they pay their
bill|R|||A13456^AttendingMD^Bad^Boy^^DR^MD^UPMCDOCS^HHS^L^^^UPIN^UPMC1|^ReferringM
D^UNKNOWN^W^III^Dr.^MD^^^L|B45123^ConsultingMD^Myrna^Marie^^Dr.^MD^UPMCDOCS^H
HS^L^^^UPIN^UPMC1&UNIVERSALFACILITYOID&ISO||||||||A68453^AdmittingMD^Robert^Q^III^D
R^MD^UPMCDOCS^HHS^L^^^^UPMC1|A|97810430^^^UPMC_ADT01^VN^UPMCFACS|H03^20060
217||||||||||||||||5||||||||200606011530|200606041115

ORC|RE|3466543^UPMC_POE||||||200606041437|B74954^Accessioner^PAMELA^M^Esq.^^MT^UPMC DOCS^HHS^L^^^UPIN^UPMC1||||||||||UPMC Cancer Pavilion^L|STREET ADDRESS 1^SUITE #^PITTSBURGH^PA^99999^^B|^WPN^PH^^^412^5551212^12345|17 Some Other Rd.^^UNKNOWN^ZZ^99999^^O

OBR|1|3466543^UPMC_POE|2345T-24563U4567^UPMC_PATH^CLIA-NUMBER^CLIA|11529-5^STUDY REPORT:FIND:PT:PATIENT:DOC:SURGICAL PATHOLOGY^LN|||200606031435||||||200606030900|PAT&Patient&HL70070^formalin|A68453^SurgeonMD^UNKNOWN^W^JR^DR^MD^UPMCDOCS^HHS^L^^^UPIN^UPMC1|^ASN^PH^DocSurgeon@upmc.edu^1^999^5551234^12345^call if necessary|||406077007&College of American Pathologists Cancer Checklist; Prostate Gland: Radical Prostatectomy (record artifact)&SCT&R-1014D&&SCT2^&&&&&&&&April 26, 2006 release||200606031724|||F|||||||G46396&InterpretingMD&UNKNOWN&Q&JR&DR&MD&UPMCDOCS&UPMC_LAB1^200606030835^200606030912^^3W^B^UPMC_LAB1^^H^LAB^1|3546346&AsstInterpretingMD&UNKNOWN&Q&III&DR&MD&UPMCDOCS&UPMC_LAB1^2006030835^2006030912^^3W^B^UPMC_LAB1^^H^LAB^1|3546346&Technician&UNKNOWN&Q&III&DR&MT&UPMCDOCS&UPMC_LAB1^200606031045^200606031115^^3E^A^UPMC_LAB1^^H^LAB^B|||||||||26294005^Radical prostatectomy (procedure)^SCT^P1-78324^^SCT2|D^Performed post patient expiry^HL70340

OBX|1|CWE|371441004^Histologic type (observable entity)^SCT^R-00257^^SCT2||35917007^Adenocarcinoma, no subtype (morphologic abnormality)^SCT^M-81403^^SCT2^^^Adenocarcinoma (conventional, not otherwise specified)||||||F

OBX|2|CWE|371441004^Histologic type (observable entity)^SCT^R-00257^^SCT2||82711006^Infiltrating duct carcinoma (morphologic abnormality^SCT^M-85003^^SCT2^^^ Prostatic duct adenocarcinoma||||||F

OBX|3|CWE|384994009^Primary Gleason pattern (observable entity)^SCT^R-00496^^SCT2||369773008^Gleason Pattern 4 (finding)^SCT^G-F604^^SCT2^^^Grade 4||||||F

OBX|4|CWE|384995005^Secondary Gleason pattern (observable entity)^SCT^R-00497^^SCT2||369774002^Gleason Pattern 5 (finding)^SCT^G-F605^^SCT2^^^Grade 5||||||F

OBX|5|CWE|385002007^Tertiary Gleason pattern (observable entity)^SCT^R-0049A^^SCT2||369773008^Gleason Pattern 3 (finding)^SCT^G-F603^^SCT2^^^Grade 3||||||F

OBX|6|CWE|385002007^Tertiary Gleason pattern (observable entity)^SCT^R-0049A^^SCT2||369773008^Gleason Pattern 4 (finding)^SCT^G-F604^^SCT2^^^Grade 4||||||F

OBX|7|NM|384997002^Total Gleason score (observable entity)^SCT^R-00499^^SCT2||9||||||F

OBX|8|NM|372279008^Percentage of prostatic tissue involved by carcinoma (observable entity)^SCT^R-00293^^SCT2||30|%^^ISO+|||||F

OBX|9|NM|385398005^Tumor size, dominant nodule, greatest dimension (observable entity)^SCT^R-003ED ^^SCT2|4|2.5|cm^^ISO+|||||F

OBX|10|CWE|384625004^pT category (observable entity)^SCT^R-00415^^SCT2||384988001^pT3a: Extraprostatic extension (prostate) (finding)^SCT^R-00495^^SCT2^^^pT3a: Extraprostatic extension||||||F

OBX|11|CWE|371494008^pN category (observable entity)^SCT^R-0026B^^SCT2||21917009^pN0 category (finding)^SCT^G-F190^^SCT2^^^pN0: No regional lymph node metastasis||||||F

OBX|12|NM|372309006^Number of regional lymph nodes examined (observable entity)^SCT^R-002AA^^SCT2||12||||||F

OBX|13|NM|372308003^Number of regional lymph nodes involved (observable entity)^SCT^R-002AB^^SCT2||0||||||F

OBX|14|CWE|371497001^pM category (observable entity)^SCT^R-00269^^SCT2||17076002^pMX stage (finding)^SCT^G-F205^^SCT2^^^pMX: Distant metastasis cannot be assessed||||||F

OBX|15|CWE|384689007^Surgical margin involved by malignant neoplasm (finding)^SCT^G-8DA8^^SCT2||384696009^Surgical margin involved by malignant neoplasm, unifocal (finding)^SCT^R-00425^^SCT2^^^Unifocal||||||F

OBX|16|CWE|384689007^Surgical margin involved by malignant neoplasm (finding)^SCT^G-8DA8^^SCT2||385006005^Surgical posterior margin involved by malignant neoplasm (finding)^SCT^R-0049C^^SCT2^^^ Posterior||||||F

OBX|17|CWE|385009003^Status of extraprostatic extension of tumor (observable entity)^SCT^R-0049E^^SCT2||372306004^Extraprostatic extension of tumor present (finding)^SCT^R-0027F^^SCT2^^^Present||||||F

OBX|18|CWE|385009003^Status of extraprostatic extension of tumor (observable entity)^SCT^R-0049E^^SCT2||385016002^Extraprostatic extension of tumor present, multifocal (finding)^SCT^R-004A ^^SCT2^^^Present||||||F

OBX|19|CWE|384999004^Status of seminal vesicle invasion by tumor (observable entity)^SCT^G-F7BB^^SCT2||372293001^Seminal vesicle invasion by tumor absent (finding)^SCT^R-0028F^^SCT2^^^Absent||||||F

OBX|20|CWE|371513001^Status of perineural invasion by tumor (observable entity)^SCT^R-0026D^^SCT2||369731000^Perineural invasion by tumor present (finding)^SCT^G-F538^^SCT2^^^Present||||||F

OBX|21|CWE|371493002^Status of venous (large vessel) invasion by tumor (observable entity)^SCT^R-00270^^SCT2||40223008^V0 stage (finding)^SCT^G-F230^^SCT2^^^Absent||||||F

OBX|22|CWE|395715009^Status of lymphatic (small vessel) invasion by tumor (observable entity)^SCT^R-00404^^SCT2||44649003^L0 stage (finding)^SCT^G-F220^^SCT2^^^Absent||||||F

OBX|23|CWE|371498006^Additional pathologic finding in tumor specimen (observable entity)^SCT^R-0025E ^^SCT2||128640002^Glandular intraepithelial neoplasia, grade III (morphologic abnormality)^SCT^M-81482^^SCT2^^^High-grade prostatic intraepithelial neoplasia (PIN)||||||F

OBX|24|CWE|371498006^Additional pathologic finding in tumor specimen (observable entity)^SCT^R-0025E ^^SCT2||9713002^Prostatitis (disorder)^SCT^D7-51010^^SCT2^^^Inflammation||||||F

OBX|25|CWE|371498006^Additional pathologic finding in tumor specimen (observable entity)^SCT^R-0025E ^^SCT2||2665690092^Benign prostatic hyperplasia (disorder)^SCT^D7-F0479^^SCT2^^^Benign prostatic hyperplasia ||||||F

Appendix C - Multiple Synoptic Worksheets

Use Cases and Proposed Message Structure (revised 1/17/06)

This document is intended to clarify clinical rationale for use of multiple synoptic checklists, or "worksheets" within a single surgical pathology report, and to provide guidelines for design of the HL7 message structure to discretely transmit these data. Following information and analysis were compiled from submissions by Tami M. Abell, IMPAC Medical Systems; Rocky Ackroyd, Maine Medical Center; Anthony L. Piccoli, UPMC; and Jeff West, IMPAC Medical Systems.

I. Use Case Scenarios

Several use case examples provided are summarized in the following table, with reference to more detailed information below. The organizational terminology used is from the CoPathPlus LIS, used by two of three state participants in RPP2, UPMC(PA) and City of Hope (CA), while IMPAC PowerPath LIS is used by Maine Medical Center and Dahl Chase. The terminology in the products translates as follows:

- single surgical accession = CoPath "specimen" = IMPAC "case"
- single tissue sample/resection submitted = CoPath "part" = IMPAC "specimen"
- CAP checklist = CoPath "synoptic worksheet" = IMPAC "case synoptic worksheet"

SURGICAL PATH SCENARIO	PART : WORKSHEET	REFERENCE
A. Lobectomy of lung with two primary ca's > lung worksheet for each tumor	1 Part : 2 Worksheets, same	Example #1 (RA)
B. Cystoprostatectomy with primary neoplasms in bladder and prostate > bladder and prostate worksheets	1 Part : 2 worksheets, different	Scenario #1 (TA)
C. Bilateral mod radical mastectomy with primary tumors in left(Pt A) and right(Pt B) breast > breast worksheet on each part	2 Parts : 2 Worksheets, same	Example #2 (RA)
D. Bladder(Pt 1) and colon(Pt 2) resections separately submitted, each with primary ca > bladder and colon worksheets on distinct parts	2 Parts : 2 Worksheets, different	N/A

The likelihood of scenario D is much more remote than for A thru C, but there's agreement among the group that it's certainly feasible given current surgical practice. These examples are essentially consistent with the following synoptic data model provided by JW, allowing for the translation of terms per above:

- Case
  - Specimen (1 to n)
    - Worksheet (1 to n)
      - CAP heading (1-2)
        - CAP Result/response (1 to n)
      - CAP heading 2

        - CAP Result/response (1 to n)
    - Worksheet 2 (etc)
        - CAP heading (1-2)
            - CAP result/response (1 to n)
- Specimen2
    - Worksheet
        - CAP heading
            - CAP result/response

II. Proposals for HL7 Message Structure

The use of multiple synoptic worksheets shown above results in availability of multiple synoptic data sets at the point of message generation and transmission. Several proposals for mapping this structure to an HL7 message were previously discussed by the RPP2 messaging workgroup. The resulting "best case" calls for incorporation of the data sets into a single message, with the different synoptic data sets or elements represented by discrete sequences of OBX values.

As design of message specification progressed, the following details relating to multiple worksheet structure have been determined or agreed upon:

(a) the ORC segment is associated with the specimen[IMPAC = case] level of the surgical path report, including specimen number, accession date, et al
(b) the OBR segment will include identification of the synoptic worksheet or CAP protocol type[OBR:20, :21, or :44(?)]

It's also noted that HL7 implementation for surgical pathology reporting does not typically include transmission of discrete data for all parts of a specimen. For example, at UPMC, OBR:15 is used to transmit a "code"[abbreviation] for the first part on a case only. This suggests that message structure for part-linked synoptic elements may exclude parts without synoptic data.

So, given that only OBR and OBX segments are repeated for each worksheet and incorporating other guidelines above, the following structure is proposed:

- MSH/PID/PV1
    - ORC - Specimen
        - OBR – Part **1** and Worksheet **1** (type)
            - OBX – Heading/Question and Value
                - OBX – " " " "
                - OBX – " " " "
                - OBX – " " " "
        - OBR – Part **1** and Worksheet **2** (type)
            - OBX – Heading/Question and Value
                - OBX – " " " "
                - OBX – " " " "
                - OBX – " " " "
        - OBR – Part **3** and Worksheet **3** (type)
            - OBX – Heading/Question and Value
                - OBX – " " " "
                - OBX – " " " "
                - OBX – " " " "

III. Detailed References for Use Case Scenarios

Example #1: Single accession, 2 cancers in the same part.
[R. Ackroyd, 11/15/05]

Single Accession
Single Part
Two separate tumors in the same part

Below is an example of a lung that had two separate cancers in the same specimen (a small cell carcinoma and an adenocarcinoma). There are two synoptic reports included for this case.

(This scenario may also occur with a cystoprostatectomy where usually the bladder is removed for a primary cancer and subsequently a primary prostate cancer is also discovered when reviewing the entire case. Two synoptic reports will be necessary for this type of case)

SPECIMEN: A. LT APICAL NODULE Client: ASU
B. LYMPH NODE, 10 L
C. LYMPH NODE, LEVEL 5
D. LYMPH NODE, 10 L
E. LUNG, RESECTION - LEFT UPPER LOBE

FINAL DIAGNOSIS:

(A-E) LUNG, LEFT UPPER LOBE WITH LYMPH NODE DISSECTION: TWO SEPARATE CARCINOMAS OF THE LUNG (SEE BELOW).

CARCINOMA NO. 1 (APICAL TUMOR):

Histologic cell type: Small cell carcinoma.
Histologic grade: Not applicable.
Size: 1.6 x 1.5 x 1.2 cm.
Satellite tumor nodules: Not identified.
Extent of invasion:

- Bronchial origin demonstrable: No, tumor is peripheral.
- Mainstem bronchial invasion: Absent.
- Lobar bronchial invasion: Absent.
- Invasion across lobar fissure: No.
- Visceral pleura: Negative for tumor.
- Parietal pleura involvement: Negative for tumor.

Vascular invasion: Absent.
Lymphatic invasion: Absent.
Perineural invasion: Absent.
Surgical margins: All resection margins are negative for small cell carcinoma.

CARCINOMA NO. 2 (PROXIMAL/HILAR TUMOR):

Histologic cell type: Adenosquamous carcinoma.
Histologic grade: III.
Size: 3.5 x 3.0 x 3.0 cm.
Satellite tumor nodules: Absent.

Extent of invasion:

Bronchial origin demonstrable: Yes.
Mainstem bronchial invasion: Absent.
Lobar bronchial invasion: Present.
Invasion across lobar fissure: Absent.
Visceral pleura: Tumor invades through visceral pleura into mediastinal soft tissue.
Parietal pleura involvement: Absent.
Involved by tumor: Not identified.

Lymphatic invasion: Not identified.
Perineural invasion: Absent.
Surgical margins: All resection margins negative for adenocarcinoma.
AJCC lymph node stations:

- ATS Level 5: One lymph node negative for tumor (0/1).
- ATS 10L: Three lymph nodes negative for tumor (0/3).
- ATS 11: One out of four lymph nodes positive for tumor by direct invasion (see comment) (1/4).
- ATS Level 12: Four lymph nodes negative for tumor (0/4).

Pathology TNM stage (based on present surgical material): Small cell carcinoma is pT1, N0, MX. Adenocarcinoma is pT3, N1, MX.

Other findings or comments: The patient has two separate tumors. The first lesion is a 1.6 cm apical mass which is a small cell carcinoma histologically. The second tumor is a proximal, bronchogenic lesion which is a poorly differentiated adenocarcinoma with squamous differentiation, 3.5 cm in greatest dimension. The proximal adenocarcinoma invades through the pleura into the adjacent mediastinal soft tissue focally and also invades a directly adjacent Level 11 lymph node.

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Scenario #1

[T. Abell, 11/15/05]

Single Surgical Event – Prostate Resection
Single Accession or Case #
Single Specimen/Part submitted for this case/accession
Two primary tumors are identified – [1] prostate [1] bladder

A1. A <u>bladder</u> primary tumor is identified
A2. User attaches a bladder CAP worksheet to the case
A3. User links the bladder CAP worksheet to specimen/part
A4. A <u>prostate</u> primary tumor is identified
A5. User attaches a prostate CAP worksheet to the case
A6. User links the prostate CAP worksheet to the specimen/part

<u>Success scenario for case worksheet attachments:</u>

a) The case/accession has two worksheets attached
b) Specimen/part #1 has two worksheets linked– [1] bladder [1 prostate
2 sets of worksheet of synoptic data elements are transmitted to the Registry.

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<u>Example #2: Single Accession with two separate parts (each with it's own cancer)</u>
[R. Ackroyd, 11/15/05]

Bilateral mastectomy or bilateral lumpectomy.

Single accession
Two separate parts, each with its own cancer.

To complicate this even more, each breast from this case has two masses and each mass is given it own TNM classification – so for this case there are two synoptic reports and four TNM scores.

SPECIMEN: A. BREAST, MODIFIED MASTECTOMY, LT
B. BREAST, MODIFIED MASTECTOMY, RT
C. LYMPH NODE, APICAL

FINAL DIAGNOSIS:

(A) BREAST, LEFT, MODIFIED MASTECTOMY WITH AXILLARY LYMPH NODE DISSECTION: TWO SEPARATE FOCI OF INFILTRATING DUCTAL CARCINOMA.
Tumor locations: Upper outer quadrant; upper inner quadrant.
Maximal tumor diameters: 4.5 cm; 1.4 cm.
Histologic grades (Nottingham System): I, I.
Tubule score: 3;1
Nuclear score: 1;1
Mitotic score: 1;1 (one MF per each per 10 HPF; HPF area 0.23 mm^2).
Angiolymphatic invasion: Absent.
Intraductal component: No significant intraductal component associated with the first described infiltrating ductal carcinoma. Minor component of ductal carcinoma in-situ, low nuclear grade, micropapillary pattern is present in association with the second lesion.
Resection margins: Negative for tumor; infiltrating tumor from the first and larger breast carcinoma is present within the skeletal muscle of the chest wall(pT4) and comes to within less than 1 mm of the inked deep margin.
Nipple involvement: Absent.
Skin involvement: Absent.
Tumor multicentricity: Present (invasive).
Non-neoplastic breast: Proliferative fibrocystic changes with atypia.
Axillary lymph nodes: Seven lymph nodes negative for metastatic carcinoma (0/7).
TNM classification (based on available surgical material): pT4, pN0, MX.
PT1C, pN0, MX.
Tumor submitted for estrogen/progesterone receptors by immunohistochemical method:
Larger tumor:
Estrogen receptor: Positive
Progesterone receptor: Weak positive (1-10% cells).
Smaller tumor:
Estrogen receptor: Positive
Progesterone receptor : Positive.
Her-2/Neu Assay Results (Formalin-Fixed Paraffin Tissue Sections):
Antibody (manufacturer): 4B1 (Ventana Medical Systems):
Larger tumor: Weak positive (2+). This tumor will be referred for FISH analysis.
Smaller tumor: Negative (1+).
Comments: Two separate and distinct foci of infiltrating ductal carcinoma are identified within this left breast. Histologically they appear different with more distinct tubule formation within the second smaller tumor than present in the larger tumor. The larger tumor invades into the deep skeletal muscle of the chest wall(pT4)and comes extremely close to the deep margin. The second smaller tumor is 3.5 cm from the nearest deep margin.

(B) RIGHT BREAST, MODIFIED MASTECTOMY AND AXILLARY DISSECTION: TWO SEPARATE FOCI OF INFILTRATING DUCTAL CARCINOMA WITH METASTASIS IN ONE AXILLARY LYMPH NODE.
Tumor locations: Upper inner quadrant; upper outer quadrant.
Maximal tumor diameters: 2.1 cm; 1.5 cm.
Histologic grades (Nottingham System): II; I.
Tubule score: 3;2.
Nuclear score: 2;2.
Mitotic score: 1;1 (both show 2 mitotic figures per 10 HPF; HPF area 0.23^2 mm.
Angiolymphatic invasion: Absent.
Intraductal component: Minor ductal carcinoma in-situ, low grade cribriform and micropapillary patterns without necrosis.
Resection margins: Negative. Both tumors are greater than 1 cm from the deep margin. Intraductal tumor is also present greater than 1 cm from the inked margin.
Nipple involvement: Absent.
Skin involvement: Absent.
Tumor multicentricity: Present (invasive).
Non-neoplastic breast: Proliferative fibrocystic changes with atypia.
Axillary lymph nodes: One of seven contains metastatic carcinoma (1/7). The metastasis seen here is a micrometastasis (less than 2 mm). No extra capsular extension is present.
TNM classification (based on available surgical material): pT2, pN1mi, MX.
pT1C, pN1mi, MX.
Tumor submitted for estrogen/progesterone receptors by immunohistochemical method:
Larger tumor:
Estrogen receptor: Positive.
Progesterone receptor: Positive.
Smaller tumor:
Estrogen receptor: Positive.
Progesterone receptor: Positive.

Her-2/Neu Assay Results (Formalin-Fixed Paraffin Tissue Sections):
Antibody (manufacturer): 4B1 (Ventana Medical Systems):
Larger tumor is Her-2/neu negative (0+).
Smaller tumor is Her-2/neu negative (0+).
Comments: Two additional separate foci of infiltrating ductal carcinoma are identified within the upper inner quadrant and the upper outer quadrant. These are located 10 cm from each other although somewhat histologically similar; the larger tumor appears to show a more solid growth pattern. The metastasis identified within the axillary lymph node is identified on H&E stains and is scattered in multiple small foci within the lymph node sinus, measuring less than 2 mm in greatest dimension.

(C) APICAL AXILLARY LYMPH NODE: ONE LYMPH NODE NEGATIVE FOR METASTATIC CARCINOMA (0/1).