NAACCR Standards for Cancer Registries, Laboratory Electronic Pathology Reporting Guidelines, Version 5.1

Appendix E. Samples, Examples, and FAQs

This appendix contains a collection of examples that illustrate the use of the encoding described in Volume V. There are examples of narrative and synoptic reports following a simple use case, as well as examples that illustrate some of the very complex Use Cases that occasionally arise in cancer pathology reporting. Each example is laid out showing the report as it might appear printed or on the screen, followed by the Health Level Seven (HL7) message that carries the example report to the registry. Finally, there are questions and answers that refer to specific items that may be challenging to determine how to encode, shown in that example. At the end of this section, there are a set of general Frequently Asked Questions about implementing the HL7 messages as per Volume V specifications.

Note that in all example HL7 messages below, the segment endings are explicitly marked in the document with the four-character string "<CR>". These four characters are NOT part of the message content, and are present here only to aid readability, as some segments wrap across multiple print lines in this document. If these messages are used verbatim in testing software, these four characters "<CR>" will cause conformance validation errors if not removed before processing. They are here only for human readability of the example messages.

E.1 Narrative Report examples

E.1.1 Simplest Narrative Report

The following example shows a very simple HL7 cancer registry message containing a single pathology report, transmitted only as narrative text. This example shows the simplest format, where there are no sections of the report, just continuous running text. Note that although this represents the simplest possible encoding of a report from the viewpoint of the sending system, it consequently burdens the cancer registry with a very difficult task of extracting information from the transcription text. For this reason, this simplest format is discouraged.

E.1.1.1 Example: Simplest

- **MSH**|^~\&||INDEPENDENT LAB SERVICES^33D1234567^CLIA|||200506021339||ORU^R01^ORU_R01|20050602 13390045|P|2.5.1||||||||VOL_V_51_ORU_R01^NAACCR_CP<CR>
- PID|1||00466144^^^Albany Medical Center&123465&NPI^MR^Albany Medical Center~123456789^^^
 USSSA^SS^USSSA ||Cane^Candy||19570706|F||2106- 3^White^HL70005|495 East Overshoot Driv
 e^^Delmar^NY^12054^^H|||||M<CR>
- **ORC** |RE || || || || || || || || || || Albany Medical Center |43 New Scotland Ave.^^Albany^NY^12208 || 43 New Scotland Ave.^^Albany^NY^12208 < CR >
- **OBR**|1||06-123456-MH|22049-1^**Flow Cytometry Analysis**^LN||200505021212|||||20050531113 0|^Bone marrow|^B.J.^Healing^^^M.D.|2033271605||||200505311332|||F||||||109772&PATHO LOGIST&QUINCY&&&Dr.&MD&&NPI<CR>
- **OBX** |1|TX|22633-2^**nature of specimen**^LN|1|**Bone marrow.**|||N|||F|||200505021212|33D1234567^ Independent Lab Services^CLIA<CR>
- OBX |2|TX|22636-5^clinical history^LN|1|Evaluate for non-Hodgkin's lymphoma:ALL: myelodysp lastic syndromes: chronic Lymphoproliferative disorders, CLL. Prior therapy: chemothera py, Fludarabine more than one month ago. CBC report received.|||N|||F|||200505021212|33D 1234567^Independent Lab Services^CLIA<CR>
- OBX|3|TX|22638-1^comments^LN|1|Correlation with a comprehensive bone marrow morphology exa mination, CBC data/blood smear, and other relevant clincial and laboratory data is recomme nded.||N||F||200505021212|33D1234567^Independent Lab Services^CLIA<CR>
- **OBX** |4 |TX | 22637-3^**final diagnosis**^LN |1 | A small population of monoclonal B-cells (Kappa) is p

resent in the bone marrow. The antigenic profile is consistent with chronic lymphocytic le ukemia/small lymphocytic lymphoma (CLL/SLL).||N||F||200505021212|33D1234567^Indepe ndent Lab Services^CLIA<CR>

- OBX|5|TX|22049-1^phenotype^LN|1|1. A monoclonal kappa B-cell population co- expressing CD5
 and CD23 is present. 2. -92% maturing myeloid elements are present.||N||F||20050502121
 2|33D1234567^Independent Lab Services^CLIA<CR>
- **SPM**|1|^06-123456-MH-1&ILSPCID||TISS^**Tissue**^HL70487||||||||||||||||200505021212|2005050312 00||||||||||||0704500123^^33D1234567&INDEPENDENT LAB SERVICES<CR>

E.1.2 Simple Narrative Report with Sections

The anatomic pathology report example below is a typical simple report whose content is to be transmitted from a laboratory or hospital to a cancer registry.

Report as it might appear printed or on a display:

Report Identification		Patient Information				
Facility ID: 33D1234567		Chart/MRN:	00466144	Address	495 East Overshoot Drive	
Requision ID	7654098	1				
Accession ID:	97 810430	SSN/SIN:	123456789			
Specimen ID	3567829					
Report Date:	2004-07-28	Surname:	CANE	City/Town:	Delmar	
Report Type:	Final	Given Name:	CANDY	State/Prov:	NY	
Requester ID:	594110NY	Sex:	F	Zip/Post Code:	12054	
Requester:	CARING, CAREN M.D. Albany Medical Center, 43 New Scotland Ave. NY, Albany 12208	Date of Birth:	1957-07-06	Country:		
Procedure Date:	2004-07-20	Age:	47 (at procedure date)			
Surgeon ID:	123456	Insurer:	USHC			
Surgeon:	MYELOMUS, JOHN	Insurance No:	3270686987			
Pathologist ID:	109771	Race:	White			
Pathologist:	GLANCE, JUSTIN	Ethnicity:				

PATHOLOGY REPORT

Clinical Dx/ Comment	Carcinoma of breast. Post operative diagnosis: same.
Clinical History	47-year-old white female with (L) UOQ breast mass
Tissue Submitted	left breast biopsy apical axillary tissue contents of left radical mastectomy
Gross Pathology	Part #1 is labeled "left breast biopsy" and is received fresh after frozen section preparation. It consists of a single firm nodule measuring 3 cm in circular diameter and 1.5 cm in thickness surrounded by adherent fibrofatty tissue. On section a pale gray, slightly mottled appearance is revealed. Numerous sections are submitted for permanent processing. Part #2 is labeled "apical left axillary tissue" and is received fresh. It consists of two amorphous fibrofatty tissue masses without grossly discernible lymph nodes therein. Both pieces are rendered into numerous sections and submitted in their entirety for history. Part #3 is labeled "contents of left radical mastectomy" and is received flesh. It consists of a large ellipse of skin overlying breast tissue, the ellipse measuring 20 cm in length and 14 cm in height. A freshly sutured

	incision extends 3 cm directly lateral from the areola, corresponding to the closure for removal of part #1.					
	Abundant amounts of fibrofatty connective tissue surround the entire breast and the deep aspect include					
	an 8 cm length of pectoralis minor and a generous mass of overlying pectoralis major muscle. Incision fr					
	the deepest aspect of the specimen beneath the tumor mass reveals tumor extension gross to within 0.					
	cm of muscle. Sections are submitted according to the following code: DE – deep surgical resection					
	margins; SU, LA, INF, ME — full thickness radial samplings from the center of the tumor superiorly					
	laterally, inferiorly and medially, respectively: NI – nipple and subjacent tissue.					
	Lymph nodes dissected free from axillary fibrofatty tissue from levels I, II, and III will be labeled accordingly.					
Microscopic	Sections of part #1 confirm frozen section diagnosis of infiltrating duct carcinoma. It is to be noted that the					
	tumor cells show considerable pleomorphism, and mitotic figures are frequent (as many as 4 per high					
	power field). Many foci of calcification are present within the tumor. Part #2 consists of fibrofatty tissue					
	and single tiny lymph node free of disease. Part #3 includes 18 lymph nodes, three from Level III, two from					
	Level II and thirteen from Level I. All lymph nodes are free of disease with the exception of one Level I					
	lymph node, which contains several masses of metastatic carcinoma. All sections taken radially from the					
	superficial center of the resection site fail to include tumor, indicating the tumor to have originated deep					
	within the breast parenchyma. Similarly, there is no malignancy in the nipple region, or in the lactiferous					
	sinuses. Sections of deep surgical margin demonstrate diffuse tumor infiltration of					
	deep fatty tissues; however, there is no invasion of muscle. Total size of primary tumor is estimated to be 4					
	cm in greatest dimension.					
Final Dx	Infiltrating duct carcinoma left breast.					
	Lymph node, no pathologic diagnosis, left axilla.					
	Ext. of tumor into deep fatty tissue. Metastatic carcinoma, left axillary lymph node (1) Level I. Free of					
	disease 17 of 18 lymph nodes – Level I (12), Level II (2) and Level III (3).					
INDEPENDENT LAB S	ERVICES					
DELMAR, NY 12054						
INDEPENDENT LABOI	RATORY SERVICES, INC.					

E.1.2.1 HL7 Message Encoding of this Report

There are several ways to encode this report, depending upon whether the source system divides the sections and the handling of specimen information.

This first example shows the report where all sections are combined, with no splitting or differentiation based on the tissue specimens. The text sections are encoded using FT (formatted text) to preserve the line endings and other formatting present on the printed report.

E.1.2.1.1 Example 1: Combined specimen sections

- **MSH**|^~\&||INDEPENDENT LAB SERVICES^33D1234567^CLIA|||200407281339||ORU^R01^ORU_R01|2004 072813390045|P|2.5.1|||||||||||VOL_V_51_ORU_R01^NAACCR_CP<CR>
- PID|1||00466144^^Albany Medical Center&123456&NPI^MR^Albany Medical Center~123456789^^^
 USSSA^SS^USSSA||Cane^Candy||19570706|F||2106-3^White^HL70005|495 East Overshoot Drive
 ^^Delmar^NY^12054^H|||||M<CR>
- **OBR**|1||97 810430|11529-5^**Surgical Pathology Study**^LN||200707251630||123456^MYELOMUS^JO HN||||TISS^Tissue^HL70487|594110NY^CARING^C AREN^^M.D.^^^NY_PHYSICIANLICENSE^^^^M D|||||||||||||||||09771&GLANCE&JUSTIN&&&&&NY_PHYS ICIANLICENSE<CR>
- **OBX**|1|FT|22637-3^Path report.**final diagnosis**^LN||Carcinoma of breast. Postoperative diagno sis: same.|||||F<CR>
- OBX|2|FT|22636-5^Path report.relevant Hx^LN||47-year old white female with (L) UOQ breast ma
 ss||||||F<CR>
- **OBX**|3|FT|22633-2^Path report.**site of origin**^LN|1|left breast biopsy\X0D\\X0A\apical axilla ry tissue\X0D\\X0A\contents of left radical mastectomy|||||F<CR>
- **OBX** |4|FT|22634-0^Path report.gross description^LN||Part #1 is labeled "left breast biopsy" and is received fresh after frozen section preparation. It consists of a single firm nodule

measuring 3 cm in circular diameter and 1.5 cm in thickness surrounded by adherent fibrofat ty tissue. On section a pale gray, slightly mottled appearance is revealed. Numerous secti ons are submitted for permanent processing.\X0D\\X0A\Part #2 is labeled "apical left axil lary tissue" and is received fresh. It consists of twoamorphous fibrofatty tissue masses w ithout grossly discernible lymph nodes therein. Both piecesare rendered into numerous sec tions and submitted in their entirety for history. \XOD\\XOA\Part #3 is labeled "contents o fleft radical mastectomy" and is received flesh. It consists of a large ellipse of skin ove rlying breast tissue, the ellipse measuring 20 cm in length and 14 cm in height. A freshly su tured incisionextends 3 cm directly lateral from the areola, corresponding to the closure for removal of part #1. Abundant amounts of fibrofatty connective tissue surround the enti re breast and the deep aspect includes an 8 cm length of pectoralis minor and a generous mass of overlying pectoralis major muscle. Incision from the deepest aspect of the specimen ben eath the tumor mass reveals tumor extension gross to within 0.5 cm of muscle. Sections are s ubmitted according to the following code: DE - deep surgical resection margins; SU, LA, INF, ME -- full thickness radial samplings from the center of the tumor superi orly, laterally, inferiorly and medially, respectively: NI - nipple and subjacent t issue.Lymph nodes dissected free from axillary fibrofatty tissue from levels I, II , and III will be labeled accordingly.||||||F<CR>

- OBX |5|FT|22635-7^Path report.microscopic observation^LN||Sections of part #1 confirm froze n section diagnosis of infiltrating duct carcinoma. It is to be noted that thetumor cells sh ow considerable pleomorphism, and mitotic figures are frequent (as many as 4 per high power field). Many foci of calcification are present within the tumor. Part #2 consists of fibrof atty tissue and single tiny lymph node free of disease. Part #3 includes 18 lymph nodes, thr ee from Level III, two from Level II and thirteen fromLevel I. All lymph nodes are free of di sease with the exception of one Level I lymph node, which contains several masses of metasta tic carcinoma. All sections taken radially from the superficial center of the resection si te fail to include tumor, indicating thetumor to have originated deep within the breast par enchyma. Similarly, there is no malignancy in the nipple region, or in the lactiferous sinu ses. Sections of deep surgical margin demonstrate diffuse tumor infiltration of deep fatty tissues, however, there is no invasion of muscle. Total size of primary tumor is estimated to be 4 cm in greatest dimension. ||||||F<CR>
- OBX |6|FT|22637-3^Path report.final diagnosis^LN||1. Infiltrating duct carcinoma, left breast.\X0D\\X0A\2. Lymph node, no pathologic diagnosis, left axilla.\X0D\\X0A\3. E xt. of tumor into deep fatty tissue. Metastatic carcinoma, left axillary lymph node (1) Level I. Free of disease 17 of 18 lymph nodes - Level I (12), Level II (2) and Level III (3).|||||F<CR>

SPM|1|^3567829||TISS^**Tissue**^HL70487|K|||||||||200407200930|200407211500||||||||||||| 97 810430^^^33D1234567&INDEPENDENT LAB SERVICES<CR>

The same report also can be encoded without using formatted text. This next example shows this, and illustrates the additional structure of using the OBX-4 Observation Sub-ID to link those areas of the report that are specific to the particular specimen (shown with numbers in the printed report above).

E.1.2.1.2 Example 2: Reporting by specimen

MSH|^~\&||INDEPENDENT LAB SERVICES^33D1234567^CLIA|||200407281339||ORU^R01^ORU_R01|20040 72813390045|P|2.5.1|||||||| VOL V 51 ORU R01^NAACCR CP<CR>

PID |1||00466144^^Albany Medical Center&12345&NPI^MR^Albany Medical Center~123456789^^^US SSA^SS^USSSA||Cane^Candy||19570706|F||2106-3^White^HL70005|495 East Overshoot Drive^^ Delmar^NY^12054^A||||||M<CR>

OBR | 1 | 3567829 | 97 810430 | 60567-5^Comprehensive pathology report

panel^LN|||200707251630|||

123456^MYELOMUS^JOHN|||||TISS^Tissue^HL70487|594110NY^CARING^CAREN^^M.D.^^^^ NY_PHYSICIANLICENSE^^^^MD||||||||||||||||||109771&GLANCE&JUSTIN&&&&&MY_PHYSICIANLIC ENSE<CR> **OBX** |1|TX|22637-3^Path report.**final diagnosis**^LN|1|Carcinoma of breast. Postoperative diagn osis: same.||||||F<CR>

OBX |2|TX|22636-5^Path report.relevant Hx^LN|1|47-year old white female with (L) UOQ breast m
 ass||||||F<CR>

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- **OBX** |1 |TX | 22633-2^Path report.**site of origin**^LN |2 |left breast biopsy | | | | | |F<CR>
- OBX |2|TX|22634-0^Path report.gross description^LN|2|Part #1 is labeled "left breast biopsy" and is received fresh after frozen section preparation. It consists of a single firm nodule measuring 3 cm in circular diameter and 1.5 cm in thickness surrounded by adherent fibrofat ty tissue. On section a pale gray, slightly mottled appearance is revealed. Numerous secti ons are submitted for permanent processing.||||||F<CR>
- OBX|3|TX|22635-7^Path report.microscopic observation^LN|2|Sections of part #1 confirm froz en section diagnosis of infiltrating duct carcinoma. It is to be noted that thetumor cells s how considerable pleomorphism, and mitotic figures are frequent (as many as 4 per high powe r field). Many foci of calcification are present within the tumor||||||F<CR>
- OBX|4|TX|22637-3^Path report.final diagnosis^LN|2|1. Infiltrating duct carcinoma, left bre
 ast.||||||F<CR>
- **SPM**|2|3567829^97810430-1||TISS^**Tissue**^HL70487|K|||||||||||200407200930| 200407211500|||||||||||97810430^^33D1234567&INDEPENDENT LAB SERVICES<CR>
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- **OBX** |1 |TX | 22633-2^Path report.**site of origin**^LN |3 | apical axillary tissue | | | | | | F<CR>
- **OBX** |2|TX|22634-0^Path report.gross description^LN|3|Part #2 is labeled "apical left axillar y tissue" and is received fresh. It consists of two amorphous fibrofatty tissue masses with out grossly discernible lymph nodes therein. Both pieces are rendered into numerous sectio ns and submitted in their entirety for history.||||||F<CR>
- **OBX** |3|TX|22635-7^Path report.microscopic observation^LN|3|Part #2 consists of fibrofatty t issue and single tiny lymph node free of disease. ||||||F<CR>
- **OBX** |4|TX|22637-3^Path report.**final diagnosis**^LN|3|2. Lymph node, nopathologic diagnosis, left axilla.||||||F<CR>

SPM|3|3567829^97 810430-2||TISS**Tissue**^HL70487|K||||||||||||||200407200930|200407211500 |||||||||||||97 810430^^33D1234567&INDEPENDENT LAB SERVICES<CR>

- OBR|4|3567829|97810430-3|11529-5^Surgical Pathology Study^LN||200707251630||| 123456^MYELOMUS^JOHN|||||TISS^Tissue^HL70487|594110NY^CARING^C AREN^^M.D.^^^ NY_PHYSICIANLICENSE^^^^MD|||||||||||||||109771&GLANCE&JUSTIN&&&&&NY_PHYSICIANLI CENSE<CR>
- OBX |1|TX|22633-2^Path report.site of origin^LN|4|contents of left radical mastectomy||||| |F<CR>
- OBX |2|TX|22634-0^Path report.gross description^LN|4|Part #3 is labeled "contents ofleft rad ical mastectomy" and is received flesh. It consists of a large ellipse of skin overlying bre ast tissue, the ellipse measuring 20 cm in length and 14 cm in height. A freshly sutured inc ision extends 3 cm directly lateral from the areola, corresponding to the closure f or removal of part #1. Abundant amounts of fibrofatty connective tissue surround th e entire breast and the deep aspect includes an 8 cm length of pectoralis minor and a generous mass of overlying pectoralis major muscle. Incision from the deepest as pect of the specimen beneath the tumor mass reveals tumor extension gross to within 0.5 cm of muscle. Sections are submitted according to the following code: DE - dee p surgical resection margins; SU, LA, INF, ME -- full thickness radial samplings fr om the center of the tumor superiorly, laterally, inferiorly and medially, respecti

vely: NI - nipple and subjacent tissue. Lymph nodes dissected free from axillary fi brofatty tissue from levels I, II, and III will be labeled accordingly.||||||F<CR> OBX|3|TX|22635-7^Path report.microscopic observation^LN|4|

- Part #3 includes 18 lymph nodes, three from Level III, two from Level II and thirteen fromLe vel I. All lymph nodes are free of disease with the exception of one Level I lymph node, whic h contains several masses of metastatic carcinoma. All sections taken radially from the su perficial center of the resection site fail to include tumor, indicating thetumor to have o riginated deep within the breast parenchyma. Similarly, there is no malignancy in the nipp le region, or in the lactiferous sinuses. Sections of deep surgical margin demonstrate dif fuse tumor infiltration of deep fatty tissues, however, there is no invasion of muscle. Tot al size of primary tumor is estimated to be 4 cm in greatest dimension. ||||||F<CR>
- OBX |4|TX|22637-3^Path report.final diagnosis^LN|4|3. Ext. of tumor into deep fatty tissue. M
 etastatic carcinoma, left axillary lymph node (1) Level I. Free of disease 17of18 lymph no
 des Level I (12), Level II (2) and Level III (3).||||||F<CR>
- **SPM**|4|3567829^97 810430-3||TISS^**Tissue**^HL70487|K|||||||||||200407200930|200407211500| ||||||||||97 810430^^33D1234567&INDEPENDENT LAB SERVICES<CR>

E.1.3 Structured Narrative Report: "SPM segment style" HL7 v. 2.5.1 example for multiple specimens

E.1.3.1 Example 1: SPM segment style

MSH|^~\&||INDEPENDENT LAB SERVICES^33D1234567^CLIA|ECLRS|NYSCR|200407281339||ORU^R01^OR U_R01|2004072813390045|P|2.5.1||||||||||VOL_V_51_ORU_R01^NAACCR_CP<CR>

- **PID**|1||123456789^^^SS|000039^^^^LR|Cane^Candy^^Ms.||19570706|F||2106-3|495 East Overs hoot Drive^Delmar^NY^12054^H||^^^518^5559999|||M|||4442331235<CR>
- **PV1**|1|N||||594110NY^CARING^CAREN^^^DR|594110NY^CARING^CAREN^^^DR<CR>

ORC |RE || || || || || || || || || || || Albany Medical Center^123456^^AHA |43 NewScotland Ave^Albany ^NY^12208 |^^^^518^3334444 |100 Provider St^Albany^NY^12205 << >>

- **OBR**|1|3567829|97810430|60567-5**^Comprehensive pathology report panel**^LN^^ PATHOLOGY REPORT^L||20040720|||||||123456^MYELOMUS^JOHN^^MD|^^^518^4244243| |||20040728|||F||||109771&GLANCE&JUSTIN&A&MD&&&MT PHYSICIANLICENSE<CR>
- **OBX** |1 | TX | 22636-5^**CLINICAL HISTORY**^LN |1 |47-year old white female with (L) UOQ breast mass || | || |F || 200407200930 | 33D1234567^INDEPENDENT LAB SERVICES^CLIA<CR>
- **OBX**|2|TX|22638-1^**COMMENTS**^LN|1|Carcinoma of breast. Post operative diagnosis:same||||||F| ||200407200930|33D1234567^INDEPENDENT LAB SERVICES^CLIA<CR>

SPM|1|3567829^97 810430||TISS^Tissue^HL70487|K||||||||||||||200407200930|200407211500|||| ||||||||97 810430^^33D1234567&INDEPENDENT LAB SERVICES<CR>

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- **OBX** |1|TX|22633-2^Pathology report.**site of origin**^LN^^L47^SUBMITTED TISSUE^L|2|left breas tbiopsy|||||||F||200407200930|33D1234567^INDEPENDENT LAB SERVICES^CLIA<CR>
- OBX |2|TX|22634-0^Gross Pathology^LN^L567^GROSS PATHOLOGY^L|2|Part #1 is labeled "left brea st biopsy" and is received fresh after frozen section preparation. It consists of a single f irm nodule measuring 3 cm in circular diameter and 1.5 cm in thicknesssurrounded by adheren t fibrofatty tissue. On section a pale gray, slightly mottled appearance is revealed. Nume rous sections are submitted for permanent processing.||||||F||200407280841|33D1234567^ INDEPENDENT LABSERVICES^CLIA<CR>
- OBX |3|TX|22635-7^Microscopic Pathology^LN^L589^MICROSCOPIC^L|2|Sections of part #1 confir m frozen section diagnosis of infiltrating duct carcinoma. It is to be noted that the tumor cells show considerable pleomorphism, and mitotic figures are frequent (asmany as 4 per hi gh power field). Many foci of calcification are present within the tumor.|||||F|||200407 200930|33D1234567^INDEPENDENT LAB SERVICES^CLIA<CR>

|0704500123^^^33D1234567&INDEPENDENT LAB SERVICES<CR>

SPM|2|3567829^97 810430-1||TISS^**Tissue**^HL70487|||||||||||||200407200930|2004070211500| ||||||||||0704500123^^33D1234567&INDEPENDENT LAB SERVICES<CR>

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- **OBX** |1|TX|22633-2^Pathology report.**site of origin**^LN^^L47^SUBMITTED TISSUE^L|3|apical axil lary tissue||||||F|||200407200930|33D1234567^INDEPENDENT LABSERVICES^CLIA<CR>
- **OBX** |2|TX|22634-0^**Gross Pathology**^LN^L567^GROSS PATHOLOGY^L|3|Part #2 is labeled"apical lef t axillary tissue" and is received fresh. It consists of two amorphous fibrofatty tissue ma sses without grossly discernible lymph nodes therein. Both pieces are rendered into numero us sections and submitted in their entirety for history.|||||F||200407280841|33D123456 7^INDEPENDENT LABSERVICES^CLIA<CR>
- OBX|3|TX|22635-7^Microscopic Pathology^LN^L589^MICROSCOPIC^L|3|Part #2 consists of fibrof atty tissue and single tiny lymph node free of disease.||||||F|||200407200930|33D1234567 ^INDEPENDENT LAB SERVICES^CLIA<CR>
- **OBX** |4|TX|22637-3^Path report.**final diagnosis**^LN|3|2. Lymph node, no pathologic diagnosis, 1 eft axilla.||||||F|||200407280841|33D1234567^INDEPENDENT LAB SERVICES^CLIA

SPM|3|3567829^97 810430-2||TISS**Tissue**^HL70487|||||||||||||200407200930|2004070211500|| |||||||||0704500123^^33D1234567&INDEPENDENT LAB SERVICES<CR>

- **OBR**|4|3567829|97810430-3|11529-5^**SURGICAL PATHOLOGY STUDY**^LN^^PATHOLOGY REPORT^L| |/20040720||||||||123456^MYELOMUS^JOHN^^MD|^^^^518^4244243||||20040728|||F|||||| |109771&GLANCE&JUSTIN&A&MD&&&&NY PHYSICIANLICENSE<CR>
- OBX|1|TX|22633-2^Pathology report.site of origin^LN^^L47^SUBMITTED TISSUE^L|4|contents
 of left radical mastectomy ||||||F|||200407200930|33D1234567^INDEPENDENT LAB SERVICES^
 CLIA<CR>
- OBX |2|TX|22634-0^Gross Pathology^LN^L567^GROSS PATHOLOGY^L|4|Part #3 is labeled "conte nts of left radical mastectomy" and is received flesh. It consists of a large ellip se of skin overlying breast tissue, the ellipse measuring 20 cm in length and 14 cm in height. A freshly sutured incision extends 3 cm directly lateral from the areol a, corresponding to the closure for removal of part #1. Abundant amounts of fibrofa tty connective tissue surround the entire breast and the deep aspect includes an 8 cm length of pectoralis minor and a generous mass of overlying pectoralis major mus cle. Incision from the deepest aspect of the specimen beneath the tumor mass reveal s tumor extension gross to within 0.5 cm of muscle. Sections are submitted accordin g to the following code: DE - deep surgical resection margins; SU, LA, INF, ME -- f ull thickness radial samplings from the center of the tumor superiorly, laterally, inferiorly and medially, respectively: NI - nipple and subjacent tissue. Lymph node s dissected free from axillary fibrofatty tissue from levels I, II, and III will be labeled accordingly. ||||||F|||200407280841|33D1234567^INDEPENDENT LAB SERVICES^CL IA<CR>
- OBX |3|TX|22635-7^Microscopic Pathology^LN^L589^MICROSCOPIC^L|4|Part #3 includes 18 lymph n odes, three from Level III, two from Level II and thirteen from Level I. All lymphnodes are f ree of disease with the exception of one Level I lymph node, which contains several masses o f metastatic carcinoma. All sections taken radially from the superficial center of the res ection site fail to include tumor, indicating the tumor to have originateddeep within the b reast parenchyma. Similarly, there is no malignancy in the nipple region, or in the lactife rous sinuses. Sections of deep surgical margin demonstrate diffuse tumor infiltration of d eep fatty tissues, however, there is no invasion of muscle. Total size of primary tumor is e stimated to be 4 cm in greatest dimension.||||||F|||200704110841|33D1234567^INDEPENDENT LAB SERVICES^CLIA<CR>
- OBX |4|TX|22637-3^Path report.final diagnosis^LN|4|3. Ext. of tumor into deep fatty tissue. M
 etastatic carcinoma, left axillary lymph node (1) Level I. Free of disease 17of 18 lymph n
 odes Level I (12), Level II (2) and Level III (3).||||||F|||200407280841|33D12345
 67^INDEPENDENT LAB SERVICES^CLIA<CR>

SPM|4|3567829^97810430-3||TISS^**Tissue**^HL70487||||||||||||200407200930| 2004070211500|||||||||||0704500123^^301234567&INDEPENDENT LAB SERVICES<CR>

E.1.3.1.1 Example 2: Multiple specimens with overall case diagnosis and individual specimen level diagnoses.

- MSH|^~\&||INDEPENDENT LAB SERVICES^33D1234567^CLIA|ECLRS|NYSCR|200407281339||ORU^R01^OR U_R01|2004072813390045|P|2.5.1|||||||||VOL_V_51_ORU_R01^NAACCR_CPPID|1||123456789^^ ^^SS|000039^^^LR|Cane^Candy^^Ms.||19570706|F||2106-3|495 East Overshoot Drive^^Delm ar^NY^12054^H||^^^518^5559999|||M|||4442331235
- **PV1** | 1 | N | | | | 594110NY^CARING^CAREN^^^DR 594110NY^CARING^CAREN^^^DR
- OBR|1|T2000317579|2825588^QDX^31D2026917^CLIA |60567-5^Comprehensive pathology report panel^LN||202106300000|||A|||TISS&Tissue&HL70487 |48133^Smith^John^^^^MD^^^^NP I|||||||||||||||||||10241&Mahmood&Shahid&&&MD&NPI
- **OBX** |2|TX|21612-7^**Reported Age**^LN||73|yr^years^ANS+|1|A^Abnormal^HL70078|||F|||20210630 1751|31D2026917^QDX^CLIA |10241^Bentley^James D.|||202107061751
- OBX|3|TX|22636-5^Pathology report.relevant Hx^LN|1|Elevated PSA, ICD-10: R97.20|||A^Ab normal^HL70078|||F |||202106301751|31D2026917^QDX^CLIA|10241^Bentley^James D. |||20 2107061751
- OBX |4|TX|22637-3^Path report.final diagnosis^LN|1|Adenocarcinoma of Prostate. \X0D\\X0 A\ Gleason Score: 8(4+4) \X0D\\X0A\ Grade Group: 4 \X0D\\X0A\ Tumor Length(cm): 0.1 \X0D\\X0A\ Core Length(cm): 1.3 \X0D\\X0A\ Involving 10% of toal surface area, and 1 of 1 core, discontinuously (D). Perineural invasion not seen.|||A^Abnormal^HL700 78|||F|||202106301751|31D2026917^QDX^CLIA|10241^Bentley^James D.|||202107061751
- SPM|1|^2825588&QDX&31D2026917&CLIA||TISS^Tissue^HL70487|S^Slide^HL70541|||^^^G0416^Sur gical pathology, gross and microscopic examination for prostate needle saturation b iopsy sampling, 1-20 specimens^C4^^Prostate Gland||||||||20210630000000|2021063000 0000
- OBR|2|T2000317579|2825588-A^QDX^31D2026917^CLIA|**11529-5^Surgical Pathology Study^LN** || |202106300000|||A|||TISS&Tissue&HL70487 |48133^Smith^John^^^^MD^^^^NPI||||||||| F|||||10241&Mahmood&Shahid&&&MD&&NPI
- OBX|2|TX|22634-0^Pathology report.gross observation^LN|2|Specimen: Left Apex;\X0D\\X0A \ Cores: 1; \X0D\\X0A\ Length: 1.4cm; \X0D\\X0A\Ink:|||A^Abnormal^HL70078|||F|||202 106301751|31D2026917^QDX^CLIA|10241^Bentley^James D.|||202107061751
- **OBX**|3|TX|22635-7^Path report.microscopic observation^LN|2|Any specific microscopic obs ervation at the specimen level detail should be placed here.|||A^Abnormal^HL70078|| |F|||202106301751|31D2026917^QDX^CLIA|10241^Bentley^James D.|||202107061751
- OBX |4|TX|22637-3^Path report.final diagnosis^LN|2|Adenocarcinoma of Prostate. \X0D\\X0 A\ Gleason Score: 7(4+3) \X0D\\X0A\ Grade Group: 3 \X0D\\X0A\ Tumor Length(cm): 0.9 \X0D\\X0A\ Core Length(cm): 1.1 \X0D\\X0A\ Involving 20% of total surface area, an d 1 of 1 core. Perineural invasion not seen.|||A^Abnormal^HL70078|||F|||20210630175 1|31D2026917^QDX^CLIA|10241^Bentley^James D.|||202107061751
- OBX|5|CE|76540-4^Pathologist Assigned ICD Code^LN|2|C61^Malignant Neoplasm of Prostate ^II0C|||A^Abnormal^HL70078|||F|||202106301751|31D2026917^QDX^CLIA|10241^Bentley^Jam es D.|||202107061751
- SPM|2|^2825588-A&QDX&31D2026917&CLIA||TISS^Tissue^HL70487|S^Slide^HL70541|||C61.9^Pros tate Gland^HL79100^G0416^Surgical pathology, gross and microscopic examination for prostate needle saturation biopsy sampling, 1-20 specimens^C4||||||||2021070700000 0|20210707000000

OBR|3|T2000317579|2825588-C^QDX^31D2026917^CLIA|**11529-5^Surgical Pathology Study** ^LN||202106300000|||A|||TISS&Tissue&HL70487|48133^Smith^John^^^^MD^^^^NPI||||| |||F|||||10241&Mahmood&Shahid&&&MD& **OBX**|1|TX|22633-2^Pathology report.**site of origin**^LN|3|Prostate, Left Mid|||N^Normal^HL 70078|||F|||202106301751|31D2026917^QDX^CLIA|10241^Bentley^James D.|||202107061751

OBX |2|TX|22634-0^Pathology report.gross observation^LN|3|Specimen: Left Mid;\X0D\\X0A\ Cores: 1; \X0D\\X0A\ Length: 1.5cm; \X0D\\X0A\Ink:|||N^Normal^HL70078|||F|||202106 301751|31D2026917^QDX^CLIA|10241^Bentley^James D.|||202107061751

OBX|3|TX|22635-7^Path report.microscopic observation^LN|3|Any specific microscopic obs ervation for this specimen level detail should be placed here.|||N^Normal^HL70078|| |F|||202106301751|31D2026917^QDX^CLIA|10241^Bentley^James D.|||202107061751

OBX|4|TX|22637-3^Path report.final diagnosis^LN|3|Benign prostatic tissue|||N^Normal^H L70078|||F|||202106301751|31D2026917^QDX^CLIA|10241^Bentley^James D.|||202107061751 OBX|5|CE|76540-4^Pathologist Assigned ICD Code^LN|3|N40.0^Benign prostatic hyperplasia

without lower urinary tract symptoms^I10C|||A^Abnormal^HL70078|||F|||202106301751|
31D2026917^QDX^CLIA|10241^Bentley^James D.|||202107061751

SPM|3|^2825588-C&QDX&31D2026917&CLIA||TISS^Tissue^HL70487|S^Slide^HL70541|||C61.9^Pros tate Gland^HL79100^G0416^Surgical pathology, gross and microscopic examination for prostate needle saturation biopsy sampling, 1-20 specimens^C4||||||||2021070700000 0|20210707000000

E.1.4 Complex Reports

As described in <u>Section 2.2.3.2</u>, a laboratory that has sent a case out for a consult or special study may report its original report data and the consult (or special study) from a different institution in the same message that is sent to a cancer registry. This example illustrates the format and linkage of these two reports from different institutions being sent in the same message to a registry.

INDEPENDENT LAB SERVICES, PID 6767676767 October 30, 2010

TISSUE SUBMITTED

A: Right colon B: Rectosigmoid @ 15 cm

GROSS PATHOLOGY

A: The anatomical site is not specified on the container's label. The specimen consists of a solitary pinkish-tan tissue fragment measuring 0.6 cm in greatest dimension. The specimen is entirely submitted in block A.

B: The anatomical site is not specified on the container's label. The specimen consists of a single dark tan, multi-lobulated sessile polyp that measures 2.1 in greatest diameter x 1.4 in height and 0.9 cm in thickness. Black ink is applied to mark the line of resection. The polyp is serially sectioned and entirely submitted in blocks B1 and B2.

MICROSCOPIC

A: Sections show two biopsies of colon in which there is mild chronic inflammation in the lamina propria. The colonic glands are regular, and the goblet cell population is preserved. There is no evidence of dysplasia or malignancy in the plane of sections examined. B: Sections show invasive, moderately differentiated adenocarcinoma. The tumor is forming complex glands that are lined by severely dysplastic epithelium and show necrosis within the glandular lumens. The tumor glands infiltrate the lamina propria, the muscularis mucosa and the stroma beyond the muscularis mucosa. There is associated with acute and chronic inflammation and stromal reaction. The malignant glands are 2.4 mm from the closest point of the cauterized resection margin of the polyp. Surface ulceration is noted. The background shows underlying villous adenoma.

DIAGNOSIS

A: BIOPSIES OF RIGHT COLON – NO EVIDENCE OF DYSPLASIA OR MALIGNANCY. (PLEASE SEE COMMENTS). B: COLON AND RECTUM: Polypectomy. Tumor Site – Rectosigmoid, at 15 cm. Specimen Integrity – Intact. Polyp Size Greatest dimension: 2.1 cm. Additional dimensions: 1.9 x 1.4 cm. Polyp Configuration – Sessile. (Please see Comments). Size of Invasive Carcinoma: Greatest dimension: 1.9 cm. Histologic Type – Adenocarcinoma. Histologic Grade: Low-grade (well differentiated to moderately differentiated) Microscopic Tumor Extension: – Invasion (deepest) – submucosa. Margins: Deep Margin (Stalk Margin) Uninvolved by invasive carcinoma. Mucosal/Lateral Margin

Uninvolved by invasive carcinoma.

Vascular Invasion – Indeterminate. (Please see comments). Type of Polyp in Which Invasive Carcinoma Arose: – Villous adenoma. Ancillary Studies – IHC performed.

The case is referred to Dr.M. Yyyyy at HITECK PATH LAB for Consultation. (Please see Comments).

COMMENTS

A: There is no evidence of dysplasia or malignancy in the plane of sections examined. Correlation with endoscopic findings and if dysplasia/malignancy is a clinical possibility, repeat biopsy is recommended.

B: The polyp grossly is a sessile polyp, morphologically is a malignant polyp. At the tip of the polyp, there is intramucosal carcinoma; however, most of the polyp shows invasive moderately differentiated adenocarcinoma. In block #2, there is a portion of adjacent mucosa suggestive of a small stalk, that measures 0.5 cm in length, 0.6 cm in diameter; however, this could represent adjacent mucosa. Based on routine H&E alone, there is no evidence of lymphovascular invasion. Immunohistochemical stain with D2- 40 is non conclusive. The tumor glands are 2.1 mm from the closest point of the cauterized polypectomy resection line.

The case was verbally communicated with Dr. A. Wwwww on 19/10/10. Electronically signed by Dr. J. Glance, MD. 21/10/10 Consultation Report

HITECK PATH LAB, PID 6767676767 October 29, 2010

SPECIMENS SUBMITTED Colon and rectum

DIAGNOSIS

Right colon, biopsy (S10-1234, Part A): COLONIC MUCOSA WITH NO SIGNIFICANT HISTOLOGIC ABNORMALITY. Rectosigmoid colon, biopsy (S10-1234, Part B): ADENOCARCINOMA IN A BACKGROUND OF A TUBULAR ADENOMA. Specimen Tumor Site: Other (specify): Rectosigmoid colon @ 15 cm Specimen Integrity: Intact Polyp Size Dimensions: 2.1 cm Polyp Configuration: Sessile Tumor Histologic Type: Adenocarcinoma Histologic Grade: Low-grade (well-differentiated to moderately differentiated) Extent Size of invasive Carcinoma Dimensions: 1.9 cm Microscopic Tumor Extension: Submucosa Margins Deep Margin (stalk margin): Uninvolved by invasive carcinoma Distance of Invasive Carcinoma from margin (mm): 2.5 Mucosal / Lateral Margin: Uninvolved by invasive carcinoma Accessory Findings Lymph-Vascular Invasion: Not identified Type of Polyp in Which Invasive Carcinoma Arose: Tubular adenoma Special Studies Ancillary Studies: Not performed Additional Non-Tumor Additional Pathologic Findings: None identified

Reported by Mxxxx Yyyyy, MD, address zzzz (October 28, 2010) October 29, 2010

E.1.4.1 Example for complex combined narrative and synoptic summary reports:

MSH|^~\&||INDEPENDENT LAB SERVICES^33D1234567^CLIA|||201010301339||ORU^R01^ORU_R01|2 004072813390045|P|2.5.1||||||||||VOL_V_51_ORU_R01^NAACCR_CP<CR>

PID|1||6767676767^^Central Hospital Ltd&12345&NPI^MR^Central Hospital Ltd&12345&NPI ~123456789^^^USSSA^SS^USSSA||Cane^Candy||19570706|F||2106-3^White^HL70005|495 Ea st Overshoot Drive^^Delmar^ON^08D 6L7^CAN^H|||||M<CR>

OBR|1||97 810430|60567-5^Comprehensive pathology report panel^LN||201010191600||123 456^MYELOMUS^JOHN||201010201600|TISS^TISSue^HL70487|594111^CARING^CAREN^M.D. ^^^ONTARIOLICENSE^^^^MD|||||||||||||||09771&GLANCE&JUSTIN&&&&CONTARIOLICEN SE<CR>

OBX|1|FT|22638-1^Pathology report comments^LN|1|The case was verbally communicated

with Dr. A. Wwwww on 21/10/10. Electronically signed by Dr. J. Glance, MD. 21/10/10||||||F|||201010210930|01D0301145^INDEPENDENT LAB SERVICES^CLIA<CR> SPM|3|^97 810430||TISS^Tissue^HL70487||||||||||||||2010101901600|201010201600<CR>

- OBR|2||97 810430-A|**11529-5^Surgical Pathology Study**^LN||2010101901600||| 123456^MYELOMUS^JOHN|||201010201600|TISS^Tissue^HL70487|594110^CARING^CAR EN^^M .D.^^^ONTARIOLICENSE^^^^MD|||||||||||||97 810430||109771&GLANCE&JUSTIN&&&&& ONTARIOLICENSE<CR>
- **OBX**|1|FT|22633-2^Pathology report.**site of origin**^LN[^]TISSUE SUBMITTED^L|2|A: Biopsies of Right colon||||||F||201010210930|01D0301145^INDEPENDENT LAB SERVICES^CLIA<CR>
- OBX |2|FT|22634-0^Pathology report.gross observation^LN|2|A: The anatomical site is not s
 pecified on the container's label. The specimen consists of a solitary pinkish-tan
 tissue fragment measuring 0.6 cmin greatest dimension. The specimen is entirely
 submitted in block A.||||||F|||201010210800|01D0301145^INDEPENDENT LAB SERVICES^CL
 IA<CR>
- **OBX** |3|FT|22635-7^Path report.microscopic observation^LN|2|A: Sections show two biopsies of colon in which there is mild chronic inflammation in the lamina propria. The colonic g lands are regular and the goblet cell population is preserved. There is no evidence of dy splasia or malignancy in the plane of sections examined. |||||F||201010210930|01D03 01145^INDEPENDENT LAB SERVICES^CLIA<CR>
- **OBX**|4|FT|22637-3^**Pathology report final diagnosis**^LN|2|A: NO EVIDENCE OF DYSPLASIA OR MALIGNANCY. PLEASE SEE COMMENTS.||||||F|
 - ||201010210930|01D0301145^INDEPENDENT LAB SERVICES^CLIA<CR>
- OBX |8 |FT | 22638-1^Pathology report comments^LN |2 |A: There is no evidence of dysplasia or ma lignancy in the plane of sections examined. Correlation with endoscopic findings and if dysplasia/malignancy is a clinical possibility, repeat biopsy is recommended. |||||F ||201010210930 |01D0301145^INDEPENDENT LAB SERVICES^CLIA<CR>
- SPM|1|^97 810430-A|^97 810430|TISS^Tissue^HL70487||||||||||||||201010201600<CR>
- OBR|3||97 810430-B|**11529-5^Surgical Pathology Study**^LN|||2010101901600||| 123456^MYELOMUS^JOHN||||201010201600|TISS^Tissue^HL70487|594110^CARING^CAR EN^^M .D.^^^ONTARIOLICENSE^^^^MD||||||||||||||97 810430|||109771&GLANCE&JUSTIN&&&&& ONTARIOLICENSE<CR>
- **OBX** |1|FT|22633-2^Pathology report.**site of origin**^LN^^TISSUE SUBMITTED^L|3|B: Rectosigm oid @ 15 cm|||||F||201010210930|01D0301145^INDEPENDENT LAB SERVICES^CLIA<CR>
- OBX |2|FT|22634-0^Pathology report.gross observation^LN|3|B: The anatomical site is not specified on the container's label. The specimen consists of a single dark tan, multiobulated sessile polyp that measures 2.1 in greatest diameter x 1.4 in height and 0.9cm in thickness. Black ink is applied to marked the lineof resection. The polyp is serially sectioned and entirely submitted in blocks B1 and B2.||||||F|||201010210800|01D03011 45^INDEPENDENT LAB SERVICES^CLIA<CR>
- OBX |3|FT|22635-7^Path report.microscopic observation^LN|3|B: Sections show invasive, mo derately differentiated adenocarcinoma. The tumor is forming complex glands that are l ined by severely dysplastic epithelium and show necrosis within the glandular lumens. The tumor glands in infiltrate the lamina propria, the muscularis mucosa and thestroma beyond the muscularis mucosa. There is associated with acute and chronic inflammation a nd stromal reaction. The malignant glands are 2.4 mm from the closest point of the caute rized resection margin of the polyp. Surface ulceration is noted. The background shows underlying villous adenoma.||||||F|||201010210930|01D0301145^INDEPENDENT LAB SERVI CES^CLIA<CR>
- OBX |4|FT|22637-3^Pathology report final diagnosis^LN|3|Tumor Site Rectosigmoid, at 15 cm. \X0D\\X0A\Specimen Integrity - Intact. \X0D\\X0A\ Polyp Size \X0D\\X0A\ Greatest dimension: 2.1 cm. \X0D\\X0A\ Additional dimensi ons: 1.9 x 1.4 cm.\X0D\\X0A\ Polyp Configuration - Sessile. (Please see Comments) . \X0D\\X0A\ Size of Invasive Carcinoma:\X0D\\X0A\Greatest dimension: 1.9 cm.\X0D\\X0A\ Histologic Type -Adenocarcinoma. \X0D\\X0A\ Histologic Grade:\X0D\\X0A\Low-grade (well differentiated to moderately differen tiated)\X0D\\X0A\Microscopic Tumor Extension: \X0D\\X0A\- Invasion (deepest) - submucosa. \X0D\\X0A\ Margins: \X0D\\X0A\ Deep Margin (Stalk Margin)

\X0D\\X0A\ Uninvolved by invasive carcinoma.\X0D\\X0A\ Mucosal/Lateral Margin\X0D\\X0A\Uninvolved by invasive carcinoma.\X0D\\X0A\ Vascular Invasion - Indeterminate.(Please see comments).\X0D\\X0A\ Type of Polyp in Whic h Invasive Carcinoma Arose:\X0D\\X0A\- Villous adenoma. \X0D\\X0A\ Ancillary Stu dies - IHC performed. \X0D\\X0A\ The case is referred to Dr.M. Yyyyy at HITECK PATH LAB for Consultation. Please see Comments).|||||F||| 201010210930|01D0301145^INDEPENDENT LAB SERVICES^CLIA<CR>

- **OBX** |5|FT|22637-3^**Pathology report final diagnosis**^LN|2|B: COLON AND RECTUM: Polypectom. ||||||||||||||||||||201010210930|01D0301145^INDEPENDENT LABSERVICES^CLIA<CR>
- OBX | 6 | FT | 22638-1^Pathology report comments^LN | 3 | B: The polyp grossly is a sessile polyp, morphologically is a malignant polyp. At the tip of the polyp there is intramucosal carc inoma; however, most of the polyp shows invasive moderately differentiated adenocarci noma.In block #2 there is a portion of adjacent mucosa suggestive of small stalk, that m easures 0.5 cm in length, 0.6 cm in diameter, however this could represent adjacent muco sa. Based on routine H\T\E alone there is no evidence of lymphovascular invasion. Immunohistochemical stain with D2-40 is non conclusive. The tumor glandsare 2.1 mm fro m the closest point of the cauterized polypectomy resection line.||||||F|||2010102109 30|01D0301145^INDEPENDENT LAB SERVICES^CLIA<CR>
- SPM|3|^97 810430-B |^97 810430|TISS^Tissue^HL70487||||||||||||||| 2010101901600|201010201600<CR>
- **OBR**|4||S10-1234|**60570-9**^**Consultation note**^LN||2010101901600||||||2010102801600|TI SS^Tissue^HL70487|109771^GLANCE^JUSTIN^M.D.^^^ONTARIOLICENS ^^^MD ||||||||||F|||||7878787&Yyyyyy&Mxxxx&&&&&&CONTARIOLICENSE<CR>
- **OBX**|1|FT|^SPECIMENS SUBMITTED|4|Colon and rectum|||||F||201010291430|01D0301145^HIT ECK PATH LAB^CLIA<CR>
- **OBX** |1|FT|22633-2^Pathology report.**site of origin**^LN^^TISSUE SUBMITTED^L|4|Colon and rectum|||||F||201010290930|01D0301145^HITECK PATH LAB^CLIA<CR>
- OBX|2|FT|22637-3^Pathology report final diagnosis^LN|4|Right colon, biopsy (S10-1234, P
 art A):\X0D\\X0A\- COLONIC MUCOSA WITH NO SIGNIFICANT HISTOLOGIC ABNORMALITY.||||||F
 |||201010291430|01D0301145^HITECK PATH LAB^CLIA<CR>
- **OBX** 3 FT 22637-3**Pathology report final diagnosis** N 4 Rectosigmoid colon, biopsy (S10-1234, Part B):\X0D\\X0A\ - ADENOCARCINOMA IN A BACKGROUND OF A TUBULARADEN OMA.\X0D\\X0A\Specimen\X0D\\X0A\ Tumor Site: Other (specify): Rectosigmoid colon @ 15 cm\XOD\\XOA\ Specimen Integrity: Intact\X0D\\X0A\ Polyp Size\X0D\\X0A\ Dimensions: 2.1cm\X0D\\X0A\ Polyp Configuration: Sessile\X0D\\X0A\ Tumor\X0D\\X0A\ Histologic Type: Adenocarcinoma \XOD\\XOA\ Histologic Grade: Low-grade (well-differentiated to moderately differentiated) \XOD\\XOA\ Extent\XOD\\XOA\ Size of invasive Carcinoma\ X0D\\X0A\ Dimensions: 1.9cm\X0D\\X0A\Microscopic Tumor Extension: Submucosa\X0D\\X0A\Margins\X0D\\X0A\ Deep Margin (stalk margin): Uninvolved by invasive carcinoma\X0D\\X0A\Distance of Invasive Carcinoma frommargin (mm):2.5\X0D\\X0A\Mucosal / Lateral Margin: Uninvolved by invasive carcinoma\X0D\\X0 A\Accessory Findings\X0D\\X0A\Lymph-Vascular Invasion:Not identified\X0D\\X0A\Typ e of Polyp in Which Invasive Carcinoma Arose: Tubular adenoma \XOD \\XOA \ Special Studies \X0D\\X0A\Ancillary Studies:Not performed\X0D\\X0A\Additional Non-Tumor\X0D\\X0A\ Additional Pathologic Findings: None identified || || || F| || 201010281430 || 01D0301145^HITECK PATH LAB^CLIA<CR>

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SPM|4|^S10-1234|^97 810430&01D0301145&INDEPENDENT LAB SERVICES&CLIA
|TISS^Tissue^HL70487|||||||||||||2010101901600|201010281600<CR>
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E.2 Synoptic Report Examples

Synoptically reports are textual reports but are formatted in a style where each collected clinical data item is on its own line and labeled appropriately. Every line on the displayed or printed report is transmitted in the message.

E.2.1 Simple Report – Single Site, Single Primary The anatomic pathology report example below is a typical simple report whose content is to be transmitted from a laboratory or hospital to a cancer registry.

PATHOL	OGY REPORT					
Report Identification		Patient Information				
Facility ID:	33D1234567	Chart/MRN: 00466144		Address	495 East Overshoot Drive	
Requision ID	7654098					
Accession ID:	97 810430	SSN/SIN:	123456789			
Specimen ID	3567829					
Report Date:	2004-07-28	Surname:	CANE	City/Town:	Delmar	
Report Type:	Final	Given Name:	CANDY	State/Prov:	NY	
Requester ID:	594110NY	Sex:	F	Zip/Post Code:	12054	
Requester:	CARING, CAREN M.D. Albany Medical Center, 43 New Scotland Ave. NY, Albany 12208	Date of Birth:	of Birth: 1957-07-06 Country:			
Procedure	2004-07-20	Age:	47 (at procedure			
Surgeon ID:	123456	Insurer [.]				
Surgeon.		Insurance No:	3270686987			
Pathologist ID:	109771	Race.	White			
Pathologist ID.		Fthnicity:	winte			
Clinical Dy/	Carcinoma of breast Rost on	erative diagnosi	: same			
Comment	Carcinoma or breast. Post ope		5. 3dille.			
Clinical History	47-year old white female with	n (L) UOQ breast	: mass			
Tissue Submitted	Left breast lesion – short stite	h superior. Long	g stitch lateral.			
Gross	SPECIMEN SITE DESCRIBED O	N CONTAINER: I	eft breast lesion SPE	CIMEN DESCRIPTIO	N	
Pathology	Tissue/s: consistent with brea	ist lumpectomy,	with attached skin	ellipse Handling Prio	r to Receipt in Lab: specimen	
	received intact					
	Clinical Orientation: attached	short suture, de	escribed on requisiti	on as "superior" and	attached long suture, described	
	as "lateral" – used for the orig	entation of the s	pecimen (below)			
	Resection Margins: inked:					
	red medial and lateral					
	blue superior green inferior b	lack deep				
	Other Handling in Lab: section	ned and left for	overnight fixation A	pproximate Fixation	Time: > 48 hours/ < 7 days	
	Specimen Size: breast 7.1 x 6.	2 x 2.5 cm in gre	eatest dimensions sk	kin ellipse 3.3 x 0.6 c	m Diagnostic Imaging for	
	Identification of Suspect Area	/s: not required				
	Breast Tumor: present – see b	pelow				
	Size: difficult to measure accu	irately; a 0.6 cm	area of hemorrhage	e immediately adjac	ent tumor, obscuring tumor	
	margin approximately 2.0 x 1	.2 cm in greates	t dimensions		6	
	Location: 11 o'clock – as per p	prior clinical hist	ory Appearance: spi	culated, ill-defined,	firm, grey-white Evidence of	
	Spread or Complications: non	e the elected week	ation monuting the d			
	Resection Lines: 0.3 cm from	the closest rese	ction margin – the d	eep 0.8 cm from the	e next closest resection margin	
	- the junction of the superior	and menor (su	perficially) 1.2 cm ir	om all remaining res	section margins, the next closest	
	peing the medial Other Breast, mederately fibrous controlly, and surrounding types. Nicelay act and include that with					
	specimen	ous centrally, di	a surrounding turn	οι ταιρρίει ποι αρρίιο		
	specimen Skini normal					
	I vmnh Nodes: none seen					
	Axillary Tissue: not annlicable	– none include	d with specimen Oth	er Abnormalities/ C	omments: none	
	MATERIAL SUBMITTED FOR HISTOLOGY: entire tumor, and other representative sections BLOCKS SUBMITTED TO HISTOLOGY:					
	A,B complete cross-section of tumor, in its largest dimension – split in two					

	C tumor including closest (deep) resection margin D-G ? tumor including deep margin					
	H fibrous breast including inferior resection margin I breast including lateral resection margin					
	breast including medial resection margin					
	section immediately superficial, but perpendicular to that in A,B including superior margin, and skin ellipse					
Microscopic	Neoadjuvant Treatment: unknown – not provided clinically Specimen Type: lumpectomy					
	Lymph Node Sampling: sentinel lymph node biopsy Specimen Size:					
	Greatest Dimension (cm): 7.1 Comments: as described grossly Laterality: left					
	Comments: as described clinically Features of Malignancy:					
	Tumor Site: not specified clinically					
	Comments: described as "11 o'clock" in the Clinical					
	History for a previous core biopsy (S*-****) - likely the same site as the tumor in the specimen here					
	Invasive Carcinoma: present					
	Histologic Type: invasive ductal carcinoma					
	Comments: with prominent lobular differentiation; for instance, the carcinoma spreads as individual cells and					
	small groups of cells at the edge of the main tumor mass					
	Tumor Distribution: single focus only Comments: seen in the area described grossly Size of Invasive Component:					
	Greatest Dimension (cm): 1.1					
	Comments: exact size difficult to be certain of, because of the effect of previous biopsy, but					
	appearing					
	greater than 1.0 cm in largest dimension, from the microscopic slides					
	Histologic Grade:					
	Tubule Formation: 3/3 Nuclear Pleomorphism: 2/3					
	Mitotic Count (40x): 1/3					
	Modified Nottingham Grade: Grade II/III – moderately differentiated Skin Involvement: absent					
	Chest Wall Involvement: not applicable – none included with the specimen					
	Venous/Lymphatic Invasion: absent					
	Block(s) for Receptor Studies: being sent to: LHO Blocks Submitted: G					
	In Situ Carcinoma: absent					
	Comments: except in some very minute foci in and around the invasive tumor					
	Lymph Nodes:					
	Lymph Nodes Present: yes Number Examined: 1					
	Number Involved: U AJCC Staging:					
	Additional pTNM Descriptors: not applicable					
	Primary Tumor (pT): pT1C – tumor more than 1.0 cm but not more than 2.0 cm in greatest dimension					
	Distant Metastasis (pM): pMx – cannot be assessed Resection Margin(s):					
	(Involvement by Invasive Carcinoma, absent Classest Margin(s), doon, in a number of slides , and particularly class in Slide C					
	Closest Margin(s): deep, in a number of sides – and particularly close in side G					
	Correlation with IOC: not applicable					
	Additional Dathologic Eindings: reactive fibrasis around the careinoma					
	changes around the carcinema consistent with the effect of provious biopsy					
	come immunohistochemistry will be ordered to confirm some of the findings above – that will be reported in an					
	Addendum Report to follow					
	fibrocyctic change in the background reactive changes in the lymph node					
Final Dy	SKIN FLUDSE AND LINDERLYING REFAST AND ADDOSE TISSUE (LEET) LUMDECTOMVV INVASIVE DUCTAL CADCINOMA					
	ADDENDI M AND CONSULTATION REPORTS WITH RECEPTOR STATUS TO FOLLOW					
	I AB SERVICES					
DELMAR NV 1	2054					
INDEDENDENT						
INDEPENDENT	LADURATURT JERVILEJ, INC.					

E.2.1.1 CAP Synoptic Summary Report (retired)

Note that all data in the report is of value type (OBX-2) text ("TX"). The report style is informational only. It must not be used for CAP eCP reporting – Use the CAP eCP style instead.

MSH|^~\&||INDEPENDENT LAB SERVICES^33D1234567^CLIA|||200407281339||ORU^R01^ORU_R01|2004 072813390045|P|2.5.1|||||||||||VOL_V_51_ORU_R01^NAACCR_CP<CR>

- PID|1||00466144^^Albany Medical Center&123456&NPI^MR^Albany Medical Center~123456789^^^
 USSSA^SS^USSSA||Cane^Candy||19570706|F||2106-3^White^HL70005|495 East Overshoot Drive
 ^^Delmar^NY^12054^H|||||M<CR>
- **OBR**|1||19SF-7337^SFML^05D0576873^CLIA|**11529-5**^**Surgical Pathology Study**^LN|||20070725163 0|||123456^MYELOMUS^JOHN|||||TISS^Tissue^HL70487|594110NY^CARING^CAREN^^M.D.^^^NY_ PHYSICIANLICENSE^^^^MD||||||||||||||||09771&GLANCE&JUSTIN&&&&&M_PHYSICIANLICENS E<CR>
- **OBX** |1|TX|22636-5^Path report.relevant Hx^LN|1|47-year old white female with (L) UOQ breast m ass. Long stitch lateral.||||||F||20190703114458|SFML^05D0576873^CLIA<CR>
- OBX|2|TX|22633-2^Path report.site of origin^LN|1|Left breast lesion short stitch sup erior.||||||F||20190703114458|SFML^05D0576873^CLIA<CR>
- OBX|3|TX|22637-3^Path report.final diagnosis^LN|1|SKIN ELLIPSE AND UNDERLYING BREAST AN D ADIPOSE TISSUE (LEFT), LUMPECTOMY: INVASIVE DUCTAL CARCINOMA - ADDENDUM AND CONSUL TATION REPORTS WITH RECEPTORSTATUS TO FOLLOW||||||F|||20190703114458|SFML^05D057687 3^CLIA<CR>
- **SPM**|1|3567829^19SF-7337||TISS^Tissue^HL70487|K||||||||||||200407200930|200407211500 |||||||||||||97 810430^^33D1234567&INDEPENDENT LAB SERVICES<CR>
- **OBR**|2||19SF-7337^SFML^05D0576873^CLIA|**60568-3**^**Synoptic Report**^LN||2019070100||||||201 907011709|1|1306182530^Chalmers^Brenna^^^^CMS^L^^NPI|^WPN^PH^^1714^9923978~^WPN ^FX^^714^9923928||||20190702|||F||||||^1528402427&John&Sand hya&&&&&CMS<CR>
- **OBX**|1|ST|**60573-3^Report template source**^LN|2|**CAP Synoptic Summary**|||||F||20190703114458 |SFML^05D0576873^CLIA<CR>
- **OBX** |2|CWE|**60572-5**^**Report template ID**^LN|2|**169.1000043**^**Breast BiomarkerReporting Template** ^CAPECP||||||F||20190703114458|SFML^05D0576873^CLIA<CR>
- **OBX**|3|ST|**60574-1**^**Report template version ID**^LN|2|**1.003.001.1000043**|||||||F|||201907031144 58|SFML^05D0576873^CLIA<CR>
- OBX |4|TX|33746-9 ^Pathologic Findings^LN|2|Test(s) Performed: Estrogen Receptor (ER) Statu
 s (Note A) \X0D\\X0A\ Test(s) Performed: Progesterone Receptor (PgR) Status (NoteA) \X0D\\
 X0A\ Test(s) Performed: HER2 by Immunohistochemistry (Note B) \X0D\\X0A\ ER Results: Nega
 tive (less than 1%) \X0D\\X0A\ ER Test Control Status: Internal control cells present and s
 tain as expected \X0D\\X0A\ Test Type: Laboratory-developed test \X0D\\X0A\ PgR Test Control Status
 : Internal control cells present and stain as expected \X0D\\X0A\ PgR Test Control Status
 : Internal control cells present and stain as expected \X0D\\X0A\ Test Type: Laboratory-developed test \X0D\\X0A\ PgR Test Control Status
 : Internal control cells present and stain as expected \X0D\\X0A\ Test Type: Laboratory-de
 veloped test\X0D\\X0A\Primary Antibody: 312 \X0D\\X0A\ HER2 IHC Results: Negative (Score
 1+) \X0D\\X0A\ Test Type: Laboratory-developed test \X0D\\X0A\ Primary Antibody: CB11 \X0
 D\\X0A\ Cold Ischemia and Fixation Times: Meet requirements specified in latest version of
 the ASCO/ CAP Guidelines \X0D\\X0A\ Fixative: Formalin \X0D\\X0A\||||||F|||20190703114
 458|SFML^05D0576873^CLIA<CR>
- **SPM**|2|3567829^19SF-7337||TISS^Tissue^HL70487|K|||||||||||||200407200930|200407211500 |||||||||||||97 810430^^33D1234567&INDEPENDENT LAB SERVICES<CR>

E.2.1.2 Non-CAP Synoptic Segmented Report

Note that all data in the report that is carried in this message is of value type (OBX-2) text ("TX"). Note also that this illustrates the recommended use of OBX-4 Observation Sub-ID to link groups of observations with their heading title. The non-synoptic portion of the report is shown in the initial OBR.

OBR|1||97 810430|11529-5^Surgical Pathology Study^LN||200707200930||123456^MYELOMUS^

MSH|^~\&||INDEPENDENT LAB SERVICES^33D1234567^CLIA||200407281339||ORU^R01^ORU_R01|200 4072813390045|P|2.5.1|||||||| VOL_V_51_ORU_R01^NAACCR_CP<CR>

JOHN | | | 200407211500 | TISS^TISSUe^HL70487 | 594110NY^CARING^CAREN^^M.D.^^^NY PHYSICIA NLICENSE^^^^MD|||||||||||||||||109771&GLANCE&JUSTIN&&&&&&NPHYSICIANLICENSE<CR> OBX|1|TX|22637-3^Path report.final diagnosis^LN|1|SKIN ELLIPSE AND UNDERLYING BREAST A ND ADIPOSE TISSUE (LEFT), LUMPECTOMY: INVASIVE DUCTAL CARCINOMA - ADDENDUM AND CONS ULTATION REPORTS WITH RECEPTORSTATUS TO FOLLOW ||||||F<CR> OBX/2/TX/22636-5^Path report.relevant Hx^LN/1/47-year old white female with (L) UOQ br east mass | | | | | F<CR> OBX|3|TX|22633-2^Path report.site of origin^LN|1|Left breast lesion - short stitch sup erior.|||||F<CR> OBX|4|TX|22633-2^Path report.site of origin^LN|1|Long stitch lateral.||||||F<CR> 97 810430^^^33D1234567&INDEPENDENT LAB SERVICES<CR> **OBR**|2||97 810430|**60568-3^Synoptic report**^LN||200407200930||123456^MYELOMUS^JOHN||22 00407211500|TISS^Tissue^HL70487|594110NY^CARING^CAREN^^M.D.^^^NY PHYSICIANLICENSE^ ^^^MD|||||||||F|60567-5&Comprehensive pathology report panel&LN|||^97 810430|||1097 71&GLANCE&JUSTIN&&&&&NY PHYSICIANLICENSE<CR> OBX|1|ST|60573-3^Report template source^LN||non-CAP Synoptic Segmented|||||||F OBX/2/ST/60572-5^Report template ID^LN//Local Invasive Ductal Carcinoma of the Breast Template | | | | | F<CR> OBX|3|ST|60574-1^Report template version ID^LN||Release 2.1|||||||F<CR> OBX|4|TX|SPECIMEN SITE DESCRIBED ON CONTAINER: ||left breast lesion||||||F<CR> OBX |5 | TX | Header | 1 | SPECIMEN DESCRIPTION | | | | | F<CR> OBX|6|TX|Tissue/s:|1 |consistent with breast lumpectomy, with attached skin ellipse||||||F<CR> OBX|7|TX|Handling Prior to Receipt in Lab: |1|specimen received intact||||||F<CR> OBX 8 |TX Clinical Orientation: | attached short suture, described on requisition as "su perior" and attached long suture, described as "lateral" - used for the orientation of the specimen (below) | | | | | F<CR> OBX 9 TX Header 2 Resection Margins: | | | | F<CR> OBX | 10 | TX | Header | 2.1 | inked: | | | | | F<CR> OBX|11|TX|red|2.1|medial and lateral|||||F<CR> OBX|12|TX|blue|2.1|superior|||||F<CR> OBX|13|TX|green|2.1|inferior|||||F<CR> OBX|14|TX|black|2.1|deep|||||F<CR> OBX|15|TX|Other Handling in Lab: |2|sectioned and left for overnight fixation||||| |F<CR> OBX|16|TX|Approximate Fixation Time: |2|> 48 hours/ < 7 days||||||F<CR> OBX|17|TX|Specimen Size:|2|breast 7.1 x 6.2 x 2.5 cm in greatest dimensions skin ellip se 3.3 x 0.6 cm|||||F<CR> OBX|18|TX|Diagnostic Imaging for Identification of Suspect Area/s:|2 |not required|||||F<CR> OBX|19|TX|Breast Tumor:|2|present - see below||||||F<CR> OBX/20/TX/Size: 3/difficult to measure accurately; a 0.6 cm area of hemorrhage immedia tely adjacent tumor, obscuring tumor margin approximately 2.0 x 1.2 cm in greatest dimensions | | | | | F<CR> OBX/21/TX/Location:/3/11 o'clock - as per prior clinical history/////F<CR> OBX|22|TX|Appearance:|3|spiculated, ill-defined, firm, grey-white||||||F<CR> OBX|23|TX|Evidence of Spread or Complications:|3|none||||||F<CR> OBX|24|TX|Resection Lines: |4|0.3 cm from the closest resection margin - the deep 0.8 c m from the next closest resection margin - the junction of the superior and inferio r (superficially) 1.2 cm from all remaining resection margins, the next closest bei ng the medial || || || F<CR> OBX|25|TX|Other Breast: |4|moderately fibrous centrally, and surrounding tumor ||||||F<C R>OBX|24|TX|Nipple:|4|not applicable - not included with specimen||||||F<CR> OBX|25|TX|Skin:|4|normal|||||F<CR> OBX|26|TX|Lymph Nodes:|4|none seen|||||F<CR> OBX|27|TX|Axillary Tissue:|5|not applicable - none included with specimen||||||F<CR> OBX|28|TX|Other Abnormalities/ Comments:|5|none|||||F<CR> OBX|29|TX|MATERIAL SUBMITTED FOR HISTOLOGY: ||entire tumor, and other representative sections||||||F<CR> OBX|30|TX|Header|6|BLOCKS SUBMITTED TO HISTOLOGY: || || || F<CR>

- OBX|31|TX|A,B|6|complete cross-section of tumor, in its largest dimension split in t
 wo||||||F<CR>
- OBX|32|TX|C|6|tumor including closest (deep) resection margin||||||F<CR>
- OBX|33|TX|D-G|6|? tumor including deep margin||||||F<CR>
- OBX|34|TX|H|6|fibrous breast including inferior resection margin||||||F<CR>
- OBX|35|TX|I|7|breast including lateral resection margin||||||F<CR>
- OBX|36|TX|J|6|breast including medial resection margin||||||F<CR>
- OBX|37|TX|K|6|section immediately superficial, but perpendicular to that in A,B includ ing superior margin, and skin ellipse||||||F<CR>
- OBX|38|TX|Neoadjuvant Treatment: ||unknown not provided clinically||||||F<CR>
- OBX|39|TX|Specimen Type:||lumpectomy|||||F<CR>
- OBX|40|TX|Lymph Node Sampling: ||sentinel lymph node biopsy||||||F<CR>
- OBX|41|TX|Header|7|Specimen Size:||||||F<CR>
- OBX|42|TX|Greatest Dimension (cm):|7|7.1||||||F<CR>
- OBX|43|TX|Comments:|7|as described grossly||||||F<CR>
- OBX|44|TX|Laterality:|8|left|||||F<CR>
- OBX|45|TX|Comments:|8|as described clinically|||||F<CR>
- OBX|46|TX|Header|9|Features of Malignancy:||||||F<CR>
- OBX|47|TX|Tumor Site:|9.1|not specified clinically||||||F<CR>
- OBX|48|TX|Comments:|9.1|described as "11 o'clock" in the Clinical History for a previo us core biopsy (S*****) - likely the same site as the tumor in the specimen here|| ||||F<CR>
- OBX|49|TX|Invasive Carcinoma:|9|present|||||F<CR>
- OBX|50|TX|Histologic Type: 9.2 invasive ductal carcinoma || || || F<CR>
- OBX|51|TX|Comments:|9.2|with prominent lobular differentiation; for instance, the carc inoma spreads as individual cells and small groups of cells at the edge of the main tumor mass||||||F<CR>
- OBX|52|TX|Tumor Distribution:|9.3|single focus only||||||F<CR>
- OBX|53|TX|Comments:|9.3|seen in the area described grossly||||||F<CR>
- OBX|54|TX|Size of Invasive Component:|9.4|Greatest Dimension (cm): 1.1||||||F<CR>
- OBX|55|TX|Comments:|9.4|exact size difficult to be certain of, because of the effect o
 f previous biopsy, but appearing greater than 1.0 cm in largest dimension, from the
 microscopic slides|||||||F<CR>
- OBX|56|TX|Header|9.5|Histologic Grade:|||||F<CR>
- OBX|57|TX|Tubule Formation:|9.5|3/3||||||F<CR>
- OBX|58|TX|Nuclear Pleomorphism: |9.5|2/3|||||F<CR>
- OBX|59|TX|Mitotic Count (40x): |9.5|1/3||||||F<CR>
- OBX|60|TX|Modified Nottingham Grade: |9.5|Grade II/III moderately differentiated ||||| | F<CR>
- OBX|61|TX|Skin Involvement:||absent|||||F<CR>
- OBX|62|TX|Chest Wall Involvement: ||not applicable none included with the specimen ||| ||F<CR>
- OBX|63|TX|Venous/Lymphatic Invasion:||absent|||||F<CR>
- OBX|64|TX|Block(s) for Receptor Studies: |9.6|being sent to: LHO||||||F<CR>
- OBX|65|TX|Blocks Submitted:|9.6|G|||||F<CR>
- OBX|66|TX|In Situ Carcinoma: |9.7|absent|||||F<CR>
- OBX|67|TX|Comments:|9.7|except in some very minute foci in and around the invasive tum or||||||F<CR>
- OBX|68|TX|Header|10|Lymph Nodes:||||||F<CR>
- OBX|69|TX|Lymph Nodes Present: |10|yes|||||F<CR>
- OBX|70|TX|Number Examined: |10|1|||||F<CR>
- OBX |71 | TX | Number Involved: |10 | 0 | | | | | F<CR>
- OBX | 72 | TX | Header | 11 | AJCC Staging: | | | | | F<CR>
- OBX|73|TX|Additional pTNM Descriptors: |11|not applicable||||||F<CR>
- OBX|74|TX|Primary Tumor (pT):|11|pT1c tumor more than 1.0 cm but not more than 2.0 c m in greatest dimension||||||F<CR>
- OBX|75|TX|Distant Metastasis (pM): |11|pMx cannot be assessed||||||F<CR>
- OBX|76|TX|Header|12|Resection Margin(s):|||||F<CR>
- OBX|77|TX|Involvement by Invasive Carcinoma:|12|absent||||||F<CR>
- OBX|78|TX|Closest Margin(s):|12|deep, in a number of slides and particularly close i
 n Slide G||||||F<CR>
- OBX|79|TX|Distance to Closest Margin (mm):|12.1|1|||||F<CR>
- OBX|80|TX|Comments:|12.1|(0.1 cm)||||||F<CR>

OBX 81 TX Correlation with IOC: | not applicable | | | | F<CR> OBX 82 TX Additional Pathologic Findings: || reactive fibrosis around the carcinoma || || ||F<CR> OBX 83 | TX | ^ Additional Pathologic Findings: | | changes around the carcinoma consistent wi th the effect of previous biopsy || || || F<CR> OBX/84/TX/^Additional Pathologic Findings://some immunohistochemistry will be ordered to confirm some of the findings above - that will be reported in an Addendum Report to follow || || || F<CR> OBX 85 | TX | Additional Pathologic Findings: | | fibrocystic change in the background | | | | | F<CR> OBX/86/TX/^Additional Pathologic Findings: ||reactive changes in the lymph node ||||||F< CR> OBX|87|TX|22637-3^Pathology report final diagnosis^LN||SKIN ELLIPSE AND UNDERLYING BRE AST AND ADIPOSE TISSUE (LEFT), LUMPECTOMY: INVASIVE DUCTAL CARCINOMA - ADDENDUM AND CONSULTATION REPORTS WITH RECEPTORSTATUS TO FOLLOW || | | | | F<CR> 97 810430^^^33D1234567&INDEPENDENT LAB SERVICES<CR>

E.2.1.3 Narrative and Synoptically Segmented styles for the same content

The following is a simple message illustrating the structure of a comprehensive report panel, including both a narrative report and a synoptically segmented report with the same content. Note the use of the comprehensive report panel as a "container" for the two reports having the same content but different styles of reporting. The example report includes just the pathology section of a larger case report and illustrates the transmission of just this pathology information to the registry.

PROCEDURE

6/15 Bilateral pelvic lymphadenectomy with radical retropubic prostatectomy

PATHOLOGY

Lymphadenectomy and prostatectomy:

<u>Gross description</u>: Specimen #1 "right pelvic obturator lymph nodes" consists of two portions of adipose tissue measuring 2.5 x 1 x 0.8 cm and 2.5 x 1 x 0.5 cm. There are two lymph nodes measuring 1 x 0.7 cm and

x 0.5 cm. The entire specimen is cut into several portions and totally embedded. Specimen #2 labeled "left pelvic obturation lymph nodes" consists of an adipose tissue measuring $4 \times 2 \times 1$ cm. There are two lymph nodes measuring 1.3×0.8 cm and 1×0.6 cm. The entire specimen is cut into several portions and totally embedded. Specimen #3 labeled "prostate" consists of a prostate. It measure $5 \times 4.5 \times 4$ cm. The external surface shows a very small portion of seminal vesicles attached in both sides with tumor induration. External surface also shows tumor induration especially in the right side. External surface is stained with green ink. The cut surface shows diffuse tumor induration especially in right side. The tumor appears to extend to excision margin.

<u>Microscopic description</u>: Section #1 reveals lymph node. There is no evidence of metastatic carcinoma. Section #2 reveals lymph node with tumor metastasis in section of large lymph node as well as section of small lymph node. Section #3 reveals adenocarcinoma of prostate, Gleason score 9 (5 + 4). The tumor shows extension to periprostatic tissue as well as margin involvement. Seminal vesicle attached to prostate tissue shows tumor invasion.

Adenocarcinoma of prostate, Gleason score 9, with both lobe involvement and seminal vesicle involvement (T3b)

There is lymph node metastasis (N1)

Distance metastasis cannot be assessed (MX)

Excision margin is positive and there is tumor extension to periprostatic tissue

FINAL DIAGNOSIS

Adenocarcinoma of prostate

This same report, synoptically structured, might appear as:

Date: 6/15/2009

Procedure: Bilateral pelvic lymphadenectomy with radical retropubic prostatectomy Prostate size: 5 x $4.5 \times 4 \text{ cm}$

Lymph Node Sampling: Pelvic lymph node dissection Histologic Type: Adenocarcinoma Histologic Grade: Gleason Pattern Primary Pattern: 5

Secondary Pattern: 4 Tertiary Pattern: N/A Total Gleason Score: 9

Extraprostatic Extension: Present, Nonfocal (established, extensive), periprostatic tissue, bilateral seminal vesicles

Seminal Vesicle Invasion: Present Pathologic Staging (pTNM):

Primary Tumor (pT): pT3 Regional Lymph Nodes (pN): pN1 Number examined: 4 Number involved: 2

Margins: Excision margin is positive Distant Metastasis (pM): cannot be assessed

The message containing both reports would be encoded as:

E.2.1.3.1 Example: Narrative and Non-CAP Synoptically Segmented

MSH|^~\&||INDEPENDENT LAB SERVICES^33D1234567^CLIA|||200907281339||ORU^R01^ORU_R01 |2004072813390045|P|2.5.1|||||||||| VOL_V_51_ORU_R01^NAACCR_CP<CR>

PID | 1 | 00466144^^^ Albany Medical Center 123456& NPI ^MR^ Albany Medical Center

~123456789^^^USSSA^SS^USSSA||Cane^Candy||19570706|F||2106-3^White^HL70005

|495 East Overshoot Drive^^Delmar^NY^12054^^H||||M<CR>

ORC |RE || || || || || || || || || || || Albany Medical Center |43 New ScotlandAve.^^Albany^NY^12208 || 43 New Scotland Ave.^^Albany^NY^12208<CR>

OBR | 1 | | 97810430 | 11529-5^Surgical pathology study^LN | | 200907261500 | | | | | | | | TISS

OBX |1|FT|22633-2^Path report.**site of origin**^LN|1|Lymphadenectomy and prostatectomy|||||F ||200906151400|INDEPENDENT LAB SERVICES^33D1234567^CLIA<CR>

- OBX |2|FT|22634-0^Pathology report gross observation^LN|1|Specimen #1 "right pelvic obt urator lymph nodes" consists of two portions of adipose tissue measuring 2.5 x 1 x 0.8 cm and 2.5 x 1 x 0.5 cm.There are two lymph nodes measuring 1 x 0.7 cm and 0.5 x 0.5 cm.The entire specimen is cut into several portions and totally embedded.Spec imen #2 labeled "left pelvic obturation lymph nodes" consists of an adipose tissue measuring 4 x2 x 1 cm.There are two lymph nodes measuring 1.3 x 0.8 cm and 1 x 0.6 c m.The entire specimen is cut into several portions and totally embedded.Specimen #3 labeled "prostate" consists of a prostate.It measure 5 x 4.5 x 4 cm.The external su rface shows very small portion of seminal vesicles attached in both sides with tumo r induration.External surface also shows tumor induration especially in right side. External surface is stained with green ink.The cut surface shows diffuse tumor indu ration especially in right side.The tumor appears to extend to excision margin.|||| ||F|||200906151400|INDEPENDENT LAB SERVICES^33D1234567^CLIA<CR>
- **OBX** |3|FT|22635-7^Path report.microscopic observation^LN|1|Section #1 reveals lymph node. T here is no evidence of metastatic carcinoma. Section #2 reveals lymph node with tumor metas tasis in section of large lymph node as well as section of small lymph node.Section #3 revea ls adenocarcinoma of prostate, Gleason score 9 (5+4).The tumor shows extension to peripro static tissue as well asmargin involvement.Seminal vesicle attached to prostate tissue sh ows tumor invasion.\XOD\\XOA\A. Adenocarcinoma of prostate, Gleason score 9, with both lob

```
asis (N1) \X0D\\X0A\C.Distance metastasis cannot be assessed (MX) \X0D\\X0A\D.Excision ma
   rgin is positive and there is tumor extension to periprostatic tissue ||||||F|||2009061516
   00 | INDEPENDENT LAB SERVICES^33D1234567^CLIA<CR>
OBX |4 |FT | 22637-3^Path report. final diagnosis^LN |1 | Adenocarcinoma of prostate | | | | | | F
|||200906151600|INDEPENDENT LAB SERVICES^33D1234567^CLIA<CR>
SPM|1|^97810430&HITECKSPCID&01D0301145&CLIA||TISS^Tissue^HL70487||||||||||||||||||200704020
   930|200704021500||||||||||||0704500123^^33D1234567&Independent Lab
   Services&CLIA<CR>
OBR|2||97810430|60568-3^Synoptic report^LN|||200506151630||||||||TISS|164341^SURGEON^HA
   |||^97810430|||55555555&Welby&Marcus&&&Dr.&MD&&NPI<CR>
OBX | 1 | ST | 60573-3^Report template source^LN | 2 | Institution Cancer Checklists Synoptic Segmen
   ted | | | | | F | 200906151630<CR>
OBX | 2 | ST | 60572-5^Report template ID^LN | 2 | PROSTATEGLAND | | | | | | | | | | | | | 200906151630<CR>
OBX 3 ST 60574-1^Report template version ID^LN 2 2.6 | | | | | F | 200906151630<CR>
OBX 4 TX Procedure | Bilateral pelvic lymphadenectomy with radical retropubic prostatectomy
   ||||||F||200906151630<CR>
OBX |5|TX|Prostate size: ||5 x 4.5 x 4 cm||||||F||200906151630<CR>
OBX |6|TX|Lymph Node Sampling: ||Pelvic lymph nodedissection ||||||F||200906151630<CR>
OBX 7 TX Histologic Type: ||Adenocarcinoma||||||F||200906151630<CR>
OBX |8|TX|Histologic Grade: |1|Gleason Pattern||||||F|||200906151630<CR>
OBX 9 TX Primary Pattern: 15 || || F || 200906151630 < CR>
OBX 10 TX Secondary Pattern: 114111 F11200906151630<CR>
OBX |11 | TX | Tertiary Pattern: |1 | N/A | | | | | F | | 200906151630 < CR >
OBX |12 | TX | Total Gleason Score: |1 |9 | | | | | F | | 200906151630<CR>
OBX 13 | TX | Extraprostatic Extension: || Present, Nonfocal (established, extensive), peripros
   tatic tissue, bilateral seminal vesicles || || || F| || 200906151630 < CR>
OBX 14|TX|Seminal Vesicle Invasion: ||Present||||||F||200906151630<CR>
OBX 15|TX|Header|2|Pathologic Staging (pTNM): |||||||||||||||200906151630<CR>
OBX|16|TX|Primary Tumor (pT): |2|pT3||||||F|||200906151630<CR>
OBX 17 | TX | Regional Lymph Nodes (pN): |3 | pN1 | | | | | | | | | | 200906151630<CR>
OBX | 18 | TX | Number examined: | 3 | 4 | | | | | F | | 200906151630<CR>
OBX|19|TX|Numberinvolved:|3|2|||||F||200906151630<CR>
OBX 20 | TX | Margins: | | Excision margin is positive | | | | | | | | | | 200906151630<CR>
OBX 21|TX|Distant Metastasis (pM): ||cannot beassessed|||||||F||200906151630<CR>
SPM|1|^97810430&HITECKSPCID&01D0301145&CLIA||TISS^Tissue^HL70487||||||||||||||||||200704020
   930|200704021500||||||||||||0704500123^^^33D1234567&Independent Lab Services&CLIA
   <CR>
```

e involvement and seminal vesicle involvement (T3b) \X0D\\X0A\B.There is lymph nodemetast

E.2.1.4 Complex Report: Multiple Sites, Multiple Primaries; Narrative and Synoptic Segmented There are many complexities relative to incorporating multiple specimens and/or multiple primary cancers in a single cancer report, and there remain some outstanding issues. These are under discussion by the CAP Cancer Committee at the time of publication of this document. In the meantime, the following recommendations are explained for packaging such information into an HL7 message consistent with this Guide.

Several guidelines form a pattern for reporting complex cases with multiple primary cancers and/or multiple specimens in the same report. These guidelines are as follows:

- The entire case report is in a single HL7 message, which is likely to contain multiple OBR segments.
- The first OBR segment in the message may identify the comprehensive report panel and collects all the report types and styles that pertain to the case. Associated with this first OBR, there may

be one or more OBX segments which contain information that is not specific to a particular specimen or a particular cancer, or a particular site, such as clinical history.

- Multiple OBX segments that represent parts of the same observation (same value in OBX-3 Observation ID) should have the same value in OBX-4 Observation sub-ID. This may occur when systems "break up" a long text result field across multiple segments, or when a group of findings across several OBX segments should be logically kept together. The example below shows several observations that are indicated as having been reviewed and electronically signed by a certain physician. These all share the same OBX-4 Observation sub-ID. In addition, many reports follow a templated pattern where there may be headers for groups of related documented items, such as "Margins:". All the OBX segments documenting this group share the same OBX-4 Observation Sub-ID value.
- Each individually identified specimen in the case has its own OBR and SPM segments.
- The observations and findings specific to a certain specimen are reported in the OBX segments following the OBR for that specimen. All OBX segments associated with an SPM segment should have the OBX-4 Observation Sub-ID field reported with the same value in OBR-1 and SPM-1 fields of the associated OBR and SPM segments.

Below is a complex example. The lengthy HL7 message following the case report illustrates how therules defined in this version of the Guide may be applied to properly encode such a case in an HL7 ORU_R01 message conformant to this Specification and Guide.

This example case shows a multi-specimen with multi-primary report. Note that this report also has identified separate specific sections. This case and report are of invasive urothelial carcinoma, and adenocarcinoma of the colon, combined in one report, with text and synoptic reports, plus separate sections. It includes observations particular to specimens, as well as information related to the overall case. The example also shows the report being transmitted with part of the report as **Narrative** style, and part as **synoptically segmented** format in the same message.

Accession #: 97810430

CLINICAL HISTORY

Bladder tumor, rectal cancer metastasis or post radiation therapy necrosis

TISSUE SUBMITTED

- A. Bladder tumor
- B. Symphysis pubis bone
- C. Prostate and bladder
- D. Left pelvic lymph nodes
- E. Partial symphysiotomy
- F. Left pubic ramus biopsy
- G. Right pelvic lymph node dissection
- H. Rectum

GROSS PATHOLOGY

Gross Description

The specimen consists of numerous rubbery tan fragments measuring approximately 5 cm in aggregate. The fragments range in size from a few mm up to 1.5 cm. Several fragments are submitted in

(A1FS&A2FS). BFS: The specimen consists of multiple irregular fragments of soft tissue and bone, the largest measures approximately 2 cm in maximum dimension. Representative soft tissue is submitted in B1FS and B2FS.

Preliminary Diagnosis

Bladder tumor, biopsy: positive for malignancy.

Reviewed and electronically signed by: J. Pathdoc, MD- 2007/04/03 11:26

BFS: Biopsy of symphysis pubis bone and soft tissue: positive for malignancy. Reviewed and electronically signed by: J. Pathdoc, MD- 2007/04/03 13:10

A: Please see description at time of Intraoperative Consultation.

B: Please see description at time of Intraoperative Consultation.

C: The specimen consists of a cystoprostatectomy, which measures 10 cm in length and 10 cm in width. The bladder and prostate measure 7 cm in length and 3.2 x 2.2 x 1.2 cm, respectively. The anterior surface of the specimen, which is non-peritonealized, is inked in green and black on the right and left sides, respectively.

The right and the left ureters are identified by sutures and measure 2.5 x 0.4 cm and 2.3 x 0.4 cm, respectively. The anterior surface (non-peritonealized) is firm on palpation. Sectioning through the bladder reveals a very firm and thickened bladder wall, which measures a maximum of 1.6 cm. The mucosa of the bladder is irregular and denuded on the anterior aspect, which extends to the dome of the bladder. Further sectioning through the thickened wall reveals a pale tan firm lesion, which appears to involve the bladder wall through its full thickness. Sectioning of the prostate and seminal vesicles is unremarkable.

Sections submitted are as follows: (C1) ureteric margins in face; (C2-3) (C4) (C5-6) full thickness section of bladder showing firm pale tan lesion; (C7) bladder neck; (C8, 9) anterior wall of bladder; (C10, 11) posterior wall of bladder; (C12) (C13-14) full thickness sectioning showing dome of bladder; (C15, 16) trigone of bladder; (C17) sections right ureter; (C18) sections left ureter; (C19-22) right seminal vesicle in toto; (C23) base of right seminal vesicle; (C24) apex of right lobe of prostate; (C25) base of right lobe of prostate; (C26-31) cross sections of prostate in toto from apex to base; (C32-33) left seminal vesicle in toto; (C34) base of left seminal vesicle; (C35) apex of left lobe of prostate; (C36) base of left lobe of prostate; (C37-43) left lobe of prostate in toto from apex to base.

D: The specimen consists of a fragment of adipose tissue, which measures 6.5 x 3.5 x 0.5 cm. Palpation reveals possible nodes. Sections submitted are as follows: (D1) possible five node; (D2) possible five nodes; (D3) possible four nodes.

E: Gross description to follow decalcification. Supplemental report to follow.

F: The specimen consists of pale tan fragments of bony tissue which measures 2 x 1.1 x 0.5 cm. All tissue embedded in one cassette and submitted for decalcification (F1).

G: The specimen consists of multiple fragments of dark tan adipose tissue, which vary in size from $1 \times 0.5 \times 0.3$ cm to $5 \times 2 \times 2.5$ cm. Palpation reveals possible nodes. Sections submitted are as follows: (G1) possible three nodes; (G2) possible four nodes; (G3) possible five nodes.

H: The specimen consists of a mesorecta excision, which is comprised of the sigmoid colon, rectum, anal canal, and anus. The specimen measures 30 cm in length and 6 cm along its maximum diameter. Externally, the serosa of the large bowel is dark tan, smooth, and shiny for the most part except for an area that appears firm and subtly puckered and feels firm. It is located at 18 cm from the proximal

resection margin and 10 cm from the distal resection margin. The anterior bare area of the mesorectum is inked in blue, while the posterior bare area of mesorectum is inked in black. The mesorectum is intact and bulky. There are no defects, no coning of the specimen, and no abnormally firm areas. The specimen has been previously opened as per the MRE protocol. Internally, underneath the puckered area there is an exophytic, pale tan lesion, which measures 2.6 x 2.5 x 2.3 cm. This lesion is located at 18 cm from the proximal resection margin and 10 cm from the distal resection margin. It is located at 2.5 cm from the radial resection margin. There is a small polyp measuring 1.1 cm along its maximum dimensions located at 8 cm from the proximal, distal, and radial resection margins have been inked in black prior to submitting sections. Sectioning of the exophytic mass reveals that grossly it does not appear to have invaded beyond the muscularis propria. There is a small polyp noted measuring 1.1 cm along its maximum dimensions and located at 8 cm from the proximal resection margins have been inked in black prior to submitting sections. Sectioning of the exophytic mass reveals that grossly it does not appear to have invaded beyond the muscularis propria. There is a small polyp noted measuring 1.1 cm along its maximum dimensions and located at 8 cm from the proximal resection margins have been inked in black prior to submitting sections.

Sections submitted are as follows: (H1) proximal resection margin; (H2) distal resection margin; (H3) radial resection margin/circumferential resection margin; (H4-6) full thickness sectioning showing exophytic pale tan lesion; (H7-8) full thickness section showing exophytic pale tan lesion; (H7) uninvolved large bowel; (H10) possible four nodes; (H11) one node bisected into two; (H12) possible four nodes; (H13) possible four nodes; (H14) one node bisected into two; (H15) possible one node bisected into two; (H16) polyp in toto.

MICROSCOPIC

A: Sections examined.

B: Sections examined.

C: Sections of the bladder show invasive urothelial carcinoma, high grade. It is extending through the muscularis propria into the perivesical. The anterior margin/anterior surface of the bladder is positive for malignancy. The ureteric margins are negative. There is no evidence of lymphatic, vascular or perineural invasion. There is a significant amount of fibroinflammatory reaction present on the peritoneal surface raising suspicion of focal penetration. However, no tumor is appreciated on the peritoneal surface in the tissue sections examined. Sections of prostate show focal areas of atrophic glands. There is no evidence of prostatic adenocarcinoma, PIN, ASAP, active and chronic inflammation. The urothelial carcinoma does not appear to involve the prostate, seminal vesicles, or bowel.

D: Sections examined.

G: Sections examined.

H: COLON AND RECTUM: Resection, Including Transanal Disk Excision of Rectal Neoplasms Tissue(s) received: sigmoid colon. rectum, anal canal, anus

Specimen type: abdominoperineal resection Histologic Type: adenocarcinoma Histologic Grade: low grade (well to moderately differentiated) Tumor Site: rectum Depth of Invasion: invasion into muscularis propria (pT2) Tumor Border Configuration: infiltrating Lymphovascular (Small Vessel) Invasion: absent Venous (Large Vessel) Invasion: absent Perineural Invasion: absent Host Response: Conspicuous lymphocytes at invasive edge (not in aggregates): absent Lymphoid aggregates in surrounding tissues: absent Intratumoral lymphocytic infiltrate: absent Resection Margins: Proximal: uninvolved by invasive carcinoma Distal: uninvolved by invasive carcinoma Radial: uninvolved by invasive carcinoma Distance of invasive carcinoma from closest margin: 2.5 from radial margin Lymph Node Status: no malignancy in 11 regional lymph nodes (pN0) Additional Pathological Findings: adenoma(s) Pathological Stage: pT2N0Mx

DIAGNOSIS

A: Bladder tumor, biopsy: positive for invasive urothelial carcinoma.

B: Biopsy, symphysis pubis bone and soft tissue: positive for urothelial carcinoma.
C: Prostate and bladder, cystoprostatectomy: invasive urothelial carcinoma, high grade; extending through muscularis propria; anterior margin/anterior surface of the bladder positive for tumor; ureteric margins negative; no evidence of lymphatic, vascular or perineural invasion; prostate unremarkable.

D: Left pelvic lymph node, excisional biopsy: 7 nodes negative for malignancy.

E: Partial symphyectomy: pending decalcification, supplemental report to follow.

F: Biopsy, left pubic ramus: pending decalcification, supplemental report to follow.

G: Right pelvic lymph nodes, excisional biopsy: 11 lymph nodes negative for malignancy.

H: Sigmoid colon, rectum, anus, abdominoperineal resection: adenocarcinoma of the colon (see synoptic report); arising in villous adenoma.

Case reviewed with..., M.D., Resident CLASSIFICATION

Topography: C679 C187 Morphology: 81203 81403 Laterality:

E.2.1.4.1 Example: Structured Narrative and CAP Synoptic Segmented (non-eCP)

This example illustrates the HL7 Message encoding of the above example report. There are three OBR segments: one for the overall summary report, one for the **structured narrative** report, and one for the **CAP synoptic segmented** report, based on a CAP Cancer Protocol (non-eCP). Note that the "CAP eCP" format (See section E.2.3) must now be used for systems using the CAP eCPs.

There are eight SPM segments, one for each of the eight individually identified and documented tissue specimens in the case. Local codes for OBX-3 values are "made up" in this example, as the narrative report above does not identify such codes; these are required because the OBX-3 is a CE field and must have a coded value to identify what is being reported in the OBX-5 Observation Value field.

In the example below, the string "<CR>" is used at the end of every segment to indicate the end of the segment, rather than a line-break for long text. This is not part of the legal HL7 message, but is a construct used here to make the message more readable. The example also illustrates a situation where the

different specimen parts have all been accessioned differently, but there is a single surgical path number for the entire case (97810430).

- **MSH**|^~\&|TESTLAB1|HITECK PATH LAB^01D0301145^CLIA|||200704281800||ORU^R01^ORU_R01|20040 42813390045|P|2.5.1||||||||||VOL V 51 ORU R01^NAACCR CP <CR>
- **PID**|1||123456789^^^SS~000039^^^PI|CANE^Candy^^Ms.||19570706|F||2106-3|495 East Overs hoot Drive^Delmar^NY^12054^H||^^^518^5559999|||M|||4442331235 <CR>
- **OBR**|1||97810430|**60567-5**^**Comprehensive pathology report panel**^LN|||200704261530|||||||200 704261800|TISS^Tissue^HL70487|1234567^Myeolmus^John^^^Dr^MD^^^^NPI|518)424-4243|| ||||||F||||||P123456&PATHDOC&Jason&A&DR&&DR&&MPI <CR>
- **OBX**|1|TX|22636-5^**clinical history**^LN|1|Bladder tumor, rectal cancer metastasis or post rad iation therapy necrosis||||||F||200704281500|01D0301145^HITECK PATH LAB^CLIA <CR>
- OBX |2|TX|22634-0^Path Report.Gross Observation^LN^L567^GROSS PATHOLOGY^L|2|The specimen c onsists of numerous rubbery tan fragments measuring approximately 5 cm in aggregate.The fr agments range in size from a few mm up to 1.5 cm. Several fragments are submitted in (A1FS&A2 FS).BFS: The specimen consists of multiple irregular fragments of soft tissue and bone, th e largest measures approximately 2 cm in maximum dimension. Representative soft tissue iss ubmitted in B1FS and B2FS.|||||F||200704281500|01D0301145^HITECK PATH LAB^CLIA <CR>
- OBX|3|TX|44833-2^Diagnosis.preliminary^LN|1|Bladder tumor, biopsy: positive for malignanc y.||||||F||200704281500|01D0301145^HITECK PATH LAB^CLIA<CR>
- OBX |4|TX|44833-2^Diagnosis.preliminary^LN|1|BFS: Biopsy of symphysis publis bone andsoft ti
 ssue: positive for malignancy.||||||F|||200407201500|01D0301145^HITECK PATH LAB^CLIA
- **OBX**|5|CWE|21855-2^**Primary site Cancer**^LN|1|C679^Bladder Wall^ICD03||||||F||200704281500 |01D0301145^HITECK PATH LAB^CLIA <CR>
- **OBX** |6|CWE|21855-2^**Primary site Cancer**^LN|1|C187^Sigmoid Colon^ICDO3||||||F||20070428150 0|01D0301145^HITECK PATH LAB^CLIA<CR>
- **OBX** |7|CWE|59848-2^Morphology.**ICD-O-3**^LN|1|81203^Transitional CellCarcinoma, NOS^ICDO3|| ||||F||200704281500|01D0301145^HITECK PATH LAB^CLIA <CR>
- **OBX** |8|CWE|59848-2^Morphology.**ICD-O-3**^LN|1|81403^Adenocarcinoma NOS^ICDO3||||||F||20070 4281500|01D0301145^HITECK PATH LAB^CLIA<CR>
- **SPM**|1|^97810430&HITECKSPCID&01D0301145&CLIA||TISS^**Tissue**^HL70487||||||||||||||||200704020 930|200704021500||||||||||||0704500123^^01D0301145&HITECK PATH LAB&CLIA<CR>
- OBR|2||97810430A|11529-5^Surgical Pathology Study^LN||200704261530||||||
- 200704261800|TISS^Tissue^|1234567^Myeolmus^John^^^Dr^MD^^^^NPI|(518)424-4243||||| |||F|||||||P123456&PATHDOC&Jason&A&&DR&&&NPI <CR>

OBX |1|TX|22633-2^Path Report.**Site of origin**^LN^L47^SUBMITTED TISSUE^L|2|A. Bladder tumor| |||||F||200704281500|01D0301145^HITECK PATH LAB^CLIA <CR>

- OBX |2|TX|22634-0^Path Report.Gross Observation^LN^L567^GROSS PATHOLOGY^L|2|A:
 Pleasesee description at time of Intraoperative Consultation.||||||F|||200704110841|01
 D0301145^HITECK PATH LAB^CLIA <CR>
- **OBX** 3 TX 22635-7^Path Report. **Microscopic Observation**^LN^L589^MICROSCOPIC^L 2 A: Sections examined. ||||||F||200704110841 01D0301145^HITECK PATH LAB^CLIA <CR>
- OBX |4|TX|22637-3^Path report.final diagnosis^LN|2|A: Bladder tumor, biopsy: positive for in vasive urothelial carcinoma.||||||F|||200704110841|01D0301145^HITECK PATH LAB^ CLIA<CR>

SPM|2|^97810430A&HITECKSPCID&01D0301145&CLIA||TISS^**Tissue**^HL70487||||||||||||||20070402 0930|200704021500||||||||||||0704500123^^01D0301145&HITECK PATH LAB&CLIA<CR>

OBR|3||97810430B|11529-5^Surgical Pathology Study^LN||200704261530||||||| 200704261800|TISS^Tissue^|1234567^Myeolmus^John^^^Dr^MD^^^NPI|(518)424-4243||||| |||F|||||||P123456&PATHDOC&Jason&A&&DR&&&NPI<CR>

OBX |1|TX|22633-2^Path Report.Site of origin^LN^L47^SUBMITTED TISSUE^L|3|B. Symphysis pubis bone||||||F||200704281500|01D0301145^HITECK PATH LAB^CLIA <CR>

OBX 2 | TX 22634-0^Path Report. **Gross Observation**^LN^L567^GROSS PATHOLOGY^L 3 | B:

Please see description at time of Intraoperative Consultation.||||||F|||200704110841|0 1D0301145^HITECK PATH LAB^CLIA <CR>

OBX 3 TX 22635-7^Path Report. **Microscopic Observation**^LN^L589^MICROSCOPIC^L 3 B: Sections examined. ||||||F||200704110841 01D0301145^HITECK PATH LAB^CLIA <CR>

- OBX|4|TX|22637-3^Path report.final diagnosis^LN|3|B: Biopsy, symphysis pubis bone and soft tissue: positive for urothelial carcinoma.||||||F||200704110841|01D0301145^HITECK PAT H LAB^CLIA <CR>
- **SPM**|3|^97810430B&HITECKSPCID&01D0301145&CLIA||TISS^**Tissue**^HL70487|||||||||||||20070402 0930|200704021500||||||||||||0704500123^^01D0301145&HITECK PATH LAB&CLIA<CR>
- **OBR**|4||97810430C|11529-5^Surgical Pathology Study^LN||200704261530||||||| 200704261800|TISS^Tissue^|1234567^Myeolmus^John^^^Dr^MD^^^^NPI|(518)424-4243||||| |||F||||||P123456&PATHDOC&Jason&A&&DR&&&NPI<CR>
- **OBX** |1 |TX | 22633-2^Path Report.**Site of origin**^LN^L47^SUBMITTED TISSUE^L|4|C. Prostate and bladder||||||F||200704281500|01D0301145^HITECK PATH LAB^CLIA <CR>
- **OBX** 2 TX 22634-0^Path Report. **Gross Observation** LN^L567^GROSS PATHOLOGY^L 4 C: The specime n consists of a cystoprostatectomy, which measures 10 cm in length and 10 cm in width. The bl adder and prostate measure 7 cm in length and 3.2 x 2.2 x 1.2 cm, respectively. The anterior s urface of the specimen, which is non-peritonealized, is inked in green and black on the righ t and left sides, respectively. The right and the left ureters are identified by sutures and measure 2.5 x 0.4 cm and 2.3 x 0.4 cm, respectively. The anterior surface (non-peritonealiz ed) is firm on palpation. Sectioning through the bladder reveals a very firm and thickened b ladder wall, which measures a maximum of 1.6 cm. The mucosa of the bladder is irregular and d enuded on the anterior aspect, which extends to the dome of the bladder. Further sectioning through the thickened wallreveals a pale tan firm lesion, which appears to involve the blad der wall through its full thickness. Sectioning of the prostate and seminal vesicles is unr emarkable.Sections submitted are as follows: (C1) ureteric margins en face; (C2-3) (C4) (C 5-6) full thickness section of bladder showing firm pale tan lesion; (C7) bladder neck; (C8 , 9) anterior wall of bladder; (C10, 11) posterior wall of bladder; (C12) (C13-14) full thic kness sectioning showing dome of bladder; (C15, 16) trigone of bladder; (C17) sections rig ht ureter; (C18) sections left ureter; (C19-22) right seminal vesicle in toto; (C23) base o fright seminal vesicle; (C24) apex of right lobe of prostate; (C25) base of right lobe of pr ostate; (C26-31) cross sections of prostate in toto from apex to base; (C32-33) left semina l vesicle in toto; (C34) base of left seminal vesicle; (C35) apex of left lobe of prostate; (C36) base of left lobe of prostate; (C37-43) left lobe of prostate in toto from apex to base. ||||||F||200704110841|01D0301145^HITECK PATHLAB^CLIA <CR>
- **OBX** |3|TX|22635-7^PathReport.**MicroscopicObservation**^LN^L589^MICROSCOPIC^L|4|C:Sections of the bladder show invasive urothelial carcinoma, high grade. It is extending through the muscularis propria into the perivesical. The anterior margin/anterior surface of the blad der is positive for malignancy. The ureteric margins are negative. There is no evidence of 1 ymphatic, vascular, or perineural invasion. There is a significant amount of fibroinflamma tory reaction present on the peritoneal surface raising suspicion of focal penetration. Ho wever, no tumor is appreciated on the peritoneal surface in the tissue sections examined. S ections of prostate show focal areas of atrophic glands. There is no evidence of prostatic a denocarcinoma, PIN, ASAP, active and chronic inflammation. The urothelial carcinoma does not appear to involve the prostate, seminal vesicles or bowel.||||||F|||200704110841|01 D0301145^HITECK PATH LAB^CLIA <CR>
- OBX |4|TX|22637-3^Path report.final diagnosis^LN|4|C: Prostate and bladder, cystoprosta tectomy: \X0D\\X0A\ - invasive urothelial carcinoma, high grade; \X0D\\X0A\ - exten ding through muscularis propria; \X0D\\X0A\ - anterior margin/anterior surface of t he bladder positivefor tumor; \X0D\\X0A\ - ureteric margins negative; \X0D\\X0A\ no evidence of lymphatic, vascular or perineural invasion; \X0D\\X0A\ - prostate un remarkable.||||||F||200704110841|01D0301145^HITECK PATH LAB^CLIA <CR>
- **SPM**|4|^97810430C&HITECKSPCID&01D0301145&CLIA||TISS^**Tissue**^HL70487||||||||||||||20070402 0930|200704021500|||||||||||||0704500123^^01D0301145&HITECK PATH LAB&CLIA<CR>

OBR|5||97810430D|11529-5^Surgical Pathology Study^LN||200704261530||||||| 200704261800|TISS^Tissue^|1234567^Myeolmus^John^^^Dr^MD^^^NPI|(518)424-4243||||| |||F||||||P123456&PATHDOC&Jason&A&&DR&&&NPI<CR>

- **OBX** |1|TX|22633-2^Path Report.**Site of origin**^LN^L47^SUBMITTED TISSUE^L|5|D. Left pelvic lym ph nodes||||||F||200704281500|01D0301145^HITECK PATH LAB^CLIA <CR>
- OBX |2|TX|22634-0^Path Report.Gross Observation^LN^L567^GROSS PATHOLOGY^L|5|The specimen c onsists of a fragment of adipose tissue, which measures 6.5 x 3.5 x 0.5 cm. Palpation reveal s possible nodes. Sections submitted are as follows: (D1) possible five node; (D2) possibl e five nodes; (D3) possible four nodes.||||||F|||200704110841|01D0301145^HITECK PATH LA B^CLIA <CR>
- **OBX** 3 TX 22635-7^Path Report. **Microscopic Observation**^LN^L589^MICROSCOPIC^L 5 D: Sections examined. || || || F || 200704110841 01D0301145^HITECK PATH LAB^CLIA <CR>
- OBX|4|TX|22637-3^Path report.final diagnosis^LN|5|D: Left pelvic lymph node, excisional bio
 psy: 7 nodes negative for malignancy.||||||F|||200704110841|01D0301145^HITECK PATH LAB^
 CLIA <CR>

SPM|5|^97810430D&HITECKSPCID&01D0301145&CLIA||TISS^**Tissue**^HL70487|||||||||||||20070402 0930|200704021500||||||||||||0704500123^^01D0301145&HITECK PATH LAB&CLIA<CR>

- OBR |6||97810430E|11529-5^Surgical Pathology Study^LN|||200704261530||||||| 200704261800|TISS^Tissue^|1234567^Myeolmus^John^^^Dr^MD^^^NPI|(518)424-4243||||| |||F|||||||P123456&PATHDOC&Jason&A&&DR&&&NPI<CR>
- **OBX** |1|TX|22633-2^Path Report.**Site of origin**^LN^L47^SUBMITTED TISSUE^L|6|E. Partial symphy ectomy||||||F||200704281500|01D0301145^HITECK PATH LAB^CLIA <CR>
- OBX|2|TX|22634-0^Path Report.Gross Observation^LN^L567^GROSSPATHOLOGY^L|6|E. Gross description to follow decalcification. Supplemental report to follow.|||||F||20 0704110841|01D0301145^HITECK PATH LAB^CLIA <CR>
- OBX|3|TX|22637-3^Path report.final diagnosis^LN|6|E:Partial symphyectomy: pending decalci fication, supplemental report tofollow.|||||F||200704110841|01D0301145^HITECK PATH L AB^CLIA <CR>

SPM|6|^97810430E&HITECKSPCID&01D0301145&CLIA||TISS^**Tissue**^HL70487||||||||||||||20070402 0930|200704021500|||||||||||||0704500123^^01D0301145&HITECK PATH LAB&CLIA<CR>

- OBR|7||97810430F|11529-5^Surgical Pathology Study^LN||200704261530||||||| 200704261800|TISS^Tissue^|1234567^Myeolmus^John^^^Dr^MD^^^NPI|(518)424-4243||||| |||F|||||||P123456&PATHDOC&Jason&A&&DR&&&NPI<CR>
- **OBX** |1|TX|22633-2^Path Report.**Site of origin**^LN^L47^SUBMITTED TISSUE^L|7|F: Left pubic ramu s biopsy|||||||F|||200704281500|01D0301145^HITECK PATH LAB^CLIA <CR>
- OBX | 2 | TX | 22634-0^Path Report.Gross Observation^LN^L567^GROSS PATHOLOGY^L | 7 | F: The specimen consists of pale tan fragments of bony tissue, which measures 2 x 1.1 x 0.5 cm. All tissue em bedded in one cassette and submitted for decalcification (F1). | | | | | | F| | 200704110841 | 01 D0301145^HITECK PATH LAB^CLIA <CR>
- OBX|3|TX|22637-3^Path report.final diagnosis^LN|7|F: Biopsy, left pubic ramus: pending deca lcification, supplemental report tofollow.|||||F||200704110841|01D0301145^HITECK PA TH LAB^CLIA <CR>
- **SPM**|7|^97810430F&HITECKSPCID&01D0301145&CLIA||TISS^**Tissue**^HL70487|||||||||||20070402 0930|200704021500|||||||||||0704500123^^01D0301145&HITECK PATH LAB&CLIA<CR>
- OBR |8||97810430G|11529-5^Surgical Pathology Study^LN||200704261530||||||| 200704261800|TISS^Tissue^|1234567^Myeolmus^John^^^Dr^MD^^^^NPI|(518)424-4243||||| |||F||||||P123456&PATHDOC&Jason&A&&DR&&&NPI<CR>
- **OBX** |1|TX|22633-2^Path Report.**Site of origin**^LN^L47^SUBMITTED TISSUE^L|8|G. Right pelvic lymph node dissection||||||F||200704281500|01D0301145^HITECK PATH LAB^CLIA<CR>
- OBX|2|TX|22634-0^Path Report.Gross Observation^LN^L567^GROSS PATHOLOGY^L|8|G.The specime
 n consists of multiple fragments of dark tan adipose tissue, which vary in size from 1x 0.5 x
 0.3 cm to 5 x 2 x 2.5 cm. Palpation reveals possible nodes. Sections submitted are as follow
 s: (G1) possible three nodes; (G2) possible four nodes; (G3) possible five nodes.|||||F||
 |200704110841|01D0301145^HITECK PATH LAB^CLIA <CR>
- **OBX** |3|TX|22635-7^Path Report.**Microscopic Observation**^LN^L589^MICROSCOPIC^L|8|G:Sections examined.|||||F||200704110841|01D0301145^HITECK PATH LAB^CLIA <CR>
- OBX|4|TX|22637-3^Path report.final diagnosis^LN|8|G: Right pelvic lymph nodes, excisional b
 iopsy: 11 lymph nodes negative for malignancy.||||||F|||200704110841|01D0301145^HITECK
 PATH LAB^CLIA <CR>

SPM|8|^97810430G&HITECKSPCID&01D0301145&CLIA||TISS^**Tissue**^HL70487|||||||||||||||20070402 0930|200704021500|||||||||||||0704500123^^01D0301145&HITECK PATH LAB&CLIA<CR>

OBR|9||97810430C|**11529-5^Surgical Pathology Study**^LN|||20040426||||||| |TISS^Tissue^HL70487|1234567^Myeolmus^John^^MD|(518)424-4243||||||||F||||^97810430| ||P123456&PATHDOC&Jason&A&DR&& NPI<CR>

- **OBX**|1|TX|22633-2^Path Report.Site of origin^LN^L47^SUBMITTEDTISSUE^L|9|H. Rectum||||||F ||200704281500|01D0301145^HITECK PATH LAB^CLIA <CR>
- **OBX** 2 | TX | 22634-0^**Path Report.Gross Observation**^LN^L567^GROSS PATHOLOGY^L | 9 | H: The specimen consists of a mesorecta excision, which is comprised of the sigmoid colon, rectum, anal canal, and anus. The specimen measures 30 cm in length and 6 cm along its maximum diameter. Externally, the serosa of the large bowel is dark tan, smooth, and shiny for the most part except for an area that appears firm and subtly puckered and feels firm. It is located at 18 cm from the proximal resection margin and 10 cm from the distal resection margin. The anterior bare area of the mesorectum is inked in blue, while the posterior bare area of mesorectum is inked in black. The mesorectum is intact and bulky. There are no defects, no coning of the specimen, and no abnormally firm areas. The specimen has been previously opened as per the MRE protocol. Internally, underneath the puckered area there is an exophytic, pale tan lesion, which measures 2.6 x 2.5 x 2.3 cm. This lesion is located at 18 cm from the proximal resection margin and 10 cm from the distal resection margin. It is located at 2.5 cm from the radial resection margin. There is a small polyp measuring 1.1 cm along its maximum dimensions located at 8 cm from the proximal resection margin. There are no other lesions or masses identified elsewhere. The proximal, distal, and radial resection margins have been inked in black prior to submitting sections. Sectioning of the exophytic mass reveals that grossly it does not appear to have invaded beyond the muscularis propria. There is a small polyp noted measuring 1.1 cm along its maximum dimensions and located at 8 cm from the proximal resection margin.

Sections submitted are as follows: (H1) proximal resection margin; (H2) distal resection margin; (H3) radial resection margin/circumferential resection margin; (H4-6) full thickness sectioning showing exophytic pale tan lesion; (H7-8) full thickness section showing exophytic pale tan lesion; (H9) uninvolved large bowel; (H10) possible four nodes; (H11) one node bisected into two; (H12) possible four nodes; (H13) possible four nodes; (H14) one node bisected into two; (H15) possible one node bisected into two; (H16) polyp in

toto.||||||F|||200704110841|01D0301145^HITECK PATH LAB^CLIA <CR>

OBX|3|TX|22635-7^Path Report.Microscopic Observation^LN^L589^MICROSCOPIC^L|9|H: COLON AND RECTUM: Resection, Including Transanal Disk Excision of Rectal Neoplasms Tissue(s) received: sigmoid colon. rectum, anal canal,

- anus||||||F||200704110841|01D0301145^HITECK PATH LAB^CLIA <CR>
- OBX|3|TX|22637-3^Path report.final diagnosis^LN|9|H: Sigmoid colon, rectum, anus, abdo minoperineal resection: \X0D\\X0A\ - adenocarcinoma of the colon (see synoptic repo rt); \X0D\\X0A\ - arising in villous adenoma.|||||F||200704110841|01D0301145^HITE CK PATH LAB^CLIA <CR>

SPM|9|^97810430H&HITECKSPCID||TISS^**Tissue**^HL70487||||||||||||200704020930|20070402150 0||||||||||0704500123^^01D0301145&HITECK PATH LAB^CLIA<CR>

- OBR|10||97810430|11529-5^Surgical Pathology Study^LN^L5671^COLON AND RECTUM:
- Resection,Including Transanal Disk Excision of Rectal Neoplasms^L|||20070405||||||| ||1234567^Myeolmus^John^^MD|(518)424-4243||||||||F||||^S91-1700|||P123456&PATHDOC&J ason&A&&DR&&&NPI<CR>

OBX|1|TX|**60573-3^Report template source**^LN||**CAP Synoptic Segmented**|||||||F|||2009061516 30<CR>

OBX|3|TX|**60574-1^Report template version ID**^LN||**2.6**|||||||**F**|||200906151630<CR>

OBX|4|TX|22633-2^Pathology report.site of origin^LN^L6223^Tissue(s) received^L|10|sigm oid colon, rectum, anal canal, anus||||||F|||200704281500|01D0301145^HITECK PATH LA B^CLIA <CR> **OBX**|5|TX|^^^L6235^**Specimen type**^L|10|abdominoperineal resection||||||F|||200704281500| 01D0301145^HITECK PATH LAB^CLIA <CR>

OBX|6|TX|^^^L6257^**Histologic Type**^L|10|adenocarcinoma||||||F|||200704281500|01D0301145 ^HITECK PATH LAB^CLIA <CR>

OBX |7|TX|^^^L6259^Histologic Grade^L|10|low grade (well to moderately differentiated)| |||||F||200704281500|01D0301145^HITECK PATH LAB^CLIA <CR>

OBX |8|TX|^^^L6303^**Tumor Site**^L|12|rectum||||||F|||200704281500|01D0301145^HITECK PATH L AB^CLIA <CR>

- OBX 10|TX|^^L6389^Tumor Border Configuration^L 10 infiltrating ||||||F|||200704281500|
 01D0301145^HITECK PATH LAB^CLIA <CR>
- **OBX**|11|TX|^^^L6345^**Lymphovascular (Small Vessel) Invasion**^L|10|absent||||||F|||2007042 81500|01D0301145^HITECK PATH LAB^CLIA <CR>
- **OBX**|12|TX|^^^L6356^**Venous (Large Vessel) Invasion**^L|10|absent||||||F|||200704281500|01 D0301145^HITECK PATH LAB^CLIA <CR>
- **OBX**|13|TX|^^^L6367^**Perineural Invasion**^L|10|absent||||||F|||200704281500|01D0301145^HI TECK PATH LAB^CLIA <CR>
- OBX|14|TX|^^^L6369^Host Response: Conspicuous lymphocytes at invasive edge (not in agg regates)^L|10|absent||||||F|||200704281500|01D0301145^HITECK PATH LAB^CLIA <CR>
- **OBX**|15|TX|^^L6371^**Lymphoid aggregates in surrounding tissues**L|10|absent||||||F|||200 704281500|01D0301145^HITECK PATH LAB^CLIA <CR>
- **OBX**|16|TX|^^^L6373^**Intratumoral lymphocytic infiltrate**^L|10|absent||||||F|||2007042815 00|01D0301145^HITECK PATH LAB^CLIA <CR>
- **OBX**|17|TX|^^L6375^**Resection Margins: Proximal**^L|10|uninvolved by invasive carcinoma|| ||||F||200704281500|01D0301145^HITECK PATH LAB^CLIA <CR>

- **OBX**|20|TX|^^^L6379^**Distance of invasive carcinoma from closest margin**^L|10|2.5 mm||||| |F||200704281500|01D0301145^HITECK PATH LAB^CLIA <CR>
- **OBX**|21|TX|^^^L6383^**Lymph Node Status**^L|10|no malignancy in 11 regional lymph nodes (pN0)|||||||F|||200704281500|01D0301145^HITECK PATH LAB^CLIA <CR>
- **OBX**|22|TX|^^^L7355^**Additional Pathological Findings**^L|10|adenoma(s)||||||F|||200704281 500|01D0301145^HITECK PATH LAB^CLIA <CR>
- **OBX**|23|TX|^^^L6476^**Pathological Stage**^L|10|pT2N0Mx||||||F|||200704281500|01D0301145^HI TECK PATH LAB^CLIA <CR>

SPM|10|^97810430&HITECKSPCID||TISS^**Tissue**^HL70487|||||||||||||200704020930|20070402150 0||||||||||0704500123^^^01D0301145&HITECK PATH LAB^CLIA<CR>

E.2.2 CAP Synoptic Segmented (non-eCP) Report Example

If the synoptic report is derived from a **CAP eCP** message template, then skip this section and follow the instructions in the next section for CAP eCP reports.

The first 3 OBX segments of a synoptic segmented message contain report metadata as described in Chapter 3. All remaining OBX question/answer rows under the parent OBR will contain the actual content of the pathology report in synoptic format, using one question-answer pair per OBX row. OBX rows for section headers and sub-headers may be interspersed as needed. The OBX rows for question/answer pairs will place the text of each question into OBX-3.2 and the answer text into OBX-5. A synoptic segmented message must not have any OBX segment that contains more than one question-answer pair.

Because the synoptic segmented message may be derived from a formatted text report with little or no computer-readable metadata, no codes, terminologies, or data types (other than TX [text]) will be available in many cases.

MSH|^~\&||INDEPENDENT LAB SERVICES^33D1234567^CLIA|||201907281339||

ORU^R01^ORU R01|2019072813390045|P|2.5.1|||||||||VOL V 51 ORU R01^NAACCR CP<CR>

- **OBR**|1||123456789|60568-3^**Synoptic report**^LN|||201907261530||||||||TISS^Tissue^HL70487| 164341^SURGEON^HANNAH^^^DR||||||||||||60567-5&**Comprehensive pathology report panel**&L N|||^97810430|||55555555&Welby&Marcus&&&Dr.&MD&&NPI<CR>
- **OBX** |1|ST|60573-3^**Report template source**^LN||**CAP Synoptic Segmented**||||||F||20190726153 0<CR>

OBX|2|ST|60572-5^**Report template ID**^LN||**128.1000043**^**PROSTATE GLAND: Radical Prostatect omy**^**CAPECP** ||||||F||201907261530<CR>

OBX | **3** | ST | 60574-1^**Report template version ID**^LN | | **4.0.4.0** | | | | | | | | | | | | 201907261530<CR>

OBX | 4 | TX | **Procedure:** | 1 | **Radical prostatectomy** | | | | | | F<CR> OBX |5|TX |Header |2|Prostate Size ||||||F<CR> OBX |6|TX| Prostate weight |2|47.2g||||||F<CR> **OBX**|7|TX|**Size**|2|4.5 x 4.0 x 4.0 cm||||||F<CR> OBX 8 | TX | Lymph Node Sampling | No lymph nodes present | | | | | F<CR> **OBX** 9 TX **Histologic type** Adenocarcinoma (acinar, not otherwise specified) | | | | | F<CR> **OBX**|10|TX|**Header**|3|**Histologic grade**|||||F<CR> OBX |11 | TX | Header | 3.1 | Gleason Pattern | | | | | F<CR> OBX | 12 | TX | Primary Pattern | 3.1 | 3 | | | | | F<CR> **OBX**|13|TX|**Secondary Pattern**|3.1|4|||||F<CR> OBX |14 | TX | Total Gleason score | 3.1 | 7 | | | | | | F<CR> OBX | 15 | TX | Header | 4 | Tumor Quantitation | | | | | F<CR> **OBX** |16|TX|**Proportion (percent) of prostate involved by tumor** |4|15%||||||F<CR> **OBX**|17|TX|**Tumor size:**|4|Not applicable|||||F<CR> OBX |18 | TX | Extraprostatic extension | | Not identified | | | | | | F<CR> OBX |19 | TX | Urinary Bladder Neck Invasion | Not identified | | | | | | F<CR> OBX 20 | TX | Seminal vesicle invasion || Not identified || || || F<CR> OBX 21 | TX | Margins | | Margins uninvolved by invasive carcinoma | | | | | | F<CR> **OBX** 22 TX **Lymph-Vascular invasion** | Not identified | | | | F<CR> **OBX** 23 TX **Treatment Effect on Carcinoma** | Not identified | | | | | F<CR> OBX | 24 | TX | Header | 5 | Pathologic staging (pTNM) | | | | | | F<CR> OBX | 25 | TX | TNM Descriptors | 5 | Not applicable | | | | | F<CR> OBX|26|TX|Primary Tumor (pT)|5|pT2|||||F<CR> OBX 27 | TX | Regional Lymph Nodes (pN) |5 | No nodes submitted or found | | | | | | F<CR> OBX | 28 | TX | Distant Metastasis (pM) | 5 | Not applicable | | | | | | F<CR>

```
97 810430^^^3JD1234567&INDEPENDENT LAB SERVICES<CR>
```

E.2.3 Sample Message Using CAP eCP Style

The following is part of a CAP eCP data-entry form that was automatically generated from the SDC XML template for Ampulla of Vater¹ This example was selected to illustrate several features that were difficult to cover in Chapter 3, including nesting with the use of OBX-4 and the handling of untitled Questions.

15897 - SPECIMEN
15906 - Procedure
 15907 - Ampullectomy 2229 - Pancreaticoduodenectomy (Whipple resection) 15908 - Other (specify) 15909 - Not specified
15910 - TUMOR
34390 - Tumor Site (Note A)
2234 - Intra-ampullary perforated 33456 -
 33457 - Arising from intra-ampullary papillary-tubular neoplasm (IAPN) 33458 - Ampullary ductal (pancreaticobiliary-type) 33459 - Peri-ampullary / ampullary duodenal (arising from duodenal surface of the papilla) 33460 - Intra-ampullary and peri-ampullary (mixed type) 15911 - Other (specify) 15912 - Cannot be determined 2237 - Not specified
52515 - Histologic Type (Note C)
 2245 - Adenocarcinoma 27063 - Adenocarcinoma, pancreaticobiliary type 2247 - Adenocarcinoma, intestinal type

In the above image, eCP IDs are shown in red, with the CAP namespace (.100004300) removed to save space. Sections have a dark blue background. Questions have a light blue background. Note that the sub-Question with ID 33456 is untitled, and this sub-Question is a child of the LIR with ID 2234. This LIR (2234) is selected and contains a user's Response ("perforated"). Note that the two other Questions (with IDs 34390 and 52515) are subsumed by a parent Section (15910 Tumor). All of these features will be represented in the resultant set of OBX rows in the message.

The next page shows the part of the original SDC XML that was used to automatically generate the above data entry form; the user's responses also have been included in the SDC XML to simulate the data available in an eCP-based software system. The XML parts required for HL7 message creation are formatted as described in detail in Chapter 3 (section 3.5.1) and other important XML areas for HL7 messaging are highlighted. This XML sample contains some SDC attributes (e.g., nameand order) that are not covered in this document, but these will be ignored in this example.

```
<?xml version="1.0" encoding="utf-8"?>

<FormDesign xmlns:xsd="http://www.w3.org/2001/XMLSchema"

xmlns:xsi="http://www.w3.org/2001/XMLSchema- instance" ID="Ampulla.Res.131_3.001.001.REL_sdcFDF"
```

¹ College of American Pathologists electronic Cancer Checklists (CAP eCP). August 2019 release. Available to registries with a free license from the CAP, 325 Waukegan Road, Northfield, IL 60093, mailto: capecp@cap.org.

```
baseURI="www.cap.org/eCP"
fullURI="_baseURI=www.cap.org/eCP&_lineage=Ampulla.Res.131&_version=3.001.001.REL&_d
ocTyp e=sdcFDF" formTitle="AMPULLA OF VATER" lineage="Ampulla.Res.131"
filename="Ampulla.Res.131_3.001.001.REL_sdcFDF.xml" version="3.001.001.REL"
xmlns="urn:ihe:qrph:sdc:2016">
<property name="Copyright" type="CAPeCP static text" styleClass="copyright" order="1"</pre>
propName="Copyright" val="(c) 2019 College of American Pathologists. All rights reserved.
License required for use." />
<property name="GenericHeaderText" type="CAPeCP_static_text" order="2" propName="GenericHeaderText" val="Surgical Pathology Cancer Case Summary" />
 <property name="Category" type="CAPeCP meta" order="3" propName="Category" val="Digestive</pre>
 System" />
 <property name="OfficialName" type="CAPeCP meta" order="4" propName="OfficialName" val="AMPULLA</pre>
OF VATER" />
<property name="CAP ProtocolName" type="CAPeCP meta" order="5" propName="CAP ProtocolName"</pre>
val="Ampulla of Vater" />
<Property name="CAP ProtocolShortName" type="CAPeCP meta" order="6"</pre>
propName="CAP ProtocolShortName" val="Ampulla" />
 <Property name="CAP ProtocolVersion" type="CAPeCP_meta" order="7"</pre>
propName="CAP ProtocolVersion" val="4.0.0.0" />
 <property name="TemplateID" type="CAPeCP meta" order="8" propName="TemplateID"</pre>
  val="131.100004300"/>
<property name="Restrictions" type="CAPeCP meta" order="9" propName="Restrictions" val="Please</pre>
 refer to the cancer protocol cover page (www.cap.org/cancerprotocols) for information about
which tumor types and procedures can be reported using this template." />
<property name="CAP Required" type="CAPeCP meta" order="10" propName="CAP Required" val="true"</pre>
 15
<property name="AccreditationDate" type="CAPeCP meta dt.dateTime" order="11"</pre>
propName="AccreditationDate" val="2/28/2018" />
<property name="WebPostingDate" type="CAPeCP_meta dt.dateTime" order="12" propName="WebPostingDate" val="2/27/2019" />
<Property name="ApprovalStatus" type="CAPeCP_meta" order="13" propName="ReleaseStatus"
val="REL" />
 <property name="AJCC Version" type="CAPeCP meta" order="14" propName="AJCC Version" val="8th</pre>
 Edition" />
 <Body name="Body" order="15" ID="Ampulla.Res.131 3.001.001.REL sdcFDF Body">
  <ChildItems name="ch Body" order="16">
   <Section name="$ 15897" order="17" ID="15897.100004300" title="SPECIMEN">
    <ChildItems name="ch_15897_1" order="18">
     <Question name="Q 15906" order="19" ID="15906.100004300" title="Procedure">
      <ListField name="lf_15906_1" order="20">
       selected="true"/>
        <ListItem name="LI 2229" order="23" ID="2229.100004300" title="Pancreaticoduodenectomy</pre>
        (Whipple resection) " />
        <ListItem name="LI 15908" order="24" ID="15908.100004300" title="Other (specify)">
         <property name="p rptTxt 15908 1" order="25" propName="reportText" val="{no text}" />
         <ListItemResponseField name="lirf_15908_2" order="26" responseRequired="true">
          <Response name="rsp_15908_3" order="27">
           <string name="str_15908_4" order="28" />
          </Response>
         </ListItemResponseField>
        </ListItem>
        <ListItem name="LI 15909" order="29" ID="15909.100004300" title="Not specified" />
       </List>
      </ListField>
     </Question>
    </ChildItems>
   </Section>
   <Section name="$ 15910" order="30" ID="15910.100004300" title="TUMOR">
    <ChildItems name="ch 15910 1" order="31">
     <question name="0 34390" order="32" ID="34390.100004300" title="Tumor Site (Note A)">
      <Property name="p_rptTxt_34390_1" order="33" propName="reportText" val="Tumor Site" />
      <ListField name="lf_34390_2" order="34">
       <List name="lst_34390_3" order="35">

ListItem name="LI 2234" order="36" ID="2234.100004300" title="Intra-ampullary"
          selected="true">
         <ListItemResponseField name="lirf_2234_1" order="37">
          <Response name="rsp 2234 2" order="38">
```

```
<string name="str 2234 3" val="perforated"/>
     </Response>
    </ListItemResponseField>
    <ChildItems name="ch 2234 4" order="40">
     <Question name="Q_33456" order="41" ID="33456.100004300" mustImplement="false"</pre>
       minCard="0">
      <property name="p altTxt 33456 1" order="42" propName="altText" val="Intra-ampullary</pre>
      Type"/>
      <ListItem name="LI 33457" order="45" ID="33457.100004300" title="Arising from
        intra- ampullary papillary-tubular neoplasm (IAPN)" selected="true"/>
       <ListItem name="LI 33458" order="46" ID="33458.100004300" title="Ampullary ductal</pre>
       (pancreaticobiliary-type)" />
       </List>
      </ListField>
     </Question>
    </ChildTtems>
   </ListItem>
   <ListItem name="LI_33459" order="47" ID="33459.100004300" title="Peri-ampullary /</pre>
   ampullary duodenal (arising from duodenal surface of the papilla) ">
    <ListItemResponseField name="lirf 33459 1" order="48">
    <Response name="rsp_33459_2" order="49">
<string name="str_33459_3" order="50" />
     </Response>
    </ListItemResponseField>
   </ListItem>
   <ListItem name="LI 33460" order="51" ID="33460.100004300" title="Intra-ampullary and
  peri- ampullary (mixed type) ">
    <ListItemResponseField name="lirf 33460 1" order="52">
     </Response>
   </ListItemResponseField>
   </ListItem>
   <ListItem name="LI 15911" order="55" ID="15911.100004300" title="0ther (specify)">
    <property name="p rptTxt 15911 1" order="56" propName="reportText" val="{no text}" />
    <ListItemResponseField name="lirf 15911 2" order="57" responseRequired="true">
     <Response name="rsp_15911 3" order="58">
     <string name="str 15911 4" order="59" />
    </Response>
    </ListItemResponseField>
   </ListItem>
   <ListItem name="LI 15912" order="60" ID="15912.100004300" title="Cannot be determined">
    <ListItemResponseField name="lirf 15912 1" order="61">
     <Response name="rsp 15912 2" order="62">
     <string name="str_15912_3" order="63" />
     </Response>
    </ListItemResponseField>
   </ListItem>
   <ListItem name="LI 2237" order="64" ID="2237.100004300" title="Not specified" />
 </List>
 </ListField>
</Ouestion>
<Question name="0 52515" order="65" ID="52515.100004300" title="Histologic Type (Note C)">
<property name="p_rptTxt_52515_1" order="66" propName="reportText" val="Histologic Type"/>
<ListField name="lf_52515_2" order="67">
<List name="lst_52515_3" order="68">
   <ListItem name="LI 2245" order="69" ID="2245.100004300" title="Adenocarcinoma"</pre>
   selected="true"/>
   <ListItem name="LI 27063" order="70" ID="27063.100004300" title="Adenocarcinoma,</pre>
   pancreaticobiliary type" />
<ListItem name="LI_2247" order="71" ID="2247.100004300" title="Adenocarcinoma,</pre>
   intestinal type" /\overline{>}
```

```
.... XML truncated here...
```

All message-related information can be extracted from the SDC XML (or from the data entry form software), including, for example, IDs, and title text.

In the table below, information required to create an HL7 2.5.1 synoptic message has been extracted. Information not found in the SDC XML includes demographic information for the PID, ORC, and OBR, specimen information for the SPM segment, and code map data for SNOMED CT and ICD-O-3.

Demographic and specimen data must be extracted from the laboratory information system, and code maps for SNOMED CT and ICD-O-3 are available from CAP. Access to code maps can be requested from CAP by email at <u>capeCP@cap.org</u>, and additional information can be found on the CAP eCP website at <u>www.cap.org/capeCP</u>.

In the table below, truncated IDs are shown without the CAP namespace, to save space. Note that child \rightarrow parent eCP linkages are handled in OBX-4, and those OBX-4 IDs are prefixed with "+", indicating a hierarchical parent node ID. Gray cells are empty for the OBX. Formatting styles are described in detail in Chapter 3.

OBX-1	Data Type (OBX-2)	Question or Section ID (OBX-3.1)	Question or Section title (OBX-3.2)	Parent ID (OBX-4)	ListItem ID (OBX-5)	Response val	ListItem title	Comments
OBX 4	ST	15897	SPECIMEN	NULL	SECTION			► No parent in OBX-4
OBX 5	CWE	15906	Procedure	+15897	15907		Ampullectomy	
OBX 6	ST	15910	TUMOR	NULL	SECTION			► No parent in OBX-4
OBX 7	CWE	34390	Tumor Site	+15910	2234		Intra- ampullary	 OBX-3.2 is derived from the reportText Property, not from title. ICDO3=C24.1^Ampulla of Vater^ICDO3
OBX 8	тх	34390	Tumor Site	2234		perfora ted		 OBX-3.2 is derived from the reportText Property, not from title. The OBX row is duplicated to carry the LIR response. OBX-4 contains the LIR ID (2234) from the previous OBX.
OBX 9	CWE	33456	<u>Intra-</u> ampullary Type	+34390	33457		Arising from intra- ampullary papillary- tubular neoplasm (IAPN)	► OBX-3.2 has no title content, and no reportText Property to define a reported value. However, an <u>altText</u> Property is present, and this is used to populate OBX-3.2 when title and a reportText Property are both missing.
OBX 10	CWE	52515	Histologi c Type	+2234	2245		Adenocarcinoma	 OBX-3.2 is derived from the reportText Property, not from title. The parent in OBX-4 is a ListItem. ICDO3 = 81403 (slash is removed)

OBX rows constructed from the above data are shown below. OBR information would be drawn from the host system for the eCP template, and in this case, is simply copied from prior examples in this document. The first 3 metadata OBX segments are shown before the content OBX rows from the above table. The symbol "<CR>" indicates a line break in the actual message; this consists of ASCII code 13 followed by ASCII code 10.

OBR|1||123456789|60568-3^**Synoptic Report**^LN||201907261530||||||||TISS|164341^SURGEON ^HANNAH^^DR|||||||||||||||||||||||60567-5&**Comprehensive pathology report panel**&LN|||^97810430| ||55555555&Welby&Marcus&&&Dr.&MD&&NPI<CR>

OBX|**1**|**ST**|**60573-3**^**Report template source**^LN||**CAP eCP**||||||**F**||201907261530<CR>

OBX | **2** | **CWE** | **60572-5**^**Report template ID**^LN | |131.100004300^**AMPULLA OF VATER**^CAPECP | ||||||F|||201907261530<CR>

OBX|3|ST|60574-1^Report template version ID^LN|**|3.001.001.REL**|||||||F|||201907261530<CR>

- **OBX** | **4** | **ST** | **15897**.100004300[^] **SPECIMEN**[^] CAPECP | **SECTION** | | | | | | F | | 201907261530<CR>
- OBX | 5 | CWE | 15906.100004300 ^ Procedure ^ CAPECP | +15897.100004300 | 15907.100004300 ^ Ampullectomy ^ CAPECP | | | | | F | | 201907261530 < CR >
- **OBX** | **6** | **ST** | **15910**.100004300[^]TUMOR[^]CAPECP | | **SECTION** | | | | | | F | | 201907261530<CR>
- OBX | 7 | CWE | 34390.100004300 Tumor Site CAPECP | +15910.100004300 | 2234.100004300 Tutra-ampu llary CAPECP C24.1 Ampulla of Vater ICDO3 | | | | | | F | | 201907261530 < CR>
- OBX | 9 | CWE | 33456.100004300^Intra-ampullary Type ^CAPECP | +34390.100004300 | 33457.100004300^
 Arising from intra-ampullary papillary-tubular neoplasm (IAPN) ^CAPECP | | | | | | F | | 201907261
 530 < CR>
- OBX |10|CWE|52515.100004300⁺Histologic Type[^]CAPECP|+2234.100004300|2245.100004300⁺ Adenocarcinoma[^]CAPECP^{81403[^]}Adenocarcinoma, NOS¹ICDO3||||||F||201907261530<CR>

E.3 Messaging Examples General Questions and Answers

The questions and answers in this section make up a "Frequently Asked Questions" (FAQ) about implementing HL7 messages using the information in this Guide. For detailed information about the implementation of synoptic reporting using the coded CAP Cancer Checklists, see Chapter 3.

<u>Ouestion 1</u>: How should the version field in CE and CWE data types be populated?

Answer: Every code system has a release version. Some code systems, such as SNOMED-CT, have a date for this, represented as a month and year, such as "January 2008." Other code systems, such as LOINC, may alternatively have a numeric version identifier, such as "2.24." Whatever the coding system publisher declares as the version identifier is the string to be used in the code system version component of the coded data types. Note, however, that the curation process for IDs is such that no version needs to be populated; CAP IDs may be deprecated, but not deleted and will never be repurposed for another clinical concept. When IDs are transmitted in a CE or CWE field, the code system version is not populated.

<u>Ouestion 2</u>: Is a separate OBR used to identify different sections in the report?

Answer: No. Separate OBRs are used to identify different reports, not sections. When completely different reports, such as both a text report and a synoptic report, are included in the same message, then there is an OBR for each of the Reports. Use the OBR-Set ID (OBR-1) as a unique and sequential identifier for these multiple OBRs if they are present. For different report sections, the OBX will be used, with the OBX-3 identifying the section header using LOINC or local codes. These sections are typically items such as "Clinical History," "Gross Observation," "Microscopic," etc. Refer to <u>Section 1.5.3</u> for more detail.

<u>Ouestion 3</u>: How will local/state/provincial/territorial-specific data items be handled?

Answer: The sending anatomic pathology laboratory and the receiving cancer registry need to agree on the data item, associated codes, data type, and code system identifiers. Wherever possible, LOINC and/or SNOMED CT codes should be used for the question and answer components: OBX-3 and OBX-5. Note that local jurisdictions may acquire their own namespace identifier from CAP for the definition of jurisdiction- specific ID; as the namespace ID is part of the ID value, this provides unique codes.

<u>Ouestion 4</u>: What coding system should be used for Units of Measure in OBX-6?

Answer: In the United States, Units of Measure in laboratories may be communicated using the coding systems "ISO+," "ANSI+," or "UCUM." In the United States, UCUM is preferred. In Canada, the coding system SI (Systeme Internationale) is usually required; this is a constraint on UCUM, so the OBX-6.3 should be "UCUM" when the OBX-6.1 carries an SI unit.

<u>Ouestion 5</u>: Pathology data on a single specimen, reported in a single ORC segment, may contain multiple primaries. Some information on each of the multiple primaries is contained in the OBR segment. Some of the fields in the OBR segment are of particular interest to cancer registration, for example, 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). Is this information always identical across the multiple primaries because it is the same specimen, so there is no need for any repeating OBR?

Answer: Yes, the information in those fields will usually be identical and contained in the OBR segments in the message. This information should be in the first OBR specifying the Comprehensive Report Panel.

<u>Ouestion 6</u>: In cases with multiple specimens, some of the specimen-specific information (ie OBR-14 Specimen Received Date/Time and OBR-15 Specimen Source) is in the OBR. If there is only one OBR for the message, how can this handle multiple specimens?

Answer: You must use the SPM segment, and the message construction that includes the specimenspecific information in the group of segments starting with the SPM and optionally including one or more associated OBX segments when constructing an HL7 ORU_R01 message for a Cancer Pathology Report containing multiple individually identified specimens.

<u>Ouestion 7</u>: How should Addendum and Supplemental Reports be used?

Answer: Addendum reports are a variety of ancillary reports that contain additional information from subsequent testing that are usually completed after the definitive pathology report is released. Supplemental reports are different kinds of reports that provide additional information about the diagnosed case. Many kinds of supplemental reports have been assigned specific LOINC codes. These reports should be submitted using the appropriately assigned LOINC code for the test and if no code exists then the general code for addendum reports [35265-8] should be used. The use of LOINC code 22639-9 for general supplemental reports is deprecated and should not be used in any new or updated interfaces.

<u>Ouestion 8</u>: How should updated reports be handled with messaging?

Answer: Currently, updates to original reports are not transmitted as separate Volume V messages. Modifications to individual reports are merged or appended to the original Volume V message, and then the entire updated message should be re-transmitted, with a report status code in OBR-25 of "C" for "Correction to results." Note that addenda (new content, not corrections) may be sent separately in their own OBR, with a status of "F" for "Final" as part of the Comprehensive Report Collection. Since the entire collection is being updated or added to, the OBR-25 for the Collection should carry the status "C" for "Correction to results."

<u>Ouestion 9</u>: Some synoptic checklists may contain headers that help to organize the paper document (e.g., "Margins:" or "Histology:") but have no entered data as "answers." Should these be sent in the HL7 message?

Answer: Yes, ideally the Section Headers should be transmitted as described in Chapter 3. This applies to eCP reports as well: Each Section should generate a new OBX row.

<u>Ouestion 10</u>: In 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?

Answer: A single checklist is usually used to cover all specimens from a single surgical procedure. In some circumstances, there may be multiple checklists. These are not explicitly linked to the specimens, as the observations explicitly related to the specimens are (e.g., macroscopic observations during specimen processing), even though the message may contain SPM segments for the separate specimens. Each CAP checklist has its own OBR and associated OBX segments, without using the SPM and observations related specifically to the SPM parts of the message definition for its data.

<u>Ouestion 11</u>: When a patient is diagnosed with more than one primary cancer, (that is, with multiple primaries, where multiple primary malignancies are defined as those arising in different sites and/or are of a different histology or morphology group), how should those be submitted and encoded into a single HL7 version 2.5.1 message?

Answer: The single HL7 message should contain at least two OBR segments, each specific to the multiple primary being examined, where *each* OBR is followed by an OBX segment, and one SPM segment specific to that primary. Depending on how the information is being submitted, narrative style or synoptic message style, the structure of the single HL7 message will differ. A synoptic message style can contain data from multiple specimens that are not uniquely identified in the report. In such situations, the identifier at the case level should be used. If the synoptic message style is used, it will be based on CAP checklists that are specific to that site/histology/behavior combination. For example, in the case of two

breast primaries (one primary being Ductal carcinoma, infiltrating (M-8521/3), and the other primary being Lobular and ductal carcinoma.

(M-8522/3) and both occurring in the *left* breast—the OBR will *generally* contain the same information, and there will be two CAP checklists completed. Each OBR will be followed by an SPM and OBX segment(s), which contains the identical checklist identifiers. Use the OBR-Set ID (OBR-1) as well as SPM segment identifier (SPM-30) as the reports unique and sequential identifier. There will be one of these for each checklist instance. The existence of additional OBRs (each with a different sequential identifier in OBR-2) and unique SPM identifiers will indicate more than one checklist in the message or associated text pathology data. The type of report, as specified in OBR-4, can be used in this case, since two different OBR and SPM segments with different sequence numbers, but the same report type and style, will indicate this circumstance where two different cancers are documented for the same case in the same message.