

# Integrating the Healthcare Enterprise



## IHE Pathology and Laboratory Medicine (PaLM) Technical Framework Supplement

### Anatomic Pathology Structured Report (APSR)

*Rev. 2.1 - Trial Implementation*

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Comment versions.



## Foreword

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This is a supplement to the IHE Pathology and Laboratory Medicine Technical Framework V9.0. Each supplement undergoes a process of public comment and trial implementation before being incorporated into the volumes of the Technical Frameworks.

This supplement was published on September 28, 2018 for Trial Implementation and may be available for testing at subsequent IHE Connectathons. The supplement may be amended based on the results of testing. Following successful testing it will be incorporated into the PaLM Technical Framework. Comments are invited and may be submitted at [http://www.ihe.net/PaLM\\_Public\\_Comments](http://www.ihe.net/PaLM_Public_Comments).

This supplement describes changes to the existing technical framework documents.

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Information about the IHE Pathology and Laboratory Medicine domain can be found at [https://www.ihe.net/ihe\\_domains/](https://www.ihe.net/ihe_domains/).

Information about the structure of IHE Technical Frameworks and Supplements can be found at [https://www.ihe.net/about\\_ihe/ihe\\_process/](https://www.ihe.net/about_ihe/ihe_process/) and <https://www.ihe.net/resources/profiles/>.

The current version of the IHE Technical Framework can be found at [https://www.ihe.net/resources/technical\\_frameworks/](https://www.ihe.net/resources/technical_frameworks/).

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## Table of Contents

<b>Foreword</b> .....	<b>3</b>
<b>Acknowledgements</b> .....	<b>4</b>
<b>Introduction to this Supplement</b> .....	<b>11</b>
Open Issues and Questions .....	11
Closed Issues .....	11
<b>Volume 1 - Profiles</b> .....	<b>12</b>
<b>10 Anatomic Pathology Structured Report (APSR) Profile</b> .....	<b>13</b>
10.1 APSR Actors/Transactions .....	13
10.1.1 Actor Descriptions and Actor Profile Requirements .....	14
10.2 APSR Actor Options .....	14
10.3 APSR Required Actor Groupings .....	14
10.4 APSR Overview .....	15
10.4.1 Concepts .....	15
10.4.2 Use Cases .....	16
10.4.2.1 Use Case #1: Single Report .....	16
10.4.2.1.1 Single Report Use Case Description .....	16
10.4.2.1.2 Single Report Process Flow .....	17
10.4.2.1.3 Single Report Text Example .....	17
10.4.2.2 Use Case #2: Multi-step Report .....	18
10.4.2.2.1 Multi-step Report Use Case Description .....	19
10.4.2.2.2 Multi-step Report Process Flow .....	19
10.5 APSR Security Considerations .....	19
10.6 APSR Cross Profile Considerations .....	19
<b>Volume 3 – Content Modules</b> .....	<b>20</b>
<b>1 Introduction</b> .....	<b>21</b>
1.1 Overview of the Anatomic Pathology Technical Framework .....	21
1.2 Intended Audience .....	21
1.3 Overview of Technical Framework Volume 3 .....	21
1.4 Comment Process .....	22
1.5 Copyright Licenses .....	22
1.5.1 Copyright of Base Standards .....	22
1.6 Trademark .....	22
1.7 Disclaimer Regarding Patent Rights .....	22
1.8 History of Document Changes .....	23

<b>2 Conventions</b> .....	<b>24</b>
2.1 Content Module Modeling and Profiling Conventions.....	24
2.2 Additional Standards Profiling Conventions.....	24
<b>3 Content Modules Overview and Terminology</b> .....	<b>25</b>
<b>4 IHE Pathology and Laboratory Medicine Bindings</b> .....	<b>26</b>
4.1 Medical Document Binding to XDS, XDM and XDR.....	26
4.1.1 XSDDocumentEntry Metadata.....	26
4.1.1.1 XSDDocumentEntry.eventCodeList.....	26
4.1.1.2 XSDDocumentEntry.formatCode.....	26
4.1.1.3 XSDDocumentEntry.parentDocumentRelationship.....	26
<b>5 Namespaces and Vocabularies</b> .....	<b>28</b>
5.1 OID tree of PAT TF .....	28
5.2 Terminologies and controlled coded vocabularies .....	28
5.3 Value Sets.....	31
5.4 Namespaces.....	31
5.4.1 Namespace protecting extensions to the CDA schema.....	31
5.5 References to Content Modules built outside of IHE PaLM TF .....	31
5.6 IHE code and formatCode for Anatomic Pathology Document Template.....	31
<b>6 PaLM HL7 CDA Content Modules</b> .....	<b>33</b>
6.1 Conventions.....	33
6.2 Folder Modules .....	33
6.3 Content Modules.....	33
6.3.1 CDA Document Content Modules.....	33
6.3.1.1 Clinical Laboratory Report Content Module 1.3.6.1.4.1.19376.1.3.3.....	33
6.3.1.2 Anatomic Pathology Structured Report Content Module 1.3.6.1.4.1.19376.1.8.1.1.1 ..	33
6.3.1.2.1 General constraints that apply to APSR .....	83
6.3.1.2.2 Common structure for CDA APSR.....	85
6.3.2 CDA Header Content Modules.....	86
6.3.2.1 <Specimen Collector in Header> - Header Content Module –	
1.3.6.1.4.1.19376.1.8.1.4.1.....	86
6.3.2.1.1 Definition and purpose .....	86
6.3.2.1.2 Specification and Example.....	87
6.3.2.2 <Content Validator> - Header Content Module – 1.3.6.1.4.1.19376.1.8.1.4.3 .....	90
6.3.2.2.1 Definition and purpose .....	90
6.3.2.2.2 Specification and Example.....	90
6.3.2.3 <Participant Pertinent Insurance Information> - Header Content Module -	

1.3.6.1.4.1.19376.1.3.10.2.5.....	93
6.3.2.3.1 Definition and purpose.....	93
6.3.2.3.2 Specification and Example.....	93
6.3.3 CDA Section Content Modules .....	97
6.3.3.1 <Clinical Information> - Section Content Module - 1.3.6.1.4.1.19376.1.8.1.2.1 .....	97
6.3.3.1.1 Definition and Purpose.....	97
6.3.3.1.2 Specification and Example.....	97
6.3.3.2 <Intraoperative Observation>- Section Content Module -	
1.3.6.1.4.1.19376.1.8.1.2.2.....	108
6.3.3.2.1 Definition and Purpose.....	108
6.3.3.2.2 Specification and Example.....	108
6.3.3.3 <Macroscopic Observation> - Section Content Module - 1.3.6.1.4.1.19376.1.8.1.2.3.....	117
6.3.3.3.1 Definition and Purpose.....	117
6.3.3.3.2 Specification and Example.....	118
6.3.3.4 <Microscopic Observation> - Section Content Module - 1.3.6.1.4.1.19376.1.8.1.2.4 .....	127
6.3.3.4.1 Definition and Purpose.....	127
6.3.3.4.2 Specification and Example.....	127
6.3.3.5 <Additional Specified Observation> - Section Content Module -	
1.3.6.1.4.1.19376.1.3.10.3.1.....	138
6.3.3.5.1 Definition and Purpose.....	138
6.3.3.5.2 Specification and Example.....	138
6.3.3.6 <Diagnostic Conclusion> - Section Content Module - 1.3.6.1.4.1.19376.1.8.1.2.5 .....	147
6.3.3.6.1 Definition and Purpose.....	147
6.3.3.6.2 Specification and Example.....	148
6.3.3.7 <Procedure Steps> - Section Content Module - 1.3.6.1.4.1.19376.1.8.1.2.6 .....	159
6.3.3.7.1 Definition and Purpose.....	159
6.3.3.7.2 Specification and Example.....	159
6.3.4 CDA Entry Content Modules .....	169
6.3.4.1 Common Specification for all APSR Entry Content Modules .....	169
6.3.4.2 <Problem Organizer> - Entry Content Module – 1.3.6.1.4.1.19376.1.8.1.3.6 .....	170
6.3.4.2.1 Definition and purpose.....	170
6.3.4.2.2 Specification and Example.....	170
6.3.4.3 <Specimen Procedure Step> - Entry Content Module - 1.3.6.1.4.1.19376.1.3.10.4.1.....	183
6.3.4.3.1 Definition and purpose .....	183
6.3.4.3.2 Specification and Example.....	186
6.3.4.4 <Update Information Organizer> - Entry Content Module -	

1.3.6.1.4.1.19376.1.3.10.4.5.....	207
6.3.4.4.1 Definition and purpose .....	207
6.3.4.4.2 Specification and Example.....	207
6.3.5 CDA Child Element Content Modules .....	212
6.3.5.1 <Author> - Child Element Content Module – 1.3.6.1.4.1.19376.1.8.1.4.2.....	212
6.3.5.1.1 Definition and purpose .....	212
6.3.5.1.2 Specification and Example.....	212
6.3.5.2 <Informant> - Child Element Content Module – 1.3.6.1.4.1.19376.1.8.1.4.6 .....	220
6.3.5.2.1 Definition and purpose .....	220
6.3.5.2.2 Specification and Example.....	220
6.3.5.3 <Specimen Container in Specimen Procedure Step> - Child Element Content Module- 1.3.6.1.4.1.19376.1.3.10.9.22.....	222
6.3.5.3.1 Definition and purpose .....	222
6.3.5.3.2 Specification and Example.....	222
6.3.5.4 <Additional participant in an entry> - Child Element Content Module- 1.3.6.1.4.1.19376.1.8.1.4.7.....	234
6.3.5.4.1 Definition and purpose .....	234
6.3.5.4.2 Specification and Example.....	234
6.3.5.5 <Anatomic Pathology Observation> - Child Element Content Module – 1.3.6.1.4.1.19376.1.8.1.4.9.....	238
6.3.5.5.1 Definition and purpose .....	238
6.3.5.5.2 Specification and Example.....	238
6.3.5.6 <Embedded Image> - Child Element Content Module – 1.3.6.1.4.1.19376.1.8.1.4.10.....	248
6.3.5.6.1 Definition and purpose .....	248
6.3.5.6.2 Specification and Example.....	248
6.3.5.7 <X Specimen Identified> - Child Element Content Module - 1.3.6.1.4.1.19376.1.3.10.9.1.....	253
6.3.5.7.1 Definition and purpose .....	253
6.3.5.7.2 Specification and Example.....	254
6.3.5.8 <UICC/AJCC TNM Staging and Grading> - Child Element Content Module - 1.3.6.1.4.1.19376.1.3.10.4.2.....	256
6.3.5.8.1 Definition and purpose .....	256
6.3.5.8.2 Specification and Example.....	258
6.3.5.9 <ICD-O-3 Typing and Grading> - Child Element Content Module - 1.3.6.1.4.1.19376.1.3.10.4.3.....	350



6.3.5.9.1 Definition and purpose .....	350
6.3.5.9.2 Specification and Example.....	352
6.3.5.10 <Assessment Scales for Scoring systems> - Child Element Content Module -	
1.3.6.1.4.1.19376.1.3.10.4.4.....	374
6.3.5.10.1 Definition and purpose .....	374
6.3.5.10.2 Specification and Example.....	376
6.3.6 External Content Modules referenced by APSR 2.0 .....	402
6.3.6.1 Definition and purpose.....	402
6.3.6.2 Specifications and Examples.....	402
Human Patient .....	417
6.4 Section not applicable.....	434
6.5 <APSR> Value Sets.....	434
6.5.1 <Generic AP Observation Codes> <1.3.6.1.4.1.19376.1.3.11.11> .....	434
6.5.2 <Problem type> <1.3.6.1.4.1.19376.1.3.11.7> .....	435
6.5.3 <Container Entity Class Type> <1.3.6.1.4.1.19376.1.3.11.8>.....	437
6.5.4 <Procedure (target) site> <1.3.6.1.4.1.19376.1.3.11.9> .....	438
6.5.5 <Specimen collection and processing> <1.3.6.1.4.1.19376.1.3.11.10>.....	439
6.5.6 <UICC/AJCC stage> <1.3.6.1.4.1.19376.1.3.11.46> .....	456
6.5.7 <UICC/AJCC T category> <1.3.6.1.4.1.19376.1.3.11.43>.....	459
6.5.8 <UICC/AJCC T category (SCT)> <1.3.6.1.4.1.19376.1.3.11.12> .....	463
6.5.9 <UICC/AJCC N category> <1.3.6.1.4.1.19376.1.3.11.44> .....	465
6.5.10 <UICC/AJCC N category (SCT)> <1.3.6.1.4.1.19376.1.3.11.13> .....	467
6.5.11 <UICC/AJCC M category> <1.3.6.1.4.1.19376.1.3.11.45> .....	468
6.5.12 <UICC/AJCC M category (SCT)> <1.3.6.1.4.1.19376.1.3.11.14> .....	469
6.5.13 <UICC/AJCC C-Factor> <1.3.6.1.4.1.19376.1.3.11.19> .....	470
6.5.14 <UICC/AJCC C-Factor (SCT)> <1.3.6.1.4.1.19376.1.3.11.20> .....	471
6.5.15 <UICC/AJCC Residual tumor (R) classification> <1.3.6.1.4.1.19376.1.3.11.21> .....	472
6.5.16 <UICC/AJCC clinical/pathological> <1.3.6.1.4.1.19376.1.3.11.22>.....	473
6.5.17 <UICC/AJCC Venous Invasion> <1.3.6.1.4.1.19376.1.3.11.23> .....	474
6.5.18 <UICC/AJCC Lymphatic Invasion> <1.3.6.1.4.1.19376.1.3.11.24> .....	475
6.5.19 <UICC/AJCC Perineurial Invasion> <1.3.6.1.4.1.19376.1.3.11.25> .....	476
6.5.20 <UICC/AJCC Mucosa> <1.3.6.1.4.1.19376.1.3.11.26> .....	477
6.5.21 <UICC/AJCC Submucosa> <1.3.6.1.4.1.19376.1.3.11.27>.....	478
6.5.22 <UICC/AJCC Localization of distant metastases> <1.3.6.1.4.1.19376.1.3.11.28>.....	478
6.5.23 <UICC/AJCC Grade 3 tiered> <1.3.6.1.4.1.19376.1.3.11.29>.....	479
6.5.24 <UICC/AJCC Grade 2 tiered> <1.3.6.1.4.1.19376.1.3.11.30>.....	480

6.5.25 UICC/AJCC Grade 4 tiered> <1.3.6.1.4.1.19376.1.3.11.31> .....	481
6.5.26 <UICC/AJCC Tumor Serum Markers> <1.3.6.1.4.1.19376.1.3.11.32> .....	482
6.5.27 <ICD-O-3 Morphology and Behavior> <1.3.6.1.4.1.19376.1.3.11.33> .....	483
6.5.28 <ICD-O-3 Behavior> <1.3.6.1.4.1.19376.1.3.11.34> .....	484
6.5.29 <ICD-O-3 Differentiation> <1.3.6.1.4.1.19376.1.3.11.35> .....	485
6.5.30 <ICD-O-3 Topography> <1.3.6.1.4.1.19376.1.3.11.36> .....	486
6.5.31 <UICC/AJCC Multiplicity> <1.3.6.1.4.1.19376.1.3.11.37> .....	487
6.5.32 <UICC/AJCC Isolated Tumor Cells> <1.3.6.1.4.1.19376.1.3.11.38> .....	488
6.5.33 <UICC/AJCC Recurrence> <1.3.6.1.4.1.19376.1.3.11.39> .....	489
6.5.34 <UICC/AJCC Posttherapeutic> <1.3.6.1.4.1.19376.1.3.11.40> .....	489
6.5.35 <UICC/AJCC Autopsy> <1.3.6.1.4.1.19376.1.3.11.41> .....	490
6.5.36 <Clinical Significance> <1.3.6.1.4.1.19376.1.3.11.47> .....	491
<b>References</b> .....	<b>492</b>

## Introduction to this Supplement

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This supplement complements Volume 1 of the PaLM Technical Framework with the description of the Anatomic Pathology Structured Report (APSR) content profile, and Volume 3 with the structured artifacts - content modules, bindings and value sets - which specify this profile technically.

The PDF format of this specification is automatically generated from the online version, which is available to all readers on [the pubswiki.ihe.net platform](http://the.pubswiki.ihe.net) where it is maintained.

The structured artifacts, which represent the most part of Volume 3 content, are produced and maintained on [the ART-DECOR\(R\) tool and platform](http://the.ART-DECOR(R).tool.and.platform), where they are also freely accessible to all readers. This structured part of the specification is automatically transcluded into [the pubswiki.ihe.net APSR specification](http://the.pubswiki.ihe.net). Then the PDF format is generated.

Although the PDF format captures the entire specification, interested parties are most likely to prefer browsing and reading through the APSR specification directly on the two aforementioned online platforms.

## Open Issues and Questions

None

## Closed Issues

**APSR-07 – Representing the hierarchy of specimens in an entry:** This APSR supplement enables to represent the hierarchy of specimens at the CDA® <sup>[1]</sup> level 3. The operations on specimen and production of child specimens are tracked in the “Procedure Steps” section, which has a level 3 entry.

**APSR-10 – Observation related to multiple specimens:** For example tumor staging may require combining data from multiple specimens (e.g., a breast excision with positive margins followed by a re-excision with clear margins – in this case the tumor size may be a composite of measurements from both specimens. Another example is staging of ovarian carcinomas with multiple biopsies of pelvis, peritoneum, nodes, omentum, etc.). To accommodate these use cases, each problem organizer as well as each observation may reference any number of specimens using the <specimen> child element. Each of these references may point to a detailed description of the specimen, in the "procedure steps" section.

**APSR-11 – Derivative specimens:** Specimens derived from primary specimens for ancillary studies, which may be sent to a reference lab or done in another part of the same institution, are included in the scope of this profile. The results produced on a derived specimen are attached to this specimen in the report.

## **Volume 1 - Profiles**

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## 10 Anatomic Pathology Structured Report (APSR) Profile

This content profile describes an anatomic pathology structured report (APSR) as a digital document to be shared or exchanged between pathology laboratories and other care providers and institutions.

Anatomic pathology structured reports document the findings on specimens removed from patients for diagnostic or therapeutic reasons. This information can be used for patient care, clinical research and epidemiology. Standardizing and computerizing anatomic pathology reports is necessary to improve the quality of reporting and to facilitate the exchange and reuse of the content of these reports.

This content profile describes a digital anatomic pathology report shared in a human-readable format, which may include images, and which also contains findings and observations in a machine-readable format, to facilitate the integration of these into the database of a consumer system, and to enable the application of automated reasoning to this content.

The scope of this IHE content profile covers all fields of anatomic pathology (cancers, benign neoplasms as well as non-neoplastic conditions) as well as cytopathology.

Goldsmith J.D. et al. [2] is the first source of specification for this content profile. This article delineates the required, preferred, and optional elements which should be included in any report of surgical pathology.

This source is complemented by the “Cancer Checklists” produced by the College of American Pathologists [3], and by the “comptes rendus d’anatomopathologie : données minimales à renseigner pour une tumeur primitive” produced by the French society of pathology (SFP [4]) for the French cancer institute (INCa [5]), and by the German "Guideline Pathology / Neuropathology" (formerly TM-30) of the Sector Committee Pathology for the implementation of DIN EN ISO/EC 17020.

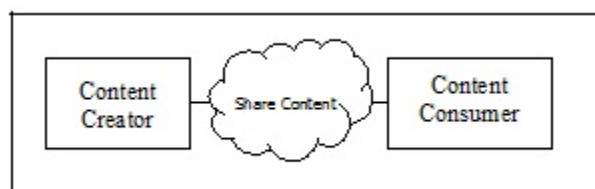
This profile has also benefited from the guidance on cancer AP reports provided by the North-American Association of Central Cancer Registries; some of the example snippets captured in the profile leverage the NAACCR Standards for Cancer Registries, Volume V, Pathology Laboratory Electronic Reporting.

### 10.1 APSR Actors/Transactions

This section defines the actors, transactions, and/or content modules in this profile. General definitions of actors are given in the Technical Frameworks General Introduction Appendix A published [here](#).

Figure 10.1-1 shows the actors directly involved in the APSR Profile and the direction that the content that is exchanged.

A product implementation using this profile must group actors from this profile with actors from a workflow or transport profile to be functional. The grouping of the content module described in this profile to specific actors is described in more detail in the “Required Actor Groupings” section below.



### Figure 10.1-1: APSR Actor Diagram

Table 10.1-1 lists the content module(s) defined in the APSR profile. To claim support with this profile, an actor shall support all required content modules (labeled “R”) and may support optional content modules (labeled “O”).

**Table 10.1-1: APSR Profile - Actors and Content Modules**

Actors	Content Modules	Optionality	Reference
Content Creator	Anatomic Pathology Structured Report 1.3.6.1.4.1.19376.1.8.1.1.1	R	PaLM TF-3: 6.3.1.2
Content Consumer	Anatomic Pathology Structured Report 1.3.6.1.4.1.19376.1.8.1.1.1	R	PaLM TF-3: 6.3.1.2

#### 10.1.1 Actor Descriptions and Actor Profile Requirements

Most requirements are documented in Content Modules (Volume 3). This section documents any additional requirements on profile’s actors.

### 10.2 APSR Actor Options

Options that may be selected for each actor in this profile are listed in the table 10.2-1. These options are further detailed in PCC Technical Framework Volume 2 as indicated in the rightmost column.

**Table 10.2-1 Anatomic Pathology Structured Report - Actors and Options**

Actor	Option Name	Reference
Content Creator	<i>None</i>	
Content Consumer	<i>View Option (1)</i>	PCC TF-2:3.1.1
	<i>Document Import Option (1)</i>	PCC TF-2:3.1.2
	<i>Section Import Option (1)</i>	PCC TF-2:3.1.3

Note 1: The Content Consumer shall support at least one of these options.

### 10.3 APSR Required Actor Groupings

An actor from this profile (Column 1) shall implement all of the required transactions and/or content modules in this profile in addition to all of the transactions required for the grouped actor (Column 2).

In some cases, required groupings are defined as at least one of an enumerated set of possible actors; this is designated by merging column one into a single cell spanning multiple potential grouped actors. Notes are used to highlight this situation.

Section 10.5 describes some optional groupings that may be of interest for security considerations and section 10.6 describes some optional groupings in other related profiles.

**Table 10.3-1: Anatomic Pathology Structured Report - Required Actor Groupings**

APSR Actor	Actor to be grouped with	Reference	Content Bindings Reference
Content Creator	ITI XDS.b Document Source	ITI TF-1:10	
	OR		
	ITI XDM Portable Media Creator	ITI TF-1:16	
	OR	ITI TF-1:15	
	ITI XDR Document Source		
	OR		
ITI MHD Document Source	ITI TF-1:33		
Content Consumer	ITI XDS.b Document Consumer	ITI TF-1:10	
	OR		
	ITI XDM Portable Media Consumer	ITI TF-1:16	
	OR	ITI TF-1:15	
	ITI XDR Document Recipient		
	OR		
ITI MHD Document Consumer	ITI TF-1:33		

Note 1: Each actor of APSR SHALL be grouped with at least one of the ITI actors listed in its table row.

## 10.4 APSR Overview

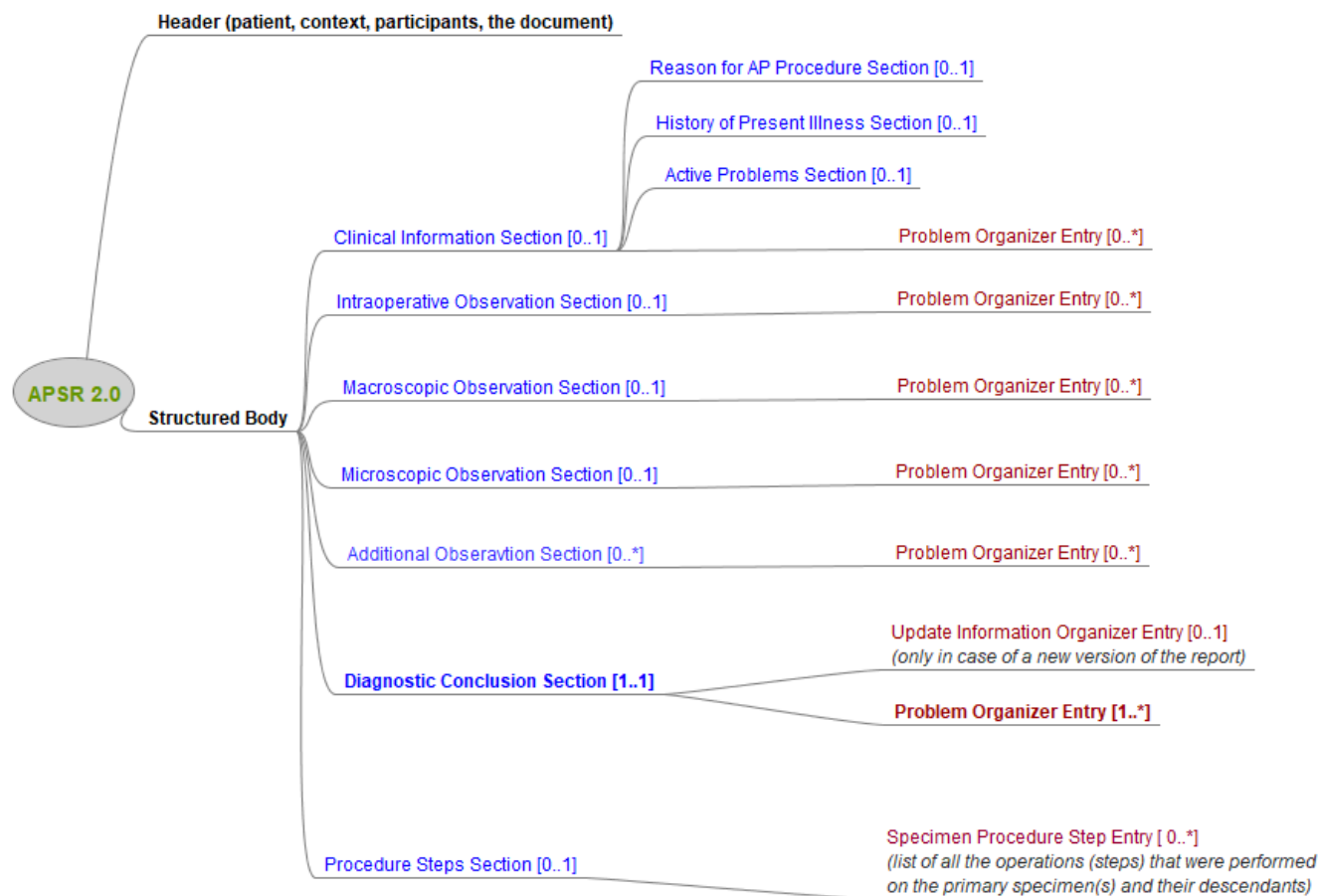
### 10.4.1 Concepts

This content profile represents a common digital document model applicable to any structured report for surgical pathology in all fields of anatomic pathology (cancers, benign neoplasms, non-neoplastic conditions) as well as for cytopathology.

This common model is composed of a header conveying the context of care (patient, care providers, pathologists, laboratories, order, act documented ...) and a body. The body organizes the human-readable content of the report in a number of sections. Each section may also provide

machine-readable content in a repeatable “entry” embedded in the section. This common model defines the order of appearance, cardinalities and internal structure of each section, and of each entry embedded in each section.

Figure 10.4.1-1 shows this general model applicable to any pathology digital report.



**Figure 10.4.1-1: Common model for a digital anatomic pathology structured report**

*Note 1: The only section that is mandatory is the Diagnostic Conclusion section.*

## 10.4.2 Use Cases

### 10.4.2.1 Use Case #1: Single Report

Anatomic pathology order fulfilled by a pathology laboratory produces a report.

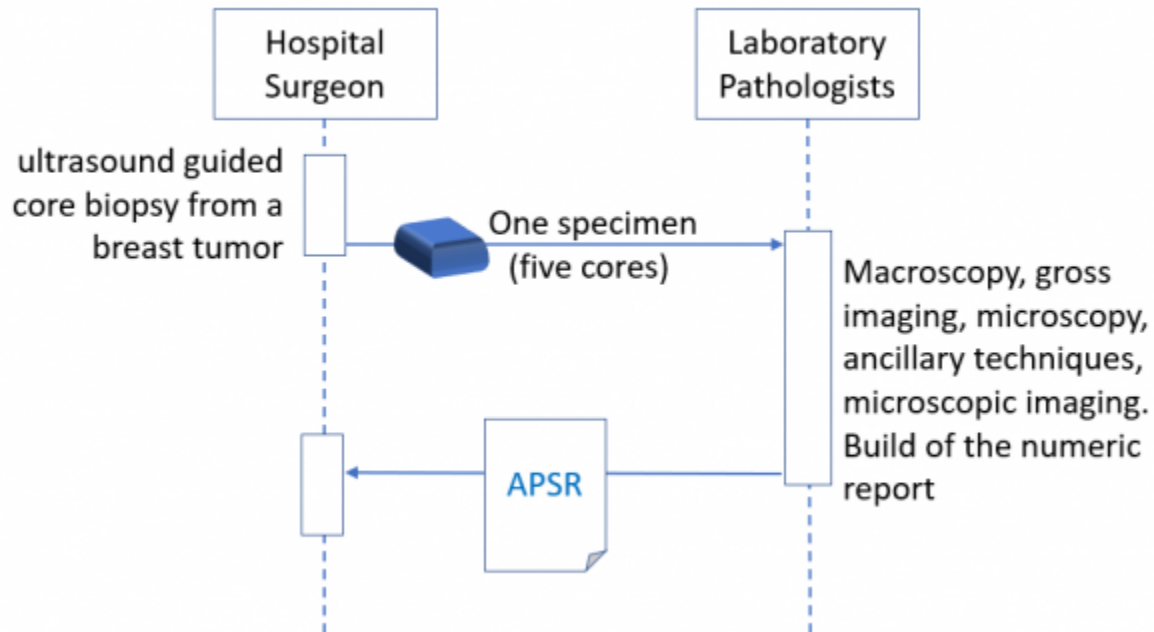
#### 10.4.2.1.1 Single Report Use Case Description

Dr. Eva Surgeon, PhD, takes a ultrasound guided core biopsy from a breast tumor from patient Eve Onewoman, born on Sept 21 1971, requests the procedure “breast core biopsy specimen - pathological examination” and sends the specimen to the anatomic pathology laboratory of the Cancer Institute. One specimen (five cores) is accessioned by the anatomic pathology laboratory under the accession number A710240008. The staff performs a macroscopic examination of the specimen; gross imaging is performed if needed. The specimen with the specimen ID A710240008\_A is processed for microscopic examination and other special ancillary techniques or tissue banking if needed. During the imaging interpretation process, microscopic imaging is performed if needed. At the end of the interpretation



process of the macroscopic and microscopic observations and some ancillary techniques, done by the pathologists Dr. Marcel Pathologist, PhD, and Dr. Jonas Jones, M.D., Dr. Marcel Pathologist queries the Content Creator application for the appropriate APSR template, fills the form, binds some relevant images and/or regions of interest to specific observations, validates and signs the digital report.

#### 10.4.2.1.2 Single Report Process Flow



#### 10.4.2.1.3 Single Report Text Example

Macroscopic observation

A. "RIGHT BREAST FIVE CORES 8-9:00" (ULTRASOUND GUIDED NEEDLE CORE BIOPSY):

Microscopic observation

INVASIVE ADENOCARCINOMA OF THE BREAST.

ICD-O-3-CLASSIFICATION: C50.3 M8500/33

HISTOLOGIC TYPE: DUCTAL.

NOTTINGHAM COMBINED HISTOLOGIC GRADE: 1 OF 3.

TUBULE FORMATION SCORE: 2. NUCLEAR PLEOMORPHISM SCORE: 2. MITOTIC RATE SCORE: 1.

IN-SITU CARCINOMA: EQUIVOCAL.

BREAST CANCER BIOMARKER STUDIES:

PARAFFIN BLOCK NUMBER: A1.

ER INTERPRETATION: POSITIVE ESTROGEN RECEPTOR ACTIVITY (ALLRED SCORE = 8, Percentage of positive cells = 85%, Staining Intensity score = 3).

PR INTERPRETATION: POSITIVE PROGESTERONE RECEPTOR ACTIVITY (ALLRED SCORE = 8).

DAKO EGFR PHARMDX IMMUNOHISTOCHEMISTRY: NEGATIVE (0) FOR EXPRESSION OF EPIDERMAL GROWTH FACTOR RECEPTOR.

HER2/NEU IMMUNOHISTOCHEMISTRY: AMBIGUOUS(2+) FOR OVEREXPRESSION OF HER2/NEU ONCOPROTEIN.  
HER2/NEU FISH RESULT: NEGATIVE FOR AMPLIFICATION OF HER2/NEU.

Diagnostic conclusion

A. "RIGHT BREAST FIVE CORES 8-9:00" (ULTRASOUND GUIDED NEEDLE CORE BIOPSY):

INVASIVE ADENOCARCINOMA OF THE BREAST.  
ICD-O-3-CLASSIFICATION: C50.3 M8500/33  
HISTOLOGIC TYPE: DUCTAL.  
NOTTINGHAM COMBINED HISTOLOGIC GRADE: 1 OF 3.  
TUBULE FORMATION SCORE: 2. NUCLEAR PLEOMORPHISM SCORE: 2. MITOTIC RATE SCORE: 1.

IN-SITU CARCINOMA: EQUIVOCAL.

BREAST CANCER BIOMARKER STUDIES:

PARAFFIN BLOCK NUMBER: A1.

ER INTERPRETATION: POSITIVE ESTROGEN RECEPTOR ACTIVITY (ALLRED SCORE = 8, Percentage of positive cells = 85%, Staining Intensity score = 3).

PR INTERPRETATION: POSITIVE PROGESTERONE RECEPTOR ACTIVITY (ALLRED SCORE = 8).

DAKO EGFR PHARMDX IMMUNOHISTOCHEMISTRY: NEGATIVE (0) FOR EXPRESSION OF EPIDERMAL GROWTH FACTOR RECEPTOR.

HER2/NEU IMMUNOHISTOCHEMISTRY: AMBIGUOUS(2+) FOR OVEREXPRESSION OF HER2/NEU ONCOPROTEIN.

HER2/NEU FISH RESULT: NEGATIVE FOR AMPLIFICATION OF HER2/NEU.

Procedure steps:

RIGHT BREAST FIVE CORES 8-9:00" (ULTRASOUND GUIDED NEEDLE CORE BIOPSY) PARAFFIN BLOCK NUMBER: A1.:FOUR SECTIONS FOR EACH STAIN:

RIGHT BREAST FIVE CORES 8-9:00

PARAFFIN BLOCK NUMBER: A1

slide from block A1 HE stained

slide from block A1 ER Immunohistochemistry

slide from block A1 PR Immunohistochemistry

slide from block A1 EGFR (PharmDX) Immunohistochemistry

slide from block A1 HER2 Immunohistochemistry

slide block from A1 HER2 FISH

**10.4.2.2 Use Case #2: Multi-step Report**

Reporting includes multiple successive steps.

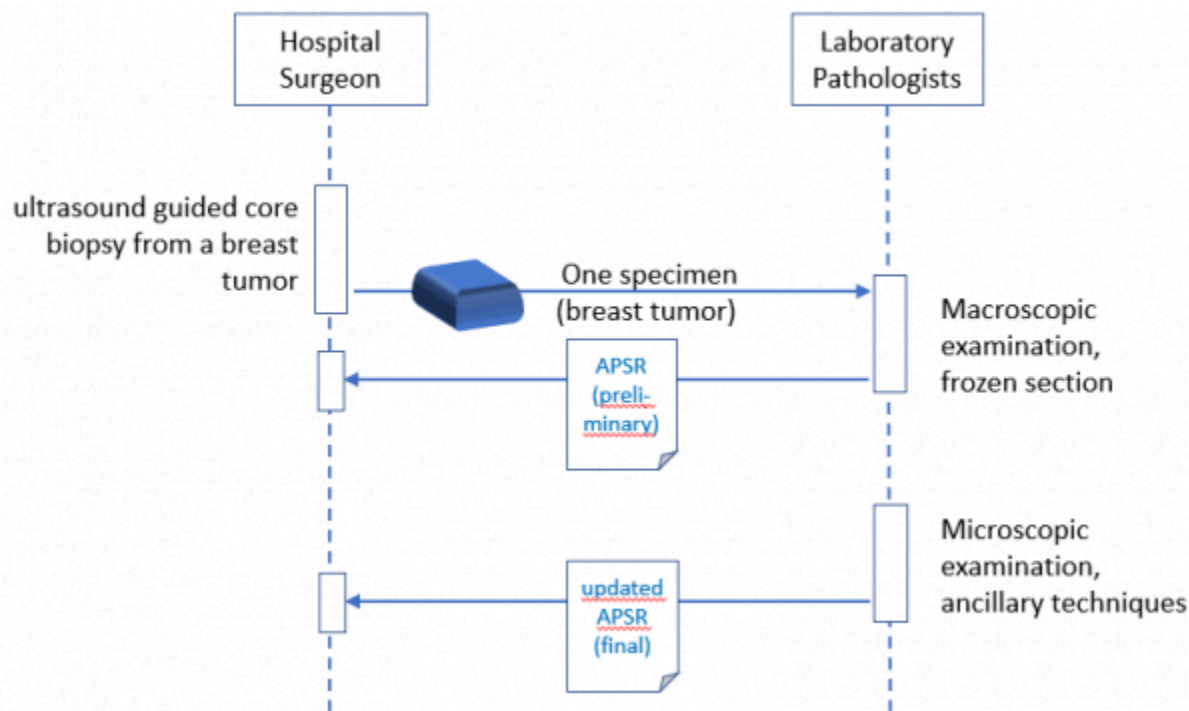
#### 10.4.2.2.1 Multi-step Report Use Case Description

A surgeon removes a breast tumor from a patient, requests the procedure “breast surgical specimen - frozen sections & pathological examination”, and “breast surgical specimen - pathological examination” and sends the specimen(s) to the anatomic pathology laboratory.

Specimens are accessioned by the anatomic pathology department. The staff performs a macroscopic examination of the specimens, gross imaging is performed if needed. The specimens are processed for intraoperative observation if needed, and tissue banking if needed (e.g., for research purpose). During the imaging interpretation process of frozen sections, microscopic imaging is performed if needed. At the end of the interpretation process, the pathologist queries the Content Creator for the appropriate APSR template, fills the intraoperative observation section, binds some relevant images and/or regions of interest to specific observation(s) if needed, validates and signs (i.e., legally authenticates) the preliminary APSR.

The day after, the specimen(s) are processed for microscopic examination and other special ancillary techniques if needed. During the imaging interpretation process, microscopic imaging is performed if needed. At the end of the interpretation process, pathologist queries the Content Creator for the preliminary APSR, fills the form, binds some relevant images and/or regions of interest to specific observation(s), validates and signs (i.e., legally authenticates) the final APSR.

#### 10.4.2.2.2 Multi-step Report Process Flow



### 10.5 APSR Security Considerations

See PaLM TF-1: Appendix A.

### 10.6 APSR Cross Profile Considerations

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## **Volume 3 – Content Modules**

---

# 1 Introduction

---

The content of this entire section is identical to Section 1 of [PaLM: TF-3](#).

## 1.1 Overview of the Anatomic Pathology Technical Framework

Integrating the Healthcare Enterprise (IHE) is an international initiative to promote the use of standards to achieve interoperability among health information technology (HIT) systems and effective use of electronic health records (EHRs). IHE provides a forum for care providers, HIT experts and other stakeholders in several clinical and operational domains to reach consensus on standards-based solutions to critical interoperability issues. The primary output of IHE is system implementation guides, called IHE Profiles. IHE publishes each profile through a well-defined process of public review and trial implementation and gathers profiles that have reached final text status into an IHE Technical Framework, of which this volume is a part. For more general information regarding IHE, refer to [IHE International website](#). It is strongly recommended that, prior to reading this volume, the reader familiarizes themselves with the concepts defined in the [IHE Technical Frameworks General Introduction](#).

## 1.2 Intended Audience

The intended audience of IHE Technical Frameworks Volume 3 is:

- IT departments of healthcare institutions
- Technical staff of vendors participating in the IHE initiative
- Experts involved in standards development

## 1.3 Overview of Technical Framework Volume 3

Volume 3 is comprised of several distinct sections:

- Section 1 provides background and reference material.
- Section 2 presents the conventions used in this volume to define the content modules.
- Section 3 provides an overview of Content Modules and the terminology used.
- Section 4 is reserved for domain unique Content Module specifications.
- Section 5 lists the namespaces and identifiers defined or referenced and the vocabularies defined or referenced herein.
- Section 6 defines the PaLM domain's HL7® <sup>[6]</sup> V3 CDA Content Modules in detail.
- Section 7 defines the PaLM domain's DICOM® <sup>[7]</sup> content modules in detail.
- Section 8 defines other types of content modules.

The appendices in Volume 3 provide clarification of technical details of the IHE data model and transactions. A glossary of terms and acronyms used in the IHE Technical Framework, including those from relevant standards, is provided in the [IHE Technical Frameworks General Introduction](#). Due to the length of the document, some domains may divide Volume 3 into smaller volumes labeled 3a, 3b, etc.

In this case, the Volume 3 appendices are gathered in Volume 3x. Code and message samples may also be stored on the IHE ftp server. In this case, explicit links to the ftp server will be provided in the transaction text.

## **1.4 Comment Process**

IHE International welcomes comments on this document and the IHE initiative. Comments on the IHE initiative can be submitted by sending an email to the co-chairs and secretary of the Pathology and Laboratory Medicine domain committees at [palm@ihe.net](mailto:palm@ihe.net). Comments on this document can be submitted at [https://www.ihe.net/PaLM\\_Public\\_Comments/](https://www.ihe.net/PaLM_Public_Comments/).

## **1.5 Copyright Licenses**

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### **1.5.1 Copyright of Base Standards**

IHE technical documents refer to and make use of a number of standards developed and published by several standards development organizations. All rights for their respective base standards are reserved by these organizations. This agreement does not supersede any copyright provisions applicable to such base standards. Health Level Seven, Inc. has granted permission to IHE to reproduce tables from the HL7 standard. The HL7 tables in this document are copyrighted by Health Level Seven, Inc. All rights reserved. Material drawn from these documents is credited where used.

## **1.6 Trademark**

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## **1.7 Disclaimer Regarding Patent Rights**

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rights, and the risk of infringement of such rights, is entirely their own responsibility. Further information about the IHE International patent disclosure process including links to forms for making disclosures is available [here](#). Please address questions about the patent disclosure process to the secretary of the IHE International Board: [secretary@ihe.net](mailto:secretary@ihe.net)

## **1.8 History of Document Changes**

Content Modules for the APSR Profile:

- Reconfiguration of the Document content module
- Reconfiguration of the Procedure step section content module
- Introduction of the Additional Specified Observation section content module
- Reconfiguration of the entry content modules "Problem organizer", "Specimen procedure steps", and "Update information organizer"
- Introduction of child element content modules "X-specimen identified", "UICC/AJCC-TNM observation", "ICD-O-3 observation", "Assessment scales observation", "Pertinent insurance information".
- Renewal and completion of value sets.

Transformation of a real-world use case into a valid APSR xml instance.

Finalization of the supplement for trial implementation publication.

## **2 Conventions**

---

This document has adopted the following conventions for representing the framework concepts and specifying how the standards upon which the IHE Technical Framework is based shall be applied.

### **2.1 Content Module Modeling and Profiling Conventions**

In order to maintain consistent documentation, modeling methods for IHE content modules and profiling conventions for frequently used standards are maintained as an appendix in the [IHE Technical Frameworks General Introduction](#). Methods described include the standards conventions DICOM, HL7 v2.x, HL7 Clinical Document Architecture (CDA) Documents, etc. These conventions are critical to understanding this volume and should be reviewed prior to reading this text.

### **2.2 Additional Standards Profiling Conventions**

This section defines profiling conventions for standards which are not described in the IHE Technical Frameworks General Introduction.

Not Applicable.



### 3 Content Modules Overview and Terminology

---

In the future, an appendix to the IHE Technical Frameworks General Introduction will provide an overview of Content Modules. In the interim, information may be available [here](#).

The Pathology and Laboratory Medicine content modules are listed in the table below:

**Table 3-1: Pathology and Laboratory Medicine Content Modules**

<b>Content Module Acronym</b>	<b>Type of Content Modules</b>	<b>Semantic</b>	<b>Status</b>
XD-LAB	CDA R2 medical document	Clinical Laboratory Structured Report	Final Text
APSR	CDA R2 medical document	Anatomic Pathology Structured Report	Trial Implementation

## 4 IHE Pathology and Laboratory Medicine Bindings

### 4.1 Medical Document Binding to XDS, XDM and XDR

The bindings of the content modules of the PaLM domain leverage the bindings specified by the Patient Care Coordination domain, in [PCC TF Volume 2](#), section 4, with the addition of the constraints specified below.

#### 4.1.1 XSDocumentEntry Metadata

##### 4.1.1.1 XSDocumentEntry.eventCodeList

Append this paragraph at the end of the section.

For the APSR content module, The XSDocumentEntry.eventCodeList provides a means to index anatomic pathology reports by reportable conditions (e.g., certain types of tumors...) so as to facilitate later queries in a registry of shared clinical documents. The conclusions coded in the entry element of the Diagnostic Conclusion section are good candidates for this metadata.

##### 4.1.1.2 XSDocumentEntry.formatCode

Append this paragraph at the end of the section.

For the APSR content module, The XSDocumentEntry.formatCode SHALL be [urn:ihe:palm:apsr:2016](#)  
The associated codingScheme SHALL be 1.3.6.1.4.1.19376.1.2.3

##### 4.1.1.3 XSDocumentEntry.parentDocumentRelationship

Append this paragraph at the end of the section.

For the APSR content module XSDocumentEntry.parentDocumentRelationship is constrained to the "RPLC" value. When there is a parent document the current document is a new version of the parent document, replacing it.

- Note 1: A non-final anatomic pathology report published in an XDS infrastructure will likely be replaced afterwards by the final report. When this event occurs, the Content Creator Actor SHALL apply the following rules:
  - ClinicalDocument/setId SHALL have the same value in the new report as in the replaced report.
  - ClinicalDocument/versionNumber SHALL be incremented in the replacing report (i.e. the final one).
  - ClinicalDocument/relatedDocument@typeCode attribute SHALL be valued "RPLC"
  - ClinicalDocument/relatedDocument/parentDocument/id in the new report SHALL be equal to ClinicalDocument/ id of the replaced document.

The Document Source Actor SHALL apply the following rules on XSDocumentEntry metadata:

- The final report SHALL be associated with the previously published one, using RPLC relationship and the previous report SHALL be “Deprecated” as described in ITI TF-2:4.1.6.1.
  - Note 2: A non-final report can also be replaced by a more recent, albeit still non-final report. The rules above also apply in this case.
  - Note 3: A final report can also be replaced by a corrective final report. The rules above also apply in this case.
  - Note 4: A new version of a report SHOULD have an Update Organizer <entry> in its Diagnostic Conclusion <section> carrying information about what has been changed in comparison with the immediate previous report, and what is the clinical significance of that change.

## 5 Namespaces and Vocabularies

### 5.1 OID tree of PAT TF

1.3.6.1.4.1.19376.1.81.3.6.1.4.1.19376.1.8 is the OID of the former IHE Anatomic Pathology domain, whereas 1.3.6.1.4.1.19376.1.81.3.6.1.4.1.19376.1.3 is the OID for PaLM domain :

All exchangeable objects specified by these domains are identified by OIDs built on these roots:

Branch 1.3.6.1.4.1.19376.1.8.1 is dedicated to CDA Content Modules created by the AP domain

```
Sub-branch 1.3.6.1.4.1.19376.1.8.1.1 is the OID of the generic Document Content
Module
Sub-branch 1.3.6.1.4.1.19376.1.8.1.2 is dedicated to Section Content Modules
Sub-branch 1.3.6.1.4.1.19376.1.8.1.3 is dedicated to Entry Content Modules.
Sub-branch 1.3.6.1.4.1.19376.1.8.1.3.6 is the OID of the Problem Organizer
Sub-branch 1.3.6.1.4.1.19376.1.8.1.4 is dedicated to Element Content Modules
Sub-branch 1.3.6.1.4.1.19376.1.8.1.4.9 is the OID of the generic anatomic pathology (AP)
observation template
```

Branch 1.3.6.1.4.1.19376.1.8.2 is dedicated to terminologies defined by AP domain

```
Sub-branch 1.3.6.1.4.1.19376.1.8.2.1 is dedicated to PathLex, BUT THIS TEMPORARY VOCABULARY
IS NO LONGER USED
```

Branch 1.3.6.1.4.1.19376.1.8.5 is dedicated to Value Sets defined by AP domain.

Branch 1.3.6.1.4.1.19376.1.3.10 is dedicated to Templates newly defined by PaLM domain.

```
Sub-branch 1.3.6.1.4.1.19376.1.3.10.1 is dedicated to CDA Document Level Templates
Sub-branch 1.3.6.1.4.1.19376.1.3.10.2 is dedicated to CDA Header Level Templates
Sub-branch 1.3.6.1.4.1.19376.1.3.10.3 is dedicated to CDA Section Level Templates
Sub-branch 1.3.6.1.4.1.19376.1.3.10.4 is dedicated to CDA Entry Level Templates
Sub-branch 1.3.6.1.4.1.19376.1.3.10.9 is dedicated to CDA Template Fragments/Supporting
Templates
```

Branch 1.3.6.1.4.1.19376.1.3.11 is dedicated to Value Sets newly defined by PaLM domain.

Branch 1.3.6.1.4.1.19376.1.8.9 is used to identify instances in the examples of AP content built by the PaLM domain.

Notes on other IHE OIDs used in the AP domain:

Branch 1.3.6.1.4.1.19376.1.3.4 is used to identify instances in the examples of AP content built by XD-LAB in the PaLM domain.

### 5.2 Terminologies and controlled coded vocabularies

This section lists the terminologies and the coded vocabularies referenced by this Volume 3.

**Table 5.2-1 Anatomic Pathology Terminologies and Coded Vocabularies**

<b>codeSystem</b>	<b>codeSystemName and Description</b>	<b>Owner</b>
2.16.840.1.113883.6.1	LOINC <i>Logical Observation Identifier Names and Codes</i>	Regenstrief Institute
2.16.840.1.113883.6.8	UCUM <i>Unified Code for Units of Measure</i>	Regenstrief Institute, and the UCUM Organization
2.16.840.1.113883.6.96	SNOMED-CT <i>Systematized Nomenclature of Medicine – Clinical Terms</i>	IHTSDO/Snomed International
1.3.6.1.4.1.19376.1.5.3.2	IHEActCode <i>Vocabulary defined by IHE PCC in PCC TF-2:5.1.2, used for representing annotation comments in the report</i>	IHE PCC
2.16.840.1.113883.5.4	Act Code <i>Codesystem for Acts</i>	HL7 International
2.16.840.1.113883.5.6	ActClass <i>Codesystem for Act Classes</i>	HL7 International
2.16.840.1.113883.5.1052	Act Site <i>Codesystem for Act Sites</i>	HL7 International
2.16.840.1.113883.5.1065	ProcedureMethod <i>Codesystem for Procedure Methods</i>	HL7 International
2.16.840.1.113883.5.111	Role Code <i>Codesystem for Role Codes</i>	HL7 International
2.16.840.1.113883.5.129	SpecimenType <i>Codesystem for Specimen Types</i>	HL7
2.16.840.1.113883.5.83	ObservationInterpretation <i>One or more codes specifying a rough qualitative interpretation of the observation, such as "normal", "abnormal", "below normal", "change up", "resistant", "susceptible", etc.</i>	HL7 International
2.16.840.1.113883.5.84	ObservationMethod <i>A code system that provides additional detail about the means or technique used to ascertain the observation</i>	HL7 International
2.16.840.1.113883.6.3	ICD-10 <i>International Classification of Diseases revision 10</i>	WHO
2.16.840.1.113883.6.43.1	ICD-O-3 <i>International Classification of Diseases for Oncology, 3rd edition, revision 1, 2013</i>	WHO
1.2.840.10008.2.16.4	DICOM controlled vocabulary <i>The meanings of codes defined in DICOM,</i>	DICOM

	<i>either explicitly or by reference to another part of DICOM or an external reference document or standard</i> <sup>[8]</sup>	
2.16.840.1.113883.15.16	TNM 8th edition <i>Internationally agreed-upon standards to describe and categorize cancer stages and progression</i> <sup>[9]</sup>	Union for International Cancer Control (UICC) & American Joint Committee on Cancer (AJCC)
2.16.840.1.113883.15.6	TNM 7th edition <i>Internationally agreed-upon standards to describe and categorize cancer stages and progression</i> <sup>[9]</sup>	Union for International Cancer Control (UICC) & American Joint Committee on Cancer (AJCC)
2.16.840.1.113883.15.7	TNM 6th edition <i>Internationally agreed-upon standards to describe and categorize cancer stages and progression</i> <sup>[9]</sup>	Union for International Cancer Control (UICC) & American Joint Committee on Cancer (AJCC)
2.16.840.1.113883.15.8	TNM 5th edition <i>Internationally agreed-upon standards to describe and categorize cancer stages and progression</i> <sup>[9]</sup>	Union for International Cancer Control (UICC) & American Joint Committee on Cancer (AJCC)
2.16.840.1.113883.6.4	ICD-10-PCS <i>International Classification of Diseases, 10th Revision, Procedure Coding System (ICD-10-PCS)</i>	WHO
1.2.276.0.76.5.464	OPS 2017 <i>Code lists to describe and categorize surgeries and procedures, adapted from WHO ICPM for Germany</i>	DIMDI / (WHO)
2.16.840.1.113883.6.174	OMIM <i>Code lists to describe and categorize human genes. OMIM is a comprehensive, authoritative compendium of human genes and genetic phenotypes that is freely available and updated daily.</i> <sup>[10]</sup>	OMIM Johns Hopkins University School of Medicine
1.2.276.0.76.3.1.131.1.5.1	DKG Coding Scheme <i>Internationally agreed-upon code lists to describe and categorize cancer grading systems, adapted for Germany</i> <sup>[11]</sup>	DKG (Deutsche Krebsgesellschaft)
1.2.276.0.76.5.336	Grading / Differentiation scheme <i>Code lists to describe and categorize Tumor</i>	HL7 Germany

	<i>grading according ICD-O-3, adapted for Germany</i>	
1.2.276.0.76.5.401	Localization scheme for distant metastases <i>Code lists to describe and categorize localization of metastases according UICC, adapted for Germany</i>	HL7 Germany

## 5.3 Value Sets

The value sets defined or referenced by this Volume 3 of the IHE PaLM TF Suppl. are listed and specified in Appendix A of this Volume.

## 5.4 Namespaces

### 5.4.1 Namespace protecting extensions to the CDA schema

There is currently one single extension to the CDA.xsd schema used in PaLM TF-3. This extension has been created by former IHE LAB and is protected by this particular namespace in document instances:  
*xmlns:lab="urn:oid:1.3.6.1.4.1.19376.1.3.2"*

## 5.5 References to Content Modules built outside of IHE PaLM TF

The Content Modules specified in this Volume 3 of the PaLM TF leverage a number of Content Modules (currently CDA templates) produced and maintained by other groups, including other domains of IHE. Table 5.5-1 lists them.

**Table 5.5-1 External Content Modules referenced by PaLM TF-3**

templateId	Standard	Definition	Source of Specification
1.3.6.1.4.1.19376.1.5.3.1.3.1	CDA R2	Reason for referral	IHE PCC TF-2:6.3.3.1.2
1.3.6.1.4.1.19376.1.5.3.1.3.4	CDA R2	History of present illness	IHE PCC TF-2:6.3.3.2.1
1.3.6.1.4.1.19376.1.5.3.1.3.6	CDA R2	Active Problems	IHE PCC TF-2:6.3.3.2.3
1.3.6.1.4.1.19376.1.5.3.1.4.2	CDA R2	Comment	IHE PCC TF-2:6.3.4.6

## 5.6 IHE code and formatCode for Anatomic Pathology Document Template

Merge the content of this section into the current section 5.1.1 of PaLM TF volume 3.

Any AP structured report SHALL be associated with the metadata typeCode = “60568-3”, which is the LOINC code for “Pathology Synoptic report”.

The table below lists the format codes, template identifiers and media types used by the IHE Profiles specified in the PaLM Technical Framework. Note that the code system for these codes is 1.3.6.1.4.1.19376.1.2.3 as assigned by the ITI Domain for codes used for the purposes of cross-enterprise document sharing (XDS). For more information see [XDS Coding System \(1.3.6.1.4.1.19376.1.2.3\)](#).

*IHE Pathology and Laboratory Medicine (PaLM) Technical Framework Supplement - Anatomic Pathology Structured Report (APSR)*

<b>Profile</b>	<b>formatCode</b>	<b>Media Type</b>	<b>Template ID</b>
XD-LAB	<a href="urn:ihe:lab:xd-lab:2008">urn:ihe:lab:xd-lab:2008</a>	text/xml	1.3.6.1.4.1.19376.1.3.3
APSR	<a href="urn:ihe:palm:apsr:2016">urn:ihe:palm:apsr:2016</a>	text/xml	1.3.6.1.4.1.19376.1.8.1.1.1



## 6 PaLM HL7 CDA Content Modules

---

### 6.1 Conventions

- HL7 CDA conventions are defined in the [IHE Technical Frameworks General Introduction Appendix E](#)
- In all Content Modules specified in this section, the abbreviation “**AP**” stands for “Anatomic Pathology”.

### 6.2 Folder Modules

Intentionally left blank

### 6.3 Content Modules

This section defines each IHE Pathology and Laboratory Medicine Content Module in detail, specifying the standards used and the information defined.

#### 6.3.1 CDA Document Content Modules

All persons (including the patient) and organizations mentioned in the CDA Document Content Modules SHALL include the elements *name*, *addr* and *telecom*.

##### 6.3.1.1 Clinical Laboratory Report Content Module 1.3.6.1.4.1.19376.1.3.3

Section unchanged, as in PaLM TF-3

##### 6.3.1.2 Anatomic Pathology Structured Report Content Module 1.3.6.1.4.1.19376.1.8.1.1.1

This Content Integration Profile describes a surgical pathology report as an electronic document to be published towards a document sharing resource such as an Electronic Health Record (EHR) or Personal Health Record (PHR) shared by a community of care providers, using one of the document sharing profiles defined in ITI-TF.

Such an electronic document contains the set of releasable results produced by an surgical pathology laboratory in fulfillment of an Order or an Order Group for a patient. The report is shared in a human-readable format. In addition, this electronic anatomic pathology report SHALL contain diagnostic conclusions in a machine-readable format, to facilitate the integration of these observations in the database of a consumer system.


This Document Content Module defines the base set of constraints that apply to all AP structured reports, related to any kind of lesion or diagnostic

problem (cancers, benign neoplasms as well as non-neoplastic conditions) as well as for Cytopathology. In other words, this is the generic template for any AP structured report.

This document content module is identified by templateId 1.3.6.1.4.1.19376.1.8.1.1.1.

The body of this Document Content Module specifies a common hierarchy of sections and entries depicted by figure 10.4.1-1 in Volume 1. The only mandatory section is the Diagnostic Conclusion Section. And the only mandatory entry is the Problem Organizer Entry below this section.

The specification of this Document Content Module is built and published on Art-Decor [Pathology Structured Reporting](#), including schematron rules, code systems and value sets.

<b>Id</b>	1.3.6.1.4.1.19376.1.8.1.1.1	<b>Effective Date</b>	2014-05-13 11:57:57
<b>Status</b>	 Draft	<b>Version Label</b>	2.0
<b>Name</b>	AnatomicPathologyStructuredReportContentModule	<b>Display Name</b>	Anatomic Pathology Structured Report Content Module



  

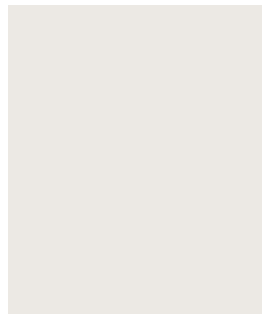
<b>Description</b>		
<p>Anatomic Pathology Structured Report Content Module.                  This document content module represents the generic set of constraints applied to any structured report for surgical pathology in all fields of anatomic pathology (cancers, benign neoplasms as well as non-neoplastic conditions) as well as for Cytopathology.                  The body of this Document Content Module specifies a common hierarchy of sections and entries depicted by figure 10.4.1-1 in Volume 1 IHE_PaLM_Suppl_APSR 2.0. The only mandatory section is the Diagnostic Conclusion Section. And the only mandatory entry is the Problem Organizer Entry below this section.</p>		

<b>Context</b>	Pathname /
<b>Label</b>	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
<b>Classification</b>	CDA Document Level Template
<b>Open/Closed</b>	Open (other than defined elements are allowed)

<b>Associated with</b>	Associated with 6 concepts		
	<b>Id</b>	<b>Name</b>	<b>Data Set</b>
	psr-dataelement-32	 Case	 APSR 2.0








psr-dataelement-50	● Accession Number	● APSR 2.0
psr-dataelement-82	● Placer group ID	● APSR 2.0
psr-dataelement-49	● Order ID	● APSR 2.0
psr-dataelement-58	● Anatomic Pathology Structured Report	● APSR 2.0
psr-dataelement-81	● Order placer ID	● APSR 2.0

Uses 20 templates

Uses

Uses	as	Name	Version
1.3.6.1.4.1.19376.1.3.3.1.1	Include	● Human Patient (2017)	2017-06-07
1.3.6.1.4.1.19376.1.8.1.4.2	Include	● Author (2.0)	2016-06-21 14:02:11
2.16.840.1.113883.10.12.103	Include	● CDA dataEnterer	2005-09-07
1.3.6.1.4.1.19376.1.8.1.4.6	Containment	● Informant (2.0)	2016-07-08 11:22:58
2.16.840.1.113883.10.12.104	Include	● CDA custodian	2005-09-07
1.3.6.1.4.1.19376.1.3.3.1.4	Include	● XD-LAB Information Recipient (2017)	2008-08-08
1.3.6.1.4.1.19376.1.3.10.2.4	Include	● XD-LAB LegalAuthenticator (2017)	2016-07-05
1.3.6.1.4.1.19376.1.8.1.4.3	Include	● Content Validator	2016-07-09 15:03:59
1.3.6.1.4.1.19376.1.3.3.1.6	Include	● Ordering Provider (2017)	2008-08-08
1.3.6.1.4.1.19376.1.8.1.4.1	Include	● Specimen Collector in Header	2016-06-13 14:21:13
1.3.6.1.4.1.19376.1.3.10.2.5	Include	● Participant Pertinent Insurance Information	2017-11-13 16:52:30
1.3.6.1.4.1.19376.1.3.3.1.7	Containment	● Laboratory Performer (2017)	2008-08-08
2.16.840.1.113883.10.12.113	Include	● CDA componentOf	2005-09-07
1.3.6.1.4.1.19376.1.8.1.2.1	Containment	● Clinical Information Section (2.0)	2014-05-13 14:38:08
1.3.6.1.4.1.19376.1.8.1.2.2	Containment	● Intraoperative Observation Section (2.0)	2014-05-13 19:29:16

	<p>1.3.6.1.4.1.19376.1.8.1.2.3 Containment  Macroscopic Observation Section (2.0)</p> <p>1.3.6.1.4.1.19376.1.8.1.2.4 Containment  Microscopic Observation Section (2.0)</p> <p>1.3.6.1.4.1.19376.1.3.10.3.1 Containment  Additional Specified Observation Section (2.0)</p> <p>1.3.6.1.4.1.19376.1.8.1.2.5 Containment  Diagnostic Conclusion Section (2.0)</p> <p>1.3.6.1.4.1.19376.1.8.1.2.6 Containment  Procedure Steps Section (2.0)</p>	<p>2014-05-13 11:57:09</p> <p>2014-05-13 14:25:17</p> <p>2016-11-13 14:28:08</p> <p>2014-05-13 19:31:26</p> <p>2014-05-13 19:33:12</p>
<p><b>Relationship</b></p>	<p>Specialization: template 2.16.840.1.113883.10.12.1 (2005-09-07)</p>	
<p><b>Example</b></p>	<p>example for use case #1</p> <pre> &lt;ClinicalDocument xsi:schemaLocation="urn:hl7-org:v3 infrastructure/cda/CDA_extended.xsd"&gt;   &lt;realmCode code="UV"/&gt;   &lt;typeId extension="POCD_HD000040" root="2.16.840.1.113883.1.3"/&gt;   &lt;templateId root="1.3.6.1.4.1.19376.1.8.1.1.1"/&gt;   &lt;!-- Identifier of this instance of the report --&gt;   &lt;id root="1.3.6.1.4.1.19376.1.8.9.1" extension="A7102400008_1" assigningAuthorityName="IHE PaLM Technical Committee"/&gt;   &lt;!-- Type of document --&gt;   &lt;code code="60568-3" codeSystem="2.16.840.1.113883.6.1" displayName="Pathology Synoptic report"/&gt;   &lt;title&gt;Anatomic Pathology Structured Report - Breast Biopsy&lt;/title&gt;   &lt;effectiveTime value="201001041605-0500"/&gt;   &lt;confidentialityCode code="N" displayName="normal" codeSystem="2.16.840.1.113883.5.25"/&gt;   &lt;languageCode code="en-US"/&gt;   &lt;!-- common identifier to all releases of this report, extension is accession number --&gt;   &lt;setId root="1.3.6.1.4.1.19376.1.8.9.1" extension="A7102400008" assigningAuthorityName="IHE PaLM Technical Committee"/&gt;   &lt;versionNumber value="1"/&gt;   &lt;!-- Patient --&gt;   &lt;recordTarget&gt;     &lt;patientRole&gt;       &lt;id extension="0411886319605719371016" root="1.3.6.1.4.1.19376.1.8.9.2"/&gt;       &lt;addr use="HP"&gt;         &lt;streetAddressLine&gt;39 East Street&lt;/streetAddressLine&gt;         &lt;postalCode&gt;69499&lt;/postalCode&gt;         &lt;city&gt;Appleton&lt;/city&gt;         &lt;state&gt;WI&lt;/state&gt;         &lt;country&gt;United States&lt;/country&gt;       &lt;/addr&gt;       &lt;telecom nullFlavor="NASK"/&gt;       &lt;patient&gt;         &lt;name&gt;           &lt;prefix&gt;Miss&lt;/prefix&gt;           &lt;given&gt;EVE&lt;/given&gt;           &lt;family qualifier="BR"&gt;ONEWOMAN&lt;/family&gt;         &lt;/name&gt;         &lt;administrativeGenderCode code="F" codeSystem="2.16.840.1.113883.5.1"/&gt;         &lt;birthTime value="19710921"/&gt;       &lt;/patient&gt;     &lt;/patientRole&gt;   &lt;/recordTarget&gt; </pre>	

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    </patient>
  </patientRole>
</recordTarget>
<!-- one or more author(s) of the report, with authoring time -->
<author>
  <templateId root="1.3.6.1.4.1.19376.1.8.1.4.2"/>
  <time value="20100104131933-0500"/>
  <assignedAuthor>
    <id root="1.3.6.1.4.1.19376.1.8.9.3" extension="801234567897"/>
    <addr nullFlavor="MSK"/>
    <telecom value="tel:+33-602030499"/>
    <assignedPerson>
      <name>
        <given>Marcel</given>
        <family>Pathologist</family>
        <suffix>Ph D</suffix>
      </name>
    </assignedPerson>
    <representedOrganization>
      <id root="1.3.6.1.4.1.19376.1.8.9.4" extension="1120456789"/>
      <name>CANCER INSTITUTE</name>
      <telecom nullFlavor="MSK"/>
      <addr nullFlavor="MSK"/>
    </representedOrganization>
  </assignedAuthor>
</author>
<!-- one or more transcriptionists, with transcription time -->
<dataEnterer>
  <time value="20100104131720-0500"/>
  <assignedEntity>
    <id root="1.3.6.1.4.1.19376.1.8.9.3" extension="A32"/>
    <addr nullFlavor="MSK"/>
    <telecom nullFlavor="MSK"/>
    <assignedPerson>
      <name>
        <given>Adeline</given>
        <family>Medsecret</family>
      </name>
    </assignedPerson>
  </assignedEntity>
</dataEnterer>
<informant>
  <!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant(Body) APSR2', not used in use case #1 -->
</informant>
<!-- The unique custodian of this document is the sending pathology lab that will administer it (further updates, deprecation) -->
<custodian>
  <assignedCustodian>
    <representedCustodianOrganization>
      <id root="1.3.6.1.4.1.19376.1.8.9.4" extension="1120456789"/>
      <name>CANCER INSTITUTE</name>
      <telecom use="PUB" value="0466666666"/>
      <addr>
        <streetAddressLine>38 Cramberry Street</streetAddressLine>
        <postalCode>69499</postalCode>
      </addr>
    </representedCustodianOrganization>
  </assignedCustodian>
</custodian>

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        <city>Appleton</city>
        <state>WI</state>
    </addr>
    </representedCustodianOrganization>
    </assignedCustodian>
</custodian>
<!-- One or more additional intended recipients (other than the ordering physician) -->
<informationRecipient>
    <templateId root="1.3.6.1.4.1.19376.1.3.3.1.4"/>
    <intendedRecipient>
        <id root="1.3.6.1.4.1.19376.1.8.9.3" extension="987"/>
        <addr>
            <streetAddressLine>1600 Clifton Road</streetAddressLine>
            <city>Atlanta</city>
            <state>GA</state>
            <postalCode>30333</postalCode>
        </addr>
        <telecom value="tel:404-639-3535"/>
        <informationRecipient>
            <name>
                <family>WOULDLIKETOKNOW</family>
                <given>Thomas</given>
            </name>
        </informationRecipient>
    </intendedRecipient>
</informationRecipient>
<!-- The unique legal authenticator: The person assuming the final responsibility of the report and signing it -->
<legalAuthenticator>
    <time value="20100104152503-0500"/>
    <signatureCode code="S"/>
    <assignedEntity>
        <id root="1.3.6.1.4.1.19376.1.8.9.3" extension="801234567897"/>
        <assignedPerson>
            <name>
                <given>Marcel</given>
                <family>Pathologist</family>
            </name>
        </assignedPerson>
    </assignedEntity>
</legalAuthenticator>
<!-- Zero or more additional content validator(s): pathologists having validated some part of the report -->
<authenticator>
    <templateId root="1.3.6.1.4.1.19376.1.8.1.4.3"/>
    <time value="20100104142503-0500"/>
    <signatureCode code="S"/>
    <assignedEntity>
        <id root="1.3.6.1.4.1.19376.1.8.9.3" extension="801234567898"/>
        <addr nullFlavor="MSK"/>
        <telecom nullFlavor="MSK"/>
        <assignedPerson>
            <name>
                <given>Jonas</given>
                <family>Jones</family>
                <prefix>MD</prefix>
            </name>
        </assignedPerson>
    </assignedEntity>
</authenticator>

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    </name>
  </assignedPerson>
</assignedEntity>
</authenticator>
<!-- The ordering physician -->
<participant typeCode="REF">
  <templateId root="1.3.6.1.4.1.19376.1.3.3.1.6"/>
  <time>
    <high value="20091231"/>
  </time>
  <associatedEntity classCode="PROV">
    <id root="1.3.6.1.4.1.19376.1.8.9.3" extension="801234567892"/>
    <addr nullFlavor="NASK"/>
    <telecom value="tel:0147150000" use="EC"/>
    <associatedPerson>
      <name>
        <prefix>Doctor</prefix>
        <given>Eva</given>
        <family>Surgeon</family>
        <suffix>Ph D</suffix>
      </name>
    </associatedPerson>
  </associatedEntity>
</participant>
<!-- include template 1.3.6.1.4.1.19376.1.8.1.4.1 'CDA participant specimen collector' 0..* R, not used in use case #1 -->
<!-- include template 1.3.6.1.4.1.19376.1.3.10.2.5 'CDA participant pertinent insurance information' 0..1 R, not used in use case #1 -->
<!-- Identification of the order, extension is Order-ID -->
<inFulfillmentOf>
  <order>
    <id root="1.3.6.1.4.1.19376.1.8.9.8" extension="12345"/>
  </order>
</inFulfillmentOf>
<!-- Documented act(s): The pathology examination procedure, extension is Accession number -->
<documentationOf>
  <serviceEvent>
    <id root="1.3.6.1.4.1.19376.1.8.9.9" extension="A7102400008"/>
    <code code="371528001" displayName="Pathology report (record artifact)" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
    <!-- Status of the report -->
    <lab:statusCode code="completed"/>
    <effectiveTime>
      <!-- Start: Date&time of reception of this order and the attached specimens -->
      <low value="200912300922-0500"/>
      <!-- End -->
      <high value="201001041605-0500"/>
    </effectiveTime>
    <!-- Performing laboratory -->
    <performer typeCode="PRF">
      <templateId root="1.3.6.1.4.1.19376.1.3.3.1.7"/>
      <time>
        <high value="201001041605-0500"/>
      </time>
    </performer>
  </serviceEvent>
  <assignedEntity>
    <id root="1.3.6.1.4.1.19376.1.8.9.3" extension="801234567897"/>
    <representedOrganization>

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        <id root="1.3.6.1.4.1.19376.1.8.9.4" extension="1120456789"/>
        <name>CANCER INSTITUTE</name>
        <telecom nullFlavor="MSK"/>
        <addr nullFlavor="MSK"/>
      </representedOrganization>
    </assignedEntity>
  </performer>
</serviceEvent>
</documentationOf>
<!-- include template 1.3.6.1.4.1.19376.1.3.1.9999.10.9.16 'RelatedDocument Parent Document' 0..1 R, not used in use case #1 -->
<!-- Patient encounter: The patient stay in the hospital where the surgery was performed -->
<componentOf>
  <encompassingEncounter>
    <id root="1.3.6.1.4.1.19376.1.8.9.7" extension="234567890"/>
    <code code="ACUTE" displayName="inpatient acute"/>
    <effectiveTime>
      <high value="2201001040735-0500"/>
    </effectiveTime>
    <location typeCode="LOC">
      <healthCareFacility classCode="SDLOC">
        <id root="1.3.6.1.4.1.19376.1.8.9.4" extension="11223344"/>
        <serviceProviderOrganization classCode="ORG" determinerCode="INSTANCE">
          <name>Surgery theater</name>
          <asOrganizationPartOf>
            <wholeOrganization>
              <name>CANCER INSTITUTE</name>
            </wholeOrganization>
          </asOrganizationPartOf>
        </serviceProviderOrganization>
      </healthCareFacility>
    </location>
  </encompassingEncounter>
</componentOf>
<!-- Structured body -->
<component typeCode="COMP" contextConductionInd="true">
  <structuredBody classCode="DOCBODY" moodCode="EVN">
    <component typeCode="COMP" contextConductionInd="true">
      <!-- template 1.3.6.1.4.1.19376.1.8.1.2.1 'Clinical Information Section' (2014-05-13T14:38:08) -->
    </component>
    <component typeCode="COMP" contextConductionInd="true">
      <!-- template 1.3.6.1.4.1.19376.1.8.1.2.2 'Intraoperative Observation Section' (2014-05-13T19:29:16) -->
    </component>
    <component typeCode="COMP" contextConductionInd="true">
      <!-- template 1.3.6.1.4.1.19376.1.8.1.2.3 'Macroscopic Observation Section' (2014-05-13T11:57:09) -->
    </component>
    <component typeCode="COMP" contextConductionInd="true">
      <!-- template 1.3.6.1.4.1.19376.1.8.1.2.4 'Microscopic Observation Section' (2014-05-13T14:25:17) -->
    </component>
    <component typeCode="COMP" contextConductionInd="true">
      <!-- template 1.3.6.1.4.1.19376.1.3.10.3.1 'Additionally Specified Observation Section' (2016-11-13T14:28:08) -->
    </component>
    <component typeCode="COMP" contextConductionInd="true">
      <!-- template 1.3.6.1.4.1.19376.1.8.1.2.5 'Diagnostic Conclusion Section' (2014-05-13T19:31:26) -->
    </component>
  </structuredBody>
</component>




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<component typeCode="COMP" contextConductionInd="true">
  <!-- template 1.3.6.1.4.1.19376.1.8.1.2.6 'Procedure Steps Section' (2014-05-13T19:33:12) -->
</component>
</structuredBody>
</component>
</ClinicalDocument>
    
```

Item	DT	Card	Conf	Description	Label
h17:ClinicalDocument		1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
 psr-dataelement-58  Anatomic Pathology Structured Report  APSR 2.0					
└ @classCode	CS	1 ... 1	F	DOCCLIN	
└ @moodCode	CS	1 ... 1	F	EVN	
└ h17:templateId	II	1 ... 1	M	This element is identifying the set of constraints applied to the CDA R2 standard by this IHE specification of a AP report. The following templateId SHALL be present and valued as follows to indicate compliance with the APSR 2.0 content module specification.	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.8.1.1.1	
└ h17:realmCode	CS (extensible)	1 ... 1	M	This element SHALL be present and is valued from the RealmOfUse [2.16.840.1.113883.1.11.11050] subset, within the VocabularyDomainQualifier value set. In the international context of this profile used as it is without any further extension, the realm code SHALL be <realmCode code="UV"/> (universal).	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR





				Whenever a national extension has been defined and is used, the realm code SHALL identify this national extension.	document content module
└─ hl7: typeId	II	1 ... 1	M	This element is a technology-neutral explicit reference to the standard CDA R2. It SHALL be present and valued as follows: ClinicalDocument/typeId@root = "2.16.840.1.113883.1.3" (which is the OID for HL7 Registered models); ClinicalDocument.typeId@extension = "POCD_HD000040" (which is the unique identifier for the CDA, Release Two Hierarchical Description).	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
└─ @root	uid	1 ... 1	F	2.16.840.1.113883.1.3	
└─ @extension	st	1 ... 1	F	POCD_HD000040	
└─ hl7:id	II	1 ... 1	M	ClinicalDocument/Id SHALL be present. It represents the unique instance identifier of the clinical document. The combination of the root and extension attributes SHALL provide a globally unique identifier, in accordance with CDA R2, without further constraints.	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
	 psr-dataelement-32  Case  APSR 2.0				
└─ @root	uid	1 ... 1	R	Here the OID for PAT exemplary instances, in practice the OID of the AP-LIS	
└─ @extension	st	1 ... 1	R	Here a hypothetical document ID, most often derived from the accession number	
	Constraint	A report may have several successive revisions over time, in case corrections or complements are provided by the custodian after the initial release of the report. The unique id of the current revision of the report is carried by the id element, and is composed of <ul style="list-style-type: none"> <li>id@root, which SHALL be an OID,</li> </ul>			






				<ul style="list-style-type: none"> <li>and optionally id@extension, which can be any string so that the concatenation of the two attributes root and extension provide a globally unique id, which identifies this release of the report.</li> </ul>	
	Example	Report ID from use case #1 <code>&lt;id root="1.3.6.1.4.1.19376.1.8.9.1" extension="A7102400008_1" assigningAuthorityName="IHE PaLM Technical Committee"/&gt;</code>			
L h17:code	CE (required)	1 ... 1	M	ClinicalDocument/code SHALL be present. The document type of this content module is always <code>&lt;code code="60568-3" codeSystem="2.16.840.1.113883.6.1" displayName="Pathology Synoptic report" codeSystemName="LOINC"/&gt;</code>	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
L @code	CONF	1 ... 1	F	60568-3	
L @codeSystem		1 ... 1	F	2.16.840.1.113883.6.1 (LOINC)	
L @codeSystemName		1 ... 1	F	LOINC	
L @displayName		1 ... 1	F	Pathology Synoptic report	
L h17:title	ST	1 ... 1	M	The APSR <title> SHALL be present. It is the local translation of the code@displayName.	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
	Example	Report title from use case #1 <code>&lt;title&gt;ANATOMIC PATHOLOGY REPORT - BREAST BIOPSY&lt;/title&gt;</code>			
L h17:effectiveTime	TS	1 ... 1	M	ClinicalDocument/effectiveTime SHALL be present. It contains the creation date & time of the laboratory report as an electronic	PaLM Suppl.

				document. In case this is a new revision replacing a previous version (identified in parentDocument), this is the date & time of the new revision.	APSR 2.1-3: 6.3.1.1 APSR document content module
 <b>h17:confidentialityCode</b>	<b>CE</b> (required)	<b>1 ... 1</b>	<b>M</b>	ClinicalDocument/confidentialityCode SHALL be present in accordance with the HL7 CDA R2 standard.	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
	CONF	The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.16926 <i>HL7 BasicConfidentialityKind</i> (2014-06-09)			
 <b>h17:languageCode</b>	<b>CS</b> (required)	<b>1 ... 1</b>	<b>M</b>	ClinicalDocument/languageCode SHALL be present in accordance with the HL7 CDA R2 standard.	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
	CONF	The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.11526 <i>HumanLanguage</i> (2014-03-26)			
 <b>h17:setId</b>	<b>II</b>	<b>1 ... 1</b>	<b>M</b>	ClinicalDocument/setId SHALL be present to enable further updates of the clinical document. It is an identifier that is common across all revisions of this AP report.	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module

<code>@root</code>	uid	1 ... 1	R		
<code>@extension</code>	st	1 ... 1	R		
<div style="display: flex; justify-content: space-between; align-items: center;"> <span> psr-dataelement-50</span> <span> Accession Number</span> <span> APSR 2.0</span> </div>					
Constraint		<p>A report may have several successive revisions over time, in case corrections or complements are provided by the custodian after the initial release of the report. The setId element provides a globally unique identifier that is common across all successive revisions of the report. This identifier is similarly composed of setId@root, which SHALL be an OID, and optionally setId@extension.</p>			
Example		<p>Report set ID from use case #1</p> <pre>&lt;id root="1.3.6.1.4.1.19376.1.8.9.1" extension="A7102400008" assigningAuthorityName="IHE PaLM Technical Committee"/&gt;</pre>			
<code>h17:versionNumber</code>	INT	0 ... 1	R	ClinicalDocument/versionNumber MAY be present. As requested by the CDA standard, it is an integer value used as versioning.	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
<code>@value</code>	int	1 ... 1	R		
Constraint		<p>A report may have several successive revisions over time, in case corrections or complements are provided by the custodian after the initial release of the report. The version number of the current revision of the report is a positive integer (1, 2 ...) provided in the versionNumber element.</p>			
Example		<p>Report version number for use case #1</p> <pre>&lt;versionNumber value="1"/&gt;</pre>			
<i>Included</i>		1 ... 1	M	<p>from 1.3.6.1.4.1.19376.1.3.3.1.1 <i>Human Patient</i> (2017-06-07) The Patient.</p> <p>The anatomic pathology report is related to ONE SINGLE patient.</p> <ul style="list-style-type: none"> <li>A patient SHALL be identified with at least one unique patientRole/Id.</li> </ul>	




- The patient address and telecom SHALL be provided (or null flavored).
- The patient identity SHALL provide AT LEAST the patient full name, sex and date/time of birth.

 h17:recordTarget		1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
 h17:patientRole		1 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
 h17:id	II	1 ... *	R		PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
 h17:addr	AD	1 ... *		All persons (including the patient) and organizations mentioned in the document SHALL provide elements name, addr and telecom.	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module

 h17:telecom	TEL	1 ... *		All persons (including the patient) and organizations mentioned in the document SHALL provide elements name, addr and telecom.	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
 h17:patient		1 ... 1			PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
 h17:id	II	0 ... 1			PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
 h17:name	PN	1 ... *			PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
 h17:administrativeGender Code	CE	1 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document

					content module
 hl7:birthTime	TS	1 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
Included		1 ... *	M	from 1.3.6.1.4.1.19376.1.8.1.4.2 <i>Author</i> (2016-06-21 14:02:11) The Author Content Module represents an author of the report. This element is repeatable. The sub-element <code>author/time</code> carries the date/time of the authoring action.  At least one <code>ClinicalDocument/author</code> SHALL be present with a time in accordance with the HL7 CDA R2 standard and further constrained by this specification to require the presence of name, addr and telecom. The <code>author/time</code> element carries the date&time the AP report was produced. The AP report can be authored by a software system or by a person or by both.  Source: PaLM Suppl.APSR 2.0-3: 6.3.6.2	
 hl7:author		1 ... *	M		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
					 psr-dataelement-4  Pathologist  APSR 2.0  psr-dataelement-79  Device  APSR 2.0
 @typeCode	cs	1 ... 1	F	AUT	
Example					author is a person <pre> &lt;author typeCode="AUT" contextControlCode="OP"&gt;   &lt;time value="201306101654"/&gt;   &lt;assignedAuthor classCode="ASSIGNED"&gt;     &lt;!-- ... --&gt;   &lt;/assignedAuthor&gt;                 </pre>



		</author>			
└─ h17:templateId		1 ... 1	M		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.8.1.4.2	
└─ h17:time	TS	1 ... 1	M	The authoring time is the date & time that this author contributed to the document. It SHALL be provided.	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:assignedAuthor		0 ... 1	C		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ @classCode	CS	0 ... 1	F	ASSIGNED	
└─ h17:id	II	1 ... *	M		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:addr	AD	1 ... *	M		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
		 psr-dataelement-18  Address  APSR 2.0			
└─ h17:telecom	TEL	1 ... *	M		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
Choice		1 ... 1		The author is either an assigned person or an authoring device. Elements to choose from:	

- hl7:assignedPerson
- hl7:assignedAuthoringDevice




└─ hl7:assignedPerson		0 ... 1	C		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
		🕒 psr-dataelement-5	🟡 Name	🟡 APSR 2.0	
Included		1 ... 1	R	from 2.16.840.1.113883.10.12.152 CDA Person (2005-09-07) The name(s) SHALL be given.	
└─ @classCode		0 ... 1	F	PSN	
└─ @determinerCode		0 ... 1	F	INSTANCE	
└─ hl7:name	PN	1 ... 1	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ hl7:assignedAuthoringDevice		0 ... 1	C		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ @classCode	CS	0 ... 1	F	DEV	
└─ @determinerCode	CS	0 ... 1	F	INSTANCE	
└─ hl7:manufacturerModelName	SC	0 ... 1	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ hl7:softwareName	SC	0 ... 1	R		PaLM Suppl.APSR

					2.0-3:6.3.5.1 Author
└─ h17:code	CE	0 ... 1	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:representedOrganization		0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
	Example	<pre> represented organization for author as a device &lt;representedOrganization classCode="ORG" determinerCode="INSTANCE"&gt;   &lt;name&gt;     &lt;!-- ... --&gt;   &lt;/name&gt; &lt;/representedOrganization&gt; </pre>			
Included		0 ... 1		from 2.16.840.1.113883.10.12.151 CDA Organization (2005-09-07) The identifier(s) SHOULD, the name SHALL, the telecom(s) and the address(es) MAY be given.	
└─ @classCode		0 ... 1	F	ORG	
└─ @determinerCode		0 ... 1	F	INSTANCE	
└─ h17:id	II	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:name	ON	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:telecom	TEL	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author

└ h17:addr	AD	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:standardIndustryClass Code	CE	0 ... 1		SHALL be chosen from domain OrganizationIndustryClass	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:asOrganizationPartOf		0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ @classCode		0 ... 1	F	PART	
└ h17:id	II	0 ... *	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:code	CE	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ @codeSystem	CONF	0 ... 1	F	2.16.840.1.113883.5.111 (Role Code)	
└ h17:statusCode	CS	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
	CONF			The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15999 <i>RoleStatus</i> (DYNAMIC)	
└ h17:effectiveTime	IVL_TS	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1

					Author
└─ h17:wholeOrganization		0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ @classCode		0 ... 1	F	ORG	
└─ @determinerCode		0 ... 1	F	INSTANCE	
└─ h17:id	II	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:name	ON	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:telecom	TEL	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:addr	AD	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:standard IndustryClass Code	CE	0 ... 1		SHALL be chosen from domain OrganizationIndustryClass	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
Included		0 ... *	R	from 2.16.840.1.113883.10.12.103 CDA dataEnterer (2005-09-07) Transcriptionist	

<p>└ h17:dataEnterer</p>		0 ... *	R		PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
<p>└ @typeCode</p>		0 ... 1	F	ENT	
<p>└ @contextControlCode</p>		0 ... 1	F	OP	
<p>└ h17:time</p>	TS	0 ... 1			PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
<p>└ h17:assignedEntity</p>		1 ... 1		Contains 2.16.840.1.113883.10.12.153 CDA AssignedEntity (DYNAMIC)	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
<p>📍 psr-dataelement-76</p>		<p>🟡 Secretary</p>		<p>🟡 APSR 2.0</p>	
<p>└ h17:informant</p>		0 ... *	R	Zero or more informant MAY be mentioned in the header of the report. An informant is either an assignedEntity (a professional participating to the healthcare process, and who was assigned a defined role in that process) or a relatedEntity (a person who knows the patient and has provided relevant information concerning the patient). Hence the condition is either assignedEntity is present or relatedEntity is present. In an anatomic pathology structured	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content

				report informants are only healthcare professionals. There is no point for such a report to mention persons related to the patient (next of kin, employer, guarantor, ...).  Source: PaLM Suppl. APSR 2.0-3: 6.3.6.5  Contains 1.3.6.1.4.1.19376.1.8.1.4.6 <i>Informant</i> (2016-07-08 11:22:58)	module
<i>Included</i>		<b>1 ... 1</b>	<b>M</b>	from 2.16.840.1.113883.10.12.104 <i>CDA custodian</i> (2005-09-07) ClinicalDocument/custodian SHALL be present with an id in accordance with the HL7 CDA R2 standard and further constrained by this specification to require the presence of name, addr and telecom. It represents the organization that is in charge of maintaining the AP report.	
└ h17:custodian		<b>1 ... 1</b>	<b>M</b>		PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
<div style="border: 1px solid black; padding: 5px; display: flex; justify-content: space-between; align-items: center;"> <span> psr-dataelement-38</span> <span> Custodian</span> <span> APSR 2.0</span> </div>					
└ @typeCode		<b>0 ... 1</b>	<b>F</b>	CST	
└ h17:assignedCustodian		<b>1 ... 1</b>			PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
└ @classCode		<b>0 ... 1</b>	<b>F</b>	ASSIGNED	
└ h17:representedCustodian		<b>1 ... 1</b>			PaLM Suppl.

Organization					APSR 2.1-3: 6.3.1.1 APSR document content module
└ @classCode		0 ... 1	F	ORG	
└ @determinerCode		0 ... 1	F	INSTANCE	
└ h17:id	II	1 ... *	M		PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
└ h17:name	ON	0 ... 1			PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
└ h17:telecom	TEL	0 ... 1			PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
└ h17:addr	AD	0 ... 1			PaLM Suppl.



					APSR 2.1-3: 6.3.1.1 APSR document content module
<i>Included</i>			<b>0 ... *</b>	<b>R</b>	<p>from 1.3.6.1.4.1.19376.1.3.3.1.4 <i>XD-LAB Information Recipient</i> (2008-08-08)                      The Intended Recipient Content Module represents a healthcare provider, other than the ordering physician, expecting to receive a copy of the report. This repeatable element informationRecipient of the CDA header is used to list the intended recipients who were known at the time the report was created and issued.</p> <p>Source: PaLM TF-3: 6.3.2.14</p>
└ h17:informationRecipient			<b>0 ... *</b>	<b>R</b>	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
└ h17:templateId	<b>II</b>		<b>1 ... 1</b>	<b>M</b>	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
└ @root	uid		<b>1 ... 1</b>	<b>F</b>	1.3.6.1.4.1.19376.1.3.3.1.4
└ h17:intendedRecipient			<b>1 ... 1</b>	<b>R</b>	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document

					content module
└ h17:id	II	0 ... *	R		PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
└ h17:addr	AD	1 ... *			PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
└ h17:telecom	TEL	1 ... *			PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
└ h17:informationRecipient		0 ... 1		Contains 1.3.6.1.4.1.19376.1.3.10.9.18 <i>PlayingEntity or person with Name</i> (DYNAMIC)	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
└ h17:receivedOrganization		0 ... 1		Contains 1.3.6.1.4.1.19376.1.3.10.9.13 <i>Organization with Name, Addr, Telecom</i> (DYNAMIC)	PaLM Suppl. APSR 2.1-3:


					6.3.1.1 APSR document content module
				from 1.3.6.1.4.1.19376.1.3.10.2.4 <i>XD-LAB LegalAuthenticator</i> (2016-07-05) The Legal authenticator Content Module describes a pathologist having verified the content of the report, using the element legalAuthenticator.	
<i>Included</i>		<b>1 ... 1</b>	<b>M</b>	The report SHALL have one legal Authenticator.	
				Source: PaLM TF-3: 6.3.2.15	
└─ h17:legalAuthenticator		<b>1 ... 1</b>	<b>M</b>		PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
└─ h17:time	<b>TS</b>	<b>1 ... 1</b>	<b>R</b>	The sub-element time carries the date&time this legal authentication took place.	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
└─ h17:signatureCode	<b>CS</b>	<b>1 ... 1</b>	<b>R</b>	The sub-element signatureCode carries the “signed” (S) status	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content

						module
└ @code	CONF	0 ... 1	F	S		
└ h17:assignedEntity		1 ... 1	R	All persons (including the patient) and organizations mentioned in the document SHALL provide elements name, addr and telecom.		PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
└ h17:addr	AD	1 ... *	R	Constrained by this specification to require the presence of name, addr and telecom.		PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
└ h17:telecom	TEL	1 ... *	R	Constrained by this specification to require the presence of name, addr and telecom.		PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
└ h17:assignedPerson		0 ... 1		All persons (including the patient) and organizations mentioned in the document SHALL provide elements name, addr and telecom.  Contains 1.3.6.1.4.1.19376.1.3.10.9.18 <i>PlayingEntity or person with Name</i> (DYNAMIC)		PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module

<p>└─ h17:representedOrganization</p>		<p>0 ... 1</p>		<p>All persons (including the patient) and organizations mentioned in the document SHALL provide elements name, addr and telecom.</p> <p>Contains 1.3.6.1.4.1.19376.1.3.10.9.13 <i>Organization with Name, Addr, Telecom</i> (DYNAMIC)</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module</p>
<p>Included</p>		<p>0 ... *</p>	<p>R</p>	<p>from 1.3.6.1.4.1.19376.1.8.1.4.3 <i>Content Validator</i> (2016-07-09 15:03:59)                  The Content validator Content Module describes a pathologist having verified the content of the report, using the element authenticator. This element authenticator is used when the pathologist having verified the content of the report is distinct from the pathologist assuming the legal responsibility for this report, described in the legalAuthenticator element.</p> <p>The report MAY have zero or more Content Validators.</p> <p>Source: PaLM Suppl. APSR 2.0-3: 6.3.6.3</p>	
<p>└─ h17:authenticator</p>		<p>0 ... *</p>	<p>R</p>		<p>PaLM Suppl. APSR 2.1-3: 6.3.2.2 Content validator</p>
<p> <span style="color: #FFD700;">⦿</span> psr-dataelement-4                          <span style="color: #FFD700;">●</span> Pathologist                          <span style="color: #FFD700;">●</span> APSR 2.0                 </p>					
<p>└─ @typeCode</p>	<p>CS</p>	<p>1 ... 1</p>	<p>F</p>	<p>AUTHEN</p>	
<p>└─ h17:templateId</p>		<p>1 ... 1</p>	<p>M</p>		<p>PaLM Suppl. APSR 2.1-3: 6.3.2.2 Content validator</p>

└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.8.1.4.3	
└ h17:time	TS	1 ... 1	R	Time of validation	PaLM Suppl. APSR 2.1-3: 6.3.2.2 Content validator
└ h17:assignedEntity		0 ... 1	C	AssignedPerson SHALL be given with name, representedOrganization MAY be given. Contains 2.16.840.1.113883.10.12.153 CDA AssignedEntity (2005-09-07)	PaLM Suppl. APSR 2.1-3: 6.3.2.2 Content validator
Included		1 ... 1	R	from 1.3.6.1.4.1.19376.1.3.3.1.6 <i>Ordering Provider</i> (2008-08-08) The Ordering Provider Content Module represents the physician who has submitted the specimen examination order to the anatomic pathology laboratory. As specified in PaLM TF-3, this physician is represented in the CDA header as a participant element with the typeCode attribute valued "REF". The sub-element participant/time carries the date/time of issuance of the order.  Source: PaLM TF-3: 6.3.2.17	
└ h17:participant		1 ... 1	R	Referral Ordering Physician	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
					 psr-dataelement-48  Ordering Physician  APSR 2.0 psr-dataelement-78  Clinician  APSR 2.0
└ @typeCode	CS	1 ... 1	F	REF	

└─ h17:templateId	II	1 ... 1			PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
└─ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.3.3.1.6	
└─ h17:time	IVL_TS	1 ... 1	R	This element represents the date and time the order was placed. Time MAY be present.	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
└─ h17:associatedEntity		1 ... 1			PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
└─ h17:addr	AD	1 ... *	R	The address of this person (referral ordering physician) SHALL be present.	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
└─ h17:telecom	TEL	1 ... *	R	The telecom of this person (referral ordering physician) SHALL be present.	PaLM Suppl. APSR 2.1-3:




					6.3.1.1 APSR document content module
	Schematron assert	role	 error		
		test	not(hl7:assignedPerson) or hl7:assignedPerson/hl7:name		
		Message	The <name> sub-element SHALL be present when <assignedPerson> present.		
└─ hl7:associatedPerson		0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
└─ hl7:scopingOrganization		0 ... 1			PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
Included		0 ... *	R	from 1.3.6.1.4.1.19376.1.8.1.4.1 <i>Specimen Collector in Header</i> (2016-06-13 14:21:13) Specimen Collector other than ordering physician. Source: PAT TF-3: 6.2.6.1	
└─ hl7:participant		0 ... *	R	The Specimen Collector Content Module is only used in case a specimen provided as input to the AP act documented in this report, was collected by a different party than the ordering physician. In that	PaLM Suppl. APSR



				case, this specimen collector is represented in the CDA header as a <i>participant</i> element with the <i>typeCode</i> attribute valued "DIST" and the sub-element <i>participant/time</i> carries the time period of the specimen collection.	2.1-3:6.3.2.1 Specimen collector
<div style="border: 1px solid green; padding: 5px;"> <span style="color: orange;">⦿</span> psr-dataelement-78      <span style="color: orange;">●</span> Clinician      <span style="color: orange;">●</span> APSR 2.0                  psr-dataelement-52      <span style="color: orange;">●</span> Specimen Collector      <span style="color: orange;">●</span> APSR 2.0             </div>					
└ @typeCode	CS	1 ... 1	F	DIST	
└ h17:templateID	II	1 ... 1	M		PaLM Suppl. APSR 2.1-3:6.3.2.1 Specimen collector
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.8.1.4.1	
└ h17:time	IVL_TS	1 ... 1	M	Specimen collection time The specimen collection time is an interval, which may be reduced to a point in time (see usage of data type IVL_TS).	PaLM Suppl. APSR 2.1-3:6.3.2.1 Specimen collector
└ h17:associatedEntity		0 ... 1	R	At least one of the two elements associatedPerson and scopingOrganization must be present. Both may be present.	PaLM Suppl. APSR 2.1-3:6.3.2.1 Specimen collector
└ @classCode	CS	1 ... 1	F	PROV	
└ h17:id	II	1 ... *	R		PaLM Suppl. APSR 2.1-3:6.3.2.1


					Specimen collector
└ h17:addr	AD	1 ... *	R		PaLM Suppl. APSR 2.1-3:6.3.2.1 Specimen collector
└ h17:telecom	TEL	1 ... *	R		PaLM Suppl. APSR 2.1-3:6.3.2.1 Specimen collector
└ h17:associatedPerson		0 ... *	C	Person who collected the specimen. Only full name(s) SHALL be given. Contains 2.16.840.1.113883.10.12.152 CDA Person (2005-09-07)	PaLM Suppl. APSR 2.1-3:6.3.2.1 Specimen collector
└ h17:scopingOrganization		0 ... 1	C	Organization taking care for specimen collection. Identifiers, name, telecom, and address SHOULD be given. Contains 2.16.840.1.113883.10.12.151 CDA Organization (2005-09-07)	PaLM Suppl. APSR 2.1-3:6.3.2.1 Specimen collector
Included		0 ... 1	R	from 1.3.6.1.4.1.19376.1.3.10.2.5 Participant Pertinent Insurance Information (2017-11-13 16:52:30) Key insurance information of the patient.	
└ h17:participant		0 ... 1	R	Insurance information of the patient in context for reporting to cancer registries (in Germany)	PaLM Suppl. 2.1-3:6.3.2.3
└ @typeCode	CS	1 ... 1	F	HLD	

└ h17:templateId	II	1 ... *	M		PaLM Suppl. 2.1-3:6.3.2.3
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.3.10.2.5	
└ h17:time	IVL_TS	0 ... 1	R	time shows the end of the current insurance period, e.g. end of the quartal	PaLM Suppl. 2.1-3:6.3.2.3
	Example	<pre>&lt;time&gt;   &lt;high value="20171231"/&gt; &lt;/time&gt;</pre>			
└ h17:associatedEntity		1 ... 1	M	Data of the insured person	PaLM Suppl. 2.1-3:6.3.2.3
└ @classCode	CS	1 ... 1	F	POLHOLD	
└ h17:id	II	0 ... *	R	ID(s) of the insured person (patient), e.g. ID of the insured, ID of the health card, etc.	PaLM Suppl. 2.1-3:6.3.2.3
└ h17:code	CE	0 ... 1	R	status of the insured person	PaLM Suppl. 2.1-3:6.3.2.3
└ @codeSystem	CONF	0 ... 1	F	2.16.840.1.113883.5.111 (Role Code)	
	Example	<pre>&lt;code code="SELF" codeSystem="2.16.840.1.113883.5.111" displayName="self"&gt;   &lt;translation code="1" codeSystem="2.16.840.1.113883.3.7.1.1" displayName="member"/&gt; &lt;/code&gt;</pre>			
└ h17:translation	CV	0 ... 1	R	further codes of the status of the insured person, e.g. for Germany from value set S_KBV_VERSICHERTENSTATUS 1.2.276.0.76.11.162	PaLM Suppl. 2.1-3:6.3.2.3
└ h17:addr	AD	0 ... 1	R		PaLM Suppl.

					2.1-3:6.3.2.3
└ h17:telecom	TEL	0 ... *	R		PaLM Suppl. 2.1-3:6.3.2.3
└ h17:associatedPerson		0 ... 1	R	Data of the insured person, which may be different from the patient. Contains 2.16.840.1.113883.10.12.152 <i>CDA Person</i> (2005-09-07)	PaLM Suppl. 2.1-3:6.3.2.3
└ h17:scopingOrganization		1 ... 1	R	Data of the Insurance company, including the ID, the address data and the name. In Germany the ID is formed by the ID itself (@extension = so-called IKNR) and the OID for IKNR (@root="1.2.276.0.76.4.5") in Germany. Contains 2.16.840.1.113883.10.12.151 <i>CDA Organization</i> (2005-09-07)	PaLM Suppl. 2.1-3:6.3.2.3
└ h17:inFulfillmentOf		0 ... 1	R	The inFulfillmentOf/order element MAY be present. It represents the Placer Order or the Placer Group that was fulfilled, the Id of which is carried by inFulfillmentOf/order/id.	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
<div style="border: 1px solid green; padding: 2px; display: flex; justify-content: space-between;"> <span> psr-dataelement-49</span> <span> Order ID</span> <span> APSR 2.0</span> </div>					
└ @typeCode	CS	1 ... 1	F	FLFS	
└ h17:order		1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
└ @classCode	CS	1 ... 1	F	ACT	

 @moodCode	CS	1 ... 1	F	RQO	
 h17:id	II	1 ... *	R	Placer order group ID or Placer order ID.	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
<div style="background-color: #e0ffe0; padding: 5px;">  psr-dataelement-82       Placer group ID       APSR 2.0   psr-dataelement-81       Order placer ID       APSR 2.0                 </div>					
 h17:documentationOf		1 ... 1	M	Documented act.	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
 @typeCode	CS	1 ... 1	F	DOC	
 h17:serviceEvent		1 ... 1	M	<p>The AP report is documenting a service (documentationOf/ serviceEvent) performed by a surgical pathology laboratory. The Laboratory Performer Content Module represents this laboratory, and is fully described in the sub-element documentationOf/serviceEvent/ performer.</p> <p>In case more than one laboratory contributed to a service, only the primary laboratory is in the CDA header, attached to the serviceEvent element, and the other (secondary) laboratories are described only in the sections of the report that they contributed to, in the body of the report.</p>	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module

Source: PaLM TF3: 6.3.2.19							
└ @classCode	CS	1 ... 1	R				
└ @moodCode	CS	1 ... 1	R				
└ h17:id	II	1 ... *	M	ID of the Act, i.e. Accession number			
<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;"> <ul style="list-style-type: none"> <li>⦿ psr-dataelement-50</li> <li>psr-dataelement-82</li> <li>psr-dataelement-49</li> </ul> </td> <td style="width: 30%;"> <ul style="list-style-type: none"> <li>● Accession Number</li> <li>● Placer group ID</li> <li>● Order ID</li> </ul> </td> <td style="width: 30%;"> <ul style="list-style-type: none"> <li>● APSR 2.0</li> <li>● APSR 2.0</li> <li>● APSR 2.0</li> </ul> </td> </tr> </table>					<ul style="list-style-type: none"> <li>⦿ psr-dataelement-50</li> <li>psr-dataelement-82</li> <li>psr-dataelement-49</li> </ul>	<ul style="list-style-type: none"> <li>● Accession Number</li> <li>● Placer group ID</li> <li>● Order ID</li> </ul>	<ul style="list-style-type: none"> <li>● APSR 2.0</li> <li>● APSR 2.0</li> <li>● APSR 2.0</li> </ul>
<ul style="list-style-type: none"> <li>⦿ psr-dataelement-50</li> <li>psr-dataelement-82</li> <li>psr-dataelement-49</li> </ul>	<ul style="list-style-type: none"> <li>● Accession Number</li> <li>● Placer group ID</li> <li>● Order ID</li> </ul>	<ul style="list-style-type: none"> <li>● APSR 2.0</li> <li>● APSR 2.0</li> <li>● APSR 2.0</li> </ul>					
└ h17:code	CE (extensible)	0 ... 1	R				
	CONF	@code shall be "PATREPE" @codeSystem shall be "2.16.840.1.113883.5.4" @codeSystemName shall be "HL7 ActCode" @displayName shall be "pathology report entry task" or @code shall be "371528001"					
				PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module			
				PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module			

				<p>@codeSystem shall be "2.16.840.1.113883.6.96"</p> <p>@codeSystemName shall be "SCT"</p> <p>@displayName shall be "Pathology report (record artifact)"</p>	
<p>└─ hl7:effectiveTime</p>	<p><b>IVL_TS</b></p>	<p><b>0 ... 1</b></p>	<p><b>R</b></p>	<p>Use of sub element documentationOf/serviceEvent/effectiveTime to document the time boundaries of events in the document is appropriate.</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module</p>
<p>└─ lab:statusCode</p>	<p><b>CS (required)</b></p>	<p><b>0 ... 1</b></p>	<p><b>R</b></p>	<p>The statusCode below documentationOf/serviceEvent is an extension to the CDA R2 standard, added by PaLM TF-3 to distinguish a preliminary report (statusCode@code="active") from a final report (statusCode@code="completed").</p> <p>The statusCode sub element is further described in section A.3 of PaLM TF-3. This sub-element is required. When it is not there, the documented Act is assumed to be completed and the report is assumed to be a final report.</p> <p>This extension to the standard is protected by a dedicated namespace associated in the ClinicalDocument element to the prefix lab:</p> <p>&lt;Clinical Document xmlns:lab="urn:oid:1.3.6.1.4.1.19376.1.3.2" ... &gt;</p> <p>Source: PaLM TF3: 6.3.2.19</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module</p>
	<p>Constraint</p>	<p>The statusCode@code="completed" is only applicable, if ALL content modules of the Clinical Document have the statusCode@code="completed", too, or have the statusCode@code="aborted".</p>			
	<p>CONF</p>	<p>The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.4 ActStatusActiveCompleted (2008-08-08)</p>			
	<p>Schematron assert</p>	<p>role</p>	<p> error</p>		
<p>test</p>		<p>hl7:serviceEvent/lab:statusCode[@code='completed']</p>			
<p>Message</p>		<p>Status code of all Content Modules SHALL be "complete" or "aborted"</p>			

<p>└─ h17:performer</p>		<p>0 ... *</p>	<p>R</p>	<p>Contains 1.3.6.1.4.1.19376.1.3.3.1.7 <i>Laboratory Performer</i> (2008-08-08)</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module</p>
<p>where [h17:assignedEntity]</p>					
<p>└─ h17:relatedDocument</p>		<p>0 ... 1</p>	<p>R</p>	<p>ClinicalDocument/relatedDocument/parentDocument</p> <p>This element SHALL be present in case of an update replacement of a previous report. In this case relatedDocument@typeCode attribute SHALL be valued "RPLC", the new report replacing the parent one.</p> <p><b>Note 1:</b> A non-final AP structured report published in an XDS infrastructure will likely be replaced afterwards by the final report. When this event occurs, the Content Creator Actor SHALL apply the following rules:</p> <ul style="list-style-type: none"> <li>▪ ClinicalDocument/setId SHALL have the same value in the new report as in the replaced report.</li> <li>▪ ClinicalDocument/versionNumber SHALL be incremented in the replacing report (i.e., the final one).</li> <li>▪ ClinicalDocument/relatedDocument@typeCode attribute SHALL be valued "RPLC"</li> <li>▪ ClinicalDocument/relatedDocument/parentDocument/id in the new report SHALL be equal to ClinicalDocument/ id of the replaced document.</li> </ul>	<p>PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module</p>



				<p>The Document Source Actor SHALL apply the following rules on XSDDocumentEntry metadata:</p> <ul style="list-style-type: none"> <li>The final report SHALL be associated with the previously published one, using RPLC relationship and the previous report SHALL be “Deprecated” as described in ITI TF-2:4.1.6.1.</li> </ul> <p><b>Note 2:</b> A non-final report can also be replaced by a more recent, albeit still non-final report. The rules above also apply in this case.</p> <p><b>Note 3:</b> A final report can also be replaced by a corrective final report. The rules above also apply in this case.</p>	
<p>└ @typeCode</p>	CS	1 ... 1	F	RPLC	
<p>relatedDocument@typeCode attribute SHALL be valued "RPLC"</p>					
<p>└ h17:parentDocument</p>	ANY	1 ... 1	M		<p>PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module</p>
<p>└ h17:id</p>	II	1 ... 1	M	SHALL be equal to ClinicalDocument/ id of the replaced document.	<p>PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module</p>

<p>└ h17:setId</p>	<p>II</p>	<p>1 ... 1</p>	<p>M</p>	<p>SHALL have the same value in the new report as in the replaced report.</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module</p>
<p>└ h17:versionNumber</p>	<p>INT</p>	<p>0 ... 1</p>	<p>R</p>	<p>SHALL have the same value as in the replaced report (when provided there).</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module</p>
<p>Included</p>		<p>0 ... 1</p>	<p>R</p>	<p>from 2.16.840.1.113883.10.12.113 CDA componentOf (2005-09-07) The ClinicalDocument/componentOf/encompassingEncounter element MAY be present.</p> <p>It describes the encounter during which the reported AP observations were ordered. When present the encounter SHALL:</p> <ul style="list-style-type: none"> <li>▪ be identified with an id element: encompassingEncounter/id</li> <li>▪ The encounter SHALL have an effective time that represents the time interval (possibly still running, e.g., an inpatient current stay) of the encounter or a point in time at which the encounter took place (e.g., an outpatient consultation): encompassingEncounter/effectiveTime</li> </ul> <p>The encounter MAY provide any number of encounter participants (encompassingEncounter/encounterParticipant/assignedEntity). When present, encounter participants SHALL be in accordance with the HL7 CDA R2 standard with a time and further constrained by this specification to require the presence of name, addr and telecom. Additionally, the encounter participant SHALL have a typeCode with one</p>	

the values selected from the x\_EncounterParticipant domain: The encounter MAY precise the patient location during this encounter. This is the healthcare facility in which the patient was located when the reported AP observations were ordered: encompassingEncounter/location/healthCareFacility. This healthcare facility can be represented as a physical place (e.g., room, floor, building, office) or as an organization (e.g., service, department, team) or both: healthCareFacility/location, healthCareFacility/serviceProviderOrganization.

L h17:componentOf		0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
L @typeCode		0 ... 1	F	COMP	
L h17:encompassingEncounter		1 ... 1			PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
L @classCode		0 ... 1	F	ENC	
L @moodCode		0 ... 1	F	EVN	
L h17:id		0 ... *			PaLM Suppl. APSR 2.1-3:

					6.3.1.1 APSR document content module
└ h17:code	CE	0 ... 1			PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
	CONF	The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.13955 <i>ActEncounterCode</i> (DYNAMIC)			
└ h17:effectiveTime	IVL_TS	1 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
└ h17:dischargeDispositionCode	CE	0 ... 1			PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
	CONF	shall be drawn from concept domain "EncounterDischargeDisposition"			
└ h17:responsibleParty		0 ... 1		Contains 2.16.840.1.113883.10.12.153 <i>CDA AssignedEntity</i> (DYNAMIC)	PaLM Suppl. APSR 2.1-3:

					6.3.1.1 APSR document content module
└ @typeCode		0 ... 1	F	RESP	
└ h17:encounterParticipant		0 ... *			PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
└ @typeCode	cs	1 ... 1	R		
	CONF	The value of @typeCode shall be drawn from value set 2.16.840.1.113883.1.11.19600 x_EncounterParticipant (DYNAMIC)			
└ h17:time	IVL_TS	0 ... 1			PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
└ h17:assignedEntity		1 ... 1		Contains 2.16.840.1.113883.10.12.153 CDA AssignedEntity (DYNAMIC)	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module

L h17:location		0 ... 1			PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
L @typeCode		0 ... 1	F	LOC	
L h17:healthCareFacility		1 ... 1			PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
L @classCode		0 ... 1	F	SDLOC	
L h17:id	II	0 ... *			PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
L h17:code	CE	0 ... 1			PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module



	CONF	The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.17660 <i>ServiceDeliveryLocationRoleType</i> (DYNAMIC)			
└ h17:location		0 ... 1		Contains 2.16.840.1.113883.10.12.317 <i>CDA Place</i> (DYNAMIC)	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
└ h17:serviceProvider Organization		0 ... 1		Contains 2.16.840.1.113883.10.12.151 <i>CDA Organization</i> (DYNAMIC)	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
└ h17:component		1 ... 1	R	Body of the CDA Clinical document	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
└ @typeCode	CS	1 ... 1	F	COMP	
└ @contextConductionInd	bl	1 ... 1	F	true	
└ h17:structuredBody		1 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document

					content module
└ @classCode	CS	1 ... 1	F	DOCBODY	
└ @moodCode	CS	1 ... 1	F	EVN	
└ h17:component		0 ... 1	R	The Clinical Information section contains the information provided by the ordering physician: Clinical history, preoperative diagnosis, postoperative diagnosis, clinical laboratory data, specimen(s) description, collection procedure, reason for anatomic pathology procedure. Contains 1.3.6.1.4.1.19376.1.8.1.2.1 <i>Clinical Information Section</i> (2014-05-13 14:38:08)	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
where [h17:section [h17:code [(@code = '22636-5' and @codeSystem = '2.16.840.1.113883.6.1')]]]					
└ @typeCode	CS	1 ... 1	F	COMP	
└ @contextConductionInd	bl	1 ... 1	F	true	
└ h17:component		0 ... 1	R	The Intraoperative Observation section contains an intraoperative diagnosis for each specimen examined, the specimen identification and description, intraoperative observation procedure description (frozen section, gross examination, intraoperative cytology) and derived specimen dissected for other ancillary procedures (flow cytometry, cytogenetics, molecular studies, and electron microscopy). Contains 1.3.6.1.4.1.19376.1.8.1.2.2 <i>Intraoperative Observation Section</i> (2014-05-13 19:29:16)	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
where [h17:section [h17:code [(@code = '83321-0' and @codeSystem = '2.16.840.1.113883.6.1')]]]					
└ @typeCode	CS	1 ... 1	F	COMP	



L @contextConductionInd	bl	1 ... 1	F	true	
L h17:component		0 ... 1	R	The Macroscopic Observation section contains the description of the specimen received or obtained by the laboratory (specimen type and state), the gross observation, links to gross images, if taken, processing information and tissue disposition (representative sampling and tissue submitted for additional studies or sent to biorepository). Contains 1.3.6.1.4.1.19376.1.8.1.2.3 <i>Macroscopic Observation Section</i> (2014-05-13 11:57:09)	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
where [h17:section [h17:code [(@code = '22634-0' and @codeSystem = '2.16.840.1.113883.6.1')]]]					
L @typeCode	cs	1 ... 1	F	COMP	
L @contextConductionInd	bl	1 ... 1	F	true	
L h17:component		0 ... 1	R	The Microscopic Observation section contains optionally the histopathologic findings of the case and many laboratories use this section to record the results of histochemical and immunohistochemical stains Contains 1.3.6.1.4.1.19376.1.8.1.2.4 <i>Microscopic Observation Section</i> (2014-05-13 14:25:17)	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
where [h17:section [h17:code [(@code = '22635-7' and @codeSystem = '2.16.840.1.113883.6.1')]]]					
L @typeCode	cs	1 ... 1	F	COMP	
L @contextConductionInd	bl	1 ... 1	F	true	
L h17:component		0 ... 1	R	The Additional Specific Observation section includes additional pathologic finding(s) and the results of ancillary study(ies) with non-morphological methods (e.g. flow cytometry, cytogenetics, molecular pathology, etc.) and may include diagrams and still images or virtual slides, if taken.	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR

				Contains 1.3.6.1.4.1.19376.1.3.10.3.1 <i>Additional Specified Observation Section</i> (2016-11-13 14:28:08)	document content module
where [hl7:section [hl7:code [(@code = 'xxxx-x' and @codeSystem = '2.16.840.1.113883.6.1')]]]					
└ @typeCode	cs	1 ... 1	F	COMP	
└ @contextConductionInd	bl	1 ... 1	F	true	
└ hl7:component		1 ... 1	M	The Diagnostic Conclusion section contains diagnoses on all specimens that are delivered to the pathology department from one operation or patient visit to a single clinician on a particular day. The diagnoses for each specimen or group of specimens are reported separately. This section includes additional pathologic finding(s) and the results of ancillary study(ies) and may include diagrams and still images or virtual slides, if taken. In case of cancer, this section includes the cancer checklist. Contains 1.3.6.1.4.1.19376.1.8.1.2.5 <i>Diagnostic Conclusion Section</i> (2014-05-13 19:31:26)	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
where [hl7:section [hl7:code [(@code = '22637-3' and @codeSystem = '2.16.840.1.113883.6.1')]]]					
└ @typeCode	cs	1 ... 1	F	COMP	
└ @contextConductionInd	bl	1 ... 1	F	true	
└ hl7:component		0 ... 1	R	The Procedure steps section contains the description of tissue dissection: representative specimens and derived specimens dissected for other ancillary procedures (flow cytometry, cytogenetics, molecular studies, electron microscopy, etc.) or biorepository. Contains 1.3.6.1.4.1.19376.1.8.1.2.6 <i>Procedure Steps Section</i> (2014-05-13 19:33:12)	PaLM Suppl. APSR 2.1-3: 6.3.1.1 APSR document content module
where [hl7:section [hl7:code [(@code = '46059-2' and @codeSystem = '2.16.840.1.113883.6.1')]]]					

 @typeCode	CS	1 ... 1	F	COMP
 @contextConductionInd	bl	1 ... 1	F	true

### 6.3.1.2.1 General constraints that apply to APSR

- When a section has a text element and one or more entry element, the content coded for machine-processing in the entries SHALL be completely transcribed into human-readable content in the text element.
- Conversely the text element MAY contain pieces of information, which are not available in machine-readable format in any entry element of the section.
- Information that is sent SHALL clearly identify distinctions between:

#### None

It is known with complete confidence that there are none. This indicates that the sender knows that there is no relevant information of this kind that can be sent.

#### None Known

None known at this time, but it is not known with complete confidence that none exist.

#### Asked but unknown

The information was requested but could not be obtained. Used mainly in the context where an observation was made but the result could not be determined.

#### Unknown

The information is not known, or is otherwise unavailable.

#### Other, not specified

The actual value does not belong to the assigned value set and is not reported at all by the author.

**Other, specify**

The actual value does not belong to the assigned value set and the author of the report provides this *foreign* value anyway.

**Not applicable**

No proper value is applicable in this context.

Sections that are required to be present but have no information should use one of the above phrases where appropriate in the *text* element.

Structural elements that are required but have no information shall provide a “nullFlavor” attribute coding the reason why the information is missing.

Situation	nullFlavor	HL7 Definition
Asked but unknown	ASKU	Information was sought but not found
Unknown	UNK	A proper value is applicable, but not known
Other, not specified	OTH	The actual value is not an element in the value domain of a variable. (e.g., concept not provided by required code system).
Not applicable	NA	No proper value is applicable in this context
Temporarily not available	NAV	Information is not available at this time but it is expected that it will be available later.

The two situations “None” and “None known” represent effective values, which are part of the related value sets.

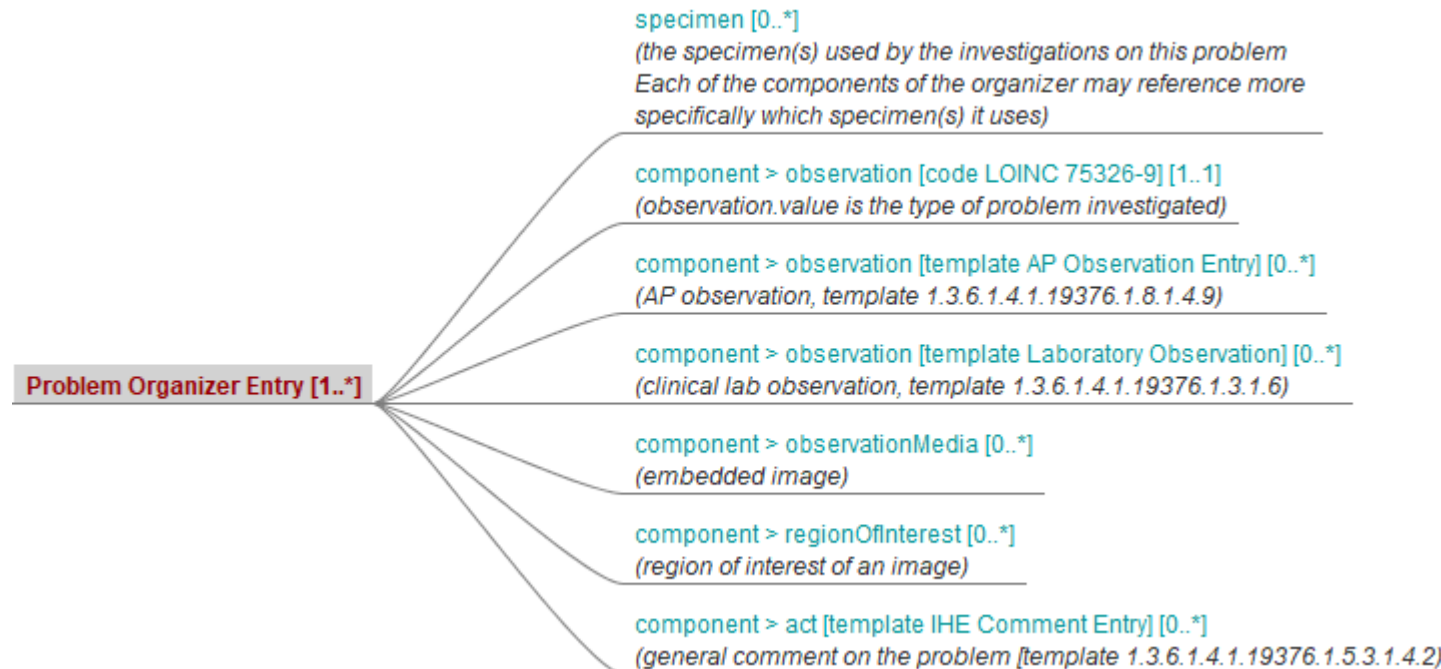
The situation “Other, specify” can be handled in two ways in a coded data element:

- Leaving empty the *code* attribute and providing the non-coded answer in the *originalText* attribute.
- Providing a value coded from a different coding scheme, when the coding strength of the element is “CWE” (coded with extensions). The attributes *code*, *displayName*, *codeSystem* and *codeSystemName* then describe the foreign code.

For ancillary techniques, the situation “ not performed” or “none performed” is represented by nullFlavor = NAV.

### 6.3.1.2.2 Common structure for CDA APSR

Figure 6.3.1.2.2-1 describes the high-level view of the structure of the Problem Organizer Entry, which is common to the first six CDA APSR 2.0 sections.



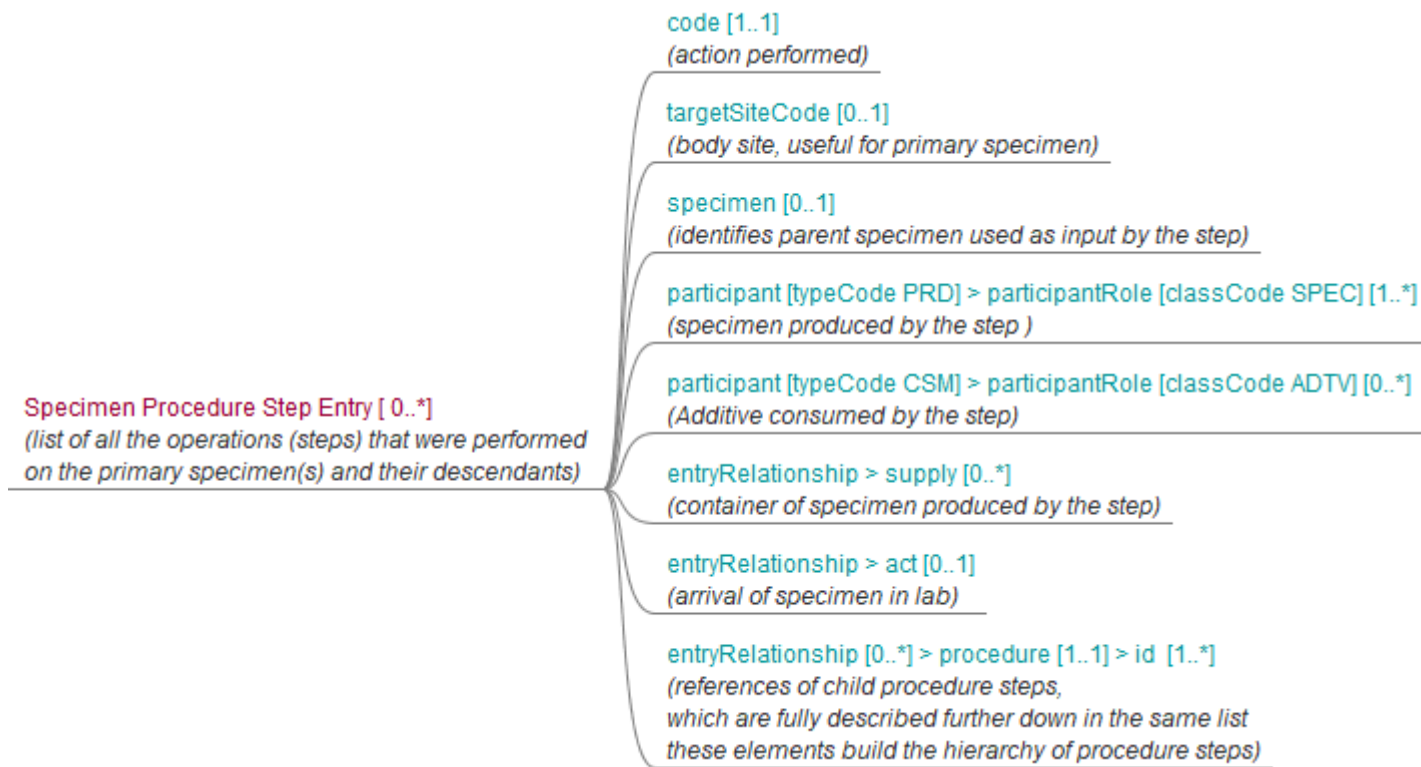
**Figure 6.3.1.2.2-1 Structure of machine-readable content for the first 6 sections of APSR 2.0 CDA R2 Document Template**

Note 1: In order to facilitate a further de-identification process of CDA AP reports for some secondary use (biosurveillance, epidemiology...) the producer of an APSR SHOULD avoid populating any patient identification data (name, sex, birthdate, address ...) into the body of the report (neither <entry> elements nor <text> elements). The appropriate location for patient identification data is the CDA header exclusively.

Note 2: The AP sections are those shown on figure 10.4.1-1 of Volume 1.

Note 3: Possible sub sections are shown on figure 10.4.1-1 of Volume 1.

Figure 6.3.1.2.2-2 shows the common structure of the Procedure Step Content Module specified here, too.



**Figure 6.3.1.2.2-2 Structure of machine-readable content for the Procedure Step section of APSR 2.0 CDA R2 Document Template**

## 6.3.2 CDA Header Content Modules


### 6.3.2.1 <Specimen Collector in Header> - Header Content Module – 1.3.6.1.4.1.19376.1.8.1.4.1

#### 6.3.2.1.1 Definition and purpose

This Content Module is usable only in the CDA header.

This Content Module is used only in the situation where the specimen was not collected by the ordering physician. (See use cases in volume 1)

### 6.3.2.1.2 Specification and Example

<b>Id</b>	1.3.6.1.4.1.19376.1.8.1.4.1	<b>Effective Date</b>	2016-06-13 14:21:13
<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	CDAParticipantSpecimenCollector	<b>Display Name</b>	Specimen Collector in Header

#### Description





Template CDA participant (prototype, directly derived from POCD\_RM000040 MIF)

This Content Module is usable only in the CDA header.

This Content Module is used only in the situation where the specimen was not collected by the ordering physician.

<b>Label</b>	PaLM Suppl. APSR 2.1-3:6.3.2.1 Specimen collector
<b>Classification</b>	CDA Header Level Template
<b>Open/Closed</b>	Open (other than defined elements are allowed)

#### Associated with 2 concepts

Associated with	Id	Name	Data Set
	psr-dataelement-78	 Clinician	 APSR 2.0
	psr-dataelement-52	 Specimen Collector	 APSR 2.0

<b>Uses</b>	Uses 2 templates
-------------	------------------

Uses	as	Name	Version
2.16.840.1.113883.10.12.152	Containment	CDA Person	2005-09-07
2.16.840.1.113883.10.12.151	Containment	CDA Organization	2005-09-07

**Relationship** Specialization: template 2.16.840.1.113883.10.12.108 (2005-09-07)

**Example**

generated example




```

<participant typeCode="DIST" contextControlCode="OP">
  <templateID root="1.3.6.1.4.1.19376.1.8.1.4.1"/>
  <time>
    <low value="20170127121035"/>
  </time>
  <associatedEntity classCode="PROV">
    <id root="1.2.3.999" extension="--example only--"/>
    <code code="--code--" codeSystem="2.16.840.1.113883.5.111"/>
    <addr>addr</addr>
    <telecom/>
    <associatedPerson>
      <!-- template 2.16.840.1.113883.10.12.152 'CDA Person' (dynamic) -->
    </associatedPerson>
    <scopingOrganization>
      <!-- template 2.16.840.1.113883.10.12.151 'CDA Organization' (dynamic) -->
    </scopingOrganization>
  </associatedEntity>
</participant>
    
```

Item	DT	Card	Conf	Description	Label
hl7:participant		0 ... *	R	The Specimen Collector Content Module is only used in case a specimen provided as input to the AP act documented in this report, was collected by a different party than the ordering physician. In that case, this specimen collector is represented in the CDA header as a <i>participant</i> element with the <i>typeCode</i> attribute valued "DIST" and the sub-element <i>participant/time</i> carries the time period of the specimen collection.	PaLM Suppl. APSR 2.1-3:6.3.2.1 Specimen collector
psr-dataelement-78  Clinician  APSR 2.0 psr-dataelement-52  Specimen Collector  APSR 2.0					
@typeCode	cs	1 ... 1	F	DIST	



└ h17:templateID	II	1 ... 1	M		PaLM Suppl. APSR 2.1-3:6.3.2.1 Specimen collector
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.8.1.4.1	
└ h17:time	IVL_TS	1 ... 1	M	Specimen collection time The specimen collection time is an interval, which may be reduced to a point in time (see usage of data type IVL_TS).	PaLM Suppl. APSR 2.1-3:6.3.2.1 Specimen collector
└ h17:associatedEntity		0 ... 1	R	At least one of the two elements associatedPerson and scopingOrganization must be present. Both may be present.	PaLM Suppl. APSR 2.1-3:6.3.2.1 Specimen collector
└ @classCode	cs	1 ... 1	F	PROV	
└ h17:id	II	1 ... *	R		PaLM Suppl. APSR 2.1-3:6.3.2.1 Specimen collector
└ h17:addr	AD	1 ... *	R		PaLM Suppl. APSR 2.1-3:6.3.2.1 Specimen collector

 h17:telecom	TEL	1 ... *	R		PaLM Suppl. APSR 2.1-3:6.3.2.1 Specimen collector
 h17:associatedPerson		0 ... *	C	Person who collected the specimen. Only full name(s) SHALL be given. Contains 2.16.840.1.113883.10.12.152 CDA Person (2005-09-07)	PaLM Suppl. APSR 2.1-3:6.3.2.1 Specimen collector
 h17:scopingOrganization		0 ... 1	C	Organization taking care for specimen collection. Identifiers, name, telecom, and address SHOULD be given. Contains 2.16.840.1.113883.10.12.151 CDA Organization (2005-09-07)	PaLM Suppl. APSR 2.1-3:6.3.2.1 Specimen collector

### 6.3.2.2 <Content Validator> - Header Content Module – 1.3.6.1.4.1.19376.1.8.1.4.3

#### 6.3.2.2.1 Definition and purpose

This Content Module is usable only in the CDA header.

It describes a pathologist having verified the content of the report, using the element authenticator. This element authenticator is used when the pathologist having verified the content of the report is distinct from the pathologist assuming the legal responsibility for this report, described in the legalAuthenticator element.

The report MAY have zero or more Content Validators.

#### 6.3.2.2.2 Specification and Example

Id	1.3.6.1.4.1.19376.1.8.1.4.3	Effective Date	2016-07-09 15:03:59
----	-----------------------------	----------------	---------------------

<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	CDAauthenticatorIHE	<b>Display Name</b>	Content Validator










**Description**

Template CDA authenticator (prototype, directly derived from POCD\_RM000040 MIF)

This Content Module is usable only in the CDA header.

It describes a pathologist having verified the content of the report, using the element authenticator. This element authenticator is used when the pathologist having verified the content of the report is distinct from the pathologist assuming the legal responsibility for this report, described in the legalAuthenticator element.




The report MAY have zero or more Content Validators.



<b>Label</b>	PaLM Suppl. APSR 2.1-3: 6.3.2.2 Content validator								
<b>Classification</b>	CDA Header Level Template								
<b>Open/Closed</b>	Open (other than defined elements are allowed)								
<b>Associated with</b>	<p>Associated with 1 concept</p> <table border="1"> <thead> <tr> <th>Id</th> <th>Name</th> <th>Data Set</th> </tr> </thead> <tbody> <tr> <td>psr-dataelement-4</td> <td> Pathologist</td> <td> APSR 2.0</td> </tr> </tbody> </table>	Id	Name	Data Set	psr-dataelement-4	 Pathologist	 APSR 2.0		
Id	Name	Data Set							
psr-dataelement-4	 Pathologist	 APSR 2.0							
<b>Uses</b>	<p>Uses 1 template</p> <table border="1"> <thead> <tr> <th>Uses</th> <th>as</th> <th>Name</th> <th>Version</th> </tr> </thead> <tbody> <tr> <td>2.16.840.1.113883.10.12.153</td> <td>Containment</td> <td> CDA AssignedEntity</td> <td>2005-09-07</td> </tr> </tbody> </table>	Uses	as	Name	Version	2.16.840.1.113883.10.12.153	Containment	 CDA AssignedEntity	2005-09-07
Uses	as	Name	Version						
2.16.840.1.113883.10.12.153	Containment	 CDA AssignedEntity	2005-09-07						
<b>Relationship</b>	Adaptation: template 2.16.840.1.113883.10.12.107 (2005-09-07)								

Example

example from use case #1

```
<authenticator>
  <templateId root="1.3.6.1.4.1.19376.1.8.1.4.3"/>
  <time value="20100104142503-0500"/>
  <signatureCode code="S"/>
  <assignedEntity>
    <id root="1.3.6.1.4.1.19376.1.8.9.3" extension="801234567898"/>
    <addr nullFlavor="MSK"/>
    <telecom nullFlavor="MSK"/>
    <assignedPerson>
      <name>
        <given>Jonas</given>
        <family>Jones</family>
        <prefix>MD</prefix>
      </name>
    </assignedPerson>
  </assignedEntity>
</authenticator>
```

Item	DT	Card	Conf	Description	Label
h17:authenticator		0 ... *	R		PaLM Suppl. APSR 2.1-3: 6.3.2.2 Content validator
 psr-dataelement-4  Pathologist  APSR 2.0					
└ @typeCode	CS	1 ... 1	F	AUTHEN	
└ h17:templateId		1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.2.2 Content validator
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.8.1.4.3	


 h17:time	TS	1 ... 1	R	Time of validation	PaLM Suppl. APSR 2.1-3: 6.3.2.2 Content validator
 h17:assignedEntity		0 ... 1	C	AssignedPerson SHALL be given with name, representedOrganization MAY be given. Contains 2.16.840.1.113883.10.12.153 CDA AssignedEntity (2005-09-07)	PaLM Suppl. APSR 2.1-3: 6.3.2.2 Content validator

### 6.3.2.3 <Participant Pertinent Insurance Information> - Header Content Module - 1.3.6.1.4.1.19376.1.3.10.2.5







#### 6.3.2.3.1 Definition and purpose

This participant is carrying key information of the insurance status of the patient, as it may be requested for example, by cancer registries. It is used in a header only. It is not intended to provide the whole information about payment details.

#### 6.3.2.3.2 Specification and Example

<b>Id</b>	1.3.6.1.4.1.19376.1.3.10.2.5
<b>Status</b>	 Draft

<b>Effective Date</b>	2017-11-13 16:52:30 Other versions this id: <ul style="list-style-type: none"> <li>▪ <input type="radio"/> CDAparticipantPertinentInsuranceInformation as of 2017-11-13 15:51:57</li> <li>▪ <input type="radio"/> CDAparticipantPertinentInsuranceInformation as of 2017-11-13 15:46:20</li> </ul>
<b>Version Label</b>	

<b>Name</b>	CDAparticipantPertinentInsuranceInformation	<b>Display Name</b>	Participant Pertinent Insurance Information												
<b>Description</b>	<p>Template CDA participant (prototype, directly derived from POCD_RM000040 MIF)</p> <p>Header element template for pertinent insurance information of the patient, not intended to provide the whole information about payment details but only basic insurance IDs and address details</p>														
<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.2.5														
<b>Label</b>	PaLM Suppl. 2.1-3:6.3.2.3														
<b>Classification</b>	CDA Header Level Template														
<b>Open/Closed</b>	Open (other than defined elements are allowed)														
<b>Uses</b>	<p>Uses 2 templates</p> <table border="1"> <thead> <tr> <th>Uses</th> <th>as</th> <th>Name</th> <th>Version</th> </tr> </thead> <tbody> <tr> <td>2.16.840.1.113883.10.12.152</td> <td>Containment</td> <td> CDA Person</td> <td>2005-09-07</td> </tr> <tr> <td>2.16.840.1.113883.10.12.151</td> <td>Containment</td> <td> CDA Organization</td> <td>2005-09-07</td> </tr> </tbody> </table>			Uses	as	Name	Version	2.16.840.1.113883.10.12.152	Containment	 CDA Person	2005-09-07	2.16.840.1.113883.10.12.151	Containment	 CDA Organization	2005-09-07
Uses	as	Name	Version												
2.16.840.1.113883.10.12.152	Containment	 CDA Person	2005-09-07												
2.16.840.1.113883.10.12.151	Containment	 CDA Organization	2005-09-07												
<b>Relationship</b>	<p>Adaptation: template 2.16.840.1.113883.10.12.108 (2005-09-07)</p> <p>Equivalent: template 1.2.276.0.76.3.1.135.8.10.8 (2016-02-19)</p>														
<b>Example</b>	<p>generated example</p> <pre>&lt;participant typeCode="HLD" contextControlCode="OP"&gt;   &lt;templateID root="1.3.6.1.4.1.19376.1.3.10.2.5"/&gt;   &lt;time&gt;     &lt;high value="20171231"/&gt;   &lt;/time&gt;   &lt;associatedEntity&gt;     &lt;id root="1.2.3.999" extension="--example only--"/&gt;     &lt;code code="SELF" codeSystem="2.16.840.1.113883.5.111" displayName="self"&gt;       &lt;translation code="1" codeSystem="2.16.840.1.113883.3.7.1.1" displayName="member"/&gt;     &lt;/code&gt;     &lt;addr/&gt;     &lt;telecom value="tel:+1-12345678"/&gt;   &lt;/associatedPerson&gt; &lt;/participant&gt;</pre>														

```

<!-- template 2.16.840.1.113883.10.12.152 'CDA Person' (2005-09-07T00:00:00) -->
</associatedPerson>
<scopingOrganization>
<!-- template 2.16.840.1.113883.10.12.151 'CDA Organization' (2005-09-07T00:00:00) -->
</scopingOrganization>
</associatedEntity>
</participant>
    
```

Item	DT	Card	Conf	Description	Label	
h17:participant		0 ... *	R	Insurance information of the patient in context for reporting to cancer registries (in Germany)	PaLM Suppl. 2.1-3:6.3.2.3	
└ @typeCode	CS	1 ... 1	F	HLD		
└ h17:templateId	II	1 ... *	M		PaLM Suppl. 2.1-3:6.3.2.3	
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.3.10.2.5		
└ h17:time	IVL_TS	0 ... 1	R	time shows the end of the current insurance period, e.g. end of the quartal	PaLM Suppl. 2.1-3:6.3.2.3	
	Example	<pre> &lt;time&gt; &lt;high value="20171231"/&gt; &lt;/time&gt;                     </pre>				
└ h17:associatedEntity		1 ... 1	M	Data of the insured person	PaLM Suppl. 2.1-3:6.3.2.3	
└ @classCode	CS	1 ... 1	F	POLHOLD		
└ h17:id	II	0 ... *	R	ID(s) of the insured person (patient), e.g. ID of the insured, ID of the health card, etc.	PaLM Suppl. 2.1-3:6.3.2.3	

└ h17:code	CE	0 ... 1	R	status of the insured person	PaLM Suppl. 2.1-3:6.3.2.3
└ @codeSystem	CONF	0 ... 1	F	2.16.840.1.113883.5.111 (Role Code)	
	Example	<pre>&lt;code code="SELF" codeSystem="2.16.840.1.113883.5.111" displayName="self"&gt;   &lt;translation code="1" codeSystem="2.16.840.1.113883.3.7.1.1" displayName="member"/&gt; &lt;/code&gt;</pre>			
└ h17:translation	CV	0 ... 1	R	further codes of the status of the insured person, e.g. for Germany from value set <i>S_KBV_VERSICHERTENSTATUS</i> 1.2.276.0.76.11.162	PaLM Suppl. 2.1-3:6.3.2.3
└ h17:addr	AD	0 ... 1	R		PaLM Suppl. 2.1-3:6.3.2.3
└ h17:telecom	TEL	0 ... *	R		PaLM Suppl. 2.1-3:6.3.2.3
└ h17:associatedPerson		0 ... 1	R	Data of the insured person, which may be different from the patient. Contains 2.16.840.1.113883.10.12.152 <i>CDA Person</i> (2005-09-07)	PaLM Suppl. 2.1-3:6.3.2.3
└ h17:scopingOrganization		1 ... 1	R	Data of the Insurance company, including the ID, the address data and the name. In Germany the ID is formed by the ID itself (@extension = so-called IKNR) and the OID for IKNR (@root="1.2.276.0.76.4.5") in Germany. Contains 2.16.840.1.113883.10.12.151 <i>CDA Organization</i> (2005-09-07)	PaLM Suppl. 2.1-3:6.3.2.3




### 6.3.3 CDA Section Content Modules

#### 6.3.3.1 <Clinical Information> - Section Content Module - 1.3.6.1.4.1.19376.1.8.1.2.1

##### 6.3.3.1.1 Definition and Purpose

The Clinical Information section contains the information provided by the ordering physician: Clinical history, preoperative diagnosis, postoperative diagnosis, reason for anatomic pathology procedure, clinical laboratory data, specimen collection procedure including target site, performer, specimen type, specimen(s) clinical description, and tumor site in case of a cancer. The only entry for this section is the Problem Organizer Entry module.

##### 6.3.3.1.2 Specification and Example





<b>Id</b>	1.3.6.1.4.1.19376.1.8.1.2.1	<b>Effective Date</b>	2014-05-13 14:38:08
<b>Status</b>	 Draft	<b>Version Label</b>	2.0
<b>Name</b>	ClinicalInformationSection	<b>Display Name</b>	Clinical Information Section

##### Description

The Clinical Information section contains the information provided by the ordering physician: Clinical history, preoperative diagnosis, postoperative diagnosis, reason for anatomic pathology procedure, clinical laboratory data, information about specimens collected in this case (including target site, performer, specimen type, specimen(s) clinical description, and tumor site in case of a cancer).




<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.8.1.2.1
<b>Label</b>	PaLM Suppl. 2.1-3: 6.3.3.1 Clinical information section
<b>Classification</b>	CDA Section Level Template
<b>Open/Closed</b>	Open (other than defined elements are allowed)

##### Associated with 4 concepts

Associated with	Id	Name	Data Set
	psr-dataelement-43	 Clinical Problem	 APSR 2.0
	psr-dataelement-40	 Clinical Information	 APSR 2.0






```
<!-- template 1.3.6.1.4.1.19376.1.5.3.1.3.6 'IHE Active Problems Section' (2015-10-05T16:02:07) -->
</component>
</section>
```

Item	DT	Card	Conf	Description	Label
h17:section		0 ... 1	R		PaLM Suppl. 2.1-3: 6.3.3.1 Clinical information section
 psr-dataelement-40  Clinical Information  APSR 2.0					
└ @classCode	CS	0 ... 1	F	DOCSECT	
└ @moodCode	CS	0 ... 1	F	EVN	
Constraint	<p>This section SHALL contain a code element populated with these attributes:</p> <p>@code="22636-5"</p> <p>@codeSystem="2.16.840.1.113883.6.1"</p> <p>@displayName=" Pathology report relevant history"</p> <p>This section SHALL contain a narrative block, represented by a <i>text</i> element, which renders the information to the human reader.</p> <p>The section SHOULD contain as many Problem Organizer <i>entry</i> elements as there are problems (or groups thereof) to be described. These entries provide the machine-readable data corresponding to the narrative block.</p>				

		<p>This section MAY contain a number of elements <i>component/section</i> introducing sub-sections, each of these sub-sections providing a particular type of clinical information.</p> <p>This section SHOULD contain <i>author</i> elements in case the authors of this section differ from those declared at a higher level in the document.</p>			
└ h17:templateId	II	1 ... 1	R		PaLM Suppl. 2.1-3: 6.3.3.1 Clinical information section
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.8.1.2.1	
└ h17:code	CE	1 ... 1	M		PaLM Suppl. 2.1-3: 6.3.3.1 Clinical information section
└ @code	CONF	1 ... 1	F	22636-5	
└ @codeSystem		1 ... 1	F	2.16.840.1.113883.6.1 (LOINC)	
└ @codeSystemName		1 ... 1	F	LOINC	
└ @displayName		1 ... 1	F	Pathology report relevant history	
└ h17:title	ST	1 ... 1	R	The Clinical Information Section<title> SHALL be present. It is the local translation of the code@displayName	PaLM Suppl. 2.1-3: 6.3.3.1

					Clinical information section
	Example	<code>&lt;title&gt;CLINICAL INFORMATION&lt;/title&gt;</code>			
↳ <code>h17:text</code>	SD.TEXT	1 ... 1	M		PaLM Suppl. 2.1-3: 6.3.3.1 Clinical information section
	Example	<code>&lt;text&gt; Tissue submitted: left breast biopsy and apical axillary tissue &lt;/text&gt;</code>			
↳ <code>h17:languageCode</code>	CS	0 ... 1			PaLM Suppl. 2.1-3: 6.3.3.1 Clinical information section
	CONF	The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.11526 <i>HumanLanguage</i> (2014-03-26)			
↳ <code>h17:entry</code>	ANY	0 ... *	R	Problem organizer Contains 1.3.6.1.4.1.19376.1.8.1.3.6 <i>Problem Organizer</i> (2015-08-13 10:24:55)	PaLM Suppl. 2.1-3: 6.3.3.1 Clinical information section
where [ <i>h17:organizer</i> ]					
↳ <code>@typeCode</code>	CS	0 ... 1	F	COMP	
↳ <code>@contextConductionInd</code>	bl	0 ... 1	F	true	

Included		0 ... *	C	from 1.3.6.1.4.1.19376.1.8.1.4.2 Author (2016-06-21 14:02:11) Source: PaLM Suppl. APSR 2.0-3: 6.3.6.2	
└─ h17:author		0 ... *	C		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
	 psr-dataelement-4 psr-dataelement-79			 Pathologist  Device	 APSR 2.0  APSR 2.0
└─ @typeCode	cs	1 ... 1	F	AUT	
	Example	author is a person <pre>                     &lt;author typeCode="AUT" contextControlCode="OP"&gt;                     &lt;time value="201306101654"/&gt;                     &lt;assignedAuthor classCode="ASSIGNED"&gt;                     &lt;!-- ... --&gt;                     &lt;/assignedAuthor&gt;                     &lt;/author&gt;                 </pre>			
└─ h17:templateId		1 ... 1	M		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.8.1.4.2	
└─ h17:time	TS	1 ... 1	M	The authoring time is the date & time that this author contributed to the document. It SHALL be provided.	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:assignedAuthor		0 ... 1	C		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ @classCode	cs	0 ... 1	F	ASSIGNED	

└ h17:id	II	1 ... *	M		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:addr	AD	1 ... *	M		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
 psr-dataelement-18  Address  APSR 2.0					
└ h17:telecom	TEL	1 ... *	M		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
Choice		1 ... 1		The author is either an assigned person or an authoring device. Elements to choose from: <ul style="list-style-type: none"> <li>▪ h17:assignedPerson</li> <li>▪ h17:assignedAuthoringDevice</li> </ul>	
└ h17:assignedPerson		0 ... 1	C		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
 psr-dataelement-5  Name  APSR 2.0					
Included		1 ... 1	R	from 2.16.840.1.113883.10.12.152 CDA Person (2005-09-07) The name(s) SHALL be given.	
└ @classCode		0 ... 1	F	PSN	
└ @determinerCode		0 ... 1	F	INSTANCE	
└ h17:name	PN	1 ... 1	R		PaLM Suppl.APSR 2.0-3:6.3.5.1





					Author
└ h17:assignedAuthoring Device		0 ... 1	C		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ @classCode	CS	0 ... 1	F	DEV	
└ @determinerCode	CS	0 ... 1	F	INSTANCE	
└ h17:manufacturerModel Name	SC	0 ... 1	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:softwareName	SC	0 ... 1	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:code	CE	0 ... 1	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:representedOrganization		0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
	Example	represented organization for author as a device <pre> &lt;representedOrganization classCode="ORG" determinerCode="INSTANCE"&gt;   &lt;name&gt;     &lt;!-- ... --&gt;   &lt;/name&gt; &lt;/representedOrganization&gt;                     </pre>			
Included		0 ... 1		from 2.16.840.1.113883.10.12.151 CDA Organization (2005-09-07) The identifier(s) SHOULD, the name SHALL, the telecom(s) and the address(es) MAY be given.	



└ @classCode		0 ... 1	F	ORG	
└ @determinerCode		0 ... 1	F	INSTANCE	
└ h17:id	II	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:name	ON	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:telecom	TEL	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:addr	AD	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:standardIndustryClass Code	CE	0 ... 1		SHALL be chosen from domain OrganizationIndustryClass	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:asOrganizationPartOf		0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ @classCode		0 ... 1	F	PART	
└ h17:id	II	0 ... *	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author

└ h17:code	CE	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└ @codeSystem	CONF	0 ... 1	F	2.16.840.1.113883.5.111 (Role Code)		
└ h17:statusCode	CS	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
	CONF	The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15999 <i>RoleStatus</i> (DYNAMIC)				
└ h17:effectiveTime	IVL_TS	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└ h17:wholeOrganization		0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└ @classCode		0 ... 1	F	ORG		
└ @determinerCode		0 ... 1	F	INSTANCE		
└ h17:id	II	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└ h17:name	ON	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	

 h17:telecom	TEL	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
 h17:addr	AD	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
 h17:standard IndustryClass Code	CE	0 ... 1		SHALL be chosen from domain OrganizationIndustryClass	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
 h17:component		0 ... 1		Subsection Source: PCC TF-2: 6.3.3.1.1 Contains 1.3.6.1.4.1.19376.1.5.3.1.3.1 <i>IHE Reason for Referral Section</i> (2016-09-26 07:58:18)	PaLM Suppl. 2.1-3: 6.3.3.1 Clinical information section
where [h17:section [h17:code [(@code = '42349-1' and @codeSystem = '2.16.840.1.113883.6.1')]]]					
<div style="display: flex; justify-content: space-between; align-items: center;"> <span> psr-dataelement-41</span> <span> Reason for Referral</span> <span> APSR 2.0</span> </div>					
 h17:component		0 ... 1		Subsection Source: PCC TF-2: 6.3.3.2.1 Contains 1.3.6.1.4.1.19376.1.5.3.1.3.4 <i>IHE History of Present Illness Section</i> (2013-01-31)	PaLM Suppl. 2.1-3: 6.3.3.1 Clinical information section
where [h17:section [h17:code [(@code = '10164-2' and @codeSystem = '2.16.840.1.113883.6.1')]]]					
<div style="display: flex; justify-content: space-between; align-items: center;"> <span> psr-dataelement-42</span> <span> History of Present Illness</span> <span> APSR 2.0</span> </div>					


 h17:component	0 ... 1	Subsection Source: PCC TF-2: 6.3.3.2.3 Contains 1.3.6.1.4.1.19376.1.5.3.1.3.6 IHE Active Problems Section (2015-10-05 16:02:07)	PaLM Suppl. 2.1-3: 6.3.3.1 Clinical information section
where [hl7:section [hl7:code [(@code = '11450-4' and @codeSystem = '2.16.840.1.113883.6.1')]]]			
<div style="display: flex; justify-content: space-around; align-items: center;"> <span> psr-dataelement-43</span> <span> Clinical Problem</span> <span> APSR 2.0</span> </div>			

### 6.3.3.2 <Intraoperative Observation>- Section Content Module - 1.3.6.1.4.1.19376.1.8.1.2.2

#### 6.3.3.2.1 Definition and Purpose

The Intraoperative Observation section contains an intraoperative diagnosis for each specimen examined, the specimen identification and description, intraoperative observation procedure description (frozen section, gross examination, intraoperative cytology) and derived specimen dissected for other ancillary procedures (flow cytometry, cytogenetics, molecular studies, and electron microscopy). The only entry for this section is the Problem Organizer Entry module.




#### 6.3.3.2.2 Specification and Example



<b>Id</b>	1.3.6.1.4.1.19376.1.8.1.2.2	<b>Effective Date</b>	2014-05-13 19:29:16
<b>Status</b>	 Draft	<b>Version Label</b>	2.0
<b>Name</b>	IntraoperativeObservationSection	<b>Display Name</b>	Intraoperative Observation Section

#### Description

The Intraoperative Observation section contains an intraoperative diagnosis for each specimen examined, the specimen identification and description, intraoperative observation procedure description (frozen section, gross examination, intraoperative cytology) and derived specimen dissected for other ancillary procedures (flow cytometry, cytogenetics, molecular studies, and electron microscopy).

<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.8.1.2.2												
<b>Label</b>	PaLM Suppl. 2.1-3: 6.3.3.2 Intraoperative observation section												
<b>Classification</b>	CDA Section Level Template												
<b>Open/Closed</b>	Open (other than defined elements are allowed)												
<b>Associated with</b>	Associated with 2 concepts												
	<table border="1"> <thead> <tr> <th>Id</th> <th>Name</th> <th>Data Set</th> </tr> </thead> <tbody> <tr> <td>psr-dataelement-64</td> <td>● intraoperative observation text</td> <td>● APSR 2.0</td> </tr> <tr> <td>psr-dataelement-44</td> <td>● Intraoperative observation</td> <td>● APSR 2.0</td> </tr> </tbody> </table>	Id	Name	Data Set	psr-dataelement-64	● intraoperative observation text	● APSR 2.0	psr-dataelement-44	● Intraoperative observation	● APSR 2.0			
	Id	Name	Data Set										
psr-dataelement-64	● intraoperative observation text	● APSR 2.0											
psr-dataelement-44	● Intraoperative observation	● APSR 2.0											
<b>Uses</b>	Uses 2 templates												
	<table border="1"> <thead> <tr> <th>Uses</th> <th>as</th> <th>Name</th> <th>Version</th> </tr> </thead> <tbody> <tr> <td>1.3.6.1.4.1.19376.1.8.1.4.2</td> <td>Include</td> <td>● Author (2.0)</td> <td>2016-06-21 14:02:11</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.8.1.3.6</td> <td>Containment</td> <td>● Problem Organizer (2.0)</td> <td>2015-08-13 10:24:55</td> </tr> </tbody> </table>	Uses	as	Name	Version	1.3.6.1.4.1.19376.1.8.1.4.2	Include	● Author (2.0)	2016-06-21 14:02:11	1.3.6.1.4.1.19376.1.8.1.3.6	Containment	● Problem Organizer (2.0)	2015-08-13 10:24:55
	Uses	as	Name	Version									
1.3.6.1.4.1.19376.1.8.1.4.2	Include	● Author (2.0)	2016-06-21 14:02:11										
1.3.6.1.4.1.19376.1.8.1.3.6	Containment	● Problem Organizer (2.0)	2015-08-13 10:24:55										
<b>Relationship</b>	Specialization: template 2.16.840.1.113883.10.12.201 (2005-09-07)												
<b>Example</b>	generated example												
	<pre> &lt;section classCode="DOCSECT" moodCode="EVN"&gt;   &lt;templateId root="1.3.6.1.4.1.19376.1.8.1.2.2"/&gt;   &lt;code code="83321-0" codeSystem="2.16.840.1.113883.6.1" displayName="Pathology report intraoperative observation in Specimen Document"/&gt;   &lt;title&gt;INTRAOPERATIVE OBSERVATION SECTION&lt;/title&gt;   &lt;text/&gt;   &lt;languageCode/&gt;   &lt;!-- include template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author IHE' (2016-06-21T14:02:11) 0..* C --&gt;   &lt;entry typeCode="COMP" contextConductionInd="true"&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.8.1.3.6 'Problem Organizer' Problem Organizer (2015-08-13T10:24:55) --&gt;   &lt;/entry&gt; &lt;/section&gt; </pre>												




Item	DT	Card	Conf	Description	Label	
h17:section		0 ... 1	R		PaLM Suppl. 2.1-3: 6.3.3.2 Intraoperative observation section	
 psr-dataelement-44  Intraoperative observation  APSR 2.0						
└ @classCode	CS	1 ... 1	F	DOCSECT		
└ @moodCode	CS	1 ... 1	F	EVN		
	Constraint	This section SHALL contain a narrative block, represented by a <i>text</i> element, which renders the information to the human reader.  The section SHOULD contain as many Problem Organizer <i>entry</i> elements as there are problems or groups thereof observed. These entries provide the machine-readable data corresponding to the narrative block.  This section does not contain any subsection.  This section SHOULD contain <i>author</i> elements in case the authors of this section differ from those declared at a higher level in the document.				
└ h17:templateId	II	1 ... 1	R		PaLM Suppl. 2.1-3: 6.3.3.2 Intraoperative observation section	
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.8.1.2.2		
└ h17:code	CE	1 ... 1	M		PaLM Suppl. 2.1-3: 6.3.3.2	

					Intraoperative observation section
<ul style="list-style-type: none"> <li>└ @code</li> <li>└ @codeSystem</li> <li>└ @codeSystemName</li> <li>└ @displayName</li> </ul>	CONF	1 ... 1	F	83321-0	
		1 ... 1	F	2.16.840.1.113883.6.1 (LOINC)	
		1 ... 1	F	LOINC	
		1 ... 1	F	Pathology report intraoperative observation in Specimen Document	
└ h17:title	ST	1 ... 1	R	The Intraoperative Observation Section<title> SHALL be present. It is the local translation of the code@displayName	PaLM Suppl. 2.1-3: 6.3.3.2 Intraoperative observation section
└ h17:text	SD.TEXT	1 ... 1	M		PaLM Suppl. 2.1-3: 6.3.3.2 Intraoperative observation section
 psr-dataelement-64  intraoperative observation text  APSR 2.0					
Example	Intraoperative observation <text>Frozen section diagnosis of infiltrating duct carcinoma, left breast</text>				
└ h17:languageCode	CS	0 ... 1			PaLM Suppl. 2.1-3: 6.3.3.2 Intraoperative observation section
	CONF	The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.11526 <i>HumanLanguage</i> (2014-03-26)			
Included		0 ... *	C	from 1.3.6.1.4.1.19376.1.8.1.4.2 <i>Author</i> (2016-06-21 14:02:11)	

Author  
Source: PaLM Suppl. APSR 2.0-3: 6.2.6.2

h17:author		0 ... *	C		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
	psr-dataelement-4 psr-dataelement-79			Pathologist Device	APSR 2.0 APSR 2.0
@typeCode	cs	1 ... 1	F	AUT	
	Example	author is a person <pre>                 &lt;author typeCode="AUT" contextControlCode="OP"&gt;                   &lt;time value="201306101654"/&gt;                   &lt;assignedAuthor classCode="ASSIGNED"&gt;                     &lt;!-- ... --&gt;                   &lt;/assignedAuthor&gt;                 &lt;/author&gt;                 </pre>			
h17:templateId		1 ... 1	M		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
@root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.8.1.4.2	
h17:time	TS	1 ... 1	M	The authoring time is the date & time that this author contributed to the document. It SHALL be provided.	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
h17:assignedAuthor		0 ... 1	C		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
@classCode	cs	0 ... 1	F	ASSIGNED	



└ h17:id	II	1 ... *	M		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:addr	AD	1 ... *	M		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
 psr-dataelement-18  Address  APSR 2.0					
└ h17:telecom	TEL	1 ... *	M		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
Choice		1 ... 1		The author is either an assigned person or an authoring device. Elements to choose from: <ul style="list-style-type: none"> <li>▪ h17:assignedPerson</li> <li>▪ h17:assignedAuthoringDevice</li> </ul>	
└ h17:assignedPerson		0 ... 1	C		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
 psr-dataelement-5  Name  APSR 2.0					
Included		1 ... 1	R	from 2.16.840.1.113883.10.12.152 CDA Person (2005-09-07) The name(s) SHALL be given.	
└ @classCode		0 ... 1	F	PSN	
└ @determinerCode		0 ... 1	F	INSTANCE	
└ h17:name	PN	1 ... 1	R		PaLM Suppl.APSR 2.0-3:6.3.5.1

					Author
└─ h17:assignedAuthoringDevice		0 ... 1	C		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ @classCode	CS	0 ... 1	F	DEV	
└─ @determinerCode	CS	0 ... 1	F	INSTANCE	
└─ h17:manufacturerModelName	SC	0 ... 1	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:softwareName	SC	0 ... 1	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:code	CE	0 ... 1	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:representedOrganization		0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
	Example	represented organization for author as a device <pre> &lt;representedOrganization classCode="ORG" determinerCode="INSTANCE"&gt;   &lt;name&gt;     &lt;!-- ... --&gt;   &lt;/name&gt; &lt;/representedOrganization&gt;                     </pre>			
Included		0 ... 1		from 2.16.840.1.113883.10.12.151 CDA Organization (2005-09-07) The identifier(s) SHOULD, the name SHALL, the telecom(s) and the address(es) MAY be given.	

└ @classCode		0 ... 1	F	ORG	
└ @determinerCode		0 ... 1	F	INSTANCE	
└ h17:id	II	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:name	ON	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:telecom	TEL	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:addr	AD	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:standardIndustryClass Code	CE	0 ... 1		SHALL be chosen from domain OrganizationIndustryClass	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:asOrganizationPartOf		0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ @classCode		0 ... 1	F	PART	
└ h17:id	II	0 ... *	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author

└ h17:code	CE	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└ @codeSystem	CONF	0 ... 1	F	2.16.840.1.113883.5.111 (Role Code)		
└ h17:statusCode	CS	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
	CONF	The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15999 <i>RoleStatus</i> (DYNAMIC)				
└ h17:effectiveTime	IVL_TS	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└ h17:wholeOrganization		0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└ @classCode		0 ... 1	F	ORG		
└ @determinerCode		0 ... 1	F	INSTANCE		
└ h17:id	II	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└ h17:name	ON	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	


└─ h17:telecom	TEL	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:addr	AD	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:standard IndustryClass Code	CE	0 ... 1		SHALL be chosen from domain OrganizationIndustryClass	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:entry		0 ... *	R	Source: PAT TF-3:6.2.6.8 Contains 1.3.6.1.4.1.19376.1.8.1.3.6 <i>Problem Organizer</i> (2015-08-13 10:24:55)	PaLM Suppl. 2.1-3: 6.3.3.2 Intraoperative observation section
where [h17:organizer]					
└─ @typeCode	cs	1 ... 1	F	COMP	
└─ @contextConductionInd	bl	0 ... 1	F	true	

### 6.3.3.3 <Macroscopic Observation> - Section Content Module - 1.3.6.1.4.1.19376.1.8.1.2.3

#### 6.3.3.3.1 Definition and Purpose

The Macroscopic Observation section contains the description of the specimen(s) received or obtained by the laboratory (specimen type and state), the gross observation, links to gross images, if taken, processing information and tissue disposition (representative sampling and tissue submitted for additional studies or sent to biorepository). The only entry for this section is the Problem Organizer Entry module.

### 6.3.3.3.2 Specification and Example





<b>Id</b>	1.3.6.1.4.1.19376.1.8.1.2.3	<b>Effective Date</b>	2014-05-13 11:57:09
<b>Status</b>	 Draft	<b>Version Label</b>	2.0
<b>Name</b>	MacroscopySection	<b>Display Name</b>	Macroscopic Observation Section

#### Description



The Macroscopic Observation section contains the description of the specimen(s) received or obtained by the laboratory (specimen type and state), the gross observation, links to gross images, if taken, processing information and tissue disposition (representative sampling and tissue submitted for additional studies or sent to biorepository).

<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.8.1.2.3
<b>Label</b>	PaLM Suppl. 2.1-3: 6.3.3.3 Macroscopic observation section
<b>Classification</b>	CDA Section Level Template
<b>Open/Closed</b>	Open (other than defined elements are allowed)

#### Associated with 2 concepts

Associated with	Id	Name	Data Set
	psr-dataelement-31	 macroscopic observation text	 APSR 2.0
	psr-dataelement-30	 Macroscopic observation	 APSR 2.0

#### Uses 2 templates

Uses	as	Name	Version
1.3.6.1.4.1.19376.1.8.1.4.2	Include	 Author (2.0)	2016-06-21 14:02:11
1.3.6.1.4.1.19376.1.8.1.3.6	Containment	 Problem Organizer (2.0)	2015-08-13 10:24:55

<b>Relationship</b>	Specialization: template 2.16.840.1.113883.10.12.201 (2005-09-07)
<b>Example</b>	<p>example from use case #1</p> <pre>&lt;section classCode="DOCSECT"&gt;   &lt;templateId root="1.3.6.1.4.1.19376.1.8.1.2.3"/&gt;   &lt;code code="22634-0" displayName="Pathology report gross observation" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/&gt;   &lt;title&gt;MACROSCOPIC OBSERVATION SECTION&lt;/title&gt;   &lt;text&gt;     &lt;paragraph&gt; A. "RIGHT BREAST FIVE CORES 8-9:00" (ULTRASOUND GUIDED NEEDLE CORE BIOPSY)&lt;/paragraph&gt;   &lt;/text&gt; &lt;/section&gt;</pre>

Item	DT	Card	Conf	Description	Label
h17:section		0 ... 1	R		PaLM Suppl. 2.1-3: 6.3.3.3 Macroscopic observation section

 psr-dataelement-30
  Macroscopic observation
  APSR 2.0

<b>Constraint</b>	<p>This section SHALL contain a code element populated with these attributes:</p> <pre>@code="22634-0" @codeSystem="2.16.840.1.113883.6.1" @displayName="Pathology report gross observation"</pre> <p>This section does not contain any subsection. The section SHALL contain a narrative block, represented by a <i>text</i> element, which renders the information to the human reader.</p>
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		<p>The section SHOULD contain as many Problem Organizer <i>entry</i> elements as there are problems or groups thereof to be described. These entries provide the machine-readable data corresponding to the narrative block.</p> <p>This section SHOULD contain <i>author</i> elements in case the authors of this section differ from those declared at a higher level in the document.</p>			
└ h17:templateId	II	1 ... 1	M		PaLM Suppl. 2.1-3: 6.3.3.3 Macroscopic observation section
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.8.1.2.3	
└ h17:code	CE	1 ... 1	M		PaLM Suppl. 2.1-3: 6.3.3.3 Macroscopic observation section
└ @code	CONF	1 ... 1	F	22634-0	
└ @codeSystem		1 ... 1	F	2.16.840.1.113883.6.1 (LOINC)	
└ @codeSystemName		1 ... 1	F	LOINC	
└ @displayName		1 ... 1	F	Pathology report gross observation	
└ h17:title	ST	1 ... 1	R	The Macroscopic Observation Section<title> SHALL be present. It is the local translation of the code@displayName	PaLM Suppl. 2.1-3:



					6.3.3.3 Macroscopic observation section
	Example	<code>&lt;title&gt;Macroscopic Observation&lt;/title&gt;</code>			
h17:text	SD.TEXT	1 ... 1	M		PaLM Suppl. 2.1-3: 6.3.3.3 Macroscopic observation section
	 psr-dataelement-31  macroscopic observation text  APSR 2.0				
	Example	example for use case #1 <code>&lt;text&gt;A. "RIGHT BREAST FIVE CORES 8-9:00" (ULTRASOUND GUIDED NEEDLE CORE BIOPSY)&lt;/text&gt;</code>			
Included		0 ... *	C	from 1.3.6.1.4.1.19376.1.8.1.4.2 Author (2016-06-21 14:02:11) Author  Source: PaLM Suppl. APSR 2.0-3: 6.3.6.2	
h17:author		0 ... *	C		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
	 psr-dataelement-4  Pathologist  APSR 2.0  psr-dataelement-79  Device  APSR 2.0				
@typeCode	cs	1 ... 1	F	AUT	
	Example	author is a person <code>&lt;author typeCode="AUT" contextControlCode="OP"&gt;                  &lt;time value="201306101654"/&gt;                  &lt;assignedAuthor classCode="ASSIGNED"&gt;                  &lt;!-- ... --&gt;                  &lt;/assignedAuthor&gt;</code>			

		</author>			
└─ h17:templateId		1 ... 1	M	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└─ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.8.1.4.2	
└─ h17:time	TS	1 ... 1	M	The authoring time is the date & time that this author contributed to the document. It SHALL be provided.	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:assignedAuthor		0 ... 1	C		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ @classCode	CS	0 ... 1	F	ASSIGNED	
└─ h17:id	II	1 ... *	M		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:addr	AD	1 ... *	M		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
	 psr-dataelement-18		 Address		 APSR 2.0
└─ h17:telecom	TEL	1 ... *	M		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
Choice		1 ... 1		The author is either an assigned person or an authoring device. Elements to choose from:	

- h17:assignedPerson
- h17:assignedAuthoringDevice

└ h17:assignedPerson		0 ... 1	C		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
<div style="border: 1px solid black; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> <span> psr-dataelement-5</span> <span> Name</span> <span> APSR 2.0</span> </div>					
Included		1 ... 1	R	from 2.16.840.1.113883.10.12.152 CDA Person (2005-09-07) The name(s) SHALL be given.	
└ @classCode		0 ... 1	F	PSN	
└ @determinerCode		0 ... 1	F	INSTANCE	
└ h17:name	PN	1 ... 1	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:assignedAuthoringDevice		0 ... 1	C		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ @classCode	CS	0 ... 1	F	DEV	
└ @determinerCode	CS	0 ... 1	F	INSTANCE	
└ h17:manufacturerModelName	SC	0 ... 1	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:softwareName	SC	0 ... 1	R		PaLM Suppl.APSR

					2.0-3:6.3.5.1 Author	
└─ h17:code	CE	0 ... 1	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└─ h17:representedOrganization		0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
	Example	<pre> represented organization for author as a device &lt;representedOrganization classCode="ORG" determinerCode="INSTANCE"&gt;   &lt;name&gt;     &lt;!-- ... --&gt;   &lt;/name&gt; &lt;/representedOrganization&gt; </pre>				
Included		0 ... 1		from 2.16.840.1.113883.10.12.151 CDA Organization (2005-09-07) The identifier(s) SHOULD, the name SHALL, the telecom(s) and the address(es) MAY be given.		
└─ @classCode		0 ... 1	F	ORG		
└─ @determinerCode		0 ... 1	F	INSTANCE		
└─ h17:id	II	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└─ h17:name	ON	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└─ h17:telecom	TEL	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	

└ h17:addr	AD	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└ h17:standardIndustryClass Code	CE	0 ... 1		SHALL be chosen from domain OrganizationIndustryClass	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└ h17:asOrganizationPartOf		0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└ @classCode		0 ... 1	F	PART		
└ h17:id	II	0 ... *	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└ h17:code	CE	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└ @codeSystem	CONF	0 ... 1	F	2.16.840.1.113883.5.111 (Role Code)		
└ h17:statusCode	CS	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
	CONF	The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15999 <i>RoleStatus</i> (DYNAMIC)				
└ h17:effectiveTime	IVL_TS	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	

└─ h17:wholeOrganization		0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ @classCode		0 ... 1	F	ORG	
└─ @determinerCode		0 ... 1	F	INSTANCE	
└─ h17:id	II	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:name	ON	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:telecom	TEL	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:addr	AD	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:standard IndustryClass Code	CE	0 ... 1		SHALL be chosen from domain OrganizationIndustryClass	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:entry		0 ... *	R	Source: PaLM Suppl. APSR 2.0-3: 6.2.5.2 Contains 1.3.6.1.4.1.19376.1.8.1.3.6 <i>Problem Organizer</i> (2015-08-13 10:24:55)	PaLM Suppl. 2.1-3: 6.3.3.3 Macroscopic observation


					section
where [hl7:organizer]					
└ @typeCode	cs	1 ... 1	F	COMP	
└ @contextConductionInd	bl	0 ... 1	F	true	

### 6.3.3.4 <Microscopic Observation> - Section Content Module - 1.3.6.1.4.1.19376.1.8.1.2.4

#### 6.3.3.4.1 Definition and Purpose

The Microscopic Observation section contains optionally the histopathologic findings of the case and many laboratories use this section to record the results of histochemical and immunohistochemical stains. The only entry for this section is the Problem Organizer Entry module.

#### 6.3.3.4.2 Specification and Example

<b>Id</b>	1.3.6.1.4.1.19376.1.8.1.2.4	<b>Effective Date</b>	2014-05-13 14:25:17
<b>Status</b>	 Draft	<b>Version Label</b>	2.0
<b>Name</b>	MicroscopySection	<b>Display Name</b>	Microscopic Observation Section

#### Description

The Microscopic Observation section contains optionally the histopathologic findings of the case and of all of the derived specimens. This section should be used to record the results of histochemical and immunohistochemical stains and of image-based molecular methods.




<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.8.1.2.4
<b>Label</b>	PaLM Suppl. 2.1-3: 6.3.3.4 Microscopic observation section
<b>Classification</b>	CDA Section Level Template
<b>Open/Closed</b>	Open (other than defined elements are allowed)

Associated with	Associated with 2 concepts		
	<b>Id</b>	<b>Name</b>	<b>Data Set</b>
	psr-dataelement-16	microscopic observation text	APSR 2.0
	psr-dataelement-15	Microscopic observation	APSR 2.0
Uses	Uses 2 templates		
	<b>Uses</b>	<b>as</b>	<b>Name</b>
			<b>Version</b>
	1.3.6.1.4.1.19376.1.8.1.4.2	Include	Author (2.0) 2016-06-21 14:02:11
	1.3.6.1.4.1.19376.1.8.1.3.6	Containment	Problem Organizer (2.0) 2015-08-13 10:24:55
Relationship	Specialization: template 2.16.840.1.113883.10.12.201 (2005-09-07)		
Example	example from use case #1		
	<pre> &lt;section classCode="DOCSECT"&gt;   &lt;templateId root="1.3.6.1.4.1.19376.1.8.1.2.4"/&gt;   &lt;code code="22635-7" displayName="Pathology report microscopic observation" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/&gt;   &lt;title&gt;MICROSCOPIC OBSERVATION SECTION&lt;/title&gt;   &lt;!-- Text: Human-readable part --&gt;   &lt;text&gt;     INVASIVE ADENOCARCINOMA OF THE BREAST.     &lt;br/&gt;     HISTOLOGIC TYPE: DUCTAL.     &lt;br/&gt;     NOTTINGHAM COMBINED HISTOLOGIC GRADE: 1 OF 3.     &lt;list&gt;       &lt;item&gt;TUBULE FORMATION SCORE: 2.&lt;/item&gt;       &lt;item&gt;NUCLEAR PLEOMORPHISM SCORE: 2.&lt;/item&gt;       &lt;item&gt;MITOTIC RATE SCORE: 1.&lt;/item&gt;     &lt;/list&gt;     IN-SITU CARCINOMA: EQUIVOCAL.     &lt;br/&gt;     &lt;br/&gt; </pre>		



```

BREAST CANCER BIOMARKER STUDIES:
<list>
  <item>PARAFFIN BLOCK NUMBER: A1.</item>
  <item>ER INTERPRETATION: POSITIVE ESTROGEN RECEPTOR ACTIVITY (ALLRED SCORE = 8, Allred Percentage Score = 5, Allred Staining Score = 3).</item>
  <item>PR INTERPRETATION: POSITIVE PROGESTERONE RECEPTOR ACTIVITY (ALLRED SCORE = 8).</item>
  <item>DAKO EGFR PHARMDX IMMUNOHISTOCHEMISTRY: NEGATIVE (0) FOR EXPRESSION OF EPIDERMAL GROWTH FACTOR RECEPTOR.</item>
  <item>HER2/NEU IMMUNOHISTOCHEMISTRY: EQUIVOCAL (2+) FOR OVEREXPRESSION OF HER2/NEU ONCOPROTEIN.</item>
  <item>HER2/NEU FISH RESULTS: NOT AMPLIFIED.</item>
</list>
</text>
</section>
    
```

Item	DT	Card	Conf	Description	Label
h17:section		0 ... 1	R		PaLM Suppl. 2.1-3: 6.3.3.4 Microscopic observation section
<div style="display: flex; justify-content: space-between; align-items: center;"> <span> psr-dataelement-15</span> <span> Microscopic observation</span> <span> APSR 2.0</span> </div>					
Constraint		<p>This section SHALL contain a code element populated with these attributes:</p> <pre> @code="22635-7" @codeSystem="2.16.840.1.113883.6.1" @displayName="Pathology report microscopic observation"                     </pre> <p>This section SHALL contain a narrative block, represented by a <i>text</i> element, which renders the information to the human reader.</p>			

					<p>The section SHOULD contain as many Problem Organizer <i>entry</i> elements as there are problems or groups thereof to be described. These entries provide the machine-readable data corresponding to the narrative block.</p> <p>This section SHOULD contain <i>author</i> elements in case the authors of this section differ from those declared at a higher level in the document.</p> <p>This section does not contain any subsections.</p>
<ul style="list-style-type: none"> <li>└─ h17:templateId</li> </ul>	II	1 ... 1	M		PaLM Suppl. 2.1-3: 6.3.3.4 Microscopic observation section
<ul style="list-style-type: none"> <li>└─ @root</li> </ul>	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.8.1.2.4	
<ul style="list-style-type: none"> <li>└─ h17:code</li> </ul>	CE	1 ... 1	M		PaLM Suppl. 2.1-3: 6.3.3.4 Microscopic observation section
<ul style="list-style-type: none"> <li>└─ @code</li> </ul>	CONF	1 ... 1	F	22635-7	
<ul style="list-style-type: none"> <li>└─ @codeSystem</li> </ul>		1 ... 1	F	2.16.840.1.113883.6.1 (LOINC)	
<ul style="list-style-type: none"> <li>└─ @codeSystemName</li> </ul>		1 ... 1	F	LOINC	
<ul style="list-style-type: none"> <li>└─ @displayName</li> </ul>		1 ... 1	F	Pathology report microscopic observation	

<p>h17:title</p>	<p>ST</p>	<p>1 ... 1</p>	<p>R</p>	<p>The Microscopic Observation Section&lt;title&gt; SHALL be present. It is the local translation of the code@displayName</p>	<p>PaLM Suppl. 2.1-3: 6.3.3.4 Microscopic observation section</p>
<p>Example</p>		<p>&lt;title&gt;MICROSCOPIC OBSERVATION SECTION&lt;/title&gt;</p>			
<p>h17:text</p>	<p>SD.TEXT</p>	<p>1 ... 1</p>	<p>M</p>		<p>PaLM Suppl. 2.1-3: 6.3.3.4 Microscopic observation section</p>
<p>© psr-dataelement-16      ● microscopic observation text      ● APSR 2.0</p>					
<p>Example</p>	<p>example from use case#1</p> <pre> &lt;text&gt;   INVASIVE ADENOCARCINOMA OF THE BREAST. &lt;br/&gt;  HISTOLOGIC TYPE: DUCTAL. &lt;br/&gt;  NOTTINGHAM COMBINED HISTOLOGIC GRADE: 1 OF 3. &lt;list&gt;   &lt;item&gt;TUBULE FORMATION SCORE: 2.&lt;/item&gt;   &lt;item&gt;NUCLEAR PLEOMORPHISM SCORE: 2.&lt;/item&gt;   &lt;item&gt;MITOTIC RATE SCORE: 1.&lt;/item&gt; &lt;/list&gt;  IN-SITU CARCINOMA: EQUIVOCAL. &lt;br/&gt; &lt;br/&gt;  BREAST CANCER BIOMARKER STUDIES: &lt;list&gt;   &lt;item&gt;PARAFFIN BLOCK NUMBER: A1.&lt;/item&gt;   &lt;item&gt;ER INTERPRETATION: POSITIVE ESTROGEN RECEPTOR ACTIVITY (ALLRED SCORE = 8, Allred Percentage Score = 5, Allred Staining Score = 3).&lt;/item&gt;   &lt;item&gt;PR INTERPRETATION: POSITIVE PROGESTERONE RECEPTOR ACTIVITY (ALLRED SCORE = 8).&lt;/item&gt;   &lt;item&gt;DAKO EGFR PHARMDX IMMUNOHISTOCHEMISTRY: NEGATIVE (0) FOR                     </pre>				

			<pre> EXPRESION OF EPIDERMAL GROWTH FACTOR RECEPTOR.&lt;/item&gt;   &lt;item&gt;HER2/NEU IMMUNOHISTOCHEMISTRY: EQUIVOCAL (2+) FOR OVEREXPRESSION OF HER2/NEU ONCOPROTEIN.&lt;/item&gt;   &lt;item&gt;HER2/NEU FISH RESULTS: NOT AMPLIFIED.&lt;/item&gt; &lt;/list&gt; &lt;/text&gt; </pre>	
<p>Included</p>		<p>0 ... * C</p>	<p>from 1.3.6.1.4.1.19376.1.8.1.4.2 Author (2016-06-21 14:02:11)  Author  Source: PaLM Suppl. APSR 2.0-3: 6.3.6.2</p>	
<p>↳ h17:author</p>		<p>0 ... * C</p>		<p>PaLM  Suppl.APSR  2.0-3:6.3.5.1  Author</p>
			<p>🎯 psr-dataelement-4      🟡 Pathologist      🟡 APSR 2.0  psr-dataelement-79      🟡 Device      🟡 APSR 2.0</p>	
<p>↳ @typeCode</p>	<p>cs</p>	<p>1 ... 1 F</p>	<p>AUT</p>	
	<p>Example</p>		<pre> author is a person &lt;author typeCode="AUT" contextControlCode="OP"&gt;   &lt;time value="201306101654"/&gt;   &lt;assignedAuthor classCode="ASSIGNED"&gt;     &lt;!-- ... --&gt;   &lt;/assignedAuthor&gt; &lt;/author&gt; </pre>	
<p>↳ h17:templateId</p>		<p>1 ... 1 M</p>		<p>PaLM  Suppl.APSR  2.0-3:6.3.5.1  Author</p>
<p>↳ @root</p>	<p>uid</p>	<p>1 ... 1 F</p>	<p>1.3.6.1.4.1.19376.1.8.1.4.2</p>	
<p>↳ h17:time</p>	<p>TS</p>	<p>1 ... 1 M</p>	<p>The authoring time is the date &amp; time that this author contributed to the document. It SHALL be provided.</p>	<p>PaLM  Suppl.APSR  2.0-3:6.3.5.1  Author</p>

└ h17:assignedAuthor		0 ... 1	C		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ @classCode	CS	0 ... 1	F	ASSIGNED	
└ h17:id	II	1 ... *	M		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:addr	AD	1 ... *	M		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
		 psr-dataelement-18  Address  APSR 2.0			
└ h17:telecom	TEL	1 ... *	M		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
Choice		1 ... 1		The author is either an assigned person or an authoring device. Elements to choose from: <ul style="list-style-type: none"> <li>▪ h17:assignedPerson</li> <li>▪ h17:assignedAuthoringDevice</li> </ul>	
└ h17:assignedPerson		0 ... 1	C		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
		 psr-dataelement-5  Name  APSR 2.0			
Included		1 ... 1	R	from 2.16.840.1.113883.10.12.152 CDA Person (2005-09-07) The name(s) SHALL be given.	

└ @classCode		0 ... 1	F	PSN		
└ @determinerCode		0 ... 1	F	INSTANCE		
└ h17:name	PN	1 ... 1	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└ h17:assignedAuthoring Device		0 ... 1	C		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└ @classCode	CS	0 ... 1	F	DEV		
└ @determinerCode	CS	0 ... 1	F	INSTANCE		
└ h17:manufacturerModel Name	SC	0 ... 1	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└ h17:softwareName	SC	0 ... 1	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└ h17:code	CE	0 ... 1	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└ h17:representedOrganization		0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
	Example	represented organization for author as a device				

```
<representedOrganization classCode="ORG" determinerCode="INSTANCE">
  <name>
    <!-- ... -->
  </name>
</representedOrganization>
```

**Included** **0 ... 1** from 2.16.840.1.113883.10.12.151 CDA Organization (2005-09-07)  
The identifier(s) SHOULD, the name SHALL, the telecom(s) and the address(es) MAY be given.

- └ @classCode **0 ... 1** F ORG
- └ @determinerCode **0 ... 1** F INSTANCE

└ h17:id	II	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:name	ON	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:telecom	TEL	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:addr	AD	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:standardIndustryClass Code	CE	0 ... 1		SHALL be chosen from domain OrganizationIndustryClass	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:asOrganizationPartOf		0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1

					Author
└ @classCode		0 ... 1	F	PART	
└ hl7:id	II	0 ... *	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ hl7:code	CE	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ @codeSystem	CONF	0 ... 1	F	2.16.840.1.113883.5.111 (Role Code)	
└ hl7:statusCode	CS	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
	CONF	The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15999 <i>RoleStatus</i> (DYNAMIC)			
└ hl7:effectiveTime	IVL_TS	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ hl7:wholeOrganization		0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ @classCode		0 ... 1	F	ORG	
└ @determinerCode		0 ... 1	F	INSTANCE	
└ hl7:id	II	0 ... *			PaLM Suppl.APSR




					2.0-3:6.3.5.1 Author
└ h17:name	ON	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:telecom	TEL	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:addr	AD	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:standard IndustryClass Code	CE	0 ... 1		SHALL be chosen from domain OrganizationIndustryClass	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:entry		0 ... *	R	Problem organizer entry  Source: PaLM Suppl. APSR 2.0-3: 6.2.5.2 Contains 1.3.6.1.4.1.19376.1.8.1.3.6 <i>Problem Organizer</i> (2015-08-13 10:24:55)	PaLM Suppl. 2.1-3: 6.3.3.4 Microscopic observation section
where [h17:organizer]					
└ @typeCode	CS	1 ... 1	F	COMP	
└ @contextConductionInd	bl	0 ... 1	F	true	

### 6.3.3.5 <Additional Specified Observation> - Section Content Module - 1.3.6.1.4.1.19376.1.3.10.3.1

#### 6.3.3.5.1 Definition and Purpose

The Additional Specified Observation section includes additional pathologic finding(s) and the results of ancillary studies with non-morphological methods (e.g., flow cytometry, cytogenetics, molecular pathology, etc.) and may include diagrams and still images or virtual slides, if taken. Further CDA content section modules as subsections are allowed. The only entry for this section is the Problem Organizer Entry module.



#### 6.3.3.5.2 Specification and Example



<b>Id</b>	1.3.6.1.4.1.19376.1.3.10.3.1	<b>Effective Date</b>	2016-11-13 14:28:08
<b>Status</b>	 Draft	<b>Version Label</b>	2.0
<b>Name</b>	AdditionalSpecifiedObservationSection	<b>Display Name</b>	Additional Specified Observation Section





#### Description

Template CDA Section (prototype, directly derived from POCD\_RM000040 MIF)

The Additional Specified Observation section includes additional pathologic finding(s) and the results of ancillary study(yes) with non-morphological methods (e.g. flow cytometry, cytogenetics, molecular pathology, etc.) and may include diagrams and still images or virtual slides, if taken. Further CDA content section modules as subsections are allowed.


<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.3.1		
<b>Label</b>	PaLM Suppl. 2.1-3: 6.3.3.5 Additional specified observation section		
<b>Classification</b>	CDA Section Level Template		
<b>Open/Closed</b>	Open (other than defined elements are allowed)		
<b>Associated with</b>	Associated with 1 concept		
	<b>Id</b>	<b>Name</b>	<b>Data Set</b>
	psr-dataelement-96	 Additional Specified Observation	 APSR 2.0

<b>Uses</b>	Uses 2 templates			
	<b>Uses</b>	<b>as</b>	<b>Name</b>	<b>Version</b>
	1.3.6.1.4.1.19376.1.8.1.4.2	Include	 Author (2.0)	2016-06-21 14:02:11
1.3.6.1.4.1.19376.1.8.1.3.6	Containment	 Problem Organizer (2.0)	2015-08-13 10:24:55	
<b>Relationship</b>	Adaptation: template 2.16.840.1.113883.10.12.201 (2005-09-07)			
<b>Example</b>	generated example			
	<pre> &lt;section classCode="DOCSECT" moodCode="EVN"&gt;   &lt;templateId root="1.3.6.1.4.1.19376.1.3.10.3.1"/&gt;   &lt;code code="xxxxx-x" codeSystem="2.16.840.1.113883.6.1" displayName="specified observation"/&gt;   &lt;title&gt;ADDITIONAL SPECIFIED OBSERVATION SECTION&lt;/title&gt;   &lt;text/&gt;   &lt;author&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author IHE' (2016-06-21 14:02:11) --&gt;   &lt;/author&gt;   &lt;entry typeCode="COMP" contextConductionInd="true"&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.8.1.3.6 'Problem Organizer' (2015-08-13T10:24:55) --&gt;   &lt;/entry&gt; &lt;/section&gt; </pre>			

Item	DT	Card	Conf	Description	Label
hl7:section		0 ... *	R		PaLM Suppl. 2.1-3: 6.3.3.5 Additional specified observation section
 psr-dataelement-96  Additional Specified Observation  APSR 2.0					
 @classCode	CS	0 ... 1	F	DOCSECT	

<p>└ @moodCode</p>	<p>CS</p>	<p>0 ... 1</p>	<p>F</p>	<p>EVN</p> <p>This section SHALL contain a code element populated with these attributes:</p> <p>@code="xxxx-x" (specific for the additional specified observation)</p> <p>@codeSystem="2.16.840.1.113883.6.1"</p> <p>@displayName="Pathology report yyyy (specific) observation"</p> <p>This section SHALL contain a narrative block, represented by a <i>text</i> element, which renders the information to the human reader.</p> <p>The section SHOULD contain as many Problem Organizer <i>entry</i> elements as there are problems or groups thereof to be described. These entries provide the machine-readable data corresponding to the narrative block.</p> <p>This section SHOULD contain <i>author</i> elements in case the authors of this section differ from those declared at a higher level in the document.</p> <p>This section MAY contain subsections.</p>
<p>└ h17:templateId</p>	<p>II</p>	<p>1 ... 1</p>	<p>M</p>	<p>PaLM Suppl. 2.1-3: 6.3.3.5 Additional specified observation section</p>
<p>└ @root</p>	<p>uid</p>	<p>1 ... 1</p>	<p>F</p>	<p>1.3.6.1.4.1.19376.1.3.10.3.1</p>


<p>└ h17:code</p>	<p><b>CE</b></p>	<p><b>1 ... 1</b></p>	<p><b>M</b></p>		<p>PaLM Suppl. 2.1-3: 6.3.3.5 Additional specified observation section</p>
	<p>Constraint</p>	<p>The LOINC code SHALL be chosen according the specified observation type</p>			
<p>└ @code</p>	<p>CONF</p>	<p><b>1 ... 1</b></p>	<p><b>F</b></p>	<p>xxxxx-x</p>	
<p>└ @codeSystem</p>		<p><b>1 ... 1</b></p>	<p><b>F</b></p>	<p>2.16.840.1.113883.6.1 (LOINC)</p>	
<p>└ @codeSystemName</p>		<p><b>1 ... 1</b></p>	<p><b>F</b></p>	<p>LOINC</p>	
<p>└ @displayName</p>		<p><b>1 ... 1</b></p>	<p><b>F</b></p>	<p>specified observation</p>	
<p>└ h17:title</p>	<p><b>ST</b></p>	<p><b>1 ... 1</b></p>	<p><b>R</b></p>		<p>PaLM Suppl. 2.1-3: 6.3.3.5 Additional specified observation section</p>
	<p>Example</p>	<p>MP observation &lt;text&gt;MOLECULAR PATHOLOGY OBSERVATION SECTION&lt;/text&gt;</p>			
<p>└ h17:text</p>	<p><b>SD.TEXT</b></p>	<p><b>1 ... 1</b></p>	<p><b>M</b></p>		<p>PaLM Suppl. 2.1-3: 6.3.3.5 Additional specified observation section</p>

Included		0 ... *	C	from 1.3.6.1.4.1.19376.1.8.1.4.2 Author (2016-06-21 14:02:11) Source: PaLM Suppl. APSR 2.0-3: 6.3.6.2	
└─ h17:author		0 ... *	C		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
	 psr-dataelement-4 psr-dataelement-79			 Pathologist  Device	 APSR 2.0  APSR 2.0
└─ @typeCode	cs	1 ... 1	F	AUT	
	Example	author is a person <pre>                     &lt;author typeCode="AUT" contextControlCode="OP"&gt;                     &lt;time value="201306101654"/&gt;                     &lt;assignedAuthor classCode="ASSIGNED"&gt;                     &lt;!-- ... --&gt;                     &lt;/assignedAuthor&gt;                     &lt;/author&gt;                 </pre>			
└─ h17:templateId		1 ... 1	M		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.8.1.4.2	
└─ h17:time	TS	1 ... 1	M	The authoring time is the date & time that this author contributed to the document. It SHALL be provided.	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:assignedAuthor		0 ... 1	C		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ @classCode	cs	0 ... 1	F	ASSIGNED	

└ h17:id	II	1 ... *	M		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:addr	AD	1 ... *	M		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
		⦿ psr-dataelement-18	● Address	● APSR 2.0	
└ h17:telecom	TEL	1 ... *	M		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
Choice		1 ... 1		The author is either an assigned person or an authoring device. Elements to choose from: <ul style="list-style-type: none"> <li>▪ h17:assignedPerson</li> <li>▪ h17:assignedAuthoringDevice</li> </ul>	
└ h17:assignedPerson		0 ... 1	C		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
		⦿ psr-dataelement-5	● Name	● APSR 2.0	
Included		1 ... 1	R	from 2.16.840.1.113883.10.12.152 CDA Person (2005-09-07) The name(s) SHALL be given.	
└ @classCode		0 ... 1	F	PSN	
└ @determinerCode		0 ... 1	F	INSTANCE	
└ h17:name	PN	1 ... 1	R		PaLM Suppl.APSR 2.0-3:6.3.5.1

					Author
└ h17:assignedAuthoring Device		0 ... 1	C		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ @classCode	CS	0 ... 1	F	DEV	
└ @determinerCode	CS	0 ... 1	F	INSTANCE	
└ h17:manufacturerModel Name	SC	0 ... 1	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:softwareName	SC	0 ... 1	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:code	CE	0 ... 1	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:representedOrganization		0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
	Example	represented organization for author as a device <pre> &lt;representedOrganization classCode="ORG" determinerCode="INSTANCE"&gt;   &lt;name&gt;     &lt;!-- ... --&gt;   &lt;/name&gt; &lt;/representedOrganization&gt;                     </pre>			
Included		0 ... 1		from 2.16.840.1.113883.10.12.151 CDA Organization (2005-09-07) The identifier(s) SHOULD, the name SHALL, the telecom(s) and the address(es) MAY be given.	



 @classCode		0 ... 1	F	ORG	
 @determinerCode		0 ... 1	F	INSTANCE	
 h17:id	II	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
 h17:name	ON	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
 h17:telecom	TEL	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
 h17:addr	AD	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
 h17:standardIndustryClass Code	CE	0 ... 1		SHALL be chosen from domain OrganizationIndustryClass	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
 h17:asOrganizationPartOf		0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
 @classCode		0 ... 1	F	PART	
 h17:id	II	0 ... *	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author

└ h17:code	CE	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└ @codeSystem	CONF	0 ... 1	F	2.16.840.1.113883.5.111 (Role Code)		
└ h17:statusCode	CS	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
	CONF	The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15999 <i>RoleStatus</i> (DYNAMIC)				
└ h17:effectiveTime	IVL_TS	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└ h17:wholeOrganization		0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└ @classCode		0 ... 1	F	ORG		
└ @determinerCode		0 ... 1	F	INSTANCE		
└ h17:id	II	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└ h17:name	ON	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	

└─ h17:telecom	TEL	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:addr	AD	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:standard IndustryClass Code	CE	0 ... 1		SHALL be chosen from domain OrganizationIndustryClass	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:entry		0 ... *	R	Source: PaLM Suppl. APSR 2.0-3: 6.2.5.2 Contains 1.3.6.1.4.1.19376.1.8.1.3.6 <i>Problem Organizer</i> (2015-08-13 10:24:55)	PaLM Suppl. 2.1-3: 6.3.3.5 Additional specified observation section
where [h17:organizer]					
└─ @typeCode	cs	1 ... 1	F	COMP	
└─ @contextConductionInd	bl	0 ... 1	F	true	

### 6.3.3.6 <Diagnostic Conclusion> - Section Content Module - 1.3.6.1.4.1.19376.1.8.1.2.5

#### 6.3.3.6.1 Definition and Purpose

The Diagnostic Conclusion section contains diagnoses on all specimens that are delivered to the pathology department from one operation or patient visit to a single clinician on a particular day. The diagnoses for each specimen sample or group of specimen samples are reported separately. This section may include diagrams and still images or virtual slides, if taken. In case of cancer, this section may also include a cancer checklist. The only mandatory entry for this section is the Problem Organizer Entry module, additionally the Update Organizer Entry module MAY be used.

### 6.3.3.6.2 Specification and Example







<b>Id</b>	1.3.6.1.4.1.19376.1.8.1.2.5	<b>Effective Date</b>	2014-05-13 19:31:26
<b>Status</b>	 Draft	<b>Version Label</b>	2.0
<b>Name</b>	DiagnosticConclusionSection	<b>Display Name</b>	Diagnostic Conclusion Section

#### Description


The Diagnostic Conclusion section contains diagnoses on all specimens that are delivered to the pathology department from one operation or patient visit to a single clinician on a particular day. The diagnoses for each specimen or group of specimens are reported separately. This section includes additional pathologic finding(s) and the results of ancillary study(ies) and may include diagrams and still images or virtual slides, if taken. In case of cancer, this section includes the cancer checklist.

<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.8.1.2.5
<b>Label</b>	PaLM Suppl. 2.1-3: 6.3.3.6 Diagnostic conclusion section
<b>Classification</b>	CDA Section Level Template
<b>Open/Closed</b>	Open (other than defined elements are allowed)

#### Associated with 3 concepts

Associated with	Id	Name	Data Set
	psr-dataelement-45	 Diagnosis	 APSR 2.0
	psr-dataelement-3	 Tumor formula (TNM)	 APSR 2.0
	psr-dataelement-54	 Tumor classification (ICD-O-3)	 APSR 2.0










#### Uses 3 templates

Uses	as	Name	Version
1.3.6.1.4.1.19376.1.8.1.4.2	Include	 Author (2.0)	2016-06-21 14:02:11

	<p>1.3.6.1.4.1.19376.1.3.10.4.5 Containment ● Update Information Organizer (2.0)</p> <p>1.3.6.1.4.1.19376.1.8.1.3.6 Containment ● Problem Organizer (2.0)</p>	<p>2017-11-14 15:22:14</p> <p>2015-08-13 10:24:55</p>
<p><b>Relationship</b></p>	<p>Specialization: template 2.16.840.1.113883.10.12.201 (2005-09-07)</p>	
<p><b>Example</b></p>	<p>example from use case #1</p> <pre> &lt;section classCode="DOCSECT"&gt;   &lt;templateId root="1.3.6.1.4.1.19376.1.8.1.2.5"/&gt;   &lt;code code="22637-3" displayName="Pathology report final diagnosis" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/&gt;   &lt;title&gt;DIAGNOSTIC CONCLUSION SECTION&lt;/title&gt;   &lt;text&gt;     &lt;paragraph&gt; A1. "RIGHT BREAST FIVE CORES 8-9:00" (ULTRASOUND GUIDED NEEDLE CORE BIOPSY)&lt;/paragraph&gt;      INVASIVE ADENOCARCINOMA OF THE BREAST.     &lt;br/&gt;      HISTOLOGIC TYPE: DUCTAL.     &lt;br/&gt;     NOTTINGHAM COMBINED HISTOLOGIC GRADE: 1 OF 3.     &lt;list&gt;       &lt;item&gt;TUBULE FORMATION SCORE: 2.&lt;/item&gt;       &lt;item&gt;NUCLEAR PLEOMORPHISM SCORE: 2.&lt;/item&gt;       &lt;item&gt;MITOTIC RATE SCORE: 1.&lt;/item&gt;     &lt;/list&gt;      ICD-O-CLASSIFICATION: C50.3 M8500/31     &lt;br/&gt;      IN-SITU CARCINOMA: EQUIVOCAL.     &lt;br/&gt;      BREAST CANCER BIOMARKER STUDIES:     &lt;list&gt;       &lt;item&gt;PARAFFIN BLOCK NUMBER: A1.&lt;/item&gt;       &lt;item&gt;ER INTERPRETATION: POSITIVE ESTROGEN RECEPTOR ACTIVITY (ALLRED SCORE = 8, Percentage stained tumor cells = 85%, Allred Staining Score = 3).&lt;/item&gt;       &lt;item&gt;PR INTERPRETATION: POSITIVE PROGESTERONE RECEPTOR ACTIVITY (ALLRED SCORE = 8).&lt;/item&gt;       &lt;item&gt;DAKO EGFR PHARMDX IMMUNOHISTOCHEMISTRY: NEGATIVE (0) FOR EXPRESSION OF EPIDERMAL GROWTH FACTOR RECEPTOR.&lt;/item&gt;       &lt;item&gt;HER2/NEU IMMUNOHISTOCHEMISTRY: EQUIVOCAL (2+) FOR OVEREXPRESSION OF HER2/NEU ONCOPROTEIN.&lt;/item&gt;       &lt;item&gt;HER2/NEU FISH RESULTS: NOT AMPLIFIED.&lt;/item&gt;     &lt;/list&gt;   &lt;/text&gt;   &lt;!-- Start Level 3 for Diagnostic Conclusion--&gt; &lt;entry&gt; </pre>	

```

<!-- template 1.3.6.1.4.1.19376.1.8.1.3.6 'Problem Organizer' (2015-08-13T10:24:55) 1..* R-->
</entry>
<entry>
  <!-- template 1.3.6.1.4.1.19376.1.3.10.4.5 'Update Information Organizer' (2017-11-14T15:22:14) 0..1 R -->
</entry>
</section>
    
```

Item	DT	Card	Conf	Description	Label
h17:section		1 ... 1	M		PaLM Suppl. 2.1-3: 6.3.3.6 Diagnostic conclusion section
				 psr-dataelement-45  Diagnosis  APSR 2.0 psr-dataelement-3  Tumor formula (TNM)  APSR 2.0 psr-dataelement-54  Tumor classification (ICD-O-3)  APSR 2.0	
 @classCode	CS	1 ... 1	F	DOCSECT	
 @moodCode	CS	1 ... 1	F	EVN	
Constraint				This section SHALL contain a code element populated with these attributes:  @code="22637-3"  @codeSystem="2.16.840.1.113883.6.1"  @displayName="Pathology report diagnosis"	
				This section SHALL contain a narrative block, represented by a <i>text</i> element, which renders the information to the human reader.	

		<p>The section SHALL contain as many Problem Organizer <i>entry</i> elements as there are problems or groups thereof investigated. Each <i>entry</i> provides machine-readable data.</p> <p>This section SHOULD contain <i>author</i> elements in case the authors of this section differ from those declared at a higher level in the document.</p>			
└ h17:templateId	II	1 ... 1	M		PaLM Suppl. 2.1-3: 6.3.3.6 Diagnostic conclusion section
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.8.1.2.5	
└ h17:code	CE	1 ... 1	M		PaLM Suppl. 2.1-3: 6.3.3.6 Diagnostic conclusion section
└ @code	CONF	1 ... 1	F	22637-3	
└ @codeSystem		1 ... 1	F	2.16.840.1.113883.6.1 (LOINC)	
└ @codeSystemName		1 ... 1	F	LOINC	
└ @displayName		1 ... 1	F	'Pathology report diagnosis	
└ h17:title	ST	1 ... 1	R	The Diagnostic Conclusion Section<title> SHALL be present. It is the local translation of the code@displayName	PaLM Suppl. 2.1-3: 6.3.3.6

					Diagnostic conclusion section
	Example	<code>&lt;h17:title&gt;Pathology Final Diagnosis&lt;/h17:title&gt;</code>			
 <code>h17:text</code>	SD.TEXT	1 ... 1	M		PaLM Suppl. 2.1-3: 6.3.3.6 Diagnostic conclusion section
	Example	<pre> example for use case#1 &lt;text&gt;   &lt;paragraph&gt; A1. "RIGHT BREAST FIVE CORES 8-9:00" (ULTRASOUND GUIDED NEEDLE CORE BIOPSY) &lt;/paragraph&gt;  INVASIVE ADENOCARCINOMA OF THE BREAST. &lt;br/&gt;  HISTOLOGIC TYPE: DUCTAL. &lt;br/&gt; NOTTINGHAM COMBINED HISTOLOGIC GRADE: 1 OF 3. &lt;list&gt;   &lt;item&gt;TUBULE FORMATION SCORE: 2.&lt;/item&gt;   &lt;item&gt;NUCLEAR PLEOMORPHISM SCORE: 2.&lt;/item&gt;   &lt;item&gt;MITOTIC RATE SCORE: 1.&lt;/item&gt; &lt;/list&gt;  ICD-O-CLASSIFICATION: C50.3 M8500/31 &lt;br/&gt;  IN-SITU CARCINOMA: EQUIVOCAL. &lt;br/&gt; &lt;br/&gt;  BREAST CANCER BIOMARKER STUDIES: &lt;list&gt;   &lt;item&gt;PARAFFIN BLOCK NUMBER: A1.&lt;/item&gt;   &lt;item&gt;ER INTERPRETATION: POSITIVE ESTROGEN RECEPTOR ACTIVITY (ALLRED SCORE = 8, Percentage stained tumor cells = 85%, Allred Staining Score = 3).&lt;/item&gt;   &lt;item&gt;PR INTERPRETATION: POSITIVE PROGESTERONE RECEPTOR ACTIVITY (ALLRED SCORE = 8).&lt;/item&gt;   &lt;item&gt;DAKO EGFR PHARMDX IMMUNOHISTOCHEMISTRY: NEGATIVE (0) FOR EXPRESSION OF EPIDERMAL GROWTH FACTOR RECEPTOR.&lt;/item&gt;   &lt;item&gt;HER2/NEU IMMUNOHISTOCHEMISTRY: EQUIVOCAL (2+) FOR OVEREXPRESSION OF HER2/NEU ONCOPROTEIN.&lt;/item&gt;   &lt;item&gt;HER2/NEU FISH RESULTS: NOT AMPLIFIED.&lt;/item&gt; </pre>			



				<pre>&lt;/list&gt; &lt;/text&gt;</pre>	
Included			0 ... * C	from 1.3.6.1.4.1.19376.1.8.1.4.2 Author (2016-06-21 14:02:11) Author Source: PaLM Suppl. APSR 2.0-3: 6.3.6.2	
└ h17:author			0 ... * C		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
		© psr-dataelement-4 psr-dataelement-79		● Pathologist ● Device	● APSR 2.0 ● APSR 2.0
└ @typeCode	cs		1 ... 1 F	AUT	
	Example			author is a person <pre>&lt;author typeCode="AUT" contextControlCode="OP"&gt;   &lt;time value="201306101654"/&gt;   &lt;assignedAuthor classCode="ASSIGNED"&gt;     &lt;!-- ... --&gt;   &lt;/assignedAuthor&gt; &lt;/author&gt;</pre>	
└ h17:templateId			1 ... 1 M		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ @root	uid		1 ... 1 F	1.3.6.1.4.1.19376.1.8.1.4.2	
└ h17:time	TS		1 ... 1 M	The authoring time is the date & time that this author contributed to the document. It SHALL be provided.	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:assignedAuthor			0 ... 1 C		PaLM Suppl.APSR 2.0-3:6.3.5.1

					Author
└ @classCode	CS	0 ... 1	F	ASSIGNED	
└ hl7:id	II	1 ... *	M		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ hl7:addr	AD	1 ... *	M		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
		 psr-dataelement-18		 Address	 APSR 2.0
└ hl7:telecom	TEL	1 ... *	M		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
Choice		1 ... 1		The author is either an assigned person or an authoring device. Elements to choose from: <ul style="list-style-type: none"> <li>▪ hl7:assignedPerson</li> <li>▪ hl7:assignedAuthoringDevice</li> </ul>	
└ hl7:assignedPerson		0 ... 1	C		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
		 psr-dataelement-5		 Name	 APSR 2.0
Included		1 ... 1	R	from 2.16.840.1.113883.10.12.152 CDA Person (2005-09-07) The name(s) SHALL be given.	
└ @classCode		0 ... 1	F	PSN	

└ @determinerCode			0 ... 1	F	INSTANCE		
└ h17:name	PN		1 ... 1	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└ h17:assignedAuthoring Device			0 ... 1	C		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└ @classCode	CS		0 ... 1	F	DEV		
└ @determinerCode	CS		0 ... 1	F	INSTANCE		
└ h17:manufacturerModel Name	SC		0 ... 1	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└ h17:softwareName	SC		0 ... 1	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└ h17:code	CE		0 ... 1	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└ h17:representedOrganization			0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
	Example	represented organization for author as a device <pre>                     &lt;representedOrganization classCode="ORG" determinerCode="INSTANCE"&gt;                     &lt;name&gt;                     &lt;!-- ... --&gt;                     &lt;/name&gt;                     </pre>					

				<code>&lt;/representedOrganization&gt;</code>	
<i>Included</i>		<b>0 ... 1</b>		from 2.16.840.1.113883.10.12.151 CDA Organization (2005-09-07) The identifier(s) SHOULD, the name SHALL, the telecom(s) and the address(es) MAY be given.	
	<code>@classCode</code>	<b>0 ... 1</b>	F	ORG	
	<code>@determinerCode</code>	<b>0 ... 1</b>	F	INSTANCE	
	<code>h17:id</code>	<b>II</b>	<b>0 ... 1</b>		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
	<code>h17:name</code>	<b>ON</b>	<b>0 ... 1</b>		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
	<code>h17:telecom</code>	<b>TEL</b>	<b>0 ... 1</b>		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
	<code>h17:addr</code>	<b>AD</b>	<b>0 ... 1</b>		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
	<code>h17:standardIndustryClassCode</code>	<b>CE</b>	<b>0 ... 1</b>	SHALL be chosen from domain OrganizationIndustryClass	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
	<code>h17:asOrganizationPartOf</code>		<b>0 ... 1</b>		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author

<b>L</b> @classCode		0 ... 1	F	PART	
<b>L</b> h17:id	II	0 ... *	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
<b>L</b> h17:code	CE	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
<b>L</b> @codeSystem	CONF	0 ... 1	F	2.16.840.1.113883.5.111 (Role Code)	
<b>L</b> h17:statusCode	CS	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
	CONF	The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15999 <i>RoleStatus</i> (DYNAMIC)			
<b>L</b> h17:effectiveTime	IVL_TS	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
<b>L</b> h17:wholeOrganization		0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
<b>L</b> @classCode		0 ... 1	F	ORG	
<b>L</b> @determinerCode		0 ... 1	F	INSTANCE	
<b>L</b> h17:id	II	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author

└─ h17:name	ON	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:telecom	TEL	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:addr	AD	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:standard IndustryClass Code	CE	0 ... 1		SHALL be chosen from domain OrganizationIndustryClass	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:entry		0 ... 1	C	Source: PaLM Suppl. APSR 2.0-3: 6.2.5.4 Contains 1.3.6.1.4.1.19376.1.3.10.4.5 <i>Update Information Organizer</i> (2017-11-14 15:22:14)	PaLM Suppl. 2.1-3: 6.3.3.6 Diagnostic conclusion section
where [h17:organizer]					
└─ @typeCode	cs	1 ... 1	F	COMP	
└─ @contextConductionInd	bl	0 ... 1	F	true	
	Constraint	if ClinicalDocument.versionNumber > 1			
└─ h17:entry		1 ... *	M	Source: PaLM Suppl. APSR 2.0-3: 6.2.5.2 Contains 1.3.6.1.4.1.19376.1.8.1.3.6 <i>Problem Organizer</i> (2015-08-13 10:24:55)	PaLM Suppl. 2.1-3: 6.3.3.6

					Diagnostic conclusion section
where [not(@nullFlavor)] [hl7:organizer]					
└ @typeCode	cs	1 ... 1	F	COMP	
└ @contextConductionInd	bl	0 ... 1	F	true	

### 6.3.3.7 <Procedure Steps> - Section Content Module - 1.3.6.1.4.1.19376.1.8.1.2.6

#### 6.3.3.7.1 Definition and Purpose

The Procedure steps section contains the description of tissue sampling and dissection: representative specimens and derived specimens dissected for other ancillary procedures (flow cytometry, cytogenetics, molecular studies, electron microscopy, etc.) or biorepository. The only entry for this section is the Specimen Procedure Steps Entry module.










#### 6.3.3.7.2 Specification and Example

<b>Id</b>	1.3.6.1.4.1.19376.1.8.1.2.6	<b>Effective Date</b>	2014-05-13 19:33:12
<b>Status</b>	 Draft	<b>Version Label</b>	2.0
<b>Name</b>	ProcedureStepsSection	<b>Display Name</b>	Procedure Steps Section

#### Description

The Procedure steps section contains the description of tissue dissection: representative specimens and derived specimens dissected for other ancillary procedures (flow cytometry, cytogenetics, molecular studies, electron microscopy, etc.) or biorepository.

<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.8.1.2.6
<b>Label</b>	PaLM Suppl. 2.1-3: 6.3.3.7 Procedure steps section




<b>Classification</b>	CDA Section Level Template												
<b>Open/Closed</b>	Open (other than defined elements are allowed)												
<b>Associated with</b>	<p>Associated with 1 concept</p> <table border="1"> <thead> <tr> <th style="background-color: #e0e0e0;">Id</th> <th style="background-color: #e0e0e0;">Name</th> <th style="background-color: #e0e0e0;">Data Set</th> </tr> </thead> <tbody> <tr> <td>psr-dataelement-23</td> <td> Procedure</td> <td> APSR 2.0</td> </tr> </tbody> </table>	Id	Name	Data Set	psr-dataelement-23	 Procedure	 APSR 2.0						
Id	Name	Data Set											
psr-dataelement-23	 Procedure	 APSR 2.0											
<b>Uses</b>	<p>Uses 2 templates</p> <table border="1"> <thead> <tr> <th style="background-color: #e0e0e0;">Uses</th> <th style="background-color: #e0e0e0;">as</th> <th style="background-color: #e0e0e0;">Name</th> <th style="background-color: #e0e0e0;">Version</th> </tr> </thead> <tbody> <tr> <td>1.3.6.1.4.1.19376.1.8.1.4.2</td> <td>Include</td> <td> Author (2.0)</td> <td>2016-06-21 14:02:11</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.3.10.4.1</td> <td>Containment</td> <td> Specimen Procedure Step (2.0)</td> <td>2016-07-08 13:20:59</td> </tr> </tbody> </table>	Uses	as	Name	Version	1.3.6.1.4.1.19376.1.8.1.4.2	Include	 Author (2.0)	2016-06-21 14:02:11	1.3.6.1.4.1.19376.1.3.10.4.1	Containment	 Specimen Procedure Step (2.0)	2016-07-08 13:20:59
Uses	as	Name	Version										
1.3.6.1.4.1.19376.1.8.1.4.2	Include	 Author (2.0)	2016-06-21 14:02:11										
1.3.6.1.4.1.19376.1.3.10.4.1	Containment	 Specimen Procedure Step (2.0)	2016-07-08 13:20:59										
<b>Relationship</b>	Specialization: template 2.16.840.1.113883.10.12.201 (2005-09-07)												
<b>Example</b>	<p>example from use case #1</p> <pre> &lt;section classCode="DOCSECT" moodCode="EVN"&gt;   &lt;templateId root="1.3.6.1.4.1.19376.1.8.1.2.6"/&gt;   &lt;id root="1.3.6.1.4.1.19376.1.8.9" extension="A7102400008"/&gt;   &lt;code code="46059-2" codeSystem="2.16.840.1.113883.6.1" displayName="Special treatments and procedures section"/&gt;   &lt;title&gt;PROCEDURE STEPS SECTION&lt;/title&gt;   &lt;!--list and hierarchy of specimens, parts, blocks and slides. Parts are here a theoretical construction for assigning   gross description observations --&gt;   &lt;text&gt;     RIGHT BREAST FIVE CORES 8-9:00" (ULTRASOUND GUIDED NEEDLE CORE BIOPSY)   &lt;br/&gt;   PARAFFIN BLOCK NUMBER: A1.:FOUR SECTIONS FOR EACH STAIN:   &lt;br/&gt;   &lt;paragraph ID="A7102400008"&gt;RIGHT BREAST FIVE CORES 8-9:00&lt;/paragraph&gt;   &lt;paragraph ID="block_A_1"&gt;PARAFFIN BLOCK NUMBER: A1&lt;/paragraph&gt;   &lt;paragraph ID="slide_A_1_HE"&gt;slide from block A1 HE stained&lt;/paragraph&gt;   &lt;paragraph ID="slide_A_1_ER"&gt;slide from block A1 ER   Immunohistochemistry&lt;/paragraph&gt;   &lt;paragraph ID="slide_A_1_PR"&gt;slide from block A1 PR   Immunohistochemistry&lt;/paragraph&gt; </pre>												



```

<paragraph ID="slide_A_1_EGFR">slide from block A1 EGFR (PharmDX)
Immunohistochemistry</paragraph>
<paragraph ID="slide_A_1_HER2">slide from block A1 HER2
Immunohistochemistry</paragraph>
<paragraph ID="slide_A_1_HER2_FISH">slide block from A1 HER2
FISH</paragraph>
</text>
<entry typeCode="COMP" contextConductionInd="false">
  <!-- template 1.3.6.1.4.1.19376.1.3.10.4.1 'Specimen Procedure Step' (2016-07-08T13:20:59) -->
</entry>
</section>
    
```

Item	DT	Card	Conf	Description	Label
h17:section		0 .. 1	R		PaLM Suppl. 2.1-3: 6.3.3.7 Procedure steps section

 psr-dataelement-23
  Procedure
  APSR 2.0

 @classCode      cs      0 .. 1      F      DOCSECT

 @moodCode      cs      0 .. 1      F      EVN

Constraint	This section SHALL contain a code element populated with these attributes:  @code="46059-2"  @codeSystem="2.16.840.1.113883.6.1"  @displayName="Special treatments and procedures section"
------------	--

					<p>This section SHALL contain a narrative block, represented by a text element, which renders the information to the human reader.</p> <p>This section SHOULD contain <i>author</i> elements in case the authors of this section differ from those declared at a higher level in the document.</p> <p>The section SHOULD contain as many Specimen Procedure Steps entry elements as there are procedure steps or groups thereof to be described. These entries provide the machine-readable data corresponding to the narrative block.</p>
└ h17:templateId	II	1 ... 1	M		PaLM Suppl. 2.1-3: 6.3.3.7 Procedure steps section
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.8.1.2.6	
└ h17:code	CE	1 ... 1	M		PaLM Suppl. 2.1-3: 6.3.3.7 Procedure steps section
└ @code	CONF	1 ... 1	F	46059-2	
└ @codeSystem		1 ... 1	F	2.16.840.1.113883.6.1 (LOINC)	
└ @codeSystemName		1 ... 1	F	LOINC	
└ @displayName		1 ... 1	F	Special treatments and procedures section	

<p>h17:title</p>	<p>ST</p>	<p>1 ... 1</p>	<p>R</p>	<p>The Procedure Steps Section&lt;title&gt; SHALL be present. It is the local translation of the code@displayName</p>	<p>PaLM Suppl. 2.1-3: 6.3.3.7 Procedure steps section</p>
<p>h17:text</p>	<p>SD.TEXT</p>	<p>1 ... 1</p>	<p>M</p>		<p>PaLM Suppl. 2.1-3: 6.3.3.7 Procedure steps section</p>
	<p>Example</p>	<pre> example for use case#1 &lt;text&gt;   RIGHT BREAST FIVE CORES 8-9:00" (ULTRASOUND GUIDED NEEDLE CORE   BIOPSY) &lt;br/&gt;   PARAFFIN BLOCK NUMBER: A1.:FOUR SECTIONS FOR EACH STAIN: &lt;br/&gt; &lt;paragraph ID="A7102400008"&gt;RIGHT BREAST FIVE CORES 8-9:00&lt;/paragraph&gt; &lt;paragraph ID="block_A_1"&gt;PARAFFIN BLOCK NUMBER: A1&lt;/paragraph&gt; &lt;paragraph ID="slide_A_1_HE"&gt;slide from block A1 HE stained&lt;/paragraph&gt; &lt;paragraph ID="slide_A_1_ER"&gt;slide from block A1 ER Immunohistochemistry&lt;/paragraph&gt; &lt;paragraph ID="slide_A_1_PR"&gt;slide from block A1 PR Immunohistochemistry&lt;/paragraph&gt; &lt;paragraph ID="slide_A_1_EGFR"&gt;slide from block A1 EGFR (PharmDX) Immunohistochemistry&lt;/paragraph&gt; &lt;paragraph ID="slide_A_1_HER2"&gt;slide from block A1 HER2 Immunohistochemistry&lt;/paragraph&gt; &lt;paragraph ID="slide_A_1_HER2_FISH"&gt;slide block from A1 HER2 FISH&lt;/paragraph&gt; &lt;/text&gt; </pre>			
<p>Included</p>		<p>0 ... *</p>	<p>C</p>	<p>from 1.3.6.1.4.1.19376.1.8.1.4.2 Author (2016-06-21 14:02:11) Author Source: PaLM Suppl.APSR 2.0-3:6.3.6.2</p>	
<p>h17:author</p>		<p>0 ... *</p>	<p>C</p>		<p>PaLM Suppl.APSR 2.0-3:6.3.5.1 Author</p>
<p>  psr-dataelement-4          Pathologist          APSR 2.0       </p>					

		psr-dataelement-79	Device	APSR 2.0
@typeCode	cs	1 ... 1	F	AUT
Example	author is a person <pre>                     &lt;author typeCode="AUT" contextControlCode="OP"&gt;                     &lt;time value="201306101654"/&gt;                     &lt;assignedAuthor classCode="ASSIGNED"&gt;                     &lt;!-- ... --&gt;                     &lt;/assignedAuthor&gt;                     &lt;/author&gt;                     </pre>			
h17:templateId		1 ... 1	M	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
@root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.8.1.4.2
h17:time	TS	1 ... 1	M	The authoring time is the date & time that this author contributed to the document. It SHALL be provided.  PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
h17:assignedAuthor		0 ... 1	C	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
@classCode	cs	0 ... 1	F	ASSIGNED
h17:id	II	1 ... *	M	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
h17:addr	AD	1 ... *	M	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author

		psr-dataelement-18	Address	APSR 2.0
h17:telecom	TEL	1 ... *	M	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
Choice		1 ... 1		The author is either an assigned person or an authoring device. Elements to choose from: <ul style="list-style-type: none"> <li>h17:assignedPerson</li> <li>h17:assignedAuthoringDevice</li> </ul>
h17:assignedPerson		0 ... 1	C	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
		psr-dataelement-5	Name	APSR 2.0
Included		1 ... 1	R	from 2.16.840.1.113883.10.12.152 CDA Person (2005-09-07) The name(s) SHALL be given.
@classCode		0 ... 1	F	PSN
@determinerCode		0 ... 1	F	INSTANCE
h17:name	PN	1 ... 1	R	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
h17:assignedAuthoringDevice		0 ... 1	C	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
@classCode	CS	0 ... 1	F	DEV

 @determinerCode	CS	0 ... 1	F	INSTANCE		
 h17:manufacturerModelName	SC	0 ... 1	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
 h17:softwareName	SC	0 ... 1	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
 h17:code	CE	0 ... 1	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
 h17:representedOrganization		0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
	Example	<pre> represented organization for author as a device &lt;representedOrganization classCode="ORG" determinerCode="INSTANCE"&gt;   &lt;name&gt;     &lt;!-- ... --&gt;   &lt;/name&gt; &lt;/representedOrganization&gt;                     </pre>				
Included		0 ... 1		from 2.16.840.1.113883.10.12.151 CDA Organization (2005-09-07) The identifier(s) SHOULD, the name SHALL, the telecom(s) and the address(es) MAY be given.		
 @classCode		0 ... 1	F	ORG		
 @determinerCode		0 ... 1	F	INSTANCE		
 h17:id	II	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	

└ h17:name	ON	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:telecom	TEL	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:addr	AD	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:standardIndustryClass Code	CE	0 ... 1		SHALL be chosen from domain OrganizationIndustryClass	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:asOrganizationPartOf		0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ @classCode		0 ... 1	F	PART	
└ h17:id	II	0 ... *	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:code	CE	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ @codeSystem	CONF	0 ... 1	F	2.16.840.1.113883.5.111 (Role Code)	

└ h17:statusCode	CS	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
	CONF	The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15999 <i>RoleStatus</i> (DYNAMIC)			
└ h17:effectiveTime	IVL_TS	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:wholeOrganization		0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ @classCode		0 ... 1	F	ORG	
└ @determinerCode		0 ... 1	F	INSTANCE	
└ h17:id	II	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:name	ON	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:telecom	TEL	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:addr	AD	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author



L h17:standard IndustryClass Code	CE	0 ... 1		SHALL be chosen from domain OrganizationIndustryClass	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
L h17:entry		0 ... *	R	Specimen procedure steps  Source: PaLM Suppl.APSR 2.0-3:6.2.5.3 Contains 1.3.6.1.4.1.19376.1.3.10.4.1 <i>Specimen Procedure Step</i> (2016-07-08 13:20:59)	PaLM Suppl. 2.1-3: 6.3.3.7 Procedure steps section
where [h17:procedure [h17:code [concat(@code, @codeSystem) = doc('include/voc-1.3.6.1.4.1.19376.1.3.11.10-2016-05-31T150959.xml')//valueSet [1]/conceptList/concept/concat(@code, @codeSystem)]]]					
L @typeCode	cs	1 ... 1	F	COMP	
L @contextConductionInd	bl	0 ... 1			

### 6.3.4 CDA Entry Content Modules

#### 6.3.4.1 Common Specification for all APSR Entry Content Modules

The unique <entry> Content Module available in all the sections except Procedure Steps <section> of the APSR template is the Problem Organizer <entry>.

The unique <entry> Content Module available in Procedure Steps <section> of the APSR template is Specimen Procedure Step <entry>.

The Update Information Organizer <entry> Content Module is only available in Diagnostic Conclusion <section> of the APSR template.

Each <entry> Content Module carries machine-readable data related to one Problem on one specimen or on a group of specimens observed for this section.

Each <entry> Content Module is repeatable below its section, so as to support the use cases where a section reports on more than one problem on one specimen or one group of specimens.

### 6.3.4.2 <Problem Organizer> - Entry Content Module – 1.3.6.1.4.1.19376.1.8.1.3.6

#### 6.3.4.2.1 Definition and purpose

This Content Module is usable as only <entry> within any Section module except Procedure steps <section>.

The problem organizer groups the battery of observations together with embedded images performed to investigate on a single problem identified on a specimen or on a group of specimens. If a Problem cannot be addressed specifically the Problem organizer allows also the grouping around one specimen. The problem type is coded by using a component with a generic CDA observation, not to confuse with the series of AP and other observations organized by this Organizer content module.

#### 6.3.4.2.2 Specification and Example

<b>Id</b>	1.3.6.1.4.1.19376.1.8.1.3.6	<b>Effective Date</b>	2015-08-13 10:24:55
<b>Status</b>	 Draft	<b>Version Label</b>	2.0
<b>Name</b>	ProblemOrganizer	<b>Display Name</b>	Problem Organizer

##### Description

Template CDA Organizer (prototype, directly derived from POCD\_RM000040 MIF)

The problem organizer groups the various observations performed and associated images to investigate on a single problem identified on one or more specimens

<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.8.1.3.6
<b>Label</b>	PaLM Suppl. 2.1-3: 6.3.4.2 Problem organizer
<b>Classification</b>	CDA Entry Level Template
<b>Open/Closed</b>	Open (other than defined elements are allowed)
<b>Associated with</b>	Associated with 2 concepts





	<table border="1"> <thead> <tr> <th data-bbox="674 193 936 236">Id</th> <th data-bbox="943 193 1765 236">Name</th> <th data-bbox="1771 193 2045 236">Data Set</th> </tr> </thead> <tbody> <tr> <td data-bbox="674 240 936 284">psr-dataelement-39</td> <td data-bbox="943 240 1765 284">● Problem Organizer</td> <td data-bbox="1771 240 2045 284">● APSR 2.0</td> </tr> <tr> <td data-bbox="674 288 936 331">psr-dataelement-86</td> <td data-bbox="943 288 1765 331">● Problem ID</td> <td data-bbox="1771 288 2045 331">● APSR 2.0</td> </tr> </tbody> </table>	Id	Name	Data Set	psr-dataelement-39	● Problem Organizer	● APSR 2.0	psr-dataelement-86	● Problem ID	● APSR 2.0																																							
Id	Name	Data Set																																															
psr-dataelement-39	● Problem Organizer	● APSR 2.0																																															
psr-dataelement-86	● Problem ID	● APSR 2.0																																															
<p><b>Uses</b></p>	<p>Uses 11 templates</p>																																																
	<table border="1"> <thead> <tr> <th data-bbox="674 453 1003 496">Uses</th> <th data-bbox="1010 453 1160 496">as</th> <th data-bbox="1167 453 1832 496">Name</th> <th data-bbox="1839 453 2045 496">Version</th> </tr> </thead> <tbody> <tr> <td data-bbox="674 517 1003 560">1.3.6.1.4.1.19376.1.8.1.4.2</td> <td data-bbox="1010 517 1160 560">Containment</td> <td data-bbox="1167 517 1832 560">● Author (2.0)</td> <td data-bbox="1839 517 2045 560">2016-06-21 14:02:11</td> </tr> <tr> <td data-bbox="674 596 1003 639">1.3.6.1.4.1.19376.1.8.1.4.6</td> <td data-bbox="1010 596 1160 639">Containment</td> <td data-bbox="1167 596 1832 639">● Informant (2.0)</td> <td data-bbox="1839 596 2045 639">2016-07-08 11:22:58</td> </tr> <tr> <td data-bbox="674 676 1003 719">1.3.6.1.4.1.19376.1.8.1.4.7</td> <td data-bbox="1010 676 1160 719">Containment</td> <td data-bbox="1167 676 1832 719">● Additional participant in an entry (2.0)</td> <td data-bbox="1839 676 2045 719">2016-07-12 18:44:06</td> </tr> <tr> <td data-bbox="674 740 1003 783">1.3.6.1.4.1.19376.1.3.3.1.7</td> <td data-bbox="1010 740 1160 783">Containment</td> <td data-bbox="1167 740 1832 783">● Laboratory Performer (2017)</td> <td data-bbox="1839 740 2045 783">2008-08-08</td> </tr> <tr> <td data-bbox="674 804 1003 847">1.3.6.1.4.1.19376.1.3.10.9.1</td> <td data-bbox="1010 804 1160 847">Include</td> <td data-bbox="1167 804 1832 847">● X Specimen Identified (2.0)</td> <td data-bbox="1839 804 2045 847">2014-12-22 15:54:30</td> </tr> <tr> <td data-bbox="674 884 1003 927">1.3.6.1.4.1.19376.1.8.1.4.9</td> <td data-bbox="1010 884 1160 927">Containment</td> <td data-bbox="1167 884 1832 927">● AP Observation Entry (2.0)</td> <td data-bbox="1839 884 2045 927">2014-05-14 17:09:54</td> </tr> <tr> <td data-bbox="674 948 1003 991">1.3.6.1.4.1.19376.1.3.1.6</td> <td data-bbox="1010 948 1160 991">Containment</td> <td data-bbox="1167 948 1832 991">● Laboratory Observation (2017)</td> <td data-bbox="1839 948 2045 991">2008-08-08</td> </tr> <tr> <td data-bbox="674 1011 1003 1054">1.3.6.1.4.1.19376.1.8.1.4.10</td> <td data-bbox="1010 1011 1160 1054">Containment</td> <td data-bbox="1167 1011 1832 1054">● Embedded Image</td> <td data-bbox="1839 1011 2045 1054">2016-06-22 16:08:01</td> </tr> <tr> <td data-bbox="674 1075 1003 1118">2.16.840.1.113883.10.12.307</td> <td data-bbox="1010 1075 1160 1118">Containment</td> <td data-bbox="1167 1075 1832 1118">● CDA RegionOfInterest</td> <td data-bbox="1839 1075 2045 1118">2005-09-07</td> </tr> <tr> <td data-bbox="674 1139 1003 1182">1.3.6.1.4.1.19376.1.5.3.1.4.2</td> <td data-bbox="1010 1139 1160 1182">Containment</td> <td data-bbox="1167 1139 1832 1182">● IHE Comment Entry (2014)</td> <td data-bbox="1839 1139 2045 1182">2013-12-20</td> </tr> <tr> <td data-bbox="674 1203 1003 1246">2.16.840.1.113883.10.12.324</td> <td data-bbox="1010 1203 1160 1246">Containment</td> <td data-bbox="1167 1203 1832 1246">● CDA Reference</td> <td data-bbox="1839 1203 2045 1246">2005-09-07</td> </tr> </tbody> </table>	Uses	as	Name	Version	1.3.6.1.4.1.19376.1.8.1.4.2	Containment	● Author (2.0)	2016-06-21 14:02:11	1.3.6.1.4.1.19376.1.8.1.4.6	Containment	● Informant (2.0)	2016-07-08 11:22:58	1.3.6.1.4.1.19376.1.8.1.4.7	Containment	● Additional participant in an entry (2.0)	2016-07-12 18:44:06	1.3.6.1.4.1.19376.1.3.3.1.7	Containment	● Laboratory Performer (2017)	2008-08-08	1.3.6.1.4.1.19376.1.3.10.9.1	Include	● X Specimen Identified (2.0)	2014-12-22 15:54:30	1.3.6.1.4.1.19376.1.8.1.4.9	Containment	● AP Observation Entry (2.0)	2014-05-14 17:09:54	1.3.6.1.4.1.19376.1.3.1.6	Containment	● Laboratory Observation (2017)	2008-08-08	1.3.6.1.4.1.19376.1.8.1.4.10	Containment	● Embedded Image	2016-06-22 16:08:01	2.16.840.1.113883.10.12.307	Containment	● CDA RegionOfInterest	2005-09-07	1.3.6.1.4.1.19376.1.5.3.1.4.2	Containment	● IHE Comment Entry (2014)	2013-12-20	2.16.840.1.113883.10.12.324	Containment	● CDA Reference	2005-09-07
	Uses	as	Name	Version																																													
	1.3.6.1.4.1.19376.1.8.1.4.2	Containment	● Author (2.0)	2016-06-21 14:02:11																																													
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2.16.840.1.113883.10.12.324	Containment	● CDA Reference	2005-09-07																																														
<p><b>Relationship</b></p>	<p>Specialization: template 2.16.840.1.113883.10.12.305 (2005-09-07)</p>																																																
<p><b>Example</b></p>	<p>generated example</p>																																																

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<organizer classCode="BATTERY" moodCode="EVN">
  <templateId root="1.3.6.1.4.1.19376.1.8.1.3.6"/>
  <id root="1.2.3.999" extension="--example only--"/>
  <code code="75326-9" codeSystem="2.16.840.1.113883.6.1" displayName="Problem">
    <qualifier>
      <name code="116677004" codeSystem="2.16.840.1.113883.6.96" displayName=" Associated topography (attribute)"/>
      <value nullFlavor="cs" code="all children of "362981000" codeSystem="2.16.840.1.113883.6.96" displayName="all values from 91723000 (Anatomical structure)"/>
    </qualifier>
  </code>
  <component typeCode="COMP">
    <observation>
      <code code="75326-9" codeSystem="2.16.840.1.113883.6.1" displayName="Problem">
        <value code="115597007" displayName="Description of specimen character (procedure)"
codeSystem="2.16.840.1.113883.6.96"/>
      </code>
    </observation>
  </component>
  <statusCode code="completed"/>
  <effectiveTime>
    <low value="20170131165954"/>
  </effectiveTime>
  <author>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author IHE' (2016-06-21T14:02:11) -->
  </author>
  <informant>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant(Header&Body) APSR2' (2016-07-08T11:22:58) -->
  </informant>
  <participant>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.7 'Additional participant in an entry APSR (Body)' (2016-07-12T18:44:06) -->
  </participant>
  <performer>
    <!-- template 1.3.6.1.4.1.19376.1.3.3.1.7 'Laboratory Performer' (2008-08-08T00:00:00) -->
  </performer>
  <!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (2014-12-22T15:54:30) 0..* R -->
  <component typeCode="COMP" contextConductionInd="true">
    <sequenceNumber value="1"/>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.10 'Embedded Image IHE' (2016-06-22T16:08:01) -->
  </component>
  <component typeCode="COMP" contextConductionInd="true">
    <sequenceNumber value="1"/>
    <!-- template 2.16.840.1.113883.10.12.307 'CDA RegionOfInterest' (2005-09-07T00:00:00) -->
  </component>
  <component typeCode="COMP" contextConductionInd="true">
    <sequenceNumber value="1"/>
    <!-- template 1.3.6.1.4.1.19376.1.5.3.1.4.2 'IHE Comment Entry' (2013-12-20T00:00:00) -->
  </component>
  <component typeCode="COMP" contextConductionInd="true">
    <sequenceNumber value="1"/>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.9 'AP Observation Entry' (2014-05-14T17:09:54) -->
  </component>
  <component typeCode="COMP" contextConductionInd="true">
    <sequenceNumber value="1"/>
    <!-- template 1.3.6.1.4.1.19376.1.3.1.6 'Laboratory Observation' (2008-08-08T00:00:00) -->
  </component>

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	<pre> &lt;/component&gt; &lt;reference&gt;   &lt;!-- template 2.16.840.1.113883.10.12.324 'CDA Reference' (2005-09-07T00:00:00) --&gt; &lt;/reference&gt; &lt;/organizer&gt; </pre>
Example	<p>example for use case #1, problem: invasive breast cancer</p> <pre> &lt;organizer classCode="BATTERY" moodCode="EVN"&gt;   &lt;templateId root="1.3.6.1.4.1.19376.1.8.1.3.6"/&gt;   &lt;id root="1.3.6.1.4.1.19376.1.8.9.1" extension="A7102400008_Problem1"/&gt;   &lt;code code="75326-9" codeSystem="2.16.840.1.113883.6.1" displayName="Problem"/&gt;   &lt;statusCode code="completed"/&gt;   &lt;effectiveTime&gt;     &lt;low value="201001041605-0500"/&gt;   &lt;/effectiveTime&gt;   &lt;!--The problem is expressed by the result of the observation having the same code as organizer/code--&gt;   &lt;component&gt;     &lt;observation classCode="OBS" moodCode="EVN"&gt;       &lt;code code="75326-9" codeSystem="2.16.840.1.113883.6.1" displayName="Problem"/&gt;       &lt;value code="C50.9" codeSystem="2.16.840.1.113883.6.3" displayName="Malignant neoplasm of breast, unspecified" codeSystemDisplayName="ICD-10"/&gt;     &lt;/observation&gt;   &lt;/component&gt;   &lt;component typeCode="COMP" contextConductionInd="true"&gt;     &lt;sequenceNumber value="1"/&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.8.1.4.9 'AP Observation Entry' (2014-05-14T17:09:54) --&gt;   &lt;/component&gt;   &lt;reference&gt;     &lt;!-- template 2.16.840.1.113883.10.12.324 'CDA Reference' (2005-09-07T00:00:00) --&gt;   &lt;/reference&gt; &lt;/organizer&gt; </pre>

Item	DT	Card	Conf	Description	Label
hl7:organizer		0 ... *	R	Problem organizer groups the observations and images investigating a single problem related to one or more specimens	PaLM Suppl. 2.1-3: 6.3.4.2 Problem organizer
 psr-dataelement-39  Problem Organizer  APSR 2.0					
 @classCode	CS	1 ... 1	F	BATTERY	

└ @moodCode	CS	1 ... 1	F	EVN	
└ h17:templateId	II	1 ... 1	M		PaLM Suppl. 2.1-3: 6.3.4.2 Problem organizer
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.8.1.3.6	
└ h17:id	II	0 ... *	R		PaLM Suppl. 2.1-3: 6.3.4.2 Problem organizer
		🎯 psr-dataelement-86	🟡 Problem ID	🟡 APSR 2.0	
└ h17:code	CD (required)	0 ... 1	R	Problem	PaLM Suppl. 2.1-3: 6.3.4.2 Problem organizer
└ @code	CONF	0 ... 1	F	75326-9	
└ @codeSystem		0 ... 1	F	2.16.840.1.113883.6.1 (LOINC)	
└ @codeSystemName		0 ... 1	F	LOINC	
└ @displayName		0 ... 1	F	Problem	
└ h17:statusCode	CS (required)	1 ... 1	M	The status of the organizer is "completed" if the battery of observations for this problem has been performed. It is "aborted" in case some of the	PaLM Suppl.

				intended observations could not be achieved and have been aborted, and appear as such below the organizer.	2.1-3: 6.3.4.2 Problem organizer
	Constraint	<p>@code shall be "completed" or @code shall be "aborted"</p>			
	CONF	<p>The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933 <i>ActStatus</i> (2014-03-26)</p>			
└ h17:effectiveTime	IVL_TS	1 ... 1	M	<p>Organizer time. The period of time (possibly reduced to a point in time) during which the information was collected and assembled.</p>	PaLM Suppl. 2.1-3: 6.3.4.2 Problem organizer
└ h17:author		0 ... *	C	<p>Author Source: PaLM Suppl. APSR 2.0-3: 6.3.6.2 Contains 1.3.6.1.4.1.19376.1.8.1.4.2 <i>Author</i> (2016-06-21 14:02:11)</p>	PaLM Suppl. 2.1-3: 6.3.4.2 Problem organizer
where [h17:author]					
	Constraint	<p>The author SHALL be present if it is different from the main author of the report. For instance the author could be the ordering physician contributing to the Clinical Information section, inside a report authored by the pathologist.</p>			
└ h17:informant		0 ... *	R	<p>Informant The informant is an actor (person and organization) who provided some of the clinical information carried by this organizer.</p>	PaLM Suppl. 2.1-3: 6.3.4.2 Problem organizer

				Source: PaLM Suppl. APSR 2.0-3: 6.3.6.5 Contains 1.3.6.1.4.1.19376.1.8.1.4.6 <i>Informant</i> (2016-07-08 11:22:58)	
└ h17:participant		0 ... *	R	Transcriptionist, Device, Responsible, Validator Source: PaLM Suppl. APSR 2.0-3: 6.3.6.6 Contains 1.3.6.1.4.1.19376.1.8.1.4.7 <i>Additional participant in an entry</i> (2016-07-12 18:44:06)	PaLM Suppl. 2.1-3: 6.3.4.2 Problem organizer
where [h17:participantRole]					
	Constraint	participationType "ENT", "DEV", "RESP", "AUTHEN"			
└ h17:performer		0 ... 1	C	Performing lab. The performing laboratory is present at this level only if this particular problem on this particular specimen was investigated by a (subcontractor) distinct laboratory from the one issuing the consolidated report Source: PaLM TF-3: 6.3.2.20 Contains 1.3.6.1.4.1.19376.1.3.3.1.7 <i>Laboratory Performer</i> (2008-08-08)	PaLM Suppl. 2.1-3: 6.3.4.2 Problem organizer
where [h17:assignedEntity]					
Included		0 ... *	R	from 1.3.6.1.4.1.19376.1.3.10.9.1 X <i>Specimen Identified</i> (2014-12-22 15:54:30) Specimen identification outside an AP observation for differentiating or restituting the problem type Source: PaLM Suppl. APSR 2.0-3: 6.3.6.9	
└ h17:specimen		0 ... *	R	Required in XD-LAB when more than one specimen is documented at this level. Always required in APSR.	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified



		 psr-dataelement-17  Specimen identification  APSR 2.0			
└ @typeCode	CS	0 ... 1	F	SPC	
└ h17:specimenRole		1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
└ @classCode	CS	0 ... 1	F	SPEC	
└ h17:id	II	1 ... 1	R	Specimen ID, coming from the LIS	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
		 psr-dataelement-95  Parent ID  APSR 2.0  psr-dataelement-67  Block ID  APSR 2.0  psr-dataelement-66  Part ID  APSR 2.0  psr-dataelement-98  Specimen ID  APSR 2.0  psr-dataelement-68  Tissue section ID  APSR 2.0			
└ h17:component		0 ... 1	R	Coding of the Problem reported	PaLM Suppl. 2.1-3: 6.3.4.2 Problem organizer
└ @typeCode	CS	1 ... 1	F	COMP	


L h17:observation		0 ... 1	R		PaLM Suppl. 2.1-3: 6.3.4.2 Problem organizer
L h17:code	CD (extensible)	1 ... 1	R		PaLM Suppl. 2.1-3: 6.3.4.2 Problem organizer
L @code L @codeSystem L @codeSystemName L @displayName	CONF	0 ... 1	F	75326-9 2.16.840.1.113883.6.1 (LOINC) LOINC Problem	
L h17:qualifier	CR	0 ... *	R	Optional qualifier for separate problems with identical problem type in one specimen, e.g. a urothelial bladder cancer (Invasive cancer) and a prostate cancer (invasive cancer) in one cystoprostatectomy specimen. The anatomic structure is able to differentiate.	PaLM Suppl. 2.1-3: 6.3.4.2 Problem organizer
	Example	Problem in urinary bladder in cystoprostatectomy specimen <pre> &lt;qualifier&gt;   &lt;name code="116677004" codeSystem="2.16.840.1.113883.6.96" displayName="Associated topography (attribute)" codeSystemName="SNOMED-CT"/&gt;   &lt;value code="302512001" codeSystem="2.16.840.1.113883.6.96" displayName="Entire urinary bladder (body structure)" codeSystemName="SNOMED-CT"/&gt; &lt;/qualifier&gt;                 </pre>			
L h17:name	CV	0 ... 1	R		PaLM Suppl. 2.1-3:

					6.3.4.2 Problem organizer	
└ @code	cs	1 ... 1	F	116677004		
└ @codeSystem	oid	1 ... 1	F	2.16.840.1.113883.6.96		
└ @displayName	st	1 ... 1	F	Associated topography (attribute)		
└ h17:value	CD (extensible)	0 ... *	R		PaLM Suppl. 2.1-3: 6.3.4.2 Problem organizer	
└ @code	CONF	0 ... 1	F	<< 91723000		
└ @codeSystem		0 ... 1	F	2.16.840.1.113883.6.96 (Snomed-CT)		
└ @codeSystemName		0 ... 1	F	SNOMED-CT		
└ @displayName		0 ... 1	F	all values from Anatomical structure		
└ h17:value	CE (extensible)	0 ... 1	R	Code of the problem reported	PaLM Suppl. 2.1-3: 6.3.4.2 Problem organizer	
	CONF	@code shall be "any_code" @codeSystem shall be "2.16.840.1.113883.6.3" @codeSystemName shall be "any_code" @displayName shall be "ICD-10"				

				or The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.7 <i>Problem Type</i> (2016-07-11 09:52:19)	
└ h17:component		0 ... *	R	Any kind of AP observation, for complex observations, e.g. for TNM, ICD-O-3, or Assessment scales, the appropriate templates may be used. Source: PaLM Suppl. APSR 2.0-3: 6.3.6.7 Contains 1.3.6.1.4.1.19376.1.8.1.4.9 <i>AP Observation Entry</i> (2014-05-14 17:09:54)	PaLM Suppl. 2.1-3: 6.3.4.2 Problem organizer
where [h17:observation [h17:code [(@code = 'each_code_for_observable_entities_or_a_specific_procedure' and @codeSystem = '2.16.840.1.113883.6.1')]]]					
└ @typeCode	cs	1 ... 1	F	COMP	
└ @contextConductionInd	bl	0 ... 1	F	true	
└ h17:sequenceNumber	INT	0 ... 1			PaLM Suppl. 2.1-3: 6.3.4.2 Problem organizer
└ h17:component		0 ... *	C	Laboratory observation Contains 1.3.6.1.4.1.19376.1.3.1.6 <i>Laboratory Observation</i> (2008-08-08)	PaLM Suppl. 2.1-3: 6.3.4.2 Problem organizer
where [h17:observation]					
└ @typeCode	cs	1 ... 1	F	COMP	
└ @contextConductionInd	bl	0 ... 1	F	true	

└ h17:sequenceNumber	INT	0 ... 1			PaLM Suppl. 2.1-3: 6.3.4.2 Problem organizer
└ h17:component		0 ... *	R	<p>Embedded image</p> <p>This organizer may carry an image focusing on the problem, either directly embedded or encapsulated within a region of interest.</p> <p>Contains 1.3.6.1.4.1.19376.1.8.1.4.10 <i>Embedded Image</i> (2016-06-22 16:08:01)</p>	PaLM Suppl. 2.1-3: 6.3.4.2 Problem organizer
where [h17:observationMedia]					
└ @typeCode	CS	0 ... 1	F	COMP	
└ @contextConductionInd	bl	0 ... 1	F	true	
	Constraint	[@classCode="ROIOVL" and moodCode="EVN"]			
└ h17:sequenceNumber	INT	0 ... 1			PaLM Suppl. 2.1-3: 6.3.4.2 Problem organizer
└ h17:component		0 ... *	R	<p>Region of interest</p> <p>This organizer may carry an image focusing on the problem, either directly embedded or encapsulated within a region of interest.</p> <p>In the latter case by an entryRelationship @typeCode="SUBJ"</p>	PaLM Suppl. 2.1-3: 6.3.4.2 Problem organizer

					Contains 2.16.840.1.113883.10.12.307 CDA RegionOfInterest (2005-09-07)	
where [hl7:regionOfInterest [hl7:code [@code = doc('include/voc-2.16.840.1.113883.1.11.16117-DYNAMIC.xml')/valueSet [1]/conceptList*/@code or @nullFlavor]]]						
└ @typeCode	cs	1 ... 1	F	COMP		
└ @contextConductionInd	bl	0 ... 1	F	true		
	Constraint	[@classCode="ROIOVL" and moodCode="EVN"]				
└ hl7:sequenceNumber	INT	0 ... 1				PaLM Suppl. 2.1-3: 6.3.4.2 Problem organizer
└ hl7:component		0 ... *	R	General comment on this particular problem Source: PCC TF-2: 6.3.4.6 Contains 1.3.6.1.4.1.19376.1.5.3.1.4.2 IHE Comment Entry (2013-12-20)		PaLM Suppl. 2.1-3: 6.3.4.2 Problem organizer
where [hl7:act [hl7:code [(@code = '48767-8' and @codeSystem = '2.16.840.1.113883.6.1')]]]						
└ @typeCode	cs	1 ... 1	F	COMP		
└ @contextConductionInd	bl	0 ... 1	F	true		
└ hl7:sequenceNumber	INT	0 ... 1				PaLM Suppl. 2.1-3: 6.3.4.2 Problem organizer

 h17:reference		0 ... *	R	Reference to an external document, or to external organizers, or to external observations, e.g. concerning molecular pathology or genetic testing report  Contains 2.16.840.1.113883.10.12.324 CDA Reference (2005-09-07)	PaLM Suppl. 2.1-3: 6.3.4.2 Problem organizer
---	--	---------	---	---	---

### 6.3.4.3 <Specimen Procedure Step> - Entry Content Module - 1.3.6.1.4.1.19376.1.3.10.4.1

#### 6.3.4.3.1 Definition and purpose

The Specimen Procedure Step <entry> Content Module contains in machine-readable form all the data concerning one specimen or a group of specimens together with its container(s). It is usable within a Procedure Steps <section> Content Module only. This Content Module structures the machine-readable data, which characterize the specimens and the procedures of their collection and processing (identifiers and types, status, time intervals, performers, approach site, target site, etc.).

By referencing the child procedure ID via an entryRelationship the entry is used in an iterative manner for each single step of specimen collection and processing, which results in derived (child) specimen.

The resulting specimen is the participant in the procedure according to the CDA-RIM (fig. 6.2.5.3.2-1) with the typeCode="PRD", and the ParticipantRole.classCode="SPEC". The specimen ID is the ParticipantRole.ID.

Additives to the specimen (e.g., fixatives) MAY be additional participants with the typeCode="CSM" and the ParticipantRole.classCode="ADTV".

Each specimen is put in or on an appropriate container. The container is described through one or more EntryRelationship(s) to one or more Supply whose product is the container and possible container components (see this volume, 6.3.6.4).

The specimen reception in laboratory may be expressed through another EntryRelationship of typeCode "COMP", introducing the "specimen received" Act.

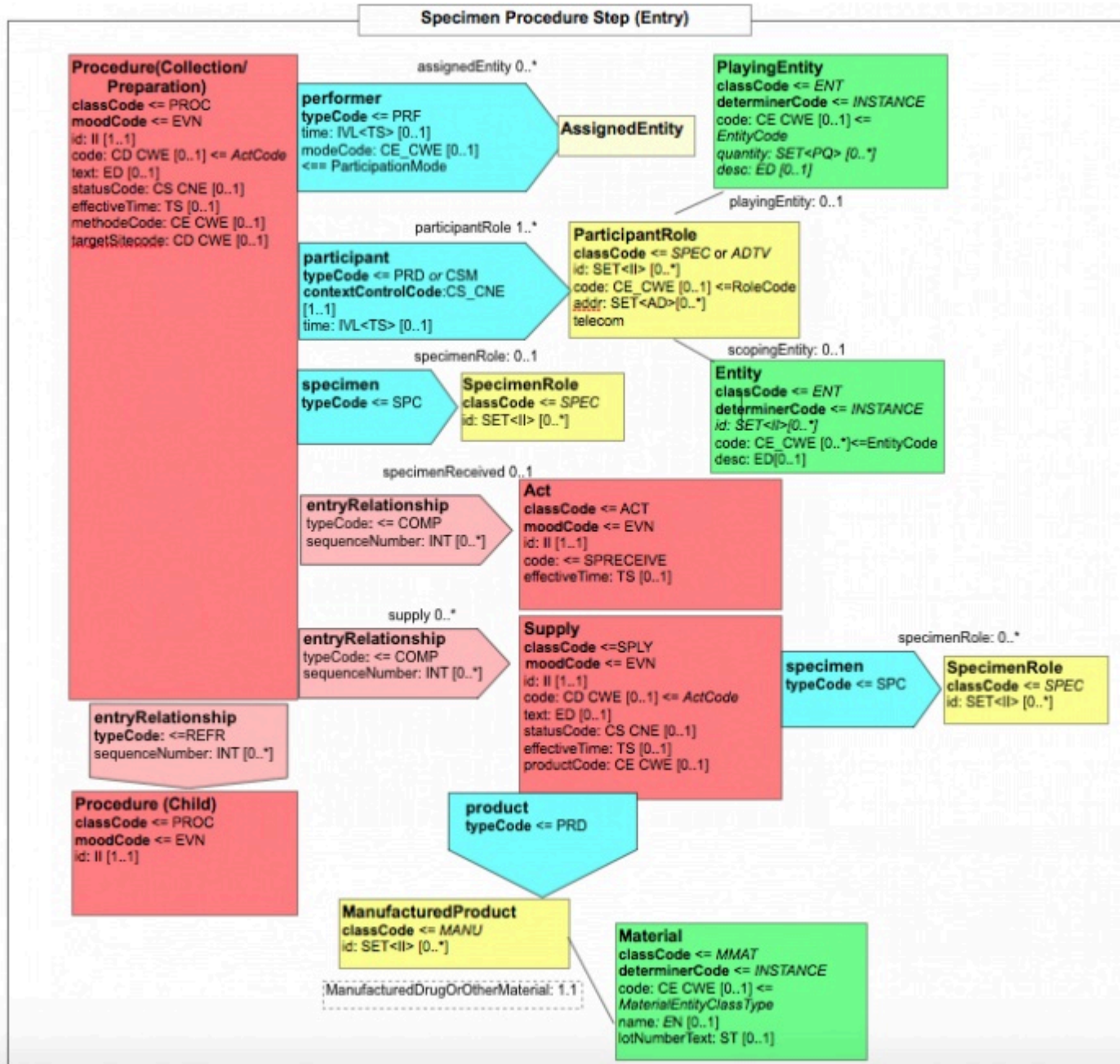
In case the procedure step produces a child specimen, the parent specimen is the specimen on which the procedure is performed. Thus the parent specimen is represented by a Specimen participation to the procedure. In this case, Specimen.SpecimenRole.Id is the id of the parent specimen.

These parent specimens might be multiple, for instance in the case of TMA; therefore, cardinalities of Specimen are [0..\*]

Specimen and their containers carry IDs as well as further attributes, which are defined in the HL7 Specimen DAM <sup>[12]</sup>.








**Figure 6.3.4.3.1-1 CDA-R-MIM of the Specimen Procedure Steps <entry>**

According to the CDA RIM in the Content Module further supporting Content Modules for Participant, and Playing Entity are needed, which have the OIDs 1.3.6.1.4.1.19376.1.3.10.9.44, 1.3.6.1.4.1.19376.1.3.10.9.21).

The Code systems and Value sets MAY be organized organ-specific.

**6.3.4.3.2 Specification and Example**

<b>Id</b>	1.3.6.1.4.1.19376.1.3.10.4.1	<b>Effective Date</b>	2016-07-08 13:20:59 Other versions this id: ▪ <input type="radio"/> SpecimenProcedureStep as of 2014-07-29 16:02:02
<b>Status</b>	 Draft	<b>Version Label</b>	2.0
<b>Name</b>	SpecimenProcedureStep	<b>Display Name</b>	Specimen Procedure Step

**Description**

Template CDA Procedure (prototype, directly derived from POCD\_RM000040 MIF) for Specimen procedure step in APSR 2.

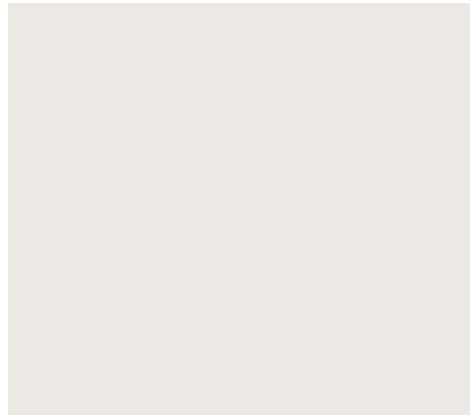
This entry collects all the information of source, method and outcome of a specimen procedure from the collection out of the patient through the final product of a stained histologic section or cytologic smear on a glass slide, or a WSI of such a slide. It reflects the workflow and the probe tracking of a pathology laboratory.

<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.4.1
<b>Label</b>	PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps
<b>Classification</b>	CDA Entry Level Template
<b>Open/Closed</b>	Open (other than defined elements are allowed)

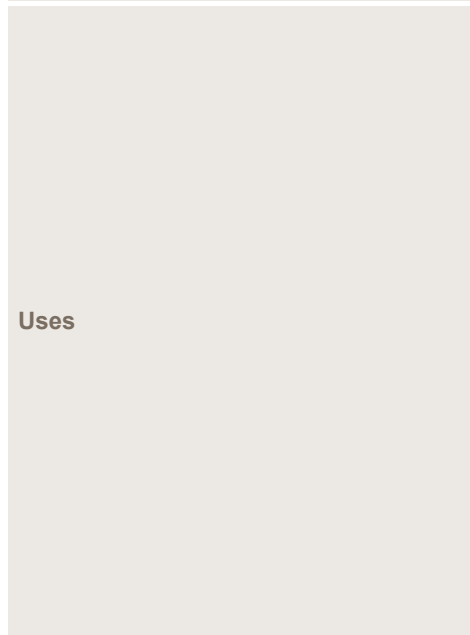
**Associated with**

Associated with 7 concepts

Id	Name	Data Set
----	------	----------

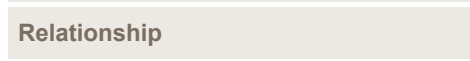


psr-dataelement-24	Specimen collection	APSR 2.0
psr-dataelement-25	Specimen processing	APSR 2.0
psr-dataelement-101	Work order step	APSR 2.0
psr-dataelement-94	Target Site	APSR 2.0
psr-dataelement-90	Requested Procedure	APSR 2.0
psr-dataelement-89	Procedure Step	APSR 2.0
psr-dataelement-87	Procedure ID	APSR 2.0

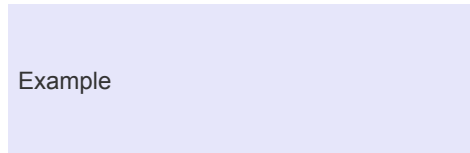


Uses 7 templates

Uses	as	Name	Version
1.3.6.1.4.1.19376.1.3.10.9.1	Include	X Specimen Identified (2.0)	2014-12-22 15:54:30
1.3.6.1.4.1.19376.1.3.3.1.7	Containment	Laboratory Performer (2017)	2008-08-08
1.3.6.1.4.1.19376.1.8.1.4.2	Containment	Author (2.0)	2016-06-21 14:02:11
1.3.6.1.4.1.19376.1.3.10.9.44	Containment	CDA Participant (Body) Procedure Steps APSR2 (2.0)	2014-10-26 17:06:28
1.3.6.1.4.1.19376.1.3.10.9.22	Containment	Specimen Container in Procedure Step (2.0)	2016-07-29 12:09:33
1.3.6.1.4.1.19376.1.3.1.3	Containment	Specimen Received (2017)	2008-08-08
2.16.840.1.113883.10.12.324	Containment	CDA Reference	2005-09-07



Relationship Adaptation: template 2.16.840.1.113883.10.12.306 (2005-09-07)



example for use case #1, Sectioning and ER-Immuno-Staining

```
<procedure negationInd="false" classCode="PROC" moodCode="EVN">
  <templateId root="1.3.6.1.4.1.19376.1.3.10.4.1"/>
</procedure>
```

```


<id root="1.3.6.1.4.1.19376.1.8.9" extension="A7102400008-P4"/>
<code code="117617002" codeSystem="2.16.840.1.113883.6.96" displayName="Immunohistochemistry procedure (procedure)">
  <qualifier>
    <name code="246094008" displayName="Component investigated (attribute)" codeSystem="2.16.840.1.113883.6.96"/>
    <value code="23307004" displayName="Estrogen receptor (substance)" codeSystem="2.16.840.1.113883.6.96"/>
  </qualifier>
</code>
<statusCode code="completed"/>
<effectiveTime>
  <low value="201001030925-0500"/>
</effectiveTime>
<targetSiteCode code="441652008" codeSystem="2.16.840.1.113883.6.96" displayName="Formalin-fixed paraffin-embedded tissue specimen (specimen)"/>
<!-- PARENT SPECIMEN on which the procedure step is performed -->
<specimen typeCode="SPC">
  <specimenRole classCode="SPEC">
    <!-- Parent specimen ID -->
    <id root="1.3.6.1.4.1.19376.1.8.9" extension="A7102400008_block_A_1"/>
  </specimenRole>
</specimen>
<!-- Specimen processor: the lab technician in this case -->
<performer typeCode="PRF">
  <time>
    <low value="201001030925-0500"/>
  </time>
  <modeCode code="PHYSICAL" displayName="physical presence" codeSystem="2.16.840.1.113883.5.1064"/>
  <assignedEntity>
    <id root="1.3.6.1.4.1.19376.1.8.9.3" extension="member#32"/>
    <assignedPerson>
      <name>
        <given>John</given>
        <family>Labtech</family>
      </name>
    </assignedPerson>
  </assignedEntity>
</performer>
<author>
  <!-- template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author IHE' (2016-06-21T14:02:11) -->
</author>
<!--Product of the procedure, i.e. specimen -->
<participant typeCode="PRD" contextControlCode="OP">
  <time>
    <low value="201001030925-0500"/>
  </time>
  <!-- ID of the specimen produced, coming from the LIS -->
  <participantRole classCode="SPEC">
    <id root="1.3.6.1.4.1.19376.1.8.9" extension="A7102400008_slide_A_1_ER"/>
    <code code="P" codeSystem="2.16.840.1.113883.5.111"/>
    <playingEntity classCode="ENT" determinerCode="INSTANCE">
      <code code="TISS" displayName="Tissue, unspecified" codeSystem="2.16.840.1.113883.5.1060"/>
      <quantity value="1"/>
      <desc/>
    </playingEntity>
  </participantRole>

```

```

</participant>
<entryRelationship negationInd="false" typeCode="COMP" inversionInd="false" contextConductionInd="true">
  <sequenceNumber value="1"/>
  <!-- template 1.3.6.1.4.1.19376.1.3.10.9.22 'CDA Supply Container APSR2' (2016-07-29T12:09:33) -->
</entryRelationship>
<entryRelationship typeCode="COMP" inversionInd="false" contextConductionInd="true" negationInd="false">
  <act classCode="ACT" moodCode="EVN" negationInd="false">
    <templateId root="1.3.6.1.4.1.19376.1.3.1.3"/>
    <code code="SPRECEIVE" codeSystem="1.3.5.1.4.1.19376.1.5.3.2" displayName="Specimen received"
codeSystemName="IHEActCode"/>
    <effectiveTime>
      <low value="201001030925-0500"/>
    </effectiveTime>
  </act>
</entryRelationship>
<entryRelationship typeCode="REFR" inversionInd="false" contextConductionInd="true" negationInd="false">
  <seperatableInd value="false"/>
  <procedure classCode="PROC" moodCode="EVN" negationInd="false">
    <!-- ID of the child procedure, coming from LIS -->
    <id root="1.3.6.1.4.1.19376.1.8.9" extension="A7102400008-P5"/>
  </procedure>
</entryRelationship>
</procedure>

```

Item	DT	Card	Conf	Description	Label
h17:procedure		0 ... *	R		PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps
		 psr-dataelement-24 psr-dataelement-25 psr-dataelement-101 psr-dataelement-90		Specimen collection Specimen processing Work order step Requested Procedure	APSR 2.0 APSR 2.0 APSR 2.0 APSR 2.0
@classCode	CS	1 ... 1	F	PROC	
@moodCode	CS	1 ... 1	F	EVN	

L h17:templateId	II	1 ... 1	R		PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps
L @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.3.10.4.1	
L h17:id	II	0 ... *	R	Procedure ID, coming from the LIS. May be the target (referenced) ID for the child procedure.	PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps
psr-dataelement-89 Procedure Step APSR 2.0 psr-dataelement-87 Procedure ID APSR 2.0					
L h17:code	CD (extensible)	1 ... 1	M	Coded procedure	PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps
	Constraint	for specimen collection procedure codes for targetSite or SNOMED CT have to be used, for specimen processing (down step the procedures) SNOMED CT is preferred, DICOM could be used if available			
	CONF	The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.10 <i>Specimen Collection and Processing</i> (2016-05-31 15:09:59)			
	Example	for use case #1, specimen collection <pre>&lt;code code="122548005" codeSystem="2.16.840.1.113883.6.96" displayName="Biopsy of breast (procedure)" codeSystemName="SNOMED-CT"/&gt;</pre>			
	Example	for use case #1, grossing & embedding <pre>&lt;code code="40923002" codeSystem="2.16.840.1.113883.6.96" displayName="Tissue processing technique,</pre>			

		<code>routine, embed, cut and stain, per surgical specimen (procedure)"/&gt;</code>			
	Example	for use case #1, sectioning & immunostaining <code>&lt;code code="117617002" codeSystem="2.16.840.1.113883.6.96" displayName="Immunohistochemistry procedure (procedure)"/&gt;</code>			
 <code>h17:qualifier</code>	CR (extensible)	<b>0 ... *</b>	<b>C</b>	Qualifier for staining or other procedures which don't have values in the vocabulary used.	PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps
	Constraint	Used only in staining and other procedures without values in SCT or LOINC or DICOM vocabulary, e.g. immune stains			
	Example	for use case #1, grossing & embedding <code>&lt;qualifier&gt; &lt;name code="246355002" displayName="Supporting structure (attribute)" codeSystem="2.16.840.1.113883.6.96"/&gt; &lt;value code="702941008" displayName="Paraffin embedding (qualifier value)" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT"/&gt; &lt;/qualifier&gt;</code>			
	Example	for use case #1, Estrogen receptor staining <code>&lt;qualifier&gt; &lt;name code="246094008" displayName="Component investigated (attribute)" codeSystem="2.16.840.1.113883.6.96"/&gt; &lt;value code="23307004" displayName="Estrogen receptor (substance)" codeSystem="2.16.840.1.113883.6.96"/&gt; &lt;/qualifier&gt;</code>			
	Example	for use case #1, ISH Her-2-neu staining <code>&lt;qualifier&gt; &lt;name code="246094008" displayName="Component investigated (attribute)" codeSystem="2.16.840.1.113883.6.96"/&gt; &lt;value code="164870" displayName="ONCOGENE ERBB2" codeSystem="2.16.840.1.113883.6.174" codeSystemName="OMIM"/&gt; &lt;/qualifier&gt;</code>			
 <code>h17:name</code>	CV (extensible)	<b>1 ... 1</b>	<b>R</b>		PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure




					steps
└ @code	cs	0 ... 1	F	246094008_or_246355002	
└ @codeSystem	oid	0 ... 1	F	2.16.840.1.113883.6.96	
└ @displayName	st	0 ... 1	F	Component investigated (attribute) or Supporting structure (attribute)	
└ h17:value	CD (extensible)	1 ... 1	R		PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps
└ @nullFlavor	cs	1 ... 1	R		
	CONF			<p>@code shall be "&lt;&lt;105590001   Substance (substance)  "</p> <p>@codeSystem shall be "2.16.840.1.113883.6.96"</p> <p>@codeSystemName shall be "SNOMED-CT"</p> <p>@displayName shall be "values from substance axis, e.g. Estrogen receptor"</p> <p>or</p> <p>@code shall be "values from G axis"</p> <p>@codeSystem shall be "2.16.840.1.113883.6.174"</p> <p>@codeSystemName shall be "OMIM"</p> <p>@displayName shall be "values from G axis, e.g. erb-b2"</p> <p>or</p> <p>@code shall be "&lt;&lt;272394005   Technique (qualifier value)  "</p> <p>@codeSystem shall be "2.16.840.1.113883.6.96"</p> <p>@codeSystemName shall be "SNOMED-CT"</p> <p>@displayName shall be "values from technique axis, e.g. Paraffin embedded (qualifier)"</p>	



<p>└ h17:text</p>	<p><b>ED</b></p>	<p><b>0 ... 1</b></p>	<p><b>R</b></p>		<p>PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps</p>
	<p>Example</p>	<p>specimen collection procedure &lt;text&gt;ULTRASOUND GUIDED NEEDLE CORE BIOPSY&lt;/text&gt;</p>			
	<p>Example</p>	<p>specimen processing procedure &lt;text&gt;CUTTING A SLIDE FROM A PARAFFIN BLOCK&lt;/text&gt;</p>			
<p>└ h17:statusCode</p>	<p><b>CS (required)</b></p>	<p><b>0 ... 1</b></p>	<p><b>R</b></p>		<p>PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps</p>
	<p>CONF</p>	<p>The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933 <i>ActStatus</i> (DYNAMIC)</p>			
<p>└ h17:effectiveTime</p>	<p><b>IVL_TS</b></p>	<p><b>0 ... 1</b></p>	<p><b>R</b></p>		<p>PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps</p>
<p>└ h17:approachSiteCode</p>	<p><b>CD (extensible)</b></p>	<p><b>0 ... 1</b></p>	<p><b>R</b></p>	<p>Approach site in specimen collection</p>	<p>PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps</p>

└ @code	CONF	0 ... 1	F	any_code	PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps	
└ @codeSystem		0 ... 1	F	2.16.840.1.113883.5.1052 (Act Site)		
└ @codeSystemName		0 ... 1	F	any_code		
└ @displayName		0 ... 1	F	ActSite		
└ h17:targetSiteCode	CD (extensible)	0 ... 1	R	Target site in body or relative parent relationship in case of specimen processing	PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps	
 psr-dataelement-94  Target Site  APSR 2.0						
CONF	@code shall be "<<123037004   Body structure (body structure)  " @codeSystem shall be "2.16.840.1.113883.6.96" @codeSystemName shall be "SCT" @displayName shall be "all children of Body structure (body structure)" or @code shall be "any_code" @codeSystem shall be "2.16.840.1.113883.5.1052" @codeSystemName shall be "ActSite" @displayName shall be "any_code" or The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.9 <i>Procedure Site</i> (2016-06-01 18:46:15)					
Example	for use case #1, specimen collection <pre>&lt;targetSiteCode code="110497008" displayName="Lower outer quadrant of right breast (body structure)" codeSystem="2.16.840.1.113883.6.96"/&gt;</pre>					

	<b>Example</b>	for use case #1, grossing & embedding <pre>&lt;targetSiteCode code="309050000" displayName="Body substance sample" codeSystem="2.16.840.1.113883.6.96"/&gt;</pre>			
└ h17:qualifier	<b>CR</b> (extensible)	<b>0 ... *</b>	<b>C</b>	optional qualifiers for specifying body structures or / and laterality	PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps
	<b>Example</b>	for use case #1, (optional) specification of body structure for specimen collection <pre>&lt;qualifier&gt;   &lt;name code="118169006" codeSystem="2.16.840.1.113883.6.96" displayName="Specimen source topography (attribute)" codeSystemName="SNOMED-CT"/&gt;   &lt;value code="255495000" codeSystem="2.16.840.1.113883.6.96" displayName="Right lower quadrant (qualifier value)" codeSystemName="SNOMED-CT"/&gt; &lt;/qualifier&gt;</pre>			
└ h17:name	<b>CV</b> (extensible)	<b>1 ... 1</b>	<b>R</b>		PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps
└ @displayName	st	<b>0 ... 1</b>	<b>F</b>	Specimen source topography	
└ @codeSystem	oid	<b>1 ... 1</b>	<b>F</b>	2.16.840.1.113883.6.96	
└ @code	cs	<b>1 ... 1</b>	<b>F</b>	118169006	
└ h17:value	<b>CD</b> (extensible)	<b>0 ... *</b>	<b>R</b>		PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps

<ul style="list-style-type: none"> <li>└ @code</li> <li>└ @codeSystem</li> <li>└ @codeSystemName</li> <li>└ @displayName</li> </ul>	CONF	0 ... 1	F	<<272099008			
		0 ... 1	F	2.16.840.1.113883.6.96 (Snomed-CT)			
		0 ... 1	F	SCT			
		0 ... 1	F	all children of Descriptor (qualifier values) e.g. right lower quadrant			
└ h17:methodCode	CD (extensible)	0 ... *	R	Identifies the technique used to perform a procedure		PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps	
└ @codeSystem	cs	1 ... 1	F	2.16.840.1.113883.5.1065			
Included		0 ... 1	R	from 1.3.6.1.4.1.19376.1.3.10.9.1 X Specimen Identified (2014-12-22 15:54:30) Parent specimen with parent ID			
	Example	for use case #1, parent specimen ID in grossing & embedding <pre> &lt;specimen typeCode="SPC"&gt;   &lt;specimenRole classCode="SPEC"&gt;     &lt;!-- Parent specimen ID --&gt;     &lt;id root="1.3.6.1.4.1.19376.1.8.9.1" extension="A7102400008"/&gt;   &lt;/specimenRole&gt; &lt;/specimen&gt;                     </pre>					
└ h17:specimen		0 ... 1	R	Required in XD-LAB when more than one specimen is documented at this level. Always required in APSR.		PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified	
 psr-dataelement-17		 Specimen identification		 APSR 2.0			

 @typeCode	CS	0 ... 1	F	SPC																
 h17:specimenRole		1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified															
 @classCode	CS	0 ... 1	F	SPEC																
 h17:id	II	1 ... 1	R	Specimen ID, coming from the LIS	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified															
<table border="0"> <tr> <td> psr-dataelement-95</td> <td> Parent ID</td> <td> APSR 2.0</td> </tr> <tr> <td>psr-dataelement-67</td> <td> Block ID</td> <td> APSR 2.0</td> </tr> <tr> <td>psr-dataelement-66</td> <td> Part ID</td> <td> APSR 2.0</td> </tr> <tr> <td>psr-dataelement-98</td> <td> Specimen ID</td> <td> APSR 2.0</td> </tr> <tr> <td>psr-dataelement-68</td> <td> Tissue section ID</td> <td> APSR 2.0</td> </tr> </table>						 psr-dataelement-95	 Parent ID	 APSR 2.0	psr-dataelement-67	 Block ID	 APSR 2.0	psr-dataelement-66	 Part ID	 APSR 2.0	psr-dataelement-98	 Specimen ID	 APSR 2.0	psr-dataelement-68	 Tissue section ID	 APSR 2.0
 psr-dataelement-95	 Parent ID	 APSR 2.0																		
psr-dataelement-67	 Block ID	 APSR 2.0																		
psr-dataelement-66	 Part ID	 APSR 2.0																		
psr-dataelement-98	 Specimen ID	 APSR 2.0																		
psr-dataelement-68	 Tissue section ID	 APSR 2.0																		
 h17:performer		0 ... 1	R	Contains 1.3.6.1.4.1.19376.1.3.3.1.7 <i>Laboratory Performer</i> (2008-08-08)	PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps															
where [h17:assignedEntity]																				

<p>└─ h17:author</p>		0 ... *	C	Contains 1.3.6.1.4.1.19376.1.8.1.4.2 <i>Author</i> (2016-06-21 14:02:11)	PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps	
where [h17:author]						
<p>└─ h17:participant</p>		1 ... *	M	One or more <b>specimen (with additives)</b> , which participates as product of the procedure Contains 1.3.6.1.4.1.19376.1.3.10.9.44 <i>CDA Participant (Body) Procedure Steps APSR2</i> (2014-10-26 17:06:28)	PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps	
where [not(@nullFlavor)] [h17:participantRole]						
<p>└─ h17:entryRelationship</p>		0 ... *	R	Specimen container (manufactured product) Contains 1.3.6.1.4.1.19376.1.3.10.9.22 <i>Specimen Container in Procedure Step</i> (2016-07-29 12:09:33)	PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps	
where [h17:supply]						
<p>└─ @typeCode</p>	cs	1 ... 1	F	COMP		
<p>└─ @contextConductionInd</p>	bl	0 ... 1	F	true		
	Constraint	<p>for manufactured product classCode = MANU</p> <p>for DrugOrOtherMaterial</p>				

		classCode = MMAT code from MaterialEntityType			
└─ h17:entryRelationship		0 ... 1	R	Specimen arrival in Lab Contains 1.3.6.1.4.1.19376.1.3.1.3 <i>Specimen Received</i> (2008-08-08)	PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps
where [h17:act [h17:code [(@code = 'SPRECEIVE' and @codeSystem = '1.3.5.1.4.1.19376.1.5.3.2') or @nullFlavor]]]					
└─ @typeCode	cs	1 ... 1	F	COMP	
└─ @contextConductionInd	bl	0 ... 1	F	true	
└─ h17:entryRelationship		0 ... *	R	Referencing mechanism to the ID of the child procedures, giving a lis of child procedure IDs	PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps
└─ @typeCode	cs	1 ... 1	F	REFR	
└─ @contextConductionInd	bl	0 ... 1	F	true	
	Constraint	contains only ID(s) of the child procedure(s), which is(are) fully described in dedicated entry(s) further down in the Procedure step section.			
└─ h17:procedure		1 ... 1	R	Child procedure	PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure

					steps
└ @classCode	CS	1 ... 1	F	PROC	
└ @moodCode	CS	1 ... 1	F	EVN	
└ h17:id	II	1 ... *	R	ID of the child procedure, coming from the LIS.	PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps
└ h17:reference		0 ... *	R	Reference to an external document, or to external procedures, e.g. concerning molecular pathology or genetic testing report  Contains 2.16.840.1.113883.10.12.324 CDA Reference (2005-09-07)	PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps

**Supportive template CDA Participant (Body) Procedure Steps APSR2 - 1.3.6.1.4.1.19376.1.3.10.9.44**

<b>Id</b>	1.3.6.1.4.1.19376.1.3.10.9.44	<b>Effective Date</b>	2014-10-26 17:06:28
<b>Status</b>	● Draft	<b>Version Label</b>	2.0
<b>Name</b>	CDAParticipantBodyProcedureStepsAPSR2	<b>Display Name</b>	CDA Participant (Body) Procedure Steps APSR2

**Description**

Template CDA Participant (Body) (prototype, directly derived from POCD\_RM000040 MIF)




This template is used for the Specimen Procedure steps entry construct. It describes the product of a specimen procedure, both being the resulting specimen and the additive to



the specimen used in this procedure step.

<b>Label</b>	PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps																											
<b>Classification</b>	CDA Entry Level Template																											
<b>Open/Closed</b>	Open (other than defined elements are allowed)																											
<b>Associated with</b>	Associated with 8 concepts																											
	<table border="1"> <thead> <tr> <th>Id</th> <th>Name</th> <th>Data Set</th> </tr> </thead> <tbody> <tr> <td>psr-dataelement-84</td> <td>● Work order</td> <td>● APSR 2.0</td> </tr> <tr> <td>psr-dataelement-1</td> <td>● Specimen</td> <td>● APSR 2.0</td> </tr> <tr> <td>psr-dataelement-34</td> <td>● Part</td> <td>● APSR 2.0</td> </tr> <tr> <td>psr-dataelement-36</td> <td>● Tissue section</td> <td>● APSR 2.0</td> </tr> <tr> <td>psr-dataelement-83</td> <td>● Order filler ID</td> <td>● APSR 2.0</td> </tr> <tr> <td>psr-dataelement-35</td> <td>● Block</td> <td>● APSR 2.0</td> </tr> <tr> <td>psr-dataelement-85</td> <td>● Work order step ID</td> <td>● APSR 2.0</td> </tr> <tr> <td>psr-dataelement-100</td> <td>● Work order ID</td> <td>● APSR 2.0</td> </tr> </tbody> </table>	Id	Name	Data Set	psr-dataelement-84	● Work order	● APSR 2.0	psr-dataelement-1	● Specimen	● APSR 2.0	psr-dataelement-34	● Part	● APSR 2.0	psr-dataelement-36	● Tissue section	● APSR 2.0	psr-dataelement-83	● Order filler ID	● APSR 2.0	psr-dataelement-35	● Block	● APSR 2.0	psr-dataelement-85	● Work order step ID	● APSR 2.0	psr-dataelement-100	● Work order ID	● APSR 2.0
	Id	Name	Data Set																									
	psr-dataelement-84	● Work order	● APSR 2.0																									
	psr-dataelement-1	● Specimen	● APSR 2.0																									
	psr-dataelement-34	● Part	● APSR 2.0																									
	psr-dataelement-36	● Tissue section	● APSR 2.0																									
	psr-dataelement-83	● Order filler ID	● APSR 2.0																									
	psr-dataelement-35	● Block	● APSR 2.0																									
psr-dataelement-85	● Work order step ID	● APSR 2.0																										
psr-dataelement-100	● Work order ID	● APSR 2.0																										
<b>Uses</b>	Uses 1 template																											
	<table border="1"> <thead> <tr> <th>Uses</th> <th>as</th> <th>Name</th> <th>Version</th> </tr> </thead> <tbody> <tr> <td>1.3.6.1.4.1.19376.1.3.10.9.21</td> <td>Containment</td> <td>● CDA PlayingEntitySpecimen APSR2 (2.0)</td> <td>2014-10-26 17:50:07</td> </tr> </tbody> </table>	Uses	as	Name	Version	1.3.6.1.4.1.19376.1.3.10.9.21	Containment	● CDA PlayingEntitySpecimen APSR2 (2.0)	2014-10-26 17:50:07																			
Uses	as	Name	Version																									
1.3.6.1.4.1.19376.1.3.10.9.21	Containment	● CDA PlayingEntitySpecimen APSR2 (2.0)	2014-10-26 17:50:07																									
<b>Relationship</b>	Specialization: template 2.16.840.1.113883.10.12.321 (2005-09-07)																											
<b>Example</b>	<p>for use case #1, product of specimen collection</p> <pre>&lt;participant typeCode="PRD" contextControlCode="OP"&gt;</pre>																											


	<pre> &lt;time&gt;   &lt;low value="200931121005-0500"/&gt; &lt;/time&gt; &lt;participantRole classCode="SPEC"&gt;   &lt;!-- ID of the specimen produced, coming from the LIS --&gt;   &lt;id root="1.3.6.1.4.1.19376.1.8.9.1" extension="A7102400008"/&gt;   &lt;code code="P" displayName="patient" codeSystem="2.16.840.1.113883.5.111"/&gt;   &lt;playingEntity classCode="ENT" determinerCode="INSTANCE"&gt;     &lt;code code="TISS" displayName="Tissue, unspecified" codeSystem="2.16.840.1.113883.5.1060"/&gt;   &lt;/playingEntity&gt; &lt;/participantRole&gt; &lt;/participant&gt; </pre>
Example	<p style="background-color: #fff2cc; padding: 2px;">for use case #1, additive in specimen collection</p> <pre> &lt;participant typeCode="CSM" contextControlCode="OP"&gt;   &lt;time&gt;     &lt;low value="200931121005-0500"/&gt;     &lt;high value="201001030805-0500"/&gt;   &lt;/time&gt;   &lt;participantRole classCode="ADTV"&gt;     &lt;playingEntity classCode="ENT" determinerCode="INSTANCE"&gt;       &lt;code code="BF10" displayName="Buffered 10% formalin" codeSystem="2.16.840.1.113883.1.11.16041"/&gt;     &lt;/playingEntity&gt;   &lt;/participantRole&gt; &lt;/participant&gt; </pre>

Item	DT	Card	Conf	Description	Label
@typeCode	cs	1 ... 1	R	Product (PRD) of a specimen procedure step, or consumable (CSM) in a specimen procedure step (additive to the specimen)	
	CONF			The value of @typeCode shall be drawn from value set 2.16.840.1.113883.1.11.10901 <i>ParticipationType</i> (2014-03-26)	
				 psr-dataelement-1  Specimen  APSR 2.0	
@contextControlCode	cs	1 ... 1	F	OP	
h17:time	IVL_TS	0 ... 1	R		PaLM Suppl. 2.1-3: 6.3.2.3 Specimen

					procedure steps
hl7:participantRole		1 ... 1	M		PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps
	<ul style="list-style-type: none"> <li>psr-dataelement-34 Part APSR 2.0</li> <li>psr-dataelement-36 Tissue section APSR 2.0</li> <li>psr-dataelement-35 Block APSR 2.0</li> </ul>				
@classCode	cs	1 ... 1	R	Role of the participant, either specimen (SPEC) or additive to the specimen (ADTV)	
	CONF	The value of @classCode shall be drawn from value set 2.16.840.1.113883.1.11.10429 <i>RoleClassPartitive</i> (2014-03-26)			
hl7:id	II	0 ... *	R	Specimen ID, coming from the LIS. No ID for Additive	PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps
	<ul style="list-style-type: none"> <li>psr-dataelement-84 Work order APSR 2.0</li> <li>psr-dataelement-83 Order filler ID APSR 2.0</li> <li>psr-dataelement-85 Work order step ID APSR 2.0</li> <li>psr-dataelement-100 Work order ID APSR 2.0</li> </ul>				
hl7:code	CE	0 ... 1	R	Code for roleType of the specimen under observation: usually "Patient" (P), but e.g. on-slide-controls "Calibrator" (C) or "Quality Control (Q) should be used. No code for Additive	PaLM Suppl. 2.1-3: 6.3.2.3

					Specimen procedure steps
	CONF	The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.16515 <i>SpecimenRoleType</i> (2014-03-26)			
h17:playingEntity		1 ... 1	M	Specimen Contains 1.3.6.1.4.1.19376.1.3.10.9.21 CDA <i>PlayingEntitySpecimen APSR2</i> (2014-10-26 17:50:07)	PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps
where [not(@nullFlavor)]					

**Supportive template CDA PlayingEntitySpecimen APSR2 - 1.3.6.1.4.1.19376.1.3.10.9.21**

<b>Id</b>	1.3.6.1.4.1.19376.1.3.10.9.21	<b>Effective Date</b>	2014-10-26 17:50:07
<b>Status</b>	 Draft	<b>Version Label</b>	2.0
<b>Name</b>	CDAPlayingEntitySpecimenAPSR2	<b>Display Name</b>	CDA PlayingEntitySpecimen APSR2
<b>Description</b>	Template CDA PlayingEntity (prototype, directly derived from POCD_RM000040 MIF) Describes the kind of a specimen		
<b>Label</b>	PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps		
<b>Classification</b>	CDA Entry Level Template		
<b>Open/Closed</b>	Open (other than defined elements are allowed)		
<b>Relationship</b>	Specialization: template 2.16.840.1.113883.10.12.313 (2005-09-07)		

Example	generated example
<pre>&lt;playingEntity classCode="ENT" determinerCode="INSTANCE"&gt;   &lt;code code="TISS" displayName="Tissue, unspecified" codeSystem="2.16.840.1.113883.5.1060"/&gt;   &lt;quantity value="5"/&gt;   &lt;desc/&gt; &lt;/playingEntity&gt;</pre>	

Item	DT	Card	Conf	Description	Label
@classCode	CS	0 ... 1	F	ENT  Kind of the specimen, which comes out as a product of a specimen procedure step	
@determinerCode	CS	0 ... 1	F	INSTANCE	
hl7:code	CE	0 ... 1	R	Specimen typeCode Precise nature of the entity that will be the source material for the observation.  Examples: tissue, blood, CSF  MaterialEntityClass code for Additives Example: 10% buffered formalin	PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps
	CONF			@code shall be "see example " or @code shall be "119376003" @codeSystem shall be "2.16.840.1.113883.6.96" @codeSystemName shall be "SNOMED-CT" @displayName shall be "Tissue, unspecified" or @code shall be "TISS" @codeSystem shall be "2.16.840.1.113883.5.1060" @codeSystemName shall be "HL7 SpecimenType"	

				<p>or</p> <p>@code shall be "all children of 123038009"</p> <p>@codeSystem shall be "2.16.840.1.113883.6.96"</p> <p>@codeSystemName shall be "SNOMED-CT"</p> <p>@displayName shall be "all children of "Specimen (specimen)""</p> <p>or</p> <p>The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.16040 <i>EntityCode</i> (2014-03-26)</p> <p>or</p> <p>The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.16041 <i>MaterialEntityType</i> (2014-03-26)</p>	
	Example	<p>example for specimen, coded by SCT</p> <pre>&lt;playingEntity&gt;   &lt;code code="373102004" codeSystem="2.16.840.1.113883.6.96" displayName="Specimen from breast obtained by image guided core biopsy (specimen)" codeSystemName="SNOMED CT"/&gt; &lt;/playingEntity&gt;</pre>			
	Example	<p>example for Additive</p> <pre>&lt;playingEntity&gt;   &lt;code code="BF10" codeSystem="2.16.840.1.113883.1.11.16041" displayName="Buffered 10% formalin"/&gt; &lt;/playingEntity&gt;</pre>			
h17:quantity	PQ	0 ... 1	R		PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps
h17:desc	ED	0 ... 1			PaLM Suppl. 2.1-3: 6.3.2.3 Specimen procedure steps


### 6.3.4.4 <Update Information Organizer> - Entry Content Module - 1.3.6.1.4.1.19376.1.3.10.4.5

#### 6.3.4.4.1 Definition and purpose

This content module is usable in the Diagnostic Conclusion <section> only.

It is used in the situation where a new version of a report is replacing the previous one, as to indicate what sections and/or entries have been changed in comparison with the immediate previous version of the report.

#### 6.3.4.4.2 Specification and Example

<b>Id</b>	1.3.6.1.4.1.19376.1.3.10.4.5	<b>Effective Date</b>	2017-11-14 15:22:14
<b>Status</b>	 Draft	<b>Version Label</b>	2.0
<b>Name</b>	CDAUpdateInformationOrganizer	<b>Display Name</b>	Update Information Organizer

#### Description


Template CDA Organizer (prototype, directly derived from POCD\_RM000040 MIF)

Organizer present only in a new version of a report, replacing a previous version.

The role of the organizer is to reference the sections and entries that have been modified by the new version, as well as to provide a general indicator of the clinical significance of the changes, using an observation for this purpose

<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.4.5
<b>Label</b>	PaLM Suppl. 2.1-3: 6.3.4.4 Update information organizer
<b>Classification</b>	CDA Entry Level Template
<b>Open/Closed</b>	Open (other than defined elements are allowed)

#### Uses 1 template

Uses	as	Name	Version
1.3.6.1.4.1.19376.1.8.1.4.2	Containment	 Author (2.0)	2016-06-21 14:02:11

<b>Relationship</b>	Specialization: template 2.16.840.1.113883.10.12.305 (2005-09-07)
<b>Example</b>	generated example
	<pre> &lt;organizer classCode="BATTERY" moodCode="EVN"&gt;   &lt;templateId root="1.3.6.1.4.1.19376.1.3.10.4.5"/&gt;   &lt;id root="1.2.3.999" extension="--example only--"/&gt;   &lt;statusCode code="completed"/&gt;   &lt;effectiveTime&gt;     &lt;low value="20171114164715"/&gt;   &lt;/effectiveTime&gt;   &lt;author&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author IHE' (2016-06-21T14:02:11) --&gt;   &lt;/author&gt;   &lt;reference typeCode="RPLC"&gt;     &lt;externalAct classCode="ACT" moodCode="EVN"&gt;       &lt;id root="1.3.6.1.4.1.19376.1.8.1.2.4" extension="--example only--"/&gt;     &lt;/externalAct&gt;   &lt;/reference&gt;   &lt;component typeCode="COMP"&gt;     &lt;observation&gt;       &lt;code code="90004-3" codeSystem="2.16.840.1.113883.6.1" displayName="Clinical significance of updated information"/&gt;       &lt;value code="371928007" codeSystem="2.16.840.1.113883.6.96" displayName="Not significant (qualifier value)"/&gt;     &lt;/observation&gt;   &lt;/component&gt; &lt;/organizer&gt; </pre>

Item	DT	Card	Conf	Description	Label
h17:organizer		0 ... 1	R	Update Information Organizer groups the battery of references to an updated (replaced) report and has an observation component about the clinical significance of that update.	PaLM Suppl. 2.1-3: 6.3.4.4 Update information organizer
└ @classCode	CS	1 ... 1	F	BATTERY	
└ @moodCode	CS	0 ... 1	F	EVN	
└ h17:templateId	II	1 ... 1	M		PaLM Suppl. 2.1-3:



					6.3.4.4 Update information organizer
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.3.10.4.5	
└ h17:id	II	0 ... *	R		PaLM Suppl. 2.1-3: 6.3.4.4 Update information organizer
└ h17:statusCode	CS (required)	1 ... 1	M		PaLM Suppl. 2.1-3: 6.3.4.4 Update information organizer
└ @code	CONF	1 ... 1	F	completed	
└ @codeSystem		1 ... 1	F	2.16.840.1.113883.1.11.15933	
└ @codeSystemName		1 ... 1	F	ActStatus	
└ @displayName		1 ... 1	F	completed	
└ h17:author		0 ... *	R	Author Source: PaLM Suppl. APSR 2.0-3: 6.3.6.2 Contains 1.3.6.1.4.1.19376.1.8.1.4.2 <i>Author</i> (2016-06-21 14:02:11)	PaLM Suppl. 2.1-3: 6.3.4.4 Update information organizer

where [hl7:author]					
└ h17:reference		0 ... *	R	Reference to those sections having been updated by the new version of the report.	PaLM Suppl. 2.1-3: 6.3.4.4 Update information organizer
└ @typeCode	CS	1 ... 1	F	RPLC	
└ h17:externalAct		1 ... 1	R		PaLM Suppl. 2.1-3: 6.3.4.4 Update information organizer
└ @classCode	CS	1 ... 1	F	ACT	
└ @moodCode	CS	1 ... 1	F	EVN	
└ h17:id	II	1 ... 1	R	Reference to the section code (OID of the section) from the previous report, which has been updated.	PaLM Suppl. 2.1-3: 6.3.4.4 Update information organizer
	Example	reference to the microscopic observation section <id root="1.3.6.1.4.1.19376.1.8.1.2.4" extension="--example only--"/>			
└ h17:component		1 ... 1	R	Observation on the clinical significance of the update of the report	PaLM Suppl. 2.1-3: 6.3.4.4

					Update information organizer
└ @typeCode	CS	0 ... 1	F	COMP	
└ h17:observation		1 ... 1	R		PaLM Suppl. 2.1-3: 6.3.4.4 Update information organizer
└ @classCode	CS	1 ... 1	F	OBS	
└ @moodCode	CS	1 ... 1	F	EVN	
└ h17:code	CD (extensible)	1 ... 1	R		PaLM Suppl. 2.1-3: 6.3.4.4 Update information organizer
└ @code	CONF	0 ... 1	F	90004-3	
└ @codeSystem		0 ... 1	F	2.16.840.1.113883.6.1 (LOINC)	
└ @codeSystemName		0 ... 1	F	LOINC	
└ @displayName		0 ... 1	F	Clinical significance of updated information	
└ h17:value	CE (extensible)	1 ... 1	R		PaLM Suppl. 2.1-3:

				6.3.4.4 Update information organizer
		CONF	The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.47 <i>Clinical Significance</i> (2017-11-15 11:08:46)	

### 6.3.5 CDA Child Element Content Modules

This section specifies the Content Modules designed for child elements. A child element is a child of the CDA Section, or of the CDA Header, or an element nested at various depths below an CDA Entry, or an element appearing at some combination of these locations.

#### 6.3.5.1 <Author> - Child Element Content Module – 1.3.6.1.4.1.19376.1.8.1.4.2

##### 6.3.5.1.1 Definition and purpose

This Content Module is usable in the CDA header, in a <section> and at various depths of an <entry>.

It describes an author having contributed to the document wholly or to a portion of it (e.g., a section, an observation, a group of observations).

A given document or any delimited portion of it may have more than one author.

An author MAY be a person or a device (manufactured device or software system). In both cases the scoping organization MAY be described.

##### 6.3.5.1.2 Specification and Example

<b>Id</b>	1.3.6.1.4.1.19376.1.8.1.4.2	<b>Effective Date</b>	2016-06-21 14:02:11
<b>Status</b>	 Draft	<b>Version Label</b>	2.0
<b>Name</b>	CDAAuthorIHE	<b>Display Name</b>	Author

Description

Template CDA author (prototype, directly derived from POCD\_RM000040 MIF).


This Content Module is usable in the CDA header, in a <section> and at various depths of an <entry>. It describes an author having contributed to the document wholly or to a portion of it (e.g., a section, an observation, a group of observations).




A given document or any delimited portion of it may have more than one author. An author MAY be a person or a device (manufactured device or software system). In both cases the scoping organization MAY be described.

<b>Label</b>	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author															
<b>Classification</b>	Template type not specified															
<b>Open/Closed</b>	Open (other than defined elements are allowed)															
<b>Associated with</b>	Associated with 4 concepts															
	<table border="1"> <thead> <tr> <th>Id</th> <th>Name</th> <th>Data Set</th> </tr> </thead> <tbody> <tr> <td>psr-dataelement-18</td> <td>Address</td> <td>APSR 2.0</td> </tr> <tr> <td>psr-dataelement-4</td> <td>Pathologist</td> <td>APSR 2.0</td> </tr> <tr> <td>psr-dataelement-79</td> <td>Device</td> <td>APSR 2.0</td> </tr> <tr> <td>psr-dataelement-5</td> <td>Name</td> <td>APSR 2.0</td> </tr> </tbody> </table>	Id	Name	Data Set	psr-dataelement-18	Address	APSR 2.0	psr-dataelement-4	Pathologist	APSR 2.0	psr-dataelement-79	Device	APSR 2.0	psr-dataelement-5	Name	APSR 2.0
	Id	Name	Data Set													
	psr-dataelement-18	Address	APSR 2.0													
	psr-dataelement-4	Pathologist	APSR 2.0													
psr-dataelement-79	Device	APSR 2.0														
psr-dataelement-5	Name	APSR 2.0														
<b>Uses</b>	Uses 2 templates															
	<table border="1"> <thead> <tr> <th>Uses</th> <th>as</th> <th>Name</th> <th>Version</th> </tr> </thead> <tbody> <tr> <td>2.16.840.1.113883.10.12.152</td> <td>Include</td> <td>CDA Person</td> <td>2005-09-07</td> </tr> <tr> <td>2.16.840.1.113883.10.12.151</td> <td>Include</td> <td>CDA Organization</td> <td>2005-09-07</td> </tr> </tbody> </table>	Uses	as	Name	Version	2.16.840.1.113883.10.12.152	Include	CDA Person	2005-09-07	2.16.840.1.113883.10.12.151	Include	CDA Organization	2005-09-07			
	Uses	as	Name	Version												
2.16.840.1.113883.10.12.152	Include	CDA Person	2005-09-07													
2.16.840.1.113883.10.12.151	Include	CDA Organization	2005-09-07													
<b>Relationship</b>	Adaptation: template 2.16.840.1.113883.10.12.102 (DYNAMIC)															
<b>Example</b>	<p>example from use case #1, author is a person</p> <pre>&lt;author&gt;   &lt;templateId root="1.3.6.1.4.1.19376.1.8.1.4.2"/&gt;</pre>															

	<pre> &lt;time value="20100104131933-0500"/&gt; &lt;assignedAuthor classCode="ASSIGNED"&gt;   &lt;id root="1.3.6.1.4.1.19376.1.8.9.3" extension="801234567897"/&gt;   &lt;addr nullFlavor="MSK"/&gt;   &lt;telecom value="tel:+33-602030499"/&gt;   &lt;assignedPerson classCode="PSN" determinerCode="INSTANCE"&gt;     &lt;name&gt;       &lt;given&gt;Marcel&lt;/given&gt;       &lt;family&gt;Pathologist&lt;/family&gt;       &lt;suffix&gt;Ph D&lt;/suffix&gt;     &lt;/name&gt;   &lt;/assignedPerson&gt;   &lt;representedOrganization&gt;     &lt;id root="1.3.6.1.4.1.19376.1.8.9.4" extension="1120456789"/&gt;     &lt;name&gt;CANCER INSTITUTE&lt;/name&gt;     &lt;telecom nullFlavor="MSK"/&gt;     &lt;addr nullFlavor="MSK"/&gt;   &lt;/representedOrganization&gt; &lt;/assignedAuthor&gt; &lt;/author&gt; </pre>
Example	<p>author is a device</p> <pre> &lt;author typeCode="AUT"&gt;   &lt;assignedAuthor classCode="ASSIGNED"&gt;     &lt;assignedAuthoringDevice classCode="DEV" determinerCode="INSTANCE"&gt;       &lt;code&gt;...&lt;/code&gt;     &lt;/assignedAuthoringDevice&gt;   &lt;/assignedAuthor&gt; &lt;/author&gt; </pre>

Item	DT	Card	Conf	Description	Label
h17:author		0 ... *	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
				psr-dataelement-4       Pathologist       APSR 2.0 psr-dataelement-79       Device       APSR 2.0	
@typeCode	cs	1 ... 1	F	AUT	
Example				author is a person	

				<pre> &lt;author typeCode="AUT" contextControlCode="OP"&gt;   &lt;time value="201306101654"/&gt;   &lt;assignedAuthor classCode="ASSIGNED"&gt;     &lt;!-- ... --&gt;   &lt;/assignedAuthor&gt; &lt;/author&gt; </pre>		
└ h17:templateId		1 ... 1	M		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.8.1.4.2		
└ h17:time	TS	1 ... 1	M	The authoring time is the date & time that this author contributed to the document. It SHALL be provided.	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└ h17:assignedAuthor		0 ... 1	C		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└ @classCode	CS	0 ... 1	F	ASSIGNED		
└ h17:id	II	1 ... *	M		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
└ h17:addr	AD	1 ... *	M		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author	
	 psr-dataelement-18  Address  APSR 2.0					
└ h17:telecom	TEL	1 ... *	M		PaLM Suppl.APSR 2.0-3:6.3.5.1	

					Author
Choice		1 ... 1		The author is either an assigned person or an authoring device. Elements to choose from:	
	└ h17:assignedPerson	0 ... 1	C	<ul style="list-style-type: none"> <li>h17:assignedPerson</li> <li>h17:assignedAuthoringDevice</li> </ul>	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
				 psr-dataelement-5  Name  APSR 2.0	
Included		1 ... 1	R	from 2.16.840.1.113883.10.12.152 CDA Person (2005-09-07) The name(s) SHALL be given.	
	└ @classCode	0 ... 1	F	PSN	
	└ @determinerCode	0 ... 1	F	INSTANCE	
	└ h17:name	PN	1 ... 1	R	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
	└ h17:assignedAuthoringDevice	0 ... 1	C		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
	└ @classCode	CS	0 ... 1	F	DEV
	└ @determinerCode	CS	0 ... 1	F	INSTANCE
	└ h17:manufacturerModel Name	SC	0 ... 1	R	PaLM Suppl.APSR 2.0-3:6.3.5.1



					Author
└ h17:softwareName	SC	0 ... 1	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:code	CE	0 ... 1	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:representedOrganization		0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
	Example	represented organization for author as a device <pre>&lt;representedOrganization classCode="ORG" determinerCode="INSTANCE"&gt;   &lt;name&gt;     &lt;!-- ... --&gt;   &lt;/name&gt; &lt;/representedOrganization&gt;</pre>			
Included		0 ... 1		from 2.16.840.1.113883.10.12.151 CDA Organization (2005-09-07) The identifier(s) SHOULD, the name SHALL, the telecom(s) and the address(es) MAY be given.	
└ @classCode		0 ... 1	F	ORG	
└ @determinerCode		0 ... 1	F	INSTANCE	
└ h17:id	II	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:name	ON	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author

└ h17:telecom	TEL	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:addr	AD	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:standardIndustryClassCode	CE	0 ... 1		SHALL be chosen from domain OrganizationIndustryClass	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:asOrganizationPartOf		0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ @classCode		0 ... 1	F	PART	
└ h17:id	II	0 ... *	R		PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ h17:code	CE	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└ @codeSystem	CONF	0 ... 1	F	2.16.840.1.113883.5.111 (Role Code)	
└ h17:statusCode	CS	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
	CONF	The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15999 <i>RoleStatus</i> (DYNAMIC)			

└─ h17:effectiveTime	IVL_TS	0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:wholeOrganization		0 ... 1			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ @classCode		0 ... 1	F	ORG	
└─ @determinerCode		0 ... 1	F	INSTANCE	
└─ h17:id	II	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:name	ON	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:telecom	TEL	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:addr	AD	0 ... *			PaLM Suppl.APSR 2.0-3:6.3.5.1 Author
└─ h17:standard IndustryClassCode	CE	0 ... 1		SHALL be chosen from domain OrganizationIndustryClass	PaLM Suppl.APSR 2.0-3:6.3.5.1 Author

### 6.3.5.2 <Informant> - Child Element Content Module – 1.3.6.1.4.1.19376.1.8.1.4.6


#### 6.3.5.2.1 Definition and purpose

This Content Module is usable in the CDA header, in a <section> and within an <entry>.

It describes a person having provided some piece of relevant information for the document.

A <ClinicalDocument> or a <section> or any kind of act below an <entry>, MAY have zero or more informant.

#### 6.3.5.2.2 Specification and Example

<b>Id</b>	1.3.6.1.4.1.19376.1.8.1.4.6	<b>Effective Date</b>	2016-07-08 11:22:58
<b>Status</b>	 Draft	<b>Version Label</b>	2.0
<b>Name</b>	CDAinformantHeaderBodyAPSR2	<b>Display Name</b>	Informant



##### Description



Template CDA Informant Body (prototype, directly derived from POCD\_RM000040 MIF)

An informant in APSR is an assignedEntity (a professional participating to the healthcare process, and who was assigned a defined role in that process). In an anatomic pathology structured report informants are only healthcare professionals. There is no point for such a report to mention persons related to the patient (related entities, e.g. next of kin, employer, guarantor, ...).


<b>Context</b>	Sibling nodes of template element with id 1.3.6.1.4.1.19376.1.8.1.4.6
<b>Label</b>	PaLM Suppl. APSR 2.1-3: 6.3.5.2 Informant
<b>Classification</b>	Template type not specified
<b>Open/Closed</b>	Open (other than defined elements are allowed)

##### Associated with 2 concepts

Associated with	Id	Name	Data Set
	psr-dataelement-4	 Pathologist	 APSR 2.0

psr-dataelement-78  Clinician  APSR 2.0






Uses 1 template

Uses	as	Name	Version
2.16.840.1.113883.10.12.153	Containment	 CDA AssignedEntity	2005-09-07

Relationship: Adaptation: template 2.16.840.1.113883.10.12.319 (2005-09-07)

Example

```
<h17:templateId/>
<h17:assignedEntity>
  <!-- template 2.16.840.1.113883.10.12.153 'CDA AssignedEntity' (2005-09-07T00:00:00) -->
</h17:assignedEntity>
```

Item	DT	Card	Conf	Description	Label
@typeCode	cs	0 ... 1	F	INF	
	 psr-dataelement-4  Pathologist  APSR 2.0 psr-dataelement-78  Clinician  APSR 2.0				
@contextControlCode	cs	0 ... 1	F	OP	
h17:templateId	II	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.2 Informant
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.8.1.4.6	

hl7:assignedEntity	0 ... 1	R	Contains 2.16.840.1.113883.10.12.153 CDA AssignedEntity (2005-09-07)	PaLM Suppl. APSR 2.1-3: 6.3.5.2 Informant
--------------------	---------	---	--	--

### 6.3.5.3 <Specimen Container in Specimen Procedure Step> - Child Element Content Module- 1.3.6.1.4.1.19376.1.3.10.9.22

#### 6.3.5.3.1 Definition and purpose

This Supporting Content Module is usable in the Specimen Procedure Steps <entry> (see 6.2.6.4) and is repeatable within one procedure step for describing container components, too. It describes the properties of containers, in or on which the specimens are processed. The relations between container and specimen are described in the HL7 Specimen DAM.

[HL7 DAM Specimen Release 1.](#)

For Anatomic Pathology the CDA Content Modules "Material" and "ManufacturedMaterial" were specialized to Supporting Templates CDA ManufacturedProduct APSR2 (1.3.6.1.4.1.19376.1.3.10.9.24) and CDA Material Container APSR2 (1.3.6.1.4.1.19376.1.3.10.9.23).




























#### 6.3.5.3.2 Specification and Example

<b>Id</b>	1.3.6.1.4.1.19376.1.3.10.9.22	<b>Effective Date</b>	2016-07-29 12:09:33 Other versions this id: ▪ <input type="radio"/> CDASupplyContainerAPSR2 as of 2016-07-29
<b>Status</b>	 Draft	<b>Version Label</b>	2.0
<b>Name</b>	CDASupplyContainerAPSR2	<b>Display Name</b>	Specimen Container in Procedure Step

#### Description

Template CDA Supply (prototype, directly derived from POCD\_RM000040 MIF)

This entry describes the properties of a container (and its components) which holds a specimen. It is usable within a Specimen Procedure Step entry and is repeatable in one procedure step for describing container components, too (e.g. container plus embedding medium, or microscopic slide plus mounting medium plus coverslip)

<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.22																								
<b>Label</b>	PaLM Suppl. APSR 2.1-3: 6.3.5.3 Specimen container																								
<b>Classification</b>	CDA Entry Level Template																								
<b>Open/Closed</b>	Open (other than defined elements are allowed)																								
<b>Associated with</b>	Associated with 2 concepts																								
	<table border="1"> <thead> <tr> <th>Id</th> <th>Name</th> <th>Data Set</th> </tr> </thead> <tbody> <tr> <td>psr-dataelement-70</td> <td> Container</td> <td> APSR 2.0</td> </tr> <tr> <td>psr-dataelement-80</td> <td> Container Identification</td> <td> APSR 2.0</td> </tr> </tbody> </table>	Id	Name	Data Set	psr-dataelement-70	 Container	 APSR 2.0	psr-dataelement-80	 Container Identification	 APSR 2.0															
	Id	Name	Data Set																						
psr-dataelement-70	 Container	 APSR 2.0																							
psr-dataelement-80	 Container Identification	 APSR 2.0																							
<b>Uses</b>	Uses 5 templates																								
	<table border="1"> <thead> <tr> <th>Uses</th> <th>as</th> <th>Name</th> <th>Version</th> </tr> </thead> <tbody> <tr> <td>1.3.6.1.4.1.19376.1.3.10.9.1</td> <td>Include</td> <td> X Specimen Identified (2.0)</td> <td>2014-12-22 15:54:30</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.3.10.9.24</td> <td>Containment</td> <td> CDA ManufacturedProduct APSR2</td> <td>2016-09-09 12:37:49</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.3.3.1.7</td> <td>Containment</td> <td> Laboratory Performer (2017)</td> <td>2008-08-08</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.8.1.4.2</td> <td>Containment</td> <td> Author (2.0)</td> <td>2016-06-21 14:02:11</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.8.1.4.6</td> <td>Containment</td> <td> Informant (2.0)</td> <td>2016-07-08 11:22:58</td> </tr> </tbody> </table>	Uses	as	Name	Version	1.3.6.1.4.1.19376.1.3.10.9.1	Include	 X Specimen Identified (2.0)	2014-12-22 15:54:30	1.3.6.1.4.1.19376.1.3.10.9.24	Containment	 CDA ManufacturedProduct APSR2	2016-09-09 12:37:49	1.3.6.1.4.1.19376.1.3.3.1.7	Containment	 Laboratory Performer (2017)	2008-08-08	1.3.6.1.4.1.19376.1.8.1.4.2	Containment	 Author (2.0)	2016-06-21 14:02:11	1.3.6.1.4.1.19376.1.8.1.4.6	Containment	 Informant (2.0)	2016-07-08 11:22:58
	Uses	as	Name	Version																					
	1.3.6.1.4.1.19376.1.3.10.9.1	Include	 X Specimen Identified (2.0)	2014-12-22 15:54:30																					
	1.3.6.1.4.1.19376.1.3.10.9.24	Containment	 CDA ManufacturedProduct APSR2	2016-09-09 12:37:49																					
	1.3.6.1.4.1.19376.1.3.3.1.7	Containment	 Laboratory Performer (2017)	2008-08-08																					
1.3.6.1.4.1.19376.1.8.1.4.2	Containment	 Author (2.0)	2016-06-21 14:02:11																						
1.3.6.1.4.1.19376.1.8.1.4.6	Containment	 Informant (2.0)	2016-07-08 11:22:58																						
<b>Relationship</b>	Specialization: template 2.16.840.1.113883.10.12.309 (2005-09-07)																								

Example

example for use case #1, grossing and embedding




```
<supply classCode="SPLY" moodCode="EVN">
  <templateId root="1.3.6.1.4.1.19376.1.3.10.9.22"/>
  <!-- ID of the container, coming from the LIS -->
  <id root="1.3.6.1.4.1.19376.1.8.9" extension="A7102400008_block_A_1-C"/>
  <code code="74384-9" codeSystem="2.16.840.1.113883.6.1" displayName="Specimen container"/>
  <text/>
  <statusCode code="completed"/>
  <effectiveTime/>
  <quantity value="1"/>
  <expectedUseTime>
    <low value="201001030905-0500"/>
  </expectedUseTime>
  <!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (2014-12-22T15:54:30) 0..* 0
  ID of the specimen linked to the container -->
  <specimen typeCode="SPC">
    <specimenRole classCode="SPEC">
      <id root="1.3.6.1.4.1.19376.1.8.9" extension="A7102400008_block_A_1"/>
    </specimenRole>
  </specimen>
  <product typeCode="PRD">
    <!-- template 1.3.6.1.4.1.19376.1.3.10.9.24 'CDA ManufacturedProduct APSR2' (2016-09-09T12:37:49) -->
  </product>
  <performer>
    <!-- template 1.3.6.1.4.1.19376.1.3.3.1.7 'Laboratory Performer' (2008-08-08T00:00:00) -->
  </performer>
  <author>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author IHE' (2016-06-21T14:02:11) -->
  </author>
  <informant>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant(Header&Body) APSR2' (2016-07-08T11:22:58) -->
  </informant>
  <entryRelationship negationInd="false" typeCode="COMP" inversionInd="false" contextConductionInd="true">
    <sequenceNumber value="1"/>
    <!-- template 2.16.840.1.113883.10.12.300 'CDA Clinical Statement' (2005-09-07T00:00:00) -->
  </entryRelationship>
</supply>
```

Item	DT	Card	Conf	Description	Label
h17:supply		0...*	R		PaLM Suppl. APSR 2.1-3: 6.3.5.3 Specimen container





 psr-dataelement-70  Container  APSR 2.0					
 @classCode	CS	1 ... 1	F	SPLY	
 @moodCode	CS	1 ... 1	F	EVN	
 h17:templateId	II	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.3 Specimen container
 @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.3.10.9.22	
 h17:id	II	0 ... *	R	Container ID, coming from the LIS	PaLM Suppl. APSR 2.1-3: 6.3.5.3 Specimen container
 psr-dataelement-80  Container Identification  APSR 2.0					
 h17:code	CD	0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.3 Specimen container
 @code	CONF	0 ... 1	F	74384-9	
 @codeSystem		0 ... 1	F	2.16.840.1.113883.6.1 (LOINC)	


└ @codeSystemName		0 ... 1	F	LOINC		
└ @displayName		0 ... 1	F	Specimen container		
└ h17:text	ED	0 ... 1	R	Textual description of the container (plus container components)	PaLM Suppl. APSR 2.1-3: 6.3.5.3 Specimen container	
	Example	plastic tube <text>plastic tube</text>				
	Example	Block <text>paraffin block</text>				
	Example	Slide <text>slide with mounting medium and coverslip</text>				
└ h17:statusCode	CS (required)	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.3 Specimen container	
	CONF	The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933 ActStatus (2014-03-26)				
└ h17:effectiveTime	SXCM_TS	0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.3 Specimen container	
└ h17:quantity	PQ	0 ... 1	R		PaLM Suppl.	

					APSR 2.1-3: 6.3.5.3 Specimen container
└ h17:expectedUseTime	IVL_TS	0 ... 1			PaLM Suppl. APSR 2.1-3: 6.3.5.3 Specimen container
Included		0 ... *	R	from 1.3.6.1.4.1.19376.1.3.10.9.1 X Specimen Identified (2014-12-22 15:54:30) Specimen(s) being placed in or on the container in this specific procedure step, e.g. serial tissue sections on one glass slide	
└ h17:specimen		0 ... *	R	Required in XD-LAB when more than one specimen is documented at this level. Always required in APSR.	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
		 psr-dataelement-17  Specimen identification  APSR 2.0			
└ @typeCode	CS	0 ... 1	F	SPC	
└ h17:specimenRole		1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
└ @classCode	CS	0 ... 1	F	SPEC	

<p>└─ h17:id</p>	<p>II</p>	<p>1 ... 1</p>	<p>R</p>	<p>Specimen ID, coming from the LIS</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified</p>															
<table border="0"> <tr> <td>⊙ psr-dataelement-95</td> <td>● Parent ID</td> <td>● APSR 2.0</td> </tr> <tr> <td>psr-dataelement-67</td> <td>● Block ID</td> <td>● APSR 2.0</td> </tr> <tr> <td>psr-dataelement-66</td> <td>● Part ID</td> <td>● APSR 2.0</td> </tr> <tr> <td>psr-dataelement-98</td> <td>● Specimen ID</td> <td>● APSR 2.0</td> </tr> <tr> <td>psr-dataelement-68</td> <td>● Tissue section ID</td> <td>● APSR 2.0</td> </tr> </table>						⊙ psr-dataelement-95	● Parent ID	● APSR 2.0	psr-dataelement-67	● Block ID	● APSR 2.0	psr-dataelement-66	● Part ID	● APSR 2.0	psr-dataelement-98	● Specimen ID	● APSR 2.0	psr-dataelement-68	● Tissue section ID	● APSR 2.0
⊙ psr-dataelement-95	● Parent ID	● APSR 2.0																		
psr-dataelement-67	● Block ID	● APSR 2.0																		
psr-dataelement-66	● Part ID	● APSR 2.0																		
psr-dataelement-98	● Specimen ID	● APSR 2.0																		
psr-dataelement-68	● Tissue section ID	● APSR 2.0																		
<p>└─ h17:product</p>		<p>1 ... 1</p>	<p>M</p>	<p>Contains 1.3.6.1.4.1.19376.1.3.10.9.24 <i>CDA ManufacturedProduct APSR2</i> (2016-09-09 12:37:49)</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.5.3 Specimen container</p>															
<p>where [not(@nullFlavor)] [h17:manufacturedProduct]</p>																				
<p>└─ @typeCode</p>	<p>CS</p>	<p>1 ... 1</p>	<p>F</p>	<p>PRD</p>																
<p>└─ h17:performer</p>		<p>0 ... *</p>	<p>C</p>	<p>Contains 1.3.6.1.4.1.19376.1.3.3.1.7 <i>Laboratory Performer</i> (2008-08-08)</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.5.3 Specimen container</p>															
<p>where [h17:assignedEntity]</p>																				

 h17:author		0 ... *	C	Contains 1.3.6.1.4.1.19376.1.8.1.4.2 <i>Author</i> (2016-06-21 14:02:11)	PaLM Suppl. APSR 2.1-3: 6.3.5.3 Specimen container
where [h17:author]					
 h17:informant		0 ... *	R	Contains 1.3.6.1.4.1.19376.1.8.1.4.6 <i>Informant</i> (2016-07-08 11:22:58)	PaLM Suppl. APSR 2.1-3: 6.3.5.3 Specimen container

**Supportive Template CDA ManufacturedProduct APSR2 - 1.3.6.1.4.1.19376.1.3.10.9.24**

<b>Id</b>	1.3.6.1.4.1.19376.1.3.10.9.24	<b>Effective Date</b>	2016-09-09 12:37:49
<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	CDAManufacturedProductAPSR2	<b>Display Name</b>	CDA ManufacturedProduct APSR2
<b>Description</b>	Template CDA ManufacturedProduct (prototype, directly derived from POCD_RM000040 MIF) Supporting Content Module for CDA Supply Container APSR2, bridging the gap between Product and Container		
<b>Label</b>	PaLM Suppl. APSR 2.1-3: 6.3.5.3 Specimen container		
<b>Classification</b>	CDA Entry Level Template		
<b>Open/Closed</b>	Open (other than defined elements are allowed)		
<b>Uses</b>	Uses 2 templates		

Uses	as	Name	Version
1.3.6.1.4.1.19376.1.3.10.9.23	Include	 CDA Material Container APSR2	2016-09-08 12:20:45
2.16.840.1.113883.10.12.151	Containment	 CDA Organization	2005-09-07

**Relationship** Adaptation: template 2.16.840.1.113883.10.12.312 (2005-09-07)

**Example**

```



generated example
<manufacturedProduct classCode="MANU">
  <id root="1.3.6.1.4.1.19376.1.8.9" extension="--example only, coming from the LIS--"/>
  <!-- include template 1.3.6.1.4.1.19376.1.3.10.9.23 'CDA Material Container APSR2' (2016-09-08T12:20:45) 1..1 M -->
  <manufacturerOrganization>
    <!-- template 2.16.840.1.113883.10.12.151 'CDA Organization' (2005-09-07T00:00:00) -->
  </manufacturerOrganization>
</manufacturedProduct>
    
```

Item	DT	Card	Conf	Description	Label
h17:manufacturedProduct		0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.3 Specimen container
└ @classCode	CS	1 ... 1	F	MANU	
└ h17:id	II	0 ... *	R		PaLM Suppl. APSR 2.1-3: 6.3.5.3 Specimen container
Included		1 ... 1	M	from 1.3.6.1.4.1.19376.1.3.10.9.23 CDA Material Container APSR2 (2016-09-08	


12:20:45)

Material the specimen container consists of, e.g. Tissue cassette or Paraffin wax for a Paraffin Block, etc.

<p>└─ h17:manufacturedMaterial</p>		<p>1 ... 1</p>	<p>M</p>		<p>PaLM Suppl. APSR 2.1-3: 6.3.5.3 Specimen container</p>	
<p>└─ @classCode</p>	<p>CS</p>	<p>1 ... 1</p>	<p>F</p>	<p>MMAT  class code "MMAT" for container</p>		
<p>└─ @determinerCode</p>	<p>CS</p>	<p>0 ... 1</p>	<p>F</p>	<p>KIND</p>		
<p>└─ h17:code</p>	<p>CE (extensible)</p>	<p>0 ... *</p>	<p>R</p>		<p>PaLM Suppl. APSR 2.1-3: 6.3.5.3 Specimen container</p>	
	<p>CONF</p>	<p>The value of @code should be drawn from value set 2.16.840.1.113883.1.11.16041 <i>MaterialEntityClassType</i> (2014-03-26) or The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.8 <i>ContainerEntityClassTypePaLM</i> (2016-09-08 11:55:11)</p>				
<p>└─ h17:name</p>	<p>EN</p>	<p>0 ... 1</p>	<p>R</p>		<p>PaLM Suppl. APSR 2.1-3: 6.3.5.3 Specimen container</p>	

 h17:lotNumberText	ST	0 ... 1			PaLM Suppl. APSR 2.1-3: 6.3.5.3 Specimen container
 h17:manufacturerOrganization		0 ... 1	R	Contains 2.16.840.1.113883.10.12.151 CDA Organization (2005-09-07)	PaLM Suppl. APSR 2.1-3: 6.3.5.3 Specimen container

**Supportive Template CDA Material Container APSR2 - 1.3.6.1.4.1.19376.1.3.10.9.23**

<b>Id</b>	1.3.6.1.4.1.19376.1.3.10.9.23	<b>Effective Date</b>	2016-09-08 12:20:45
<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	CDAMaterialContainerAPSR2	<b>Display Name</b>	CDA Material Container APSR2
<b>Description</b>	Template CDA Material (prototype, directly derived from POCD_RM000040 MIF) Entry describing the properties of a container in PaLM / PAT		
<b>Label</b>	PaLM Suppl. APSR 2.1-3: 6.3.5.3 Specimen container		
<b>Classification</b>	CDA Entry Level Template		
<b>Open/Closed</b>	Open (other than defined elements are allowed)		
<b>Relationship</b>	Adaptation: template 2.16.840.1.113883.10.12.311 (2005-09-07)		
<b>Example</b>	generated example		



	<pre>&lt;manufacturedMaterial classCode="MMAT" determinerCode="KIND"&gt;   &lt;code code="PKG" displayName="Package" codeSystem="2.16.840.1.113883.5.1060"/&gt;   &lt;name&gt;name&lt;/name&gt;   &lt;lotNumberText/&gt; &lt;/manufacturedMaterial&gt;</pre>
Example	<p>example for use case '1, specimen collection</p> <pre>&lt;manufacturedMaterial classCode="MMAT" determinerCode="KIND"&gt;   &lt;code code="TUBE" displayName="tube" codeSystem="2.16.840.1.113883.1.11.16041"/&gt;   &lt;name&gt;Plastic tube&lt;/name&gt; &lt;/manufacturedMaterial&gt;</pre>
Example	<p>example for use case '1, embedding</p> <pre>&lt;manufacturedMaterial classCode="MMAT" determinerCode="KIND"&gt;   &lt;code code="433464009" displayName="Tissue cassette (physical object)" codeSystem="2.16.840.1.113883.6.96"/&gt;   &lt;name&gt;Block&lt;/name&gt; &lt;/manufacturedMaterial&gt;</pre>
Example	<p>example for use case '1, sectioning and staining</p> <pre>&lt;manufacturedMaterial classCode="MMAT" determinerCode="KIND"&gt;   &lt;code code="433466003" displayName="Microscope slide (physical object)" codeSystem="2.16.840.1.113883.6.96"/&gt;   &lt;name&gt;Slide&lt;/name&gt; &lt;/manufacturedMaterial&gt;</pre>

Item	DT	Card	Conf	Description	Label
h17:manufacturedMaterial		0 .. 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.3 Specimen container
└ @classCode	CS	1 .. 1	F	MMAT class code "MMAT" for container	
└ @determinerCode	CS	0 .. 1	F	KIND	
└ h17:code	CE (extensible)	0 .. *	R		PaLM Suppl. APSR 2.1-3: 6.3.5.3 Specimen container

	CONF	The value of @code should be drawn from value set 2.16.840.1.113883.1.11.16041 <i>MaterialEntityType</i> (2014-03-26) or The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.8 <i>ContainerEntityTypePaLM</i> (2016-09-08 11:55:11)			
└ h17:name	EN	0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.3 Specimen container
└ h17:lotNumberText	ST	0 ... 1			PaLM Suppl. APSR 2.1-3: 6.3.5.3 Specimen container

### 6.3.5.4 <Additional participant in an entry> - Child Element Content Module- 1.3.6.1.4.1.19376.1.8.1.4.7

#### 6.3.5.4.1 Definition and purpose

This Content Module is usable only within an <entry> element.

Additional participants MAY take part in any organizer as well as in any observation of an APSR. These participants MAY be any of these 4:

- Validator: This is the same participation as Content Validator in the header of the report: a pathologist having verified the content (of this particular subset of results).
- Device: A device used to produce this particular subset of results.
- Responsible: The director of a laboratory (described in a performer element at the same level) who produced this particular subset of results.
- Transcriptionist: This is the same participation as dataEnterer in the header of the report: a staff who entered, possibly from dictation, this particular subset of results.

#### 6.3.5.4.2 Specification and Example







Id	1.3.6.1.4.1.19376.1.8.1.4.7	Effective Date	2016-07-12 18:44:06
Status	 Draft	Version Label	2.0

<b>Name</b>	AdditionalParticipantAPSR	<b>Display Name</b>	Additional participant in an entry	
<b>Description</b>	Template CDA Participant (Body) (prototype, directly derived from POCD_RM000040 MIF)			
<b>Label</b>	PaLM Suppl. APSR 2.1-3: 6.3.5.4 Additional participant			
<b>Classification</b>	CDA Entry Level Template			
<b>Open/Closed</b>	Open (other than defined elements are allowed)			
<b>Associated with</b>	Associated with 4 concepts			
	<b>Id</b>	<b>Name</b>	<b>Data Set</b>	
	psr-dataelement-77	● Lab technician	● APSR 2.0	
	psr-dataelement-79	● Device	● APSR 2.0	
	psr-dataelement-76	● Secretary	● APSR 2.0	
psr-dataelement-4	● Pathologist	● APSR 2.0		
<b>Uses</b>	Uses 2 templates			
	<b>Uses</b>	<b>as</b>	<b>Name</b>	<b>Version</b>
	2.16.840.1.113883.10.12.315	Containment	● CDA Device	2005-09-07
	2.16.840.1.113883.10.12.313	Containment	● CDA PlayingEntity	2005-09-07
<b>Relationship</b>	Adaptation: template 2.16.840.1.113883.10.12.321 (2005-09-07)			
<b>Example</b>	generated example			
	<pre> &lt;templateId root="1.3.6.1.4.1.19376.1.8.1.4.7"/&gt; &lt;time/&gt; &lt;participantRole classCode="ROL"&gt;   &lt;id root="1.2.3.999" extension="---example only---"/&gt;   &lt;addr&gt;addr&lt;/addr&gt;   &lt;telecom value="tel:+1-12345678"/&gt;   &lt;!-- choice: 0..1 element hl7:playingDevice containing template 2.16.840.1.113883.10.12.315 (dynamic)         </pre>			

```

element h17:playingEntity containing template 2.16.840.1.113883.10.12.313 (dynamic)
-->
</participantRole>
    
```

Item	DT	Card	Conf	Description	Label
@typeCode	cs	1 .. 1	R	participant[@participationType="AUTHEN" or @participationType="DEV" or @participationType="RESP" or @participationType="ENT"]	
			CONF	The value of @typeCode shall be drawn from value set 2.16.840.1.113883.1.11.10901 <i>ParticipationType</i> (2014-03-26)	
				<ul style="list-style-type: none"> <li> psr-dataelement-77       Lab technician       APSR 2.0</li> <li> psr-dataelement-79       Device       APSR 2.0</li> <li> psr-dataelement-76       Secretary       APSR 2.0</li> <li> psr-dataelement-4       Pathologist       APSR 2.0</li> </ul>	
@contextControlCode	cs	0 .. 1	F	OP	
h17:templateId	II	1 .. 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.4 Additional participant
└ @root	uid	1 .. 1	F	1.3.6.1.4.1.19376.1.8.1.4.7	
h17:time	TS	0 .. 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.4 Additional participant
h17:participantRole		1 .. 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.4 Additional participant

 @classCode	CS	0 ... 1	F	ROL	
 h17:id	II	0 ... *	R		PaLM Suppl. APSR 2.1-3: 6.3.5.4 Additional participant
 h17:addr	AD	0 ... *	R		PaLM Suppl. APSR 2.1-3: 6.3.5.4 Additional participant
 h17:telecom	TEL	0 ... *	R		PaLM Suppl. APSR 2.1-3: 6.3.5.4 Additional participant
<i>Choice</i>		0 ... 1		Elements to choose from: <ul style="list-style-type: none"> <li>h17:playingDevice containing template 2.16.840.1.113883.10.12.315 <i>CDA Device</i> (2005-09-07)</li> <li>h17:playingEntity containing template 2.16.840.1.113883.10.12.313 <i>CDA PlayingEntity</i> (2005-09-07)</li> </ul>	
	Constraint	If the participationType is DEV, then the playingDevice sub-element SHALL be present and the playingEntity sub-element SHALL NOT be present. In all other cases the playingDevice sub-element SHALL NOT be present and the playingEntity sub-element SHALL be present.			
 h17:playingDevice		0 ... 1	C	Contains 2.16.840.1.113883.10.12.315 <i>CDA Device</i> (2005-09-07)	PaLM Suppl. APSR 2.1-3: 6.3.5.4 Additional participant
	Constraint	When the participant is a device at least one of the sub-elements code, softwareName and manufacturerModelName SHALL be present.			
 h17:playingEntity		0 ... 1	C	Contains 2.16.840.1.113883.10.12.313 <i>CDA PlayingEntity</i> (2005-09-07)	PaLM Suppl. APSR 2.1-3: 6.3.5.4 Additional participant
	Constraint	only name(s) SHALL be given			

### 6.3.5.5 <Anatomic Pathology Observation> - Child Element Content Module – 1.3.6.1.4.1.19376.1.8.1.4.9

#### 6.3.5.5.1 Definition and purpose

This Content Module is usable within a Problem Organizer.

The “AP Observation” generic template is usable for all AP observations, including those on findings from ancillary techniques.

An AP Observation has a status and an effective time, MAY describe various participants (persons, devices, organizations), MAY have a number of additional properties (method, interpretation, text), and MAY contain embedded images, comments, and sub-observations, which are also AP observations. For coding an AP observations LOINC codes SHOULD be used. For measurement results the UCUM system SHOULD be used.

Each kind of AP observation SHALL have one or more content modules "X specimen identified"

#### 6.3.5.5.2 Specification and Example

<b>Id</b>	1.3.6.1.4.1.19376.1.8.1.4.9	<b>Effective Date</b>	2014-05-14 17:09:54
<b>Status</b>	 Draft	<b>Version Label</b>	2.0
<b>Name</b>	APObservationEntry	<b>Display Name</b>	AP Observation Entry

##### Description

This content module is usable within a Problem organizer.

The “AP Observation” generic template is usable for all AP observations, including ancillary techniques.

An AP observation has a status and an effective time, may describe various participants (persons, devices, organizations), may have a number of additional properties (method, interpretation, text), and may contain embedded images, comments, and sub-observations, which are also AP observations.

<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.8.1.4.9
<b>Label</b>	PaLM TF Suppl. APSR 2.1-3: 6.3.5.5 AP observation
<b>Classification</b>	CDA Entry Level Template
<b>Open/Closed</b>	Open (other than defined elements are allowed)

<b>Associated with</b>	Associated with 3 concepts			
	<b>Id</b>	<b>Name</b>	<b>Data Set</b>	
	psr-dataelement-47	● Observation	● APSR 2.0	
	psr-dataelement-57	● Scoring systems	● APSR 2.0	
psr-dataelement-65	● Generic AP observation	● APSR 2.0		
<b>Uses</b>	Uses 10 templates			
	<b>Uses</b>	<b>as</b>	<b>Name</b>	<b>Version</b>
	1.3.6.1.4.1.19376.1.3.3.1.7	Containment	● Laboratory Performer (2017)	2008-08-08
	1.3.6.1.4.1.19376.1.8.1.4.2	Containment	● Author (2.0)	2016-06-21 14:02:11
	1.3.6.1.4.1.19376.1.8.1.4.6	Containment	● Informant (2.0)	2016-07-08 11:22:58
	1.3.6.1.4.1.19376.1.8.1.4.7	Containment	● Additional participant in an entry (2.0)	2016-07-12 18:44:06
	1.3.6.1.4.1.19376.1.8.1.4.9	Containment	● AP Observation Entry (2.0)	2014-05-14 17:09:54
	1.3.6.1.4.1.19376.1.8.1.4.10	Containment	● Embedded Image	2016-06-22 16:08:01
	2.16.840.1.113883.10.12.307	Containment	● CDA RegionOfInterest	2005-09-07
	1.3.6.1.4.1.19376.1.5.3.1.4.2	Containment	● IHE Comment Entry (2014)	2013-12-20
	1.3.6.1.4.1.19376.1.3.10.9.1	Include	● X Specimen Identified (2.0)	2014-12-22 15:54:30
2.16.840.1.113883.10.12.324	Containment	● CDA Reference	2005-09-07	
<b>Relationship</b>	Specialization: template 2.16.840.1.113883.10.12.303 (2005-09-07)			

Example

Observation example for use case #1, estrogen receptor

```
<observation classCode="OBS" moodCode="EVN" negationInd="false">
  <templateId root="1.3.6.1.4.1.19376.1.8.1.4.9"/>
  <id root="1.3.6.1.4.1.19376.1.8.9.1" extension="A7102400008_ER"/>
  <code code="16112-5" codeSystem="2.16.840.1.113883.6.1" displayName="Estrogen receptor [Interpretation] in Tissue"/>
  <statusCode code="completed"/>
  <effectiveTime>
    <low value="201001041405-0500"/>
  </effectiveTime>
  <value xsi:type="CD" code="416053008" displayName="Estrogen receptor positive tumor (disorder)"
codeSystem="2.16.840.1.113883.6.96"/>
  <methodCode code="0107" displayName="Microscopy" codeSystem="2.16.840.1.113883.5.84"/>
  <performer>
    <!-- template 1.3.6.1.4.1.19376.1.3.3.1.7 'CDA Performer IHE (Body)' (dynamic) -->
  </performer>
  <author>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author' (dynamic) -->
  </author>
  <informant>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant(Body) APSR2' (dynamic) -->
  </informant>
  <participant>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.7 'Additional participant in an entry APSR (Body)' (dynamic) -->
  </participant>
  <entryRelationship xsi:type="" typeCode="COMP">
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.9 'AP Observation Entry' -->
  </entryRelationship>
  <entryRelationship xsi:type="" typeCode="COMP">
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.10 'Embedded Image IHE' -->
  </entryRelationship>
  <entryRelationship xsi:type="" typeCode="COMP">
    <!-- template 2.16.840.1.113883.10.12.307 'CDA RegionOfInterest' -->
  </entryRelationship>
  <specimen typeCode="SPC">
    <specimenRole classCode="SPEC">
      <id root="1.3.6.1.4.1.19376.1.8.9" extension="A7102400008_slide_A1_ER"/>
    </specimenRole>
  </specimen>
  <reference>
    <!-- template 2.16.840.1.113883.10.12.324 'CDA Reference' (dynamic) -->
  </reference>
</observation>
```






Item	DT	Card	Conf	Description	Label
hl7:observation		0 ... *	R		PaLM TF Suppl. APSR 2.1-3:



					6.3.5.5 AP observation
	<ul style="list-style-type: none"> <li> psr-dataelement-47</li> <li>psr-dataelement-57</li> <li>psr-dataelement-65</li> </ul>	<ul style="list-style-type: none"> <li> Observation</li> <li> Scoring systems</li> <li> Generic AP observation</li> </ul>	<ul style="list-style-type: none"> <li> APSR 2.0</li> <li> APSR 2.0</li> <li> APSR 2.0</li> </ul>		
└ @classCode	CS	1 ... 1	F	OBS	
└ @moodCode	CS	1 ... 1	F	EVN	
└ @negationInd	bl	0 ... 1			
└ h17:templateId	II	1 ... 1	M		PaLM TF Suppl. APSR 2.1-3: 6.3.5.5 AP observation
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.8.1.4.9	
└ h17:id	II	0 ... *	R		PaLM TF Suppl. APSR 2.1-3: 6.3.5.5 AP observation
└ h17:code	CE (extensible)	1 ... 1	M	The Anatomic pathology observation code should be taken from a reference terminology, preferably the LOINC terminology. National terminologies may be used.	PaLM TF Suppl. APSR 2.1-3: 6.3.5.5 AP observation
└ @code	CONF	1 ... 1	F	each_code_for_observable_entities_or_a_specific_procedure	

<ul style="list-style-type: none"> <li>└ @codeSystem</li> <li>└ @codeSystemName</li> <li>└ @displayName</li> </ul>		1 ... 1	F	2.16.840.1.113883.6.1 (LOINC)	
		1 ... 1	F	LOINC	
		1 ... 1	F	see_above	
	Example	<pre>&lt;code code="59847-4" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Histology and Behavior ICD-0-3"/&gt;</pre>			
└ h17:text	ED	0 ... 1	R	Narrative text about the observation	PaLM TF Suppl. APSR 2.1-3: 6.3.5.5 AP observation
└ h17:statusCode	CS (required)	1 ... 1	M	The observation statusCode is "completed" if the observation was actually performed and has produced a result in the valueelement. In other cases the status of the intended observation is "aborted" and the result will never come.	PaLM TF Suppl. APSR 2.1-3: 6.3.5.5 AP observation
	Constraint	@code shall be "completed" or @code shall be "aborted"			
	CONF	The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933 ActStatus (2014-03-26)			
└ h17:effectiveTime	IVL_TS	1 ... 1	M	Date and time the observation has been made	PaLM TF Suppl. APSR 2.1-3: 6.3.5.5 AP observation

<p>h17:value</p>	<p>ANY</p>	<p>0 ... *</p>	<p>R</p>	<p>Observation values using the appropriate data type. Numeric results use data type PQ, which includes the unit. The result is absent in case of 'aborted' observation.</p>	<p>PaLM TF Suppl. APSR 2.1-3: 6.3.5.5 AP observation</p>
<p>Constraint</p>		<p>The default data type, cardinalities and value set for the &lt;value&gt; element are dependant on the type of observation.</p>			
<p>CONF</p>		<p>The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.11 AP <i>Observation</i> (2015-11-22 12:20:34)</p>			
<p>Example</p>		<p>for observation on tumor type  <pre>&lt;value code="8500/3" codeSystem="2.16.840.1.113883.6.43.1" codeSystemName="ICD-O-3" displayName="Invasive carcinoma of the breast, no special type"/&gt;</pre> </p>			
<p>h17:interpretationCode</p>	<p>CE (extensible)</p>	<p>0 ... 1</p>	<p>R</p>	<p>One or more codes interpreting the result, expressed with ObservationInterpretation vocabulary (e.g., H = high, L = low).  This element may be coded with other values than those of the ObservationInterpretation vocabulary, given that the coding strength is CWE (coded with exceptions).</p>	<p>PaLM TF Suppl. APSR 2.1-3: 6.3.5.5 AP observation</p>
<p>CONF</p>		<p>The value of @code should be drawn from value set 2.16.840.1.113883.1.11.78 <i>ObservationInterpretation</i> (2014-03-26)</p>			
<p>h17:methodCode</p>	<p>CE (extensible)</p>	<p>0 ... 1</p>	<p>R</p>		<p>PaLM TF Suppl. APSR 2.1-3: 6.3.5.5 AP observation</p>
<p>CONF</p>		<p>The value of @code should be drawn from value set 2.16.840.1.113883.1.11.14079 <i>ObservationMethod</i> (2014-03-26)</p>			

 <b>h17:performer</b>	II	0 ... 1	C	Performing lab Source: PaLM TF-3: 6.3.2.20 Contains 1.3.6.1.4.1.19376.1.3.3.1.7 <i>Laboratory Performer</i> (2008-08-08)	PaLM TF Suppl. APSR 2.1-3: 6.3.5.5 AP observation
where [h17:assignedEntity]					
	Constraint	The performing laboratory is present at this level only if this particular observation was performed by a (subcontractor) laboratory distinct from the one issuing the rest of the observations in this organizer.			
 <b>h17:author</b>	II	0 ... *	C	Author Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.2 Contains 1.3.6.1.4.1.19376.1.8.1.4.2 <i>Author</i> (2016-06-21 14:02:11)	PaLM TF Suppl. APSR 2.1-3: 6.3.5.5 AP observation
where [h17:author]					
 <b>h17:informant</b>	II	0 ... *	R	Informant Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.5 Contains 1.3.6.1.4.1.19376.1.8.1.4.6 <i>Informant</i> (2016-07-08 11:22:58)	PaLM TF Suppl. APSR 2.1-3: 6.3.5.5 AP observation
 <b>h17:participant</b>	II	0 ... *	R	Additional participants Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.6 Contains 1.3.6.1.4.1.19376.1.8.1.4.7 <i>Additional participant in an entry</i> (2016-07-12 18:44:06)	PaLM TF Suppl. APSR 2.1-3: 6.3.5.5 AP observation
where [h17:participantRole]					
 <b>h17:entryRelationship</b>		0 ... *	R	Sub-Observation The result obtained for an observation may lead to an additional AP	PaLM TF Suppl. APSR

				<p>observation to refine this result. This sub-observation is again an Anatomic Pathology Observation.</p> <p>Source: Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.7</p> <p>Contains 1.3.6.1.4.1.19376.1.8.1.4.9 <i>AP Observation Entry</i> (2014-05-14 17:09:54)</p>	<p>2.1-3: 6.3.5.5 AP observation</p>
<p>where [hl7:observation [hl7:code [(@code = 'each_code_for_observable_entities_or_a_specific_procedure' and @codeSystem = '2.16.840.1.113883.6.1')]]]</p>					
└ @typeCode	CS	1 ... 1	F	COMP	
				<p>Embedded image.</p> <p>This observation may carry an illustrative image, either directly embedded or encapsulated within a region of interest.</p> <p>Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.8</p> <p>Contains 1.3.6.1.4.1.19376.1.8.1.4.10 <i>Embedded Image</i> (2016-06-22 16:08:01)</p>	<p>PaLM TF Suppl. APSR 2.1-3: 6.3.5.5 AP observation</p>
└ hl7:entryRelationship		0 ... *	R		
<p>where [hl7:observationMedia]</p>					
└ @typeCode	CS	1 ... 1	F	COMP	
				<p>Region of Interest</p> <p>Contains 2.16.840.1.113883.10.12.307 <i>CDA RegionOfInterest</i> (2005-09-07)</p>	<p>PaLM TF Suppl. APSR 2.1-3: 6.3.5.5 AP observation</p>
└ hl7:entryRelationship		0 ... *	R		

where [hl7:regionOfInterest [hl7:code [@code = doc('include/voc-2.16.840.1.113883.1.11.16117-DYNAMIC.xml')//valueSet [1]/conceptList/*/@code or @nullFlavor]]]					
└ @typeCode	cs	1 ... 1	F	COMP	
	Constraint	This observation may carry an illustrative image, either directly embedded or encapsulated within a region of interest. In the latter case by an entryRelationship @typeCode="SUBJ"			
└ hl7:entryRelationship		0 ... *	R	Annotation comment  Contains 1.3.6.1.4.1.19376.1.5.3.1.4.2 IHE Comment Entry (2013-12-20)	PaLM TF Suppl. APSR 2.1-3: 6.3.5.5 AP observation
where [hl7:act [hl7:code [(@code = '48767-8' and @codeSystem = '2.16.840.1.113883.6.1')]]]					
└ @typeCode	cs	0 ... 1	F	COMP	
Included		1 ... *	M	from 1.3.6.1.4.1.19376.1.3.10.9.1 X Specimen Identified (2014-12-22 15:54:30) Specimen identification	
	Example	Example for specimen referencing <pre>&lt;specimen&gt;   &lt;!-- which specimen is used for this observation --&gt;   &lt;specimenRole&gt;     &lt;id root="1.3.6.1.4.1.19376.1.8.1.4.999999" extension="slide_A_1_PR"/&gt;   &lt;/specimenRole&gt; &lt;/specimen&gt;</pre>			
└ hl7:specimen		1 ... *	M	Required in XD-LAB when more than one specimen is documented at this level. Always required in APSR.	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified

 psr-dataelement-17  Specimen identification  APSR 2.0					
L @typeCode	CS	0 ... 1	F	SPC	
L h17:specimenRole		1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
L @classCode	CS	0 ... 1	F	SPEC	
L h17:id	II	1 ... 1	R	Specimen ID, coming from the LIS	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
 psr-dataelement-95  Parent ID  APSR 2.0 psr-dataelement-67  Block ID  APSR 2.0 psr-dataelement-66  Part ID  APSR 2.0 psr-dataelement-98  Specimen ID  APSR 2.0 psr-dataelement-68  Tissue section ID  APSR 2.0					
L h17:reference		0 ... *	R	Reference to an external document, or to external observations, e.g. concerning molecular pathology or genetic testing report Contains 2.16.840.1.113883.10.12.324 CDA Reference (2005-09-07)	PaLM TF Suppl. APSR 2.1-3: 6.3.5.5 AP observation

### 6.3.5.6 <Embedded Image> - Child Element Content Module – 1.3.6.1.4.1.19376.1.8.1.4.10


#### 6.3.5.6.1 Definition and purpose

This Content Module is usable within an <entry> element, in relationship with a display anchor carried in the *referencedObject* attribute of a <renderMultimedia> element in the <text> element of the <section> holding this <entry>.

The <observationMedia> element carries an image, embedded in B64. This element may be standalone, or encapsulated within a <regionOfInterest> element which defines an overlay shape to focus on a part of the image.

This <observationMedia> element embeds the image binary data, encoded in B64.

#### 6.3.5.6.2 Specification and Example

<b>Id</b>	1.3.6.1.4.1.19376.1.8.1.4.10	<b>Effective Date</b>	2016-06-22 16:08:01
<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	EmbeddedImageIHE	<b>Display Name</b>	Embedded Image

#### Description

Template CDA ObservationMedia (prototype, directly derived from POCD\_RM000040 MIF)

This Content Module is usable within an <entry> element, in relationship with a display anchor carried in the *referencedObject* attribute of a <renderMultimedia> element in the <text> element of the <section> holding this <entry>.

The <observationMedia> element carries an image, embedded in B64. This element may be standalone, or encapsulated within a <regionOfInterest> element which defines an overlay shape to focus on a part of the image.

This <observationMedia> element embeds the image binary data, encoded in B64.










<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.8.1.4.10
<b>Label</b>	PaLM TF-3: 6.3.4.14 Embedded image




















<b>Classification</b>	CDA Entry Level Template																								
<b>Open/Closed</b>	Open (other than defined elements are allowed)																								
<b>Associated with</b>	Associated with 6 concepts																								
	<table border="1"> <thead> <tr> <th>Id</th> <th>Name</th> <th>Data Set</th> </tr> </thead> <tbody> <tr> <td>psr-dataelement-92</td> <td>Macroscopic image</td> <td>APSR 2.0</td> </tr> <tr> <td>psr-dataelement-93</td> <td>ROI</td> <td>APSR 2.0</td> </tr> <tr> <td>psr-dataelement-71</td> <td>Embedded Image</td> <td>APSR 2.0</td> </tr> <tr> <td>psr-dataelement-91</td> <td>Drawing</td> <td>APSR 2.0</td> </tr> <tr> <td>psr-dataelement-37</td> <td>Microscopic Image</td> <td>APSR 2.0</td> </tr> <tr> <td>psr-dataelement-69</td> <td>Image ID</td> <td>APSR 2.0</td> </tr> </tbody> </table>	Id	Name	Data Set	psr-dataelement-92	Macroscopic image	APSR 2.0	psr-dataelement-93	ROI	APSR 2.0	psr-dataelement-71	Embedded Image	APSR 2.0	psr-dataelement-91	Drawing	APSR 2.0	psr-dataelement-37	Microscopic Image	APSR 2.0	psr-dataelement-69	Image ID	APSR 2.0			
	Id	Name	Data Set																						
	psr-dataelement-92	Macroscopic image	APSR 2.0																						
	psr-dataelement-93	ROI	APSR 2.0																						
	psr-dataelement-71	Embedded Image	APSR 2.0																						
	psr-dataelement-91	Drawing	APSR 2.0																						
psr-dataelement-37	Microscopic Image	APSR 2.0																							
psr-dataelement-69	Image ID	APSR 2.0																							
<b>Uses</b>	Uses 5 templates																								
	<table border="1"> <thead> <tr> <th>Uses</th> <th>as</th> <th>Name</th> <th>Version</th> </tr> </thead> <tbody> <tr> <td>1.3.6.1.4.1.19376.1.3.10.9.1</td> <td>Include</td> <td>X Specimen Identified (2.0)</td> <td>2014-12-22 15:54:30</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.3.3.1.7</td> <td>Containment</td> <td>Laboratory Performer (2017)</td> <td>2008-08-08</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.8.1.4.2</td> <td>Containment</td> <td>Author (2.0)</td> <td>2016-06-21 14:02:11</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.8.1.4.6</td> <td>Containment</td> <td>Informant (2.0)</td> <td>2016-07-08 11:22:58</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.5.3.1.4.2</td> <td>Containment</td> <td>IHE Comment Entry (2014)</td> <td>2013-12-20</td> </tr> </tbody> </table>	Uses	as	Name	Version	1.3.6.1.4.1.19376.1.3.10.9.1	Include	X Specimen Identified (2.0)	2014-12-22 15:54:30	1.3.6.1.4.1.19376.1.3.3.1.7	Containment	Laboratory Performer (2017)	2008-08-08	1.3.6.1.4.1.19376.1.8.1.4.2	Containment	Author (2.0)	2016-06-21 14:02:11	1.3.6.1.4.1.19376.1.8.1.4.6	Containment	Informant (2.0)	2016-07-08 11:22:58	1.3.6.1.4.1.19376.1.5.3.1.4.2	Containment	IHE Comment Entry (2014)	2013-12-20
	Uses	as	Name	Version																					
	1.3.6.1.4.1.19376.1.3.10.9.1	Include	X Specimen Identified (2.0)	2014-12-22 15:54:30																					
	1.3.6.1.4.1.19376.1.3.3.1.7	Containment	Laboratory Performer (2017)	2008-08-08																					
	1.3.6.1.4.1.19376.1.8.1.4.2	Containment	Author (2.0)	2016-06-21 14:02:11																					
1.3.6.1.4.1.19376.1.8.1.4.6	Containment	Informant (2.0)	2016-07-08 11:22:58																						
1.3.6.1.4.1.19376.1.5.3.1.4.2	Containment	IHE Comment Entry (2014)	2013-12-20																						
<b>Relationship</b>	Specialization: template 2.16.840.1.113883.10.12.304 (2005-09-07)																								
<b>Example</b>	generated example																								

```

<observationMedia classCode="OBS" moodCode="EVN">
  <templateId root="1.3.6.1.4.1.19376.1.8.1.4.10"/>
  <id root="1.2.3.999" extension="--example only--"/>
  <languageCode code="en"/>
  <value mediaType="application" representation="B64"/>
  <!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (2014-12-22T15:54:30) 1..1 M -->
  <performer>
    <!-- template 1.3.6.1.4.1.19376.1.3.3.1.7 'Laboratory Performer' (2008-08-08T00:00:00) -->
  </performer>
  <author>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author IHE' (2016-06-21T14:02:11) -->
  </author>
  <informant>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant(Header&Body) APSR2' (2016-07-08T11:22:58) -->
  </informant>
  <entryRelationship negationInd="false" typeCode="SUBJ" inversionInd="true" contextConductionInd="true">
    <sequenceNumber value="1"/>
    <!-- template 1.3.6.1.4.1.19376.1.5.3.1.4.2 'IHE Comment Entry' (2013-12-20T00:00:00) -->
  </entryRelationship>
</observationMedia>
    
```

Item	DT	Card	Conf	Description	Label
h17:observationMedia		0 ... *	R	Embedded Image	PaLM TF-3: 6.3.4.14 Embedded image
		 psr-dataelement-92 psr-dataelement-93 psr-dataelement-71 psr-dataelement-91 psr-dataelement-37		Macroscopic image ROI Embedded Image Drawing Microscopic Image	 APSR 2.0  APSR 2.0  APSR 2.0  APSR 2.0  APSR 2.0
 @classCode	CS	1 ... 1	F	OBS	
 @moodCode	CS	1 ... 1	F	EVN	
 h17:templateId	II	1 ... 1	M		PaLM TF-3:

					6.3.4.14 Embedded image
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.8.1.4.10	
└ hl7:id	II	0 ... *	R	The ID attribute is pointed to by the anchor in the <i>referencedObject</i> attribute of a <renderMultimedia> element in the <text> element of the <section> holding this <entry>.	PaLM TF-3: 6.3.4.14 Embedded image
<div style="border: 1px solid black; background-color: #e0ffe0; padding: 5px; display: flex; justify-content: space-around;"> <span> psr-dataelement-69</span> <span> Image ID</span> <span> APSR 2.0</span> </div>					
└ hl7:value		1 ... 1	R		PaLM TF-3: 6.3.4.14 Embedded image
└ @representation	cs	1 ... 1	F	B64	
└ @mediaType	cs	1 ... 1	R	The mediaType attribute specifies the type of media/application to be used to display the image. For instance 'image/gif' or 'image/jpeg'.	
	CONF	The value of @mediaType shall be drawn from value set 2.16.840.1.113883.1.11.14824 <i>MediaType</i> (DYNAMIC)			
	Constraint	The <value> element contains the image encoded in Base 64. This is indicated by the value "B64" of attribute <i>representation</i> .			
Included		1 ... 1	M	from 1.3.6.1.4.1.19376.1.3.10.9.1 X <i>Specimen Identified</i> (2014-12-22 15:54:30)	
└ hl7:specimen		1 ... 1	M	Required in XD-LAB when more than one specimen is documented at this level. Always required in APSR.	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen

					identified
	 psr-dataelement-17  Specimen identification  APSR 2.0				
└ @typeCode	CS	0 ... 1	F	SPC	
└ h17:specimenRole		1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
└ @classCode	CS	0 ... 1	F	SPEC	
└ h17:id	II	1 ... 1	R	Specimen ID, coming from the LIS	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
	 psr-dataelement-95  Parent ID  APSR 2.0 psr-dataelement-67  Block ID  APSR 2.0 psr-dataelement-66  Part ID  APSR 2.0 psr-dataelement-98  Specimen ID  APSR 2.0 psr-dataelement-68  Tissue section ID  APSR 2.0				
└ h17:performer		0 ... *	C	Contains 1.3.6.1.4.1.19376.1.3.3.1.7 <i>Laboratory Performer</i> (2008-08-08)	PaLM TF-3: 6.3.4.14 Embedded image
where [h17:assignedEntity]					


L h17:author		0 ... *	C	Contains 1.3.6.1.4.1.19376.1.8.1.4.2 <i>Author</i> (2016-06-21 14:02:11)	PaLM TF-3: 6.3.4.14 Embedded image
where [h17:author]					
L h17:informant		0 ... *	R	Contains 1.3.6.1.4.1.19376.1.8.1.4.6 <i>Informant</i> (2016-07-08 11:22:58)	PaLM TF-3: 6.3.4.14 Embedded image
L h17:entryRelationship		0 ... *	R	Comment on this image. Source: PCC TF-2: 6.3.4.6 Contains 1.3.6.1.4.1.19376.1.5.3.1.4.2 <i>IHE Comment Entry</i> (2013-12-20)	PaLM TF-3: 6.3.4.14 Embedded image
where [h17:act [h17:code [(@code = '48767-8' and @codeSystem = '2.16.840.1.113883.6.1')]]]					
L @typeCode	cs	1 ... 1	F	SUBJ	
L @inversionInd	bl	0 ... 1	F	true	

### 6.3.5.7 <X Specimen Identified> - Child Element Content Module - 1.3.6.1.4.1.19376.1.3.10.9.1

#### 6.3.5.7.1 Definition and purpose

This Specimen Identification <entry> provides the machine-readable links between any type of procedure or observation or embedded image or containers to the specimen, on that this procedure is performed (parent specimen), or from which this observation or image is obtained. It is required when more than one specimen is documented at this level. It is only used in PaLM templates for Problem Organizer, Specimen Procedure Steps, Observations, Embedded images, and Containers in Specimen Procedure Steps.

### 6.3.5.7.2 Specification and Example

<b>Id</b>	1.3.6.1.4.1.19376.1.3.10.9.1	<b>Effective Date</b>	2014-12-22 15:54:30
<b>Status</b>	 Draft	<b>Version Label</b>	2.0
<b>Name</b>	SpecimenIdentified	<b>Display Name</b>	X Specimen Identified













**Description**

Template CDA Specimen (prototype, directly derived from POCD\_RM000040 MIF)

Entry template for linking specimen ID to observation or to procedure.  
Required in XD-LAB when more than one specimen is documented at this level.

<b>Label</b>	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
<b>Classification</b>	CDA Entry Level Template
<b>Open/Closed</b>	Open (other than defined elements are allowed)

**Associated with 6 concepts**

Id	Name	Data Set
psr-dataelement-95	 Parent ID	 APSR 2.0
psr-dataelement-17	 Specimen identification	 APSR 2.0
psr-dataelement-67	 Block ID	 APSR 2.0
psr-dataelement-66	 Part ID	 APSR 2.0
psr-dataelement-98	 Specimen ID	 APSR 2.0
psr-dataelement-68	 Tissue section ID	 APSR 2.0

<b>Relationship</b>	Specialization: template 2.16.840.1.113883.10.12.322 (2005-09-07)
---------------------	---

<b>Example</b>	Example
----------------	---------

```

<specimen typeCode="SPC">
  <specimenRole classCode="SPEC">
    <id root="1.2.3.999" extension="--example only, coming from the LIS--"/>
  </specimenRole>
</specimen>
    
```

Item	DT	Card	Conf	Description	Label
h17:specimen		0 ... 1	R	Required in XD-LAB when more than one specimen is documented at this level. Always required in APSR.	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
 psr-dataelement-17  Specimen identification  APSR 2.0					
└ @typeCode	CS	0 ... 1	F	SPC	
└ h17:specimenRole		1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
└ @classCode	CS	0 ... 1	F	SPEC	
└ h17:id	II	1 ... 1	R	Specimen ID, coming from the LIS	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
 psr-dataelement-95  Parent ID  APSR 2.0					

psr-dataelement-67	● Block ID	● APSR 2.0
psr-dataelement-66	● Part ID	● APSR 2.0
psr-dataelement-98	● Specimen ID	● APSR 2.0
psr-dataelement-68	● Tissue section ID	● APSR 2.0

### **6.3.5.8 <UICC/AJCC TNM Staging and Grading> - Child Element Content Module - 1.3.6.1.4.1.19376.1.3.10.4.2**

#### **6.3.5.8.1 Definition and purpose**

The UICC/AJCC TNM <entry> Content Modul is a template for a complex structured observation usable in tumor pathology contexts. It contains in machine-readable form all the information concerning a TNM formula for a problem investigated. It is a constraint version of an AP Generic observation <entry> Content Module. It is usable within a Problem Organizer <entry> Content Module only.

This Content Module structures the machine-readable data, which characterize the staging and grading of a malignant tumor according the UICC/ AJCC regulations for the TNM system. A series of supporting templates is used for all the detailed descriptions of the elements of the TNM system. Value sets are mentioned for the most recent UICC/AJCC 8th edition and its immediate predecessor 7th edition only.



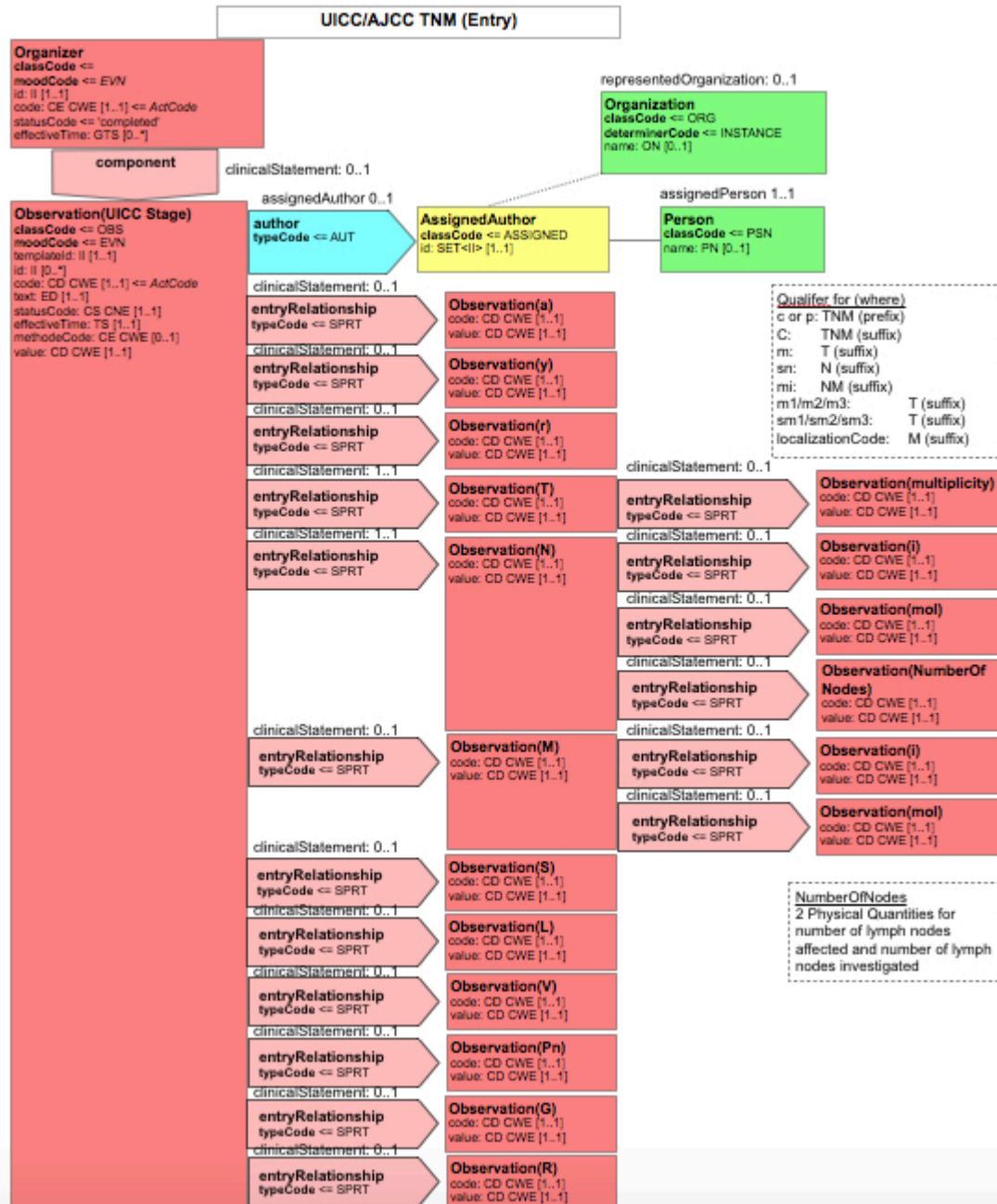








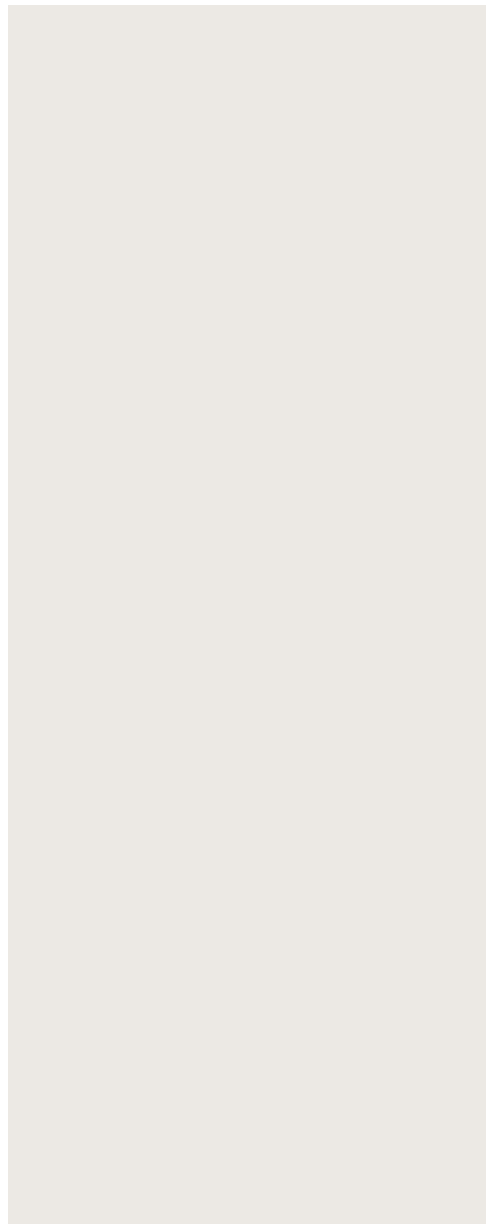


Figure 6.3.5.8.1-1 CDA-R-MIM of the UICC/AJCC TNM <entry>

6.3.5.8.2 Specification and Example

<b>Id</b>	1.3.6.1.4.1.19376.1.3.10.4.2	<b>Effective Date</b>	2014-05-13 15:45:13	
<b>Status</b>	 Draft	<b>Version Label</b>	2.0	
<b>Name</b>	TNMStageObservation	<b>Display Name</b>	UICC/AJCC TNM Staging and Grading Observation	
<b>Description</b>	Template CDA Observation (prototype, directly derived from POCD_RM000040 MIF) TNM stage with supporting categories			
<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.4.2			
<b>Label</b>	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM			
<b>Classification</b>	CDA Entry Level Template			
<b>Open/Closed</b>	Open (other than defined elements are allowed)			
<b>Associated with</b>	Associated with 2 concepts			
	<b>Id</b>	<b>Name</b>	<b>Data Set</b>	
	psr-dataelement-13	 Observation Timestamp	 APSR 2.0	
psr-dataelement-74	 Stage	 APSR 2.0		
<b>Uses</b>	Uses 17 templates			
	<b>Uses</b>	<b>as</b>	<b>Name</b>	<b>Version</b>
	1.3.6.1.4.1.19376.1.3.3.1.7	Containment	 Laboratory Performer (2017)	2008-08-08
	1.3.6.1.4.1.19376.1.8.1.4.2	Containment	 Author (2.0)	2016-06-21 14:02:11
1.3.6.1.4.1.19376.1.8.1.4.6	Containment	 Informant (2.0)	2016-07-08	




			11:22:58
1.3.6.1.4.1.19376.1.8.1.4.7	Containment	● Additional participant in an entry (2.0)	2016-07-12 18:44:06
1.3.6.1.4.1.19376.1.3.10.9.1	Include	● X Specimen Identified (2.0)	2014-12-22 15:54:30
1.3.6.1.4.1.19376.1.3.10.9.32	Containment	● TNM y (2.0)	2015-06-22 17:28:17
1.3.6.1.4.1.19376.1.3.10.9.30	Containment	● TNM a (2.0)	2015-06-22 15:13:46
1.3.6.1.4.1.19376.1.3.10.9.31	Containment	● TNM r (2.0)	2015-06-22 17:38:42
1.3.6.1.4.1.19376.1.3.10.9.25	Containment	● TNM T-Observation (2.0)	2014-12-02 15:54:17
1.3.6.1.4.1.19376.1.3.10.9.26	Containment	● TNM N-Observation (2.0)	2014-12-02 16:34:50
1.3.6.1.4.1.19376.1.3.10.9.27	Containment	● TNM M-Observation (2.0)	2014-12-02 16:32:30
1.3.6.1.4.1.19376.1.3.10.9.33	Containment	● TNM Serum tumor markers (2.0)	2015-11-06 14:28:44
1.3.6.1.4.1.19376.1.3.10.9.34	Containment	● TNM Lymphatic Invasion (2.0)	2015-11-16 14:01:58
1.3.6.1.4.1.19376.1.3.10.9.35	Containment	● TNM Venous Invasion (2.0)	2015-11-16 13:40:28
1.3.6.1.4.1.19376.1.3.10.9.36	Containment	● TNM Perineural Invasion (2.0)	2015-11-11 16:13:40
1.3.6.1.4.1.19376.1.3.10.9.28	Containment	● TNM Grading (2.0)	2015-11-15 13:01:18
1.3.6.1.4.1.19376.1.3.10.9.29	Containment	● TNM R-status (2.0)	2015-06-30 13:38:30




Relationship	Specialization: template 1.3.6.1.4.1.19376.1.8.1.4.9 (2014-05-14 17:09:54)
<p>Example</p>	<p>Generated example</p> <pre> &lt;observation classCode="OBS" moodCode="ENV" negationInd="false"&gt;   &lt;templateId root="1.3.6.1.4.1.19376.1.3.10.4.2"/&gt;   &lt;id root="1.2.3.999" extension="--example only--"/&gt;   &lt;code code="21902-2" codeSystem="2.16.840.1.113883.6.1"/&gt;   &lt;text/&gt;   &lt;statusCode code="completed"/&gt;   &lt;effectiveTime&gt;     &lt;low value="20170712152253"/&gt;   &lt;/effectiveTime&gt;   &lt;value xsi:type="CD" code="IIA" displayName="stage IIA" codeSystem="2.16.840.1.113883.15.6"/&gt;   &lt;performer&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.3.3.1.7 'Laboratory Performer' (2008-08-08T00:00:00) --&gt;   &lt;/performer&gt;   &lt;author&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author IHE' (2016-06-21T14:02:11) --&gt;   &lt;/author&gt;   &lt;informant&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant(Header&amp;Body) APSR2' (2016-07-08T11:22:58) --&gt;   &lt;/informant&gt;   &lt;participant&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.8.1.4.7 'Additional participant in an entry APSR (Body)' (2016-07-12T18:44:06) --&gt;   &lt;/participant&gt;   &lt;!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (2014-12-22T15:54:30) 1..* M --&gt;   &lt;entryRelationship&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.3.10.9.32 'TNM y' (2015-06-22T17:28:17) --&gt;   &lt;/entryRelationship&gt;   &lt;entryRelationship&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.3.10.9.30 'TNM a ' (2015-06-22T15:13:46) --&gt;   &lt;/entryRelationship&gt;   &lt;entryRelationship&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.3.10.9.31 'TNM r' (2015-06-22T17:38:42) --&gt;   &lt;/entryRelationship&gt;   &lt;entryRelationship&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.3.10.9.25 'TNM T-Observation' (2014-12-02T15:54:17) --&gt;   &lt;/entryRelationship&gt;   &lt;entryRelationship&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.3.10.9.26 'TNM N-Observation' (2014-12-02T16:34:50) --&gt;   &lt;/entryRelationship&gt;   &lt;entryRelationship&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.3.10.9.27 'TNM M-Observation' (2014-12-02T16:32:30) --&gt;   &lt;/entryRelationship&gt;   &lt;entryRelationship&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.3.10.9.33 'TNM Serum tumor markers' (2015-11-06T14:28:44) --&gt;   &lt;/entryRelationship&gt;   &lt;entryRelationship&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.3.10.9.34 'TNM Lymphatic Invasion' (2015-11-16T14:01:58) --&gt;   &lt;/entryRelationship&gt;   &lt;entryRelationship&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.3.10.9.35 'TNM Venous Invasion' (2015-11-16T13:40:28) --&gt;   &lt;/entryRelationship&gt; </pre>




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</entryRelationship>
<entryRelationship>
  <!-- template 1.3.6.1.4.1.19376.1.3.10.9.36 'TNM Perineural Invasion' (2015-11-11T16:13:40) -->
</entryRelationship>
<entryRelationship>
  <!-- template 1.3.6.1.4.1.19376.1.3.10.9.28 'TNM Grading' (2015-11-15T13:01:18) -->
</entryRelationship>
<entryRelationship>
  <!-- template 1.3.6.1.4.1.19376.1.3.10.9.29 'TNM R-status' (2015-06-30T13:38:30) -->
</entryRelationship>
</observation>
    
```

Item	DT	Card	Conf	Description	Label
h17:observation		0 ... *	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
<div style="display: flex; justify-content: space-between; align-items: center;"> <span> psr-dataelement-74</span> <span> Stage</span> <span> APSR 2.0</span> </div>					
 @classCode	cs	1 ... 1	F	OBS	
 @moodCode	cs	1 ... 1	F	ENV	
 @negationInd	bl	0 ... 1			
 h17:templateId	II	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
 @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.3.10.4.2	
 h17:id	II	0 ... *	R		PaLM Suppl.

					APSR 2.1-3: 6.3.5.8 TNM
<span style="font-family: monospace;">└</span> <code>h17:code</code>	<b>CE</b> (extensible)	<b>1 ... 1</b>	<b>M</b>		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
	<b>CONF</b>	<p>@code shall be "21902-2"                  @codeSystem shall be "2.16.840.1.113883.6.1"                  @codeSystemName shall be "LOINC"                  or                  @code shall be "tnmStage"                  @codeSystem shall be "1.2.276.0.76.3.1.131.1.5.1"                  @codeSystemName shall be "DKG Coding Scheme"                  @displayName shall be "tumor stage"</p>			
<span style="font-family: monospace;">└</span> <code>h17:text</code>	<b>ED</b>	<b>0 ... 1</b>	<b>R</b>		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
	<b>Example</b>	<p>&lt;text&gt; PATHOLOGIC STAGE (AJCC 7th Edition): IIA &lt;/text&gt;</p>			
<span style="font-family: monospace;">└</span> <code>h17:statusCode</code>	<b>CS</b> (required)	<b>1 ... 1</b>	<b>M</b>	The observation statusCode is "completed" if the observation was actually performed and has produced a result in the value element. In other cases the status of the intended observation is "aborted" and the result will never come.	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
	<b>Constraint</b>	<p>@code shall be "completed"</p>			

			or @code shall be "aborted"		
	CONF	The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933 <i>ActStatus</i> (2014-03-26)			
└ h17:effectiveTime	IVL_TS	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
		 psr-dataelement-13  Observation Timestamp  APSR 2.0			
└ h17:value	CD (extensible)	0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
	CONF	The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.46 <i>UICC Stage</i> (2017-07-21 10:43:31)			
└ h17:performer	II	0 ... 1	C	Performing lab Source: PaLM TF-3: 6.3.2.20 Contains 1.3.6.1.4.1.19376.1.3.3.1.7 <i>Laboratory Performer</i> (2008-08-08)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
where [h17:assignedEntity]					
	Constraint	The performing laboratory is present at this level only if this particular observation was performed by a (subcontractor) laboratory distinct from the one issuing the rest of the observations in this organizer.			
└ h17:author	II	0 ... *	C	Author	PaLM Suppl.

				Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.2 Contains 1.3.6.1.4.1.19376.1.8.1.4.2 <i>Author</i> (2016-06-21 14:02:11)	APSR 2.1-3: 6.3.5.8 TNM
where [hl7:author]					
└ hl7:informant	II	0 ... *	R	Informant Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.5 Contains 1.3.6.1.4.1.19376.1.8.1.4.6 <i>Informant</i> (2016-07-08 11:22:58)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└ hl7:participant	II	0 ... *	R	Additional participants Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.6 Contains 1.3.6.1.4.1.19376.1.8.1.4.7 <i>Additional participant in an entry</i> (2016-07-12 18:44:06)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
where [hl7:participantRole]					
Included		1 ... *	M	from 1.3.6.1.4.1.19376.1.3.10.9.1 X <i>Specimen Identified</i> (2014-12-22 15:54:30)	
└ hl7:specimen		1 ... *	M	Required in XD-LAB when more than one specimen is documented at this level. Always required in APSR.	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
 psr-dataelement-17  Specimen identification  APSR 2.0					
└ @typeCode	CS	0 ... 1	F	SPC	
└ hl7:specimenRole		1 ... 1	M		PaLM Suppl.



					APSR 2.1-3: 6.3.5.7 X Specimen identified															
└ @classCode	CS	0 ... 1	F	SPEC																
└ hl7:id	II	1 ... 1	R	Specimen ID, coming from the LIS	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified															
<table border="0"> <tr> <td>⊙ psr-dataelement-95</td> <td>● Parent ID</td> <td>● APSR 2.0</td> </tr> <tr> <td>psr-dataelement-67</td> <td>● Block ID</td> <td>● APSR 2.0</td> </tr> <tr> <td>psr-dataelement-66</td> <td>● Part ID</td> <td>● APSR 2.0</td> </tr> <tr> <td>psr-dataelement-98</td> <td>● Specimen ID</td> <td>● APSR 2.0</td> </tr> <tr> <td>psr-dataelement-68</td> <td>● Tissue section ID</td> <td>● APSR 2.0</td> </tr> </table>						⊙ psr-dataelement-95	● Parent ID	● APSR 2.0	psr-dataelement-67	● Block ID	● APSR 2.0	psr-dataelement-66	● Part ID	● APSR 2.0	psr-dataelement-98	● Specimen ID	● APSR 2.0	psr-dataelement-68	● Tissue section ID	● APSR 2.0
⊙ psr-dataelement-95	● Parent ID	● APSR 2.0																		
psr-dataelement-67	● Block ID	● APSR 2.0																		
psr-dataelement-66	● Part ID	● APSR 2.0																		
psr-dataelement-98	● Specimen ID	● APSR 2.0																		
psr-dataelement-68	● Tissue section ID	● APSR 2.0																		
└ hl7:entryRelationship		0 ... 1	R	staged after multimodal (neoadjuvant) therapy Contains 1.3.6.1.4.1.19376.1.3.10.9.32 <i>TNM y</i> (2015-06-22 17:28:17)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM															
<p>where [hl7:observation [hl7:code [(@code = '277649004' and @codeSystem = '2.16.840.1.113883.6.96') or (@code = 'y' and @codeSystem = '2.16.840.1.113883.15.6')]]]</p>																				
└ @typeCode	CS	1 ... 1	F	SPRT																
└ hl7:entryRelationship		0 ... 1	R	first staged at autopsy Contains 1.3.6.1.4.1.19376.1.3.10.9.30 <i>TNM a</i> (2015-06-22 15:13:46)	PaLM Suppl. APSR															


					2.1-3: 6.3.5.8 TNM
where [hl7:observation [hl7:code [(@code = '277646006' and @codeSystem = '2.16.840.1.113883.6.96') or (@code = '85699-7' and @codeSystem = '2.16.840.1.113883.6.1')]]]					
└ @typeCode	CS	1 ... 1	F	SPRT	
└ hl7:entryRelationship		0 ... 1	R	staged after relapse Contains 1.3.6.1.4.1.19376.1.3.10.9.31 <i>TNM r</i> (2015-06-22 17:38:42)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
where [hl7:observation [hl7:code [(@code = '277647002' and @codeSystem = '2.16.840.1.113883.6.96') or @nullFlavor]]]					
└ @typeCode	CS	1 ... 1	F	SPRT	
└ hl7:entryRelationship		1 ... 1	R	T: T category of TNM Contains 1.3.6.1.4.1.19376.1.3.10.9.25 <i>TNM T-Observation</i> (2014-12-02 15:54:17)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
where [hl7:observation [hl7:code [(@code = '21899-0' and @codeSystem = '2.16.840.1.113883.6.1') or (@code = '78873005' and @codeSystem = '2.16.840.1.113883.6.96')]]]					
└ @typeCode	CS	1 ... 1	F	SPRT	
└ hl7:entryRelationship		1 ... 1	R	N: N category of TNM Contains 1.3.6.1.4.1.19376.1.3.10.9.26 <i>TNM N-Observation</i> (2014-12-02 16:34:50)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM

where [hl7:observation [hl7:code [(@code = '21900-6' and @codeSystem = '2.16.840.1.113883.6.1') or (@code = '277206009' and @codeSystem = '2.16.840.1.113883.6.96')]]]						
└ @typeCode	CS	1 ... 1	F	SPRT		
└ hl7:entryRelationship		0 ... 1	R	M: M category of TNM Contains 1.3.6.1.4.1.19376.1.3.10.9.27 <i>TNM M-Observation</i> (2014-12-02 16:32:30)		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
where [hl7:observation [hl7:code [(@code = '21901-4' and @codeSystem = '2.16.840.1.113883.6.1') or (@code = '371497001' and @codeSystem = '2.16.840.1.113883.6.96')]]]						
└ @typeCode	CS	1 ... 1	F	SPRT		
└ hl7:entryRelationship		0 ... 1	R	Serum tumor markers stage descriptor Contains 1.3.6.1.4.1.19376.1.3.10.9.33 <i>TNM Serum tumor markers</i> (2015-11-06 14:28:44)		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
where [hl7:observation]						
└ @typeCode	CS	1 ... 1	F	SPRT		
└ hl7:entryRelationship		0 ... 1	R	Descriptor for lymphatic invasion Contains 1.3.6.1.4.1.19376.1.3.10.9.34 <i>TNM Lymphatic Invasion</i> (2015-11-16 14:01:58)		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
where [hl7:observation [hl7:code [(@code = '395715009' and @codeSystem = '2.16.840.1.113883.6.96') or (@code = '33739-4' and @codeSystem = '2.16.840.1.113883.6.1')]]]						

└ @typeCode	CS	1 ... 1	F	SPRT	
└ hl7:entryRelationship		0 ... 1	R	Descriptor for venous invasion Contains 1.3.6.1.4.1.19376.1.3.10.9.35 <i>TNM Venous Invasion</i> (2015-11-16 13:40:28)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
where [hl7:observation [hl7:code [(@code = '371493002' and @codeSystem = '2.16.840.1.113883.6.96') or (@code = '33740-2' and @codeSystem = '2.16.840.1.113883.6.1')]]]					
└ @typeCode	CS	1 ... 1	F	SPRT	
└ hl7:entryRelationship		0 ... 1	R	Descriptor for perineurial invasion Contains 1.3.6.1.4.1.19376.1.3.10.9.36 <i>TNM Perineurial Invasion</i> (2015-11-11 16:13:40)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
where [hl7:observation]					
└ @typeCode	CS	1 ... 1	F	SPRT	
└ hl7:entryRelationship		1 ... 1	R	TNM-Grading Contains 1.3.6.1.4.1.19376.1.3.10.9.28 <i>TNM Grading</i> (2015-11-15 13:01:18)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
where [hl7:observation [hl7:code [(@code = '59541-3' and @codeSystem = '2.16.840.1.113883.6.1')]]]					
└ @typeCode	CS	1 ... 1	F	SPRT	

L h17:entryRelationship		0 ... 1	R	Status of residual tumor Contains 1.3.6.1.4.1.19376.1.3.10.9.29 <i>TNM R-status</i> (2015-06-30 13:38:30)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
where [hl7:observation [hl7:code [(@code = '445200009 ' and @codeSystem = '2.16.840.1.113883.6.96')]]]					
L @typeCode	CS	1 ... 1	F	SPRT	

### Supportive Template TNM T-Observation - 1.3.6.1.4.1.19376.1.3.10.9.25

<b>Id</b>	1.3.6.1.4.1.19376.1.3.10.9.25	<b>Effective Date</b>	2014-12-02 15:54:17
<b>Status</b>	 Draft	<b>Version Label</b>	2.0
<b>Name</b>	TNMTObservation	<b>Display Name</b>	TNM T-Observation

#### Description

Template CDA Observation (prototype, directly derived from POCD\_RM000040 MIF)

#### T-Observation:

The following details are provided as qualifiers:

- clinical/phological
- Certainty Factor
- multiple tumors + multiplicity
- mi-Symbol
- Mucosa-level of infiltration
- Submucosa-level of infiltration

#### Context

Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.25

<b>Label</b>	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM																				
<b>Classification</b>	CDA Entry Level Template																				
<b>Open/Closed</b>	Open (other than defined elements are allowed)																				
<b>Associated with</b>	Associated with 4 concepts																				
	<table border="1"> <thead> <tr> <th>Id</th> <th>Name</th> <th>Data Set</th> </tr> </thead> <tbody> <tr> <td>psr-dataelement-60</td> <td> Clinical</td> <td> APSR 2.0</td> </tr> <tr> <td>psr-dataelement-61</td> <td> Multiplicity</td> <td> APSR 2.0</td> </tr> <tr> <td>psr-dataelement-59</td> <td> Postoperative</td> <td> APSR 2.0</td> </tr> <tr> <td>psr-dataelement-6</td> <td> T-category</td> <td> APSR 2.0</td> </tr> </tbody> </table>	Id	Name	Data Set	psr-dataelement-60	Clinical	APSR 2.0	psr-dataelement-61	Multiplicity	APSR 2.0	psr-dataelement-59	Postoperative	APSR 2.0	psr-dataelement-6	T-category	APSR 2.0					
	Id	Name	Data Set																		
	psr-dataelement-60	Clinical	APSR 2.0																		
	psr-dataelement-61	Multiplicity	APSR 2.0																		
psr-dataelement-59	Postoperative	APSR 2.0																			
psr-dataelement-6	T-category	APSR 2.0																			
<b>Uses</b>	Uses 4 templates																				
	<table border="1"> <thead> <tr> <th>Uses</th> <th>as</th> <th>Name</th> <th>Version</th> </tr> </thead> <tbody> <tr> <td>1.3.6.1.4.1.19376.1.3.3.1.7</td> <td>Containment</td> <td> Laboratory Performer (2017)</td> <td>2008-08-08</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.8.1.4.2</td> <td>Containment</td> <td> Author (2.0)</td> <td>2016-06-21 14:02:11</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.8.1.4.6</td> <td>Containment</td> <td> Informant (2.0)</td> <td>2016-07-08 11:22:58</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.3.10.9.1</td> <td>Include</td> <td> X Specimen Identified (2.0)</td> <td>2014-12-22 15:54:30</td> </tr> </tbody> </table>	Uses	as	Name	Version	1.3.6.1.4.1.19376.1.3.3.1.7	Containment	Laboratory Performer (2017)	2008-08-08	1.3.6.1.4.1.19376.1.8.1.4.2	Containment	Author (2.0)	2016-06-21 14:02:11	1.3.6.1.4.1.19376.1.8.1.4.6	Containment	Informant (2.0)	2016-07-08 11:22:58	1.3.6.1.4.1.19376.1.3.10.9.1	Include	X Specimen Identified (2.0)	2014-12-22 15:54:30
	Uses	as	Name	Version																	
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	1.3.6.1.4.1.19376.1.8.1.4.2	Containment	Author (2.0)	2016-06-21 14:02:11																	
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1.3.6.1.4.1.19376.1.3.10.9.1	Include	X Specimen Identified (2.0)	2014-12-22 15:54:30																		
<b>Relationship</b>	Specialization: template 1.3.6.1.4.1.19376.1.8.1.4.9 (2014-05-14 17:09:54)																				
<b>Example</b>	generated example																				
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Item	DT	Card	Conf	Description	Label
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@classCode	CS	1 ... 1	F	OBS	

└ @moodCode	CS	1 ... 1	F	EVN		
└ @negationInd	bl	0 ... 1				
└ h17:templateId	II	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.3.10.9.25		
└ h17:id	II	0 ... *	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
└ h17:code	CE (extensible)	1 ... 1	M	the observation can be indicated either by a LOINC or Snomed code.	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
	CONF	@code shall be "21899-0" @codeSystem shall be "2.16.840.1.113883.6.1" @codeSystemName shall be "LOINC" or @code shall be "78873005" @codeSystem shall be "2.16.840.1.113883.6.96" @codeSystemName shall be "Snomed CT" @displayName shall be "T category (observable entity)"				




 <code>h17:text</code>	ED	0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
 <code>h17:statusCode</code>	CS (required)	1 ... 1	M	The observation statusCode is "completed" if the observation was actually performed and has produced a result in the value element. In other cases the status of the intended observation is "aborted" and the result will never come.	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
Constraint		@code shall be "completed" or @code shall be "aborted"			
CONF		The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933 <i>ActStatus</i> (2014-03-26)			
 <code>h17:effectiveTime</code>	IVL_TS	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
 <code>h17:value</code>	CD (extensible)	1 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
 psr-dataelement-6		 T-category		 APSR 2.0	
CONF		The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.12 <i>UICC T category</i> (SCT) (2014-05-13 15:52:43)			


































				or The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.43 <i>UICC T category</i> (2017-07-07 15:06:39)		
└ h17:qualifier	CR (extensible)	0 ... 1	R	C-Factor (Certainty)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
	Constraint	in UICC/AJCC TNM 8th edition no longer used				
└ h17:name	CV (required)	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
└ @codeSystem	oid	1 ... 1	F	1.2.276.0.76.3.1.131.1.5.1		
└ @code	cs	1 ... 1	F	tnmCFactor		
└ h17:value	CD (extensible)	0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
	CONF	The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.20 <i>UICC C-Factor (SCT)</i> (2015-06-22 15:47:55) or The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.19 <i>UICC C-Factor</i> (2015-11-13 13:56:23)				

<p>└─ h17:qualifier</p>	<p>CR (extensible)</p>	<p>0 ... 1</p>	<p>R</p>	<p>how is the T-value determined:                      - clinically ("c")                      -- ultrasound                      -- CT                      -- MR                      - pathologically, postoperatively ("p")</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM</p>
<p> <span>Ⓞ</span> psr-dataelement-60      ● Clinical      ● APSR 2.0                      psr-dataelement-59      ● Postoperative      ● APSR 2.0                 </p>					
<p>└─ h17:name</p>	<p>CV (required)</p>	<p>1 ... 1</p>	<p>M</p>	<p>clinical or pathological</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM</p>
<p>└─ @codeSystem</p>	<p>oid</p>	<p>1 ... 1</p>	<p>F</p>	<p>1.2.276.0.76.3.1.131.1.5.1</p>	
<p>└─ @code</p>	<p>cs</p>	<p>1 ... 1</p>	<p>F</p>	<p>tnmCp</p>	
<p>└─ h17:value</p>	<p>CD (extensible)</p>	<p>0 ... 1</p>	<p>R</p>		<p>PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM</p>
<p>Constraint</p>		<p>in APSR only "p" allowed</p>			
<p>CONF</p>		<p>The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.22 <i>UICC clinical/pathological</i> (2015-11-04 15:52:34)</p>			
<p>└─ h17:qualifier</p>	<p>CR (extensible)</p>	<p>0 ... 1</p>	<p>R</p>	<p><b>tnmMultiple</b> :                      multiple, simultaneous tumors in one organ;                      here: a boolean indicator that there are multiple tumors ("m") without any numbers</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM</p>


 psr-dataelement-61  Multiplicity  APSR 2.0						
 h17:name	CV (required)	1 ... 1	M	code for multiple tumors in one organ	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
 @codeSystem	oid	1 ... 1	F	1.2.276.0.76.3.1.131.1.5.1		
 @code	cs	1 ... 1	F	tnmMultiplicity		
 h17:value	CV (extensible)	0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
	CONF	The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.37 <i>UICC Multiplicity</i> (2015-11-06 10:44:54)				
 h17:qualifier	CR (extensible)	0 ... 1	R	limited to mucosa	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
 h17:name	CV (required)	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
 @codeSystem	oid	1 ... 1	F	1.2.276.0.76.3.1.131.1.5.1		

 @code	cs	1 ... 1	F	tnmMucosaSymbol	
 h17:value	CD (extensible)	0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
	CONF	The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.26 <i>UICC Mucosa</i> (2015-11-04 16:22:04)			
 h17:qualifier	CR (extensible)	0 ... 1	R	limited to mucosa and submucosa	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
 h17:name	CV (required)	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
 @codeSystem	oid	1 ... 1	F	1.2.276.0.76.3.1.131.1.5.1	
 @code	cs	1 ... 1	F	tnmSubmucosaSymbol	
 h17:value	CD (extensible)	0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
	CONF	The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.27 <i>UICC Submucosa</i> (2015-11-04 16:23:24)			

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where [h17:assignedEntity]					
 <b>h17:author</b>	II	0 ... *	C	Author Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.2 Contains 1.3.6.1.4.1.19376.1.8.1.4.2 <i>Author</i> (2016-06-21 14:02:11)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
where [h17:author]					
 <b>h17:informant</b>	II	0 ... *	R	Informant Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.5 Contains 1.3.6.1.4.1.19376.1.8.1.4.6 <i>Informant</i> (2016-07-08 11:22:58)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
<i>Included</i>		1 ... *	M	from 1.3.6.1.4.1.19376.1.3.10.9.1 X <i>Specimen Identified</i> (2014-12-22 15:54:30)	
 <b>h17:specimen</b>		1 ... *	M	Required in XD-LAB when more than one specimen is documented at this level. Always required in APSR.	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
 psr-dataelement-17  Specimen identification  APSR 2.0					
 <b>@typeCode</b>	cs	0 ... 1	F	SPC	

h17:specimenRole		1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified															
@classCode	CS	0 ... 1	F	SPEC																
h17:id	II	1 ... 1	R	Specimen ID, coming from the LIS	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified															
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 psr-dataelement-95	 Parent ID	 APSR 2.0																		
psr-dataelement-67	 Block ID	 APSR 2.0																		
psr-dataelement-66	 Part ID	 APSR 2.0																		
psr-dataelement-98	 Specimen ID	 APSR 2.0																		
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**Supportive Template TNM N-Observation - 1.3.6.1.4.1.19376.1.3.10.9.26**

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<b>Description</b>	Template CDA Observation (prototype, directly derived from POCD_RM000040 MIF)		
<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.26		

<b>Label</b>	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM																								
<b>Classification</b>	CDA Entry Level Template																								
<b>Open/Closed</b>	Open (other than defined elements are allowed)																								
<b>Associated with</b>	Associated with 6 concepts																								
	<table border="1"> <thead> <tr> <th>Id</th> <th>Name</th> <th>Data Set</th> </tr> </thead> <tbody> <tr> <td>psr-dataelement-8</td> <td>N-category</td> <td>APSR 2.0</td> </tr> <tr> <td>psr-dataelement-106</td> <td>Micrometasis</td> <td>APSR 2.0</td> </tr> <tr> <td>psr-dataelement-60</td> <td>Clinical</td> <td>APSR 2.0</td> </tr> <tr> <td>psr-dataelement-103</td> <td>Isolated tumor cells</td> <td>APSR 2.0</td> </tr> <tr> <td>psr-dataelement-59</td> <td>Postoperative</td> <td>APSR 2.0</td> </tr> <tr> <td>psr-dataelement-102</td> <td>Sentinel Lymph Nodes</td> <td>APSR 2.0</td> </tr> </tbody> </table>	Id	Name	Data Set	psr-dataelement-8	N-category	APSR 2.0	psr-dataelement-106	Micrometasis	APSR 2.0	psr-dataelement-60	Clinical	APSR 2.0	psr-dataelement-103	Isolated tumor cells	APSR 2.0	psr-dataelement-59	Postoperative	APSR 2.0	psr-dataelement-102	Sentinel Lymph Nodes	APSR 2.0			
	Id	Name	Data Set																						
	psr-dataelement-8	N-category	APSR 2.0																						
	psr-dataelement-106	Micrometasis	APSR 2.0																						
	psr-dataelement-60	Clinical	APSR 2.0																						
	psr-dataelement-103	Isolated tumor cells	APSR 2.0																						
psr-dataelement-59	Postoperative	APSR 2.0																							
psr-dataelement-102	Sentinel Lymph Nodes	APSR 2.0																							
<b>Uses</b>	Uses 5 templates																								
	<table border="1"> <thead> <tr> <th>Uses</th> <th>as</th> <th>Name</th> <th>Version</th> </tr> </thead> <tbody> <tr> <td>1.3.6.1.4.1.19376.1.8.1.4.2</td> <td>Containment</td> <td>Author (2.0)</td> <td>2016-06-21 14:02:11</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.8.1.4.6</td> <td>Containment</td> <td>Informant (2.0)</td> <td>2016-07-08 11:22:58</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.8.1.4.7</td> <td>Containment</td> <td>Additional participant in an entry (2.0)</td> <td>2016-07-12 18:44:06</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.3.10.9.1</td> <td>Include</td> <td>X Specimen Identified (2.0)</td> <td>2014-12-22 15:54:30</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.3.10.9.37</td> <td>Containment</td> <td>TNM Number of nodes (2.0)</td> <td>2014-12-02 16:48:36</td> </tr> </tbody> </table>	Uses	as	Name	Version	1.3.6.1.4.1.19376.1.8.1.4.2	Containment	Author (2.0)	2016-06-21 14:02:11	1.3.6.1.4.1.19376.1.8.1.4.6	Containment	Informant (2.0)	2016-07-08 11:22:58	1.3.6.1.4.1.19376.1.8.1.4.7	Containment	Additional participant in an entry (2.0)	2016-07-12 18:44:06	1.3.6.1.4.1.19376.1.3.10.9.1	Include	X Specimen Identified (2.0)	2014-12-22 15:54:30	1.3.6.1.4.1.19376.1.3.10.9.37	Containment	TNM Number of nodes (2.0)	2014-12-02 16:48:36
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1.3.6.1.4.1.19376.1.3.10.9.37	Containment	TNM Number of nodes (2.0)	2014-12-02 16:48:36																						
<b>Relationship</b>	Specialization: template 1.3.6.1.4.1.19376.1.8.1.4.9 (2014-05-14 17:09:54)																								



Example

Generated example




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  <!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (2014-12-22T15:54:30) 1..* R -->
  <entryRelationship>
    <!-- template 1.3.6.1.4.1.19376.1.3.10.9.37 'TNM Number of nodes' (2014-12-02T16:48:36) -->
  </entryRelationship>
</observation>

```

Item	DT	Card	Conf	Description	Label
------	----	------	------	-------------	-------

h17:observation		0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
└ @classCode	CS	1 ... 1	F	OBS		
└ @moodCode	CS	1 ... 1	F	EVN		
└ @negationInd	bl	0 ... 1				
└ h17:templateId	II	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.3.10.9.26		
└ h17:id	II	0 ... *	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
└ h17:code	CE (required)	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
	CONF	@code shall be "21900-6" @codeSystem shall be "2.16.840.1.113883.6.1"				

				<p>@codeSystemName shall be "LOINC"                  @displayName shall be "Regional lymph nodes.pathology [Class] Cancer"                  or                  @code shall be "277206009"                  @codeSystem shall be "2.16.840.1.113883.6.96"                  @codeSystemName shall be "SCT"                  @displayName shall be "N category (observable entity)"</p>		
<p>↳ h17:text</p>	ED	0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
<p>↳ h17:statusCode</p>	CS (required)	1 ... 1	M	<p>The observation statusCode is "completed" if the observation was actually performed and has produced a result in the value element. In other cases the status of the intended observation is "aborted" and the result will never come.</p>	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
	Constraint	<p>@code shall be "completed"                  or                  @code shall be "aborted"</p>				
	CONF	<p>The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933                  ActStatus (2014-03-26)</p>				
<p>↳ h17:value</p>	CD	1 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
<p>  psr-dataelement-8                      N-category                      APSR 2.0                 </p>						

		CONF	<p>The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.13 <i>UICC N category (SCT)</i> (2014-10-27 14:47:35)</p> <p>or</p> <p>The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.44 <i>UICC N category</i> (2017-07-21 10:00:53)</p>		
└ h17:qualifier	CR (required)	0 ... 1	R	C-Factor (Certainty)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
	Constraint	in UICC/AJCC TNM 8th edition no longer used			
└ h17:name	CV (required)	1 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└ @codeSystem	oid	1 ... 1	F	1.2.276.0.76.3.1.131.1.5.1	
└ @code	cs	1 ... 1	F	tnmCFactor	
└ h17:value	CD (extensible)	0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
	CONF	<p>The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.19 <i>UICC C-Factor</i> (2015-11-13 13:56:23)</p> <p>or</p> <p>The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.20 <i>UICC C-Factor (SCT)</i> (2015-06-22 15:47:55)</p>			




L h17:qualifier	CR (extensible)	1 ... 1	R	c/p/...	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
<div style="background-color: #e0ffe0; padding: 5px;"> <span>Ⓞ</span> psr-dataelement-60      ● Clinical      ● APSR 2.0                  psr-dataelement-59      ● Postoperative      ● APSR 2.0             </div>					
L h17:name	CV (required)	1 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
L @codeSystem	oid	1 ... 1	F	1.2.276.0.76.3.1.131.1.5.1	
L @code	cs	1 ... 1	F	tnmCp	
L h17:value	CD (extensible)	1 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
<div style="background-color: #e0e0e0; padding: 5px;">                 CONF      The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.22 <i>UICC clinical/pathological</i> (2015-11-04 15:52:34)             </div>					
L h17:qualifier	CR (extensible)	0 ... 1	C	i (Suffix) in pN0: ITC examined by Immunohistochemistry	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM

		psr-dataelement-103                  Isolated tumor cells                  APSR 2.0			
L h17:name	CV (required)	1 ... 1	R	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
L @codeSystem	oid	1 ... 1	F	1.2.276.0.76.3.1.131.1.5.1	
L @code	cs	1 ... 1	F	tnml	
L h17:value	CD (required)	1 ... 1	R	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
		CONF	The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.38 <i>UICC Isolated Tumor Cells</i> (2017-03-13 09:48:35)		
L h17:qualifier	CR (extensible)	0 ... 1	C	mol (Suffix) in pN0: ITC examined by Molecular pathology techniques PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
		psr-dataelement-103                  Isolated tumor cells                  APSR 2.0			
L h17:name	CV (required)	1 ... 1	R	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	

 @code	cs	1 ... 1	F	tnmMol	
 @codeSystem	oid	1 ... 1	F	1.2.276.0.76.3.1.131.1.5.1	
 h17:value	<b>CD (required)</b>	<b>1 ... 1</b>	<b>R</b>		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
	<b>CONF</b>	The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.38 <i>UICC Isolated Tumor Cells</i> (2017-03-13 09:48:35)			
 h17:qualifier	<b>CR (extensible)</b>	<b>0 ... 1</b>	<b>C</b>	<b>Qualifier for Sentinel node: sn (Suffix)</b>	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
 psr-dataelement-102  Sentinel Lymph Nodes  APSR 2.0					
 h17:name	<b>CV (required)</b>	<b>1 ... 1</b>	<b>R</b>		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
 @code	cs	1 ... 1	F	tnmSn	
 @codeSystem	oid	1 ... 1	F	1.2.276.0.76.3.1.131.1.5.1	
 h17:value	<b>CV (extensible)</b>	<b>1 ... 1</b>	<b>R</b>		PaLM Suppl. APSR 2.1-3:


					6.3.5.8 TNM
	CONF	The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.42 <i>UICC Sentinel Node</i> (2017-03-18 13:12:56)			
└─ h17:qualifier	CR (extensible)	0 ... 1	C	mi-Suffix for micrometastases (equal or less than 0.2 mm) in pN1	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
 psr-dataelement-106  Micrometasis  APSR 2.0					
└─ h17:name	CV (required)	1 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└─ @code	cs	1 ... 1	F	85351-5	
└─ @codeSystem	oid	1 ... 1	F	2.16.840.1.113883.6.1	
└─ h17:value	CV (extensible)	1 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
	CONF	The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.48 <i>UICC Micrometastasis</i> (2017-11-29 17:59:52)			
└─ h17:author	II	0 ... *	C	Author Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.2	PaLM Suppl. APSR













				Contains 1.3.6.1.4.1.19376.1.8.1.4.2 <i>Author</i> (2016-06-21 14:02:11)	2.1-3: 6.3.5.8 TNM
where [hl7:author]					
└ hl7:informant	II	0 ... *	R	Contains 1.3.6.1.4.1.19376.1.8.1.4.6 <i>Informant</i> (2016-07-08 11:22:58)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└ hl7:participant	II	0 ... *	R	Additional participants Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.6 Contains 1.3.6.1.4.1.19376.1.8.1.4.7 <i>Additional participant in an entry</i> (2016-07-12 18:44:06)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
where [hl7:participantRole]					
Included		1 ... *	R	from 1.3.6.1.4.1.19376.1.3.10.9.1 X <i>Specimen Identified</i> (2014-12-22 15:54:30)	
└ hl7:specimen		1 ... *	R	Required in XD-LAB when more than one specimen is documented at this level. Always required in APSR.	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
<div style="display: flex; justify-content: space-between; align-items: center;"> <span> psr-dataelement-17</span> <span> Specimen identification</span> <span> APSR 2.0</span> </div>					
└ @typeCode	CS	0 ... 1	F	SPC	
└ hl7:specimenRole		1 ... 1	M		PaLM Suppl. APSR

					2.1-3: 6.3.5.7 X Specimen identified
└ @classCode	CS	0 ... 1	F	SPEC	
└ h17:id	II	1 ... 1	R	Specimen ID, coming from the LIS	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
	<ul style="list-style-type: none"> <li>⊙ psr-dataelement-95      ● Parent ID      ● APSR 2.0</li> <li>psr-dataelement-67      ● Block ID      ● APSR 2.0</li> <li>psr-dataelement-66      ● Part ID      ● APSR 2.0</li> <li>psr-dataelement-98      ● Specimen ID      ● APSR 2.0</li> <li>psr-dataelement-68      ● Tissue section ID      ● APSR 2.0</li> </ul>				
└ h17:entryRelationship		0 ... 1	R	Contains 1.3.6.1.4.1.19376.1.3.10.9.37 <i>TNM Number of nodes</i> (2014-12-02 16:48:36)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
where [h17:observation [h17:code [(@code = '118553007' and @codeSystem = '2.16.840.1.113883.6.96')]]]					
└ @typeCode	CS	1 ... 1	F	SPRT	

**Supportive Template TNM Number of Nodes - 1.3.6.1.4.1.19376.1.3.10.9.37**

<b>Id</b>	1.3.6.1.4.1.19376.1.3.10.9.37	<b>Effective Date</b>	2014-12-02 16:48:36
<b>Status</b>	 Draft	<b>Version Label</b>	2.0
<b>Name</b>	TNMNumberOfNodes	<b>Display Name</b>	TNM Number of nodes
<b>Description</b>	Template CDA Observation (prototype, directly derived from POCD_RM000040 MIF)		
<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.37		
<b>Label</b>	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM		
<b>Classification</b>	CDA Entry Level Template		
<b>Open/Closed</b>	Open (other than defined elements are allowed)		

<b>Associated with</b>	Associated with 3 concepts		
	Id	Name	Data Set
	psr-dataelement-12	 Nodes Affected	 APSR 2.0
	psr-dataelement-11	 Nodes Examined	 APSR 2.0
psr-dataelement-102	 Sentinel Lymph Nodes	 APSR 2.0	






<b>Uses</b>	Uses 4 templates			
	Uses	as	Name	Version
	1.3.6.1.4.1.19376.1.8.1.4.2	Containment	 Author (2.0)	2016-06-21 14:02:11
	1.3.6.1.4.1.19376.1.8.1.4.6	Containment	 Informant (2.0)	2016-07-08 11:22:58
	1.3.6.1.4.1.19376.1.8.1.4.7	Containment	 Additional participant in an entry (2.0)	2016-07-12 18:44:06
1.3.6.1.4.1.19376.1.3.10.9.1	Include	 X Specimen Identified (2.0)	2014-12-22 15:54:30	

<b>Relationship</b>	Specialization: template 1.3.6.1.4.1.19376.1.8.1.4.9 (2014-05-14 17:09:54)
<b>Example</b>	<p><b>generated example</b></p> <pre> &lt;observation&gt;   &lt;templateId/&gt;   &lt;id root="1.2.3.999" extension="--example only--"/&gt;   &lt;code code="118553007" codeSystem="2.16.840.1.113883.6.96" displayName="Number ratio (attribute)"&gt;     &lt;qualifier&gt;       &lt;name/&gt;       &lt;value code="441709004" codeSystem="2.16.840.1.113883.6.96" displayName="Specimen from sentinel lymph node (specimen)" /&gt;     &lt;/qualifier&gt;   &lt;/code&gt;   &lt;text/&gt;   &lt;statusCode code="completed"/&gt;   &lt;effectiveTime&gt;     &lt;low value="20180122172854"/&gt;   &lt;/effectiveTime&gt;   &lt;value xsi:type="RTO_PQ_PQ"&gt;     &lt;numerator value="3" unit="1"/&gt;     &lt;denominator value="10" unit="1"/&gt;   &lt;/value&gt;   &lt;author&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author IHE' (2016-06-21T14:02:11) --&gt;   &lt;/author&gt;   &lt;informant&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant(Header&amp;Body) APSR2' (2016-07-08T11:22:58) --&gt;   &lt;/informant&gt;   &lt;participant&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.8.1.4.7 'Additional participant in an entry APSR (Body)' (2016-07-12T18:44:06) --&gt;   &lt;/participant&gt;   &lt;!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (2014-12-22T15:54:30) 1..* R --&gt; &lt;/observation&gt; </pre>

Item	DT	Card	Conf	Description	Label
h17:observation		0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
@classCode	CS	1 ... 1	F	OBS	

└ @moodCode	CS	1 ... 1	F	EVN	
└ @negationInd	bl	0 ... 1			
└ h17:templateId	II	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.3.10.9.37	
└ h17:id	II	0 ... *	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└ h17:code	CE (extensible)	1 ... 1	M	Structured number ratio for number of lymph nodes affected by tumor to number of lymph nodes examined	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└ @code	CONF	1 ... 1	F	118553007	
└ @codeSystem		1 ... 1	F	2.16.840.1.113883.6.96 (Snomed-CT)	
└ @codeSystemName		1 ... 1	F	SCT	
└ @displayName		1 ... 1	F	Number ratio (attribute)	
└ h17:qualifier	CR (required)	0 ... 1	C	Qualifier for Sentinel Node	PaLM Suppl.

					APSR 2.1-3: 6.3.5.8 TNM
 psr-dataelement-102  Sentinel Lymph Nodes  APSR 2.0					
L h17:name	CV (extensible)	1 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
L @code	cs	1 ... 1	F	85342-4	
L @codeSystem	oid	1 ... 1	F	2.16.840.1.113883.6.1	
L @displayName	st	0 ... 1	F	Lymph node site of origin	
L h17:value	CD (extensible)	1 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
L @code	CONF	0 ... 1	F	441709004	
L @codeSystem		0 ... 1	F	2.16.840.1.113883.6.96 (Snomed-CT)	
L @codeSystemName		0 ... 1	F	SCT	
L @displayName		0 ... 1	F	Specimen from sentinel lymph node (specimen)	

 <code>h17:text</code>	<b>ED</b>	<b>0 ... 1</b>	<b>R</b>		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
 <code>h17:statusCode</code>	<b>CS (required)</b>	<b>1 ... 1</b>	<b>M</b>	The observation statusCode is “completed” if the observation was actually performed and has produced a result in the value element. In other cases the status of the intended observation is “aborted” and the result will never come.	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
	Constraint	@code shall be "completed" or @code shall be "aborted"				
	CONF	The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933 <i>ActStatus</i> (2014-03-26)				
 <code>h17:effectiveTime</code>	<b>IVL_TS</b>	<b>1 ... 1</b>	<b>M</b>		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
 <code>h17:value</code>	<b>RTO_PQ_PQ</b>	<b>1 ... 1</b>	<b>R</b>		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
 <code>h17:numerator</code>	<b>PQ</b>	<b>0 ... 1</b>	<b>R</b>	number of nodes affected	PaLM Suppl. APSR 2.1-3: 6.3.5.8	

					TNM	
	 psr-dataelement-12  Nodes Affected  APSR 2.0					
	CONF	@unit is "1"				
 h17:denominator	PQ	0 ... 1	R	number of nodes examined	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
	 psr-dataelement-11  Nodes Examined  APSR 2.0					
	CONF	@unit is "1"				
 h17:author	II	0 ... *	C	Author Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.2 Contains 1.3.6.1.4.1.19376.1.8.1.4.2 <i>Author</i> (2016-06-21 14:02:11)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
where [h17:author]						
 h17:informant	II	0 ... *	R	Informant Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.5 Contains 1.3.6.1.4.1.19376.1.8.1.4.6 <i>Informant</i> (2016-07-08 11:22:58)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
 h17:participant	II	0 ... *	R	Additional participants Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.6 Contains 1.3.6.1.4.1.19376.1.8.1.4.7 <i>Additional participant in an entry</i> (2016-07-12 18:44:06)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	



where [hl7:participantRole]				
Included		1 ... *	R	from 1.3.6.1.4.1.19376.1.3.10.9.1 X Specimen Identified (2014-12-22 15:54:30)
└─ hl7:specimen		1 ... *	R	Required in XD-LAB when more than one specimen is documented at this level. Always required in APSR.
	psr-dataelement-17	Specimen identification	APSR 2.0	
└─ @typeCode	CS	0 ... 1	F	SPC
└─ hl7:specimenRole		1 ... 1	M	
				PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
└─ @classCode	CS	0 ... 1	F	SPEC
└─ hl7:id	II	1 ... 1	R	Specimen ID, coming from the LIS
				PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
	psr-dataelement-95	Parent ID	APSR 2.0	
	psr-dataelement-67	Block ID	APSR 2.0	
	psr-dataelement-66	Part ID	APSR 2.0	

psr-dataelement-98	● Specimen ID	● APSR 2.0
psr-dataelement-68	● Tissue section ID	● APSR 2.0

**Supportive Template TNM M-Observation - 1.3.6.1.4.1.19376.1.3.10.9.27**

<b>Id</b>	1.3.6.1.4.1.19376.1.3.10.9.27	<b>Effective Date</b>	2014-12-02 16:32:30
<b>Status</b>	● Draft	<b>Version Label</b>	2.0
<b>Name</b>	TNMMObservation	<b>Display Name</b>	TNM M-Observation
<b>Description</b>	Template CDA Observation (prototype, directly derived from POCD_RM000040 MIF)		
<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.27		
<b>Label</b>	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM		
<b>Classification</b>	CDA Entry Level Template		
<b>Open/Closed</b>	Open (other than defined elements are allowed)		
<b>Associated with</b>	Associated with 3 concepts		
	<b>Id</b>	<b>Name</b>	<b>Data Set</b>
	psr-dataelement-7	● M-category	● APSR 2.0
	psr-dataelement-106	● Micrometasis	● APSR 2.0
psr-dataelement-103	● Isolated tumor cells	● APSR 2.0	
<b>Uses</b>	Uses 4 templates		
	<b>Uses</b>	<b>as</b>	<b>Name</b>




	<p>1.3.6.1.4.1.19376.1.8.1.4.2 Containment ● Author (2.0) 2016-06-21 14:02:11</p> <p>1.3.6.1.4.1.19376.1.8.1.4.6 Containment ● Informant (2.0) 2016-07-08 11:22:58</p> <p>1.3.6.1.4.1.19376.1.8.1.4.7 Containment ● Additional participant in an entry (2.0) 2016-07-12 18:44:06</p> <p>1.3.6.1.4.1.19376.1.3.10.9.1 Include ● X Specimen Identified (2.0) 2014-12-22 15:54:30</p>	
<p><b>Relationship</b></p>	<p>Specialization: template 1.3.6.1.4.1.19376.1.8.1.4.9 (2014-05-14 17:09:54)</p>	
<p><b>Example</b></p>	<p><b>generated example</b></p> <pre> &lt;hl7:observation&gt;   &lt;hl7:templateId/&gt;   &lt;hl7:id root="1.2.3.999" extension="--example only--"/&gt;   &lt;hl7:code code="21901-4" codeSystem="2.16.840.1.113883.6.1"/&gt;   &lt;hl7:text/&gt;   &lt;hl7:statusCode/&gt;   &lt;hl7:effectiveTime&gt;     &lt;hl7:low value="20180125140136"/&gt;   &lt;/hl7:effectiveTime&gt;   &lt;hl7:value xsi:type="CD" code="30893008" codeSystem="2.16.840.1.113883.6.96" displayName="M0 category (finding)"&gt;     &lt;hl7:qualifier&gt;       &lt;hl7:name/&gt;       &lt;hl7:value code="84068000" codeSystem="2.16.840.1.113883.6.96" displayName="C1 - TNM certainty factor"/&gt;     &lt;/hl7:qualifier&gt;     &lt;hl7:qualifier&gt;       &lt;hl7:name/&gt;       &lt;hl7:value code="p" codeSystem="2.16.840.1.113883.15.16" displayName="p"/&gt;     &lt;/hl7:qualifier&gt;     &lt;hl7:qualifier&gt;       &lt;hl7:name/&gt;       &lt;hl7:value code="i+" codeSystem="2.16.840.1.113883.15.16" displayName="(i+)" /&gt;     &lt;/hl7:qualifier&gt;     &lt;hl7:qualifier&gt;       &lt;hl7:name/&gt;       &lt;hl7:value code="i+" codeSystem="2.16.840.1.113883.15.16" displayName="(i+)" /&gt;     &lt;/hl7:qualifier&gt;     &lt;hl7:qualifier&gt;       &lt;hl7:name/&gt;       &lt;hl7:value code="PUL" codeSystem="2.16.840.1.113883.15.16" displayName="PUL"/&gt;     &lt;/hl7:qualifier&gt;     &lt;hl7:qualifier&gt;       &lt;hl7:name/&gt; </pre>	


```

    <hl7:value code="mi" codeSystem="2.16.840.1.113883.15.16" displayName="(mi)"/>
  </hl7:qualifier>
</hl7:value>
<hl7:author>
  <!-- template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author IHE' (2016-06-21T14:02:11) -->
</hl7:author>
<hl7:informant>
  <!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant(Header&Body) APSR2' (2016-07-08T11:22:58) -->
</hl7:informant>
<hl7:participant>
  <!-- template 1.3.6.1.4.1.19376.1.8.1.4.7 'Additional participant in an entry APSR (Body)' (2016-07-12T18:44:06) -->
</hl7:participant>
  <!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (2014-12-22T15:54:30) 0..1 C -->
</hl7:observation>

```

Item	DT	Card	Conf	Description	Label
hl7:observation		0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└ @classCode	CS	1 ... 1	F	OBS	
└ @moodCode	CS	1 ... 1	F	EVN	
└ @negationInd	bl	0 ... 1			
└ hl7:templateId	II	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.3.10.9.27	
└ hl7:id	II	0 ... *	R		PaLM Suppl.

					APSR 2.1-3: 6.3.5.8 TNM
 <code>h17:code</code>	<b>CE</b> (extensible)	<b>1 ... 1</b>	<b>M</b>		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
	CONF	<p>@code shall be "21901-4"                  @codeSystem shall be "2.16.840.1.113883.6.1"                  @codeSystemName shall be "LOINC"                  or                  @code shall be "371497001"                  @codeSystem shall be "2.16.840.1.113883.6.96"                  @codeSystemName shall be "SCT"</p>			
 <code>h17:text</code>	<b>ED</b>	<b>0 ... 1</b>	<b>R</b>		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
 <code>h17:statusCode</code>	<b>CS</b> (required)	<b>1 ... 1</b>	<b>R</b>	The observation statusCode is "completed" if the observation was actually performed and has produced a result in the value element. In other cases the status of the intended observation is "aborted" and the result will never come.	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
	Constraint	<p>@code shall be "completed"                  or                  @code shall be "aborted"</p>			

	CONF	The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933 <i>ActStatus</i> (2014-03-26)				
└ h17:effectiveTime	IVL_TS	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
└ h17:value	CD (extensible)	1 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
 psr-dataelement-7  M-category  APSR 2.0						
	CONF	The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.14 <i>UICC M category (SCT)</i> (2014-05-13 16:11:15) or The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.45 <i>UICC M category</i> (2017-07-21 10:31:38)				
└ h17:qualifier	CR (required)	0 ... 1	R	C factor (certainty)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
	Constraint	in UICC/AJCC TNM 8th edition no longer used				
└ h17:name	CV (required)	1 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8	

						TNM
└ @codeSystem	oid	1 ... 1	F	1.2.276.0.76.3.1.131.1.5.1		
└ @code	cs	1 ... 1	F	tnmCFactor		
└ hl7:value	<b>CD (required)</b>	<b>0 ... 1</b>	<b>R</b>			PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
	CONF	The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.20 <i>UICC C-Factor (SCT)</i> (2015-06-22 15:47:55) or The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.19 <i>UICC C-Factor</i> (2015-11-13 13:56:23)				
└ hl7:qualifier	<b>CR (required)</b>	<b>0 ... 1</b>	<b>R</b>	c/p ...		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└ hl7:name	<b>CV (required)</b>	<b>1 ... 1</b>	<b>R</b>			PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└ @codeSystem	oid	1 ... 1	F	1.2.276.0.76.3.1.131.1.5.1		
└ @code	cs	1 ... 1	F	tnmCp		

<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <span style="font-size: 1.2em;">L</span> <code>h17:value</code> </div>	CD (extensible)	0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
	CONF	The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.22 <i>UICC clinical/pathological</i> (2015-11-04 15:52:34)			
<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <span style="font-size: 1.2em;">L</span> <code>h17:qualifier</code> </div>	CR (required)	0 ... 1	C	i (suffix) in pM0: ITC (isolated tumor cells) detected by immunohistochemistry (qualifier)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
<span style="font-size: 1.2em;">C</span> psr-dataelement-103 <span style="font-size: 1.2em;">●</span> Isolated tumor cells <span style="font-size: 1.2em;">●</span> APSR 2.0					
<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <span style="font-size: 1.2em;">L</span> <code>h17:name</code> </div>	CV (required)	1 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <span style="font-size: 1.2em;">L</span> <code>@codeSystem</code> </div>	oid	1 ... 1	F	1.2.276.0.76.3.1.131.1.5.1	
<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <span style="font-size: 1.2em;">L</span> <code>@code</code> </div>	cs	1 ... 1	F	tnml	
<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <span style="font-size: 1.2em;">L</span> <code>h17:value</code> </div>	CD (extensible)	0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
	CONF	The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.38 <i>UICC Isolated Tumor Cells</i> (2017-03-13 09:48:35)			



└ h17:qualifier	CR (required)	0 ... 1	C	mol (suffix) in pM0: ITC (isolated tumor cells) detected by non-morphological (molecular) methods (qualifier)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
└ h17:name	CV (required)	1 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
└ @codeSystem	oid	1 ... 1	F	1.2.276.0.76.3.1.131.1.5.1		
└ @code	cs	1 ... 1	F	tnmMol		
└ h17:value	CD (extensible)	0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
	CONF	The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.38 <i>UICC Isolated Tumor Cells</i> (2017-03-13 09:48:35)				
└ h17:qualifier	CR (required)	0 ... 11	C	Suffix for localization of distant metastases in M1	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
└ h17:name	CV (required)	1 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8	

						TNM	
└ @codeSystem	oid	1 ... 1	F	1.2.276.0.76.3.1.131.1.5.1			
└ @code	cs	1 ... 1	F	tnmLoc			
└ h17:value	<b>CD</b> (required)	<b>0 ... 1</b>	<b>R</b>			PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
	CONF	The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.28 <i>UICC Localization of distant metastases</i> (2015-11-04 16:26:53)					
└ h17:qualifier	<b>CR</b> (required)	<b>0 ... 1</b>	<b>C</b>	mi-Suffix for micrometastases (equal or less than 0.2 mm) in pM1		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
	🕒 psr-dataelement-106			🟡 Micrometasis		🟡 APSR 2.0	
└ h17:name	<b>CV</b> (required)	<b>1 ... 1</b>	<b>R</b>			PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
└ @codeSystem	oid	1 ... 1	F	2.16.840.1.113883.6.1			
└ @code	cs	1 ... 1	F	85351-5			
└ h17:value	<b>CD</b> (required)	<b>0 ... 1</b>	<b>R</b>			PaLM Suppl.	

					APSR 2.1-3: 6.3.5.8 TNM
	CONF	The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.48 <i>UICC Micrometastasis</i> (2017-11-29 17:59:52)			
└ h17:author	II	0 ... *	C	Author Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.2 Contains 1.3.6.1.4.1.19376.1.8.1.4.2 <i>Author</i> (2016-06-21 14:02:11)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
where [h17:author]					
└ h17:informant	II	0 ... *	R	Contains 1.3.6.1.4.1.19376.1.8.1.4.6 <i>Informant</i> (2016-07-08 11:22:58)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└ h17:participant	II	0 ... *	R	Additional participants Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.6 Contains 1.3.6.1.4.1.19376.1.8.1.4.7 <i>Additional participant in an entry</i> (2016-07-12 18:44:06)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
where [h17:participantRole]					
<i>Included</i>		0 ... 1	C	from 1.3.6.1.4.1.19376.1.3.10.9.1 <i>X Specimen Identified</i> (2014-12-22 15:54:30)	
└ h17:specimen		0 ... 1	C	Required in XD-LAB when more than one specimen is documented at this level. Always required in APSR.	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X

					Specimen identified
	psr-dataelement-17	Specimen identification	APSR 2.0		
@typeCode	CS	0 ... 1	F	SPC	
h17:specimenRole		1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
@classCode	CS	0 ... 1	F	SPEC	
h17:id	II	1 ... 1	R	Specimen ID, coming from the LIS	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
	psr-dataelement-95	Parent ID	APSR 2.0		
	psr-dataelement-67	Block ID	APSR 2.0		
	psr-dataelement-66	Part ID	APSR 2.0		
	psr-dataelement-98	Specimen ID	APSR 2.0		
	psr-dataelement-68	Tissue section ID	APSR 2.0		

**Supportive Template TNM Grading - 1.3.6.1.4.1.19376.1.3.10.9.28**

Id	1.3.6.1.4.1.19376.1.3.10.9.28	Effective Date	2015-11-15 13:01:18
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<b>Status</b>	 Draft	<b>Version Label</b>	2.0
<b>Name</b>	TNMGrading	<b>Display Name</b>	TNM Grading

**Description**


Template CDA Observation (prototype, directly derived from POCD\_RM000040 MIF)

Template for grading tumors in context of UICC/AJCC TNM tumor formula. The allowed values for each tumor site are given by the UICC.

<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.28
<b>Label</b>	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
<b>Classification</b>	CDA Entry Level Template
<b>Open/Closed</b>	Open (other than defined elements are allowed)




**Associated with 1 concept**

**Associated with**

Id	Name	Data Set
psr-dataelement-53	 Grading	 APSR 2.0

**Uses 3 templates**

**Uses**

Uses	as	Name	Version
1.3.6.1.4.1.19376.1.8.1.4.2	Containment	 Author (2.0)	2016-06-21 14:02:11
1.3.6.1.4.1.19376.1.8.1.4.6	Containment	 Informant (2.0)	2016-07-08 11:22:58
1.3.6.1.4.1.19376.1.3.10.9.1	Include	 X Specimen Identified (2.0)	2014-12-22 15:54:30




**Relationship**

Specialization: template 1.3.6.1.4.1.19376.1.8.1.4.9 (2014-05-14 17:09:54)

Example

generated example

```
<observation negationInd="false" classCode="OBS" moodCode="EVN">
  <templateId root="1.3.6.1.4.1.19376.1.3.10.9.28"/>
  <id root="1.2.3.999" extension="--example only--"/>
  <code code="59541-3" codeSystem="2.16.840.1.113883.6.1" displayName="Grade pathology system"/>
  <text/>
  <statusCode code="completed"/>
  <effectiveTime>
    <low value="20170712112059"/>
  </effectiveTime>
  <value code="1" displayName="G1" codeSystem="2.16.840.1.113883.15.6"/>
  <author>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author IHE' (2016-06-21T14:02:11) -->
  </author>
  <informant>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant(Header&Body) APSR2' (2016-07-08T11:22:58) -->
  </informant>
  <!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (2014-12-22T15:54:30) 1..* R -->
</observation>
```

Item	DT	Card	Conf	Description	Label
h17:observation		0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
 psr-dataelement-53  Grading  APSR 2.0					
└ @classCode	CS	1 ... 1	F	OBS	
└ @moodCode	CS	1 ... 1	F	EVN	
└ @negationInd	bl	0 ... 1			
└ h17:templateId	II	1 ... 1	M		PaLM Suppl. APSR 2.1-3:

					6.3.5.8 TNM
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.3.10.9.28	
└ h17:id	II	0 ... *	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└ h17:code	CE (extensible)	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└ @code	CONF	1 ... 1	F	59541-3	
└ @codeSystem		1 ... 1	F	2.16.840.1.113883.6.1 (LOINC)	
└ @codeSystemName		1 ... 1	F	LOINC	
└ @displayName		1 ... 1	F	Grade pathology system	
└ h17:text	ED	0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└ h17:statusCode	CS (required)	1 ... 1	M	The observation statusCode is "completed" if the observation was actually performed and has produced a result in the value element. In other cases the status of the intended observation is "aborted" and the result will never come.	PaLM Suppl. APSR 2.1-3:

					6.3.5.8 TNM
	Constraint	@code shall be "completed" or @code shall be "aborted"			
	CONF	The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933 <i>ActStatus</i> (2014-03-26)			
└ h17:effectiveTime	IVL_TS	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└ h17:value	CD (extensible)	1 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
	Constraint	- if grading system is not to recognize from sender, the value set for a 4 tiered grading has to be chosen.  - if grading for German Cancer Registries is intended, only the values from code system 1.2.276.0.76.5.336 in value set 1.3.6.1.4.1.19376.1.3.11.31 SHOULD be used.			
	CONF	The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.31 <i>UICC Grade 4 tiered</i> (2015-11-13 19:46:53) or The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.29 <i>UICC Grade 3 tiered</i> (2015-11-13 19:36:21) or The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.30 <i>UICC Grade 2 tiered</i> (2015-11-13 19:43:09)			



<p>↳ <code>h17:author</code></p>	II	0 ... *	C	<p>Author</p> <p>Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.2</p> <p>Contains 1.3.6.1.4.1.19376.1.8.1.4.2 <i>Author</i> (2016-06-21 14:02:11)</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM</p>
<p>where [<code>h17:author</code>]</p>					
<p>↳ <code>h17:informant</code></p>	II	0 ... *	R	<p>Informant</p> <p>Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.5</p> <p>Contains 1.3.6.1.4.1.19376.1.8.1.4.6 <i>Informant</i> (2016-07-08 11:22:58)</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM</p>
<p>Included</p>		1 ... *	R	<p>from 1.3.6.1.4.1.19376.1.3.10.9.1 X <i>Specimen Identified</i> (2014-12-22 15:54:30)</p>	
<p>↳ <code>h17:specimen</code></p>		1 ... *	R	<p>Required in XD-LAB when more than one specimen is documented at this level. Always required in APSR.</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified</p>
<p>  <code>psr-dataelement-17</code>  Specimen identification                  APSR 2.0             </p>					
<p>↳ <code>@typeCode</code></p>	CS	0 ... 1	F	SPC	
<p>↳ <code>h17:specimenRole</code></p>		1 ... 1	M		<p>PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified</p>
<p>↳ <code>@classCode</code></p>	CS	0 ... 1	F	SPEC	

L h17:id	II	1 ... 1	R	Specimen ID, coming from the LIS	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified															
<table border="0"> <tr> <td>⊙ psr-dataelement-95</td> <td>● Parent ID</td> <td>● APSR 2.0</td> </tr> <tr> <td>psr-dataelement-67</td> <td>● Block ID</td> <td>● APSR 2.0</td> </tr> <tr> <td>psr-dataelement-66</td> <td>● Part ID</td> <td>● APSR 2.0</td> </tr> <tr> <td>psr-dataelement-98</td> <td>● Specimen ID</td> <td>● APSR 2.0</td> </tr> <tr> <td>psr-dataelement-68</td> <td>● Tissue section ID</td> <td>● APSR 2.0</td> </tr> </table>						⊙ psr-dataelement-95	● Parent ID	● APSR 2.0	psr-dataelement-67	● Block ID	● APSR 2.0	psr-dataelement-66	● Part ID	● APSR 2.0	psr-dataelement-98	● Specimen ID	● APSR 2.0	psr-dataelement-68	● Tissue section ID	● APSR 2.0
⊙ psr-dataelement-95	● Parent ID	● APSR 2.0																		
psr-dataelement-67	● Block ID	● APSR 2.0																		
psr-dataelement-66	● Part ID	● APSR 2.0																		
psr-dataelement-98	● Specimen ID	● APSR 2.0																		
psr-dataelement-68	● Tissue section ID	● APSR 2.0																		




**Supportive Template TNM R-Status - 1.3.6.1.4.1.19376.1.3.10.9.29**




<b>Id</b>	1.3.6.1.4.1.19376.1.3.10.9.29	<b>Effective Date</b>	2015-06-30 13:38:30
<b>Status</b>	● Draft	<b>Version Label</b>	2.0
<b>Name</b>	TNMRstatus	<b>Display Name</b>	TNM R-status
<b>Description</b>	Template CDA Observation (prototype, directly derived from POCD_RM000040 MIF) Residual Tumor Status after any therapy		
<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.29		
<b>Label</b>	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM		
<b>Classification</b>	CDA Entry Level Template		
<b>Open/Closed</b>	Open (other than defined elements are allowed)		
<b>Associated with</b>	Associated with 1 concept		

	<table border="1"> <thead> <tr> <th>Id</th> <th>Name</th> <th>Data Set</th> </tr> </thead> <tbody> <tr> <td>psr-dataelement-46</td> <td>● Residual tumor status</td> <td>● APSR 2.0</td> </tr> </tbody> </table>	Id	Name	Data Set	psr-dataelement-46	● Residual tumor status	● APSR 2.0										
Id	Name	Data Set															
psr-dataelement-46	● Residual tumor status	● APSR 2.0															
<p><b>Uses</b></p>	<p style="background-color: #ffffcc;">Uses 3 templates</p> <table border="1"> <thead> <tr> <th>Uses</th> <th>as</th> <th>Name</th> <th>Version</th> </tr> </thead> <tbody> <tr> <td>1.3.6.1.4.1.19376.1.8.1.4.2</td> <td>Containment</td> <td>● Author (2.0)</td> <td>2016-06-21 14:02:11</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.8.1.4.6</td> <td>Containment</td> <td>● Informant (2.0)</td> <td>2016-07-08 11:22:58</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.3.10.9.1</td> <td>Include</td> <td>● X Specimen Identified (2.0)</td> <td>2014-12-22 15:54:30</td> </tr> </tbody> </table>	Uses	as	Name	Version	1.3.6.1.4.1.19376.1.8.1.4.2	Containment	● Author (2.0)	2016-06-21 14:02:11	1.3.6.1.4.1.19376.1.8.1.4.6	Containment	● Informant (2.0)	2016-07-08 11:22:58	1.3.6.1.4.1.19376.1.3.10.9.1	Include	● X Specimen Identified (2.0)	2014-12-22 15:54:30
Uses	as	Name	Version														
1.3.6.1.4.1.19376.1.8.1.4.2	Containment	● Author (2.0)	2016-06-21 14:02:11														
1.3.6.1.4.1.19376.1.8.1.4.6	Containment	● Informant (2.0)	2016-07-08 11:22:58														
1.3.6.1.4.1.19376.1.3.10.9.1	Include	● X Specimen Identified (2.0)	2014-12-22 15:54:30														
<p><b>Relationship</b></p>	<p>Specialization: template 1.3.6.1.4.1.19376.1.8.1.4.9 (2014-05-14 17:09:54)</p>																
<p><b>Example</b></p>	<p style="background-color: #ffffcc;">Generated example for R0</p> <pre> &lt;observation classCode="OBS" moodCode="EVN" negationInd="false"&gt;   &lt;templateId root="1.3.6.1.4.1.19376.1.3.10.9.29"/&gt;   &lt;id root="1.2.3.999" extension="--example only--"/&gt;   &lt;code code="445200009" codeSystem="2.16.840.1.113883.6.96"/&gt;   &lt;text/&gt;   &lt;statusCode code="completed"/&gt;   &lt;effectiveTime&gt;     &lt;low value="20170712150312"/&gt;   &lt;/effectiveTime&gt;   &lt;value xsi:type="CD" code="258254000" displayName="Residual tumor stage R0 (finding)" codeSystem="2.16.840.1.113883.6.96"/&gt;   &lt;author&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author IHE' (2016-06-21T14:02:11) --&gt;   &lt;/author&gt;   &lt;informant&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant(Header&amp;Body) APSR2' (2016-07-08T11:22:58) --&gt;   &lt;/informant&gt;   &lt;!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (2014-12-22T15:54:30) 1..* M --&gt; &lt;/observation&gt; </pre>																
<p><b>Item</b></p>	<table border="1"> <thead> <tr> <th>DT</th> <th>Card</th> <th>Conf</th> <th>Description</th> <th>Label</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	DT	Card	Conf	Description	Label											
DT	Card	Conf	Description	Label													


h17:observation		0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
<div style="border: 1px solid black; padding: 5px; display: flex; justify-content: space-between;"> <span> psr-dataelement-46</span> <span> Residual tumor status</span> <span> APSR 2.0</span> </div>					
└ @classCode	CS	1 ... 1	F	OBS	
└ @moodCode	CS	1 ... 1	F	EVN	
└ @negationInd	bl	0 ... 1			
└ h17:templateId	II	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.3.10.9.29	
└ h17:id	II	0 ... *	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└ h17:code	CD (extensible)	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM

└ @code		1 ... 1	F	445200009	
└ @codeSystem	CONF	1 ... 1	F	2.16.840.1.113883.6.96 (Snomed-CT)	
└ @codeSystemName		1 ... 1	F	SCT	
└ h17:text	ED	0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└ h17:statusCode	CS (required)	1 ... 1	M	The observation statusCode is "completed" if the observation was actually performed and has produced a result in the value element. In other cases the status of the intended observation is "aborted" and the result will never come.	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
	Constraint	@code shall be "completed" or @code shall be "aborted"			
	CONF	The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933 <i>ActStatus</i> (2014-03-26)			
└ h17:effectiveTime	IVL_TS	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└ h17:value	CD (extensible)	1 ... 1	R		PaLM Suppl. APSR 2.1-3:

					6.3.5.8 TNM
	CONF	The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.21 <i>UICC Residual tumor (R) classification</i> (2015-06-25 11:23:51)			
└─ h17:author		0 ... *	C	Contains 1.3.6.1.4.1.19376.1.8.1.4.2 <i>Author</i> (2016-06-21 14:02:11)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
where [h17:author]					
└─ h17:informant		0 ... *	R	Contains 1.3.6.1.4.1.19376.1.8.1.4.6 <i>Informant</i> (2016-07-08 11:22:58)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
Included		1 ... *	M	from 1.3.6.1.4.1.19376.1.3.10.9.1 <i>X Specimen Identified</i> (2014-12-22 15:54:30)	
└─ h17:specimen		1 ... *	M	Required in XD-LAB when more than one specimen is documented at this level. Always required in APSR.	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
 psr-dataelement-17  Specimen identification  APSR 2.0					
└─ @typeCode	CS	0 ... 1	F	SPC	
└─ h17:specimenRole		1 ... 1	M		PaLM Suppl. APSR 2.1-3:


					6.3.5.7 X Specimen identified															
@classCode	CS	0 ... 1	F	SPEC																
h17:id	II	1 ... 1	R	Specimen ID, coming from the LIS	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified															
<table border="0"> <tr> <td> psr-dataelement-95</td> <td> Parent ID</td> <td> APSR 2.0</td> </tr> <tr> <td>psr-dataelement-67</td> <td> Block ID</td> <td> APSR 2.0</td> </tr> <tr> <td>psr-dataelement-66</td> <td> Part ID</td> <td> APSR 2.0</td> </tr> <tr> <td>psr-dataelement-98</td> <td> Specimen ID</td> <td> APSR 2.0</td> </tr> <tr> <td>psr-dataelement-68</td> <td> Tissue section ID</td> <td> APSR 2.0</td> </tr> </table>						 psr-dataelement-95	 Parent ID	 APSR 2.0	psr-dataelement-67	 Block ID	 APSR 2.0	psr-dataelement-66	 Part ID	 APSR 2.0	psr-dataelement-98	 Specimen ID	 APSR 2.0	psr-dataelement-68	 Tissue section ID	 APSR 2.0
 psr-dataelement-95	 Parent ID	 APSR 2.0																		
psr-dataelement-67	 Block ID	 APSR 2.0																		
psr-dataelement-66	 Part ID	 APSR 2.0																		
psr-dataelement-98	 Specimen ID	 APSR 2.0																		
psr-dataelement-68	 Tissue section ID	 APSR 2.0																		

**Supportive Template TNM a - 1.3.6.1.4.1.19376.1.3.10.9.30**

<b>Id</b>	1.3.6.1.4.1.19376.1.3.10.9.30	<b>Effective Date</b>	2015-06-22 15:13:46
<b>Status</b>	 Draft	<b>Version Label</b>	2.0
<b>Name</b>	TNMa	<b>Display Name</b>	TNM a
<b>Description</b>	Template CDA Observation (prototype, directly derived from POCD_RM000040 MIF)		
<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.30		
<b>Label</b>	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM		
<b>Classification</b>	CDA Entry Level Template		

<b>Open/Closed</b>	Open (other than defined elements are allowed)				
<b>Associated with</b>	Associated with 1 concept				
<b>Uses</b>	Uses 2 templates				
<b>Relationship</b>	Specialization: template 1.3.6.1.4.1.19376.1.8.1.4.9 (2014-05-14 17:09:54)				
<b>Example</b>	Generated example				
<b>Item</b>	<b>DT</b>	<b>Card</b>	<b>Conf</b>	<b>Description</b>	<b>Label</b>
hl7:observation		0 ... 1	R		PaLM Suppl. APSR

Associated with 1 concept

Id	Name	Data Set
psr-dataelement-28	 Autopsy	 APSR 2.0

Uses 2 templates

Uses	as	Name	Version
1.3.6.1.4.1.19376.1.8.1.4.2	Containment	 Author (2.0)	2016-06-21 14:02:11
1.3.6.1.4.1.19376.1.8.1.4.6	Containment	 Informant (2.0)	2016-07-08 11:22:58

Generated example

```

<observation negationInd="false" classCode="OBS" moodCode="EVN">
  <templateId root="1.3.6.1.4.1.19376.1.3.10.9.30"/>
  <code code="277646006" codeSystem="2.16.840.1.113883.6.96" displayName="At autopsy (tumor staging)"/>
  <text/>
  <statusCode code="completed"/>
  <value xsi:type="CD" code="a" displayName="a" codeSystem="2.16.840.1.113883.15.6"/>
  <author>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author IHE' (2016-06-21T14:02:11) -->
  </author>
  <informant>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant(Header&Body) APSR2' (2016-07-08T11:22:58) -->
  </informant>
</observation>
    
```
















					2.1-3: 6.3.5.8 TNM
	 psr-dataelement-28	 Autopsy	 APSR 2.0		
└ @classCode	cs	1 ... 1	F	OBS	
└ @moodCode	cs	1 ... 1	F	EVN	
└ @negationInd	bl	0 ... 1			
└ h17:templateId	II	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.3.10.9.30	
└ h17:id	II	0 ... *	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└ h17:code	CE (extensible)	1 ... 1	M	additional descriptors: a - (tumor staging) at autopsy	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
	CONF	@code shall be "277646006" @codeSystem shall be "2.16.840.1.113883.6.96"			

				<p>@codeSystemName shall be "SNOMED CT"                  @displayName shall be "At autopsy (tumor staging)"                  or                  @code shall be "85699-7"                  @codeSystem shall be "2.16.840.1.113883.6.1"                  @codeSystemName shall be "LOINC"                  @displayName shall be "Autopsy was performed"</p>		
<p>└ h17:text</p>	ED	0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
<p>└ h17:statusCode</p>	CS (required)	1 ... 1	M	The observation statusCode is "completed" if the observation was actually performed and has produced a result in the value element. In other cases the status of the intended observation is "aborted" and the result will never come.	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
	Constraint	<p>@code shall be "completed"                  or                  @code shall be "aborted"</p>				
	CONF	<p>The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933                  ActStatus (2014-03-26)</p>				
<p>└ h17:effectiveTime</p>	IVL_TS	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	

<p>↳ <code>h17:value</code></p>	<p>CD (extensible)</p>	<p>1 ... 1</p>	<p>R</p>	<p></p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM</p>
	<p>CONF</p>	<p>The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.41 <i>UICC Autopsy</i> (2015-11-18 15:55:17)</p>			
<p>↳ <code>h17:author</code></p>	<p>II</p>	<p>0 ... *</p>	<p>C</p>	<p>Contains 1.3.6.1.4.1.19376.1.8.1.4.2 <i>Author</i> (2016-06-21 14:02:11)</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM</p>
<p>where [<code>h17:author</code>]</p>					
<p>↳ <code>h17:informant</code></p>	<p>II</p>	<p>0 ... *</p>	<p>R</p>	<p>Contains 1.3.6.1.4.1.19376.1.8.1.4.6 <i>Informant</i> (2016-07-08 11:22:58)</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM</p>

### Supportive Template TNM r - 1.3.6.1.4.1.19376.1.3.10.9.31

<b>Id</b>	1.3.6.1.4.1.19376.1.3.10.9.31	<b>Effective Date</b>	2015-06-22 17:38:42
<b>Status</b>	 Draft	<b>Version Label</b>	2.0
<b>Name</b>	TNMr	<b>Display Name</b>	TNM r
<b>Description</b>	Template CDA Observation (prototype, directly derived from POCD_RM000040 MIF)		
<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.31		


<b>Label</b>	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM												
<b>Classification</b>	CDA Entry Level Template												
<b>Open/Closed</b>	Open (other than defined elements are allowed)												
<b>Associated with</b>	<p>Associated with 1 concept</p> <table border="1"> <thead> <tr> <th>Id</th> <th>Name</th> <th>Data Set</th> </tr> </thead> <tbody> <tr> <td>psr-dataelement-26</td> <td> Recurrence</td> <td> APSR 2.0</td> </tr> </tbody> </table>	Id	Name	Data Set	psr-dataelement-26	 Recurrence	 APSR 2.0						
Id	Name	Data Set											
psr-dataelement-26	 Recurrence	 APSR 2.0											
<b>Uses</b>	<p>Uses 2 templates</p> <table border="1"> <thead> <tr> <th>Uses</th> <th>as</th> <th>Name</th> <th>Version</th> </tr> </thead> <tbody> <tr> <td>1.3.6.1.4.1.19376.1.8.1.4.2</td> <td>Containment</td> <td> Author (2.0)</td> <td>2016-06-21 14:02:11</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.8.1.4.6</td> <td>Containment</td> <td> Informant (2.0)</td> <td>2016-07-08 11:22:58</td> </tr> </tbody> </table>	Uses	as	Name	Version	1.3.6.1.4.1.19376.1.8.1.4.2	Containment	 Author (2.0)	2016-06-21 14:02:11	1.3.6.1.4.1.19376.1.8.1.4.6	Containment	 Informant (2.0)	2016-07-08 11:22:58
Uses	as	Name	Version										
1.3.6.1.4.1.19376.1.8.1.4.2	Containment	 Author (2.0)	2016-06-21 14:02:11										
1.3.6.1.4.1.19376.1.8.1.4.6	Containment	 Informant (2.0)	2016-07-08 11:22:58										
<b>Relationship</b>	Specialization: template 1.3.6.1.4.1.19376.1.8.1.4.9 (2014-05-14 17:09:54)												
<b>Example</b>	<p>Generated example</p> <pre>&lt;observation classCode="OBS" moodCode="EVN" negationInd="false"&gt;   &lt;templateId root="1.3.6.1.4.1.19376.1.3.10.9.31"/&gt;   &lt;id root="1.2.3.999" extension="--example only--"/&gt;   &lt;code code="277647002" codeSystem="2.16.840.1.113883.6.96" displayName="Tumor recurrence (tumor staging)"/&gt;   &lt;text/&gt;   &lt;statusCode code="completed"/&gt;   &lt;effectiveTime&gt;     &lt;low value="20170712103938"/&gt;   &lt;/effectiveTime&gt;   &lt;value xsi:type="CD" code="r" displayName="r" codeSystem="2.16.840.1.113883.15.6"/&gt;   &lt;author&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author IHE' (2016-06-21T14:02:11) --&gt;   &lt;/author&gt;   &lt;informant&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant(Header&amp;Body) APSR2' (2016-06-21T14:02:11) --&gt;   &lt;/informant&gt; &lt;/observation&gt;</pre>												

Item	DT	Card	Conf	Description	Label
h17:observation		0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
 psr-dataelement-26  Recurrence  APSR 2.0					
└ @classCode	CS	0 ... 1	F	OBS	
└ @moodCode	CS	1 ... 1	F	EVN	
└ @negationInd	bl	0 ... 1			
└ h17:templateId	II	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.3.10.9.31	
└ h17:id	II	0 ... *	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└ h17:code	CE (extensible)	1 ... 1	R	additional tumor descriptors: r - recurrence	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM

<ul style="list-style-type: none"> <li>└ @code</li> <li>└ @codeSystem</li> <li>└ @codeSystemName</li> <li>└ @displayName</li> </ul>	CONF	0 ... 1	F	277647002		
		0 ... 1	F	2.16.840.1.113883.6.96 (Snomed-CT)		
		0 ... 1	F	Snomed CT		
		0 ... 1	F	Tumor recurrence (tumor staging)		
└ h17:text	ED	0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
└ h17:statusCode	CS (required)	1 ... 1	M	The observation statusCode is "completed" if the observation was actually performed and has produced a result in the value element. In other cases the status of the intended observation is "aborted" and the result will never come.	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
	Constraint	@code shall be "completed" or @code shall be "aborted"				
	CONF	The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933 <i>ActStatus</i> (2014-03-26)				
└ h17:effectiveTime	IVL_TS	0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	

<p>↳ <code>hl7:value</code></p>	<p>CD (extensible)</p>	<p>1 ... 1</p>	<p>R</p>		<p>PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM</p>
	<p>CONF</p>	<p>The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.39 <i>UICC Recurrence</i> (2015-11-06 10:36:10)</p>			
<p>↳ <code>hl7:author</code></p>	<p>II</p>	<p>0 ... *</p>	<p>C</p>	<p>Author</p> <p>Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.2</p> <p>Contains 1.3.6.1.4.1.19376.1.8.1.4.2 <i>Author</i> (2016-06-21 14:02:11)</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM</p>
<p>where [<code>hl7:author</code>]</p>					
<p>↳ <code>hl7:informant</code></p>	<p>II</p>	<p>0 ... *</p>	<p>R</p>	<p>Informant</p> <p>Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.5</p> <p>Contains 1.3.6.1.4.1.19376.1.8.1.4.6 <i>Informant</i> (2016-07-08 11:22:58)</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM</p>

### Supportive Template TNM y - 1.3.6.1.4.1.19376.1.3.10.9.32

<b>Id</b>	1.3.6.1.4.1.19376.1.3.10.9.32	<b>Effective Date</b>	2015-06-22 17:28:17
<b>Status</b>	 Draft	<b>Version Label</b>	2.0
<b>Name</b>	TNMy	<b>Display Name</b>	TNM y
<b>Description</b>	Template CDA Observation (prototype, directly derived from POCD_RM000040 MIF)		
<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.32		

<b>Label</b>	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM												
<b>Classification</b>	CDA Entry Level Template												
<b>Open/Closed</b>	Open (other than defined elements are allowed)												
<b>Associated with</b>	<p>Associated with 1 concept</p> <table border="1"> <thead> <tr> <th>Id</th> <th>Name</th> <th>Data Set</th> </tr> </thead> <tbody> <tr> <td>psr-dataelement-29</td> <td> Posttherapeutic</td> <td> APSR 2.0</td> </tr> </tbody> </table>	Id	Name	Data Set	psr-dataelement-29	Posttherapeutic	APSR 2.0						
Id	Name	Data Set											
psr-dataelement-29	Posttherapeutic	APSR 2.0											
<b>Uses</b>	<p>Uses 2 templates</p> <table border="1"> <thead> <tr> <th>Uses</th> <th>as</th> <th>Name</th> <th>Version</th> </tr> </thead> <tbody> <tr> <td>1.3.6.1.4.1.19376.1.8.1.4.2</td> <td>Containment</td> <td> Author (2.0)</td> <td>2016-06-21 14:02:11</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.8.1.4.6</td> <td>Containment</td> <td> Informant (2.0)</td> <td>2016-07-08 11:22:58</td> </tr> </tbody> </table>	Uses	as	Name	Version	1.3.6.1.4.1.19376.1.8.1.4.2	Containment	Author (2.0)	2016-06-21 14:02:11	1.3.6.1.4.1.19376.1.8.1.4.6	Containment	Informant (2.0)	2016-07-08 11:22:58
Uses	as	Name	Version										
1.3.6.1.4.1.19376.1.8.1.4.2	Containment	Author (2.0)	2016-06-21 14:02:11										
1.3.6.1.4.1.19376.1.8.1.4.6	Containment	Informant (2.0)	2016-07-08 11:22:58										
<b>Relationship</b>	Specialization: template 1.3.6.1.4.1.19376.1.8.1.4.9 (2014-05-14 17:09:54)												
<b>Example</b>	<p>Generated example</p> <pre>&lt;observation negationInd="false" classCode="OBS" moodCode="EVN"&gt;   &lt;templateId root="1.3.6.1.4.1.19376.1.3.10.9.32"/&gt;   &lt;id root="1.2.3.999" extension="--example only--"/&gt;   &lt;code code="277649004" codeSystem="2.16.840.1.113883.6.96" displayName="y - During therapy/following treatment (tumor staging)"/&gt;   &lt;text/&gt;   &lt;statusCode code="completed"/&gt;   &lt;effectiveTime&gt;     &lt;low value="20170712105323"/&gt;   &lt;/effectiveTime&gt;   &lt;value xsi:type="CD" code="y" displayName="y" codeSystem="2.16.840.1.113883.15.6"/&gt;   &lt;author&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author IHE' (2016-06-21T14:02:11) --&gt;   &lt;/author&gt;   &lt;informant&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant(Header&amp;Body) APSR2' (2016-07-08T11:22:58) --&gt;   &lt;/informant&gt; &lt;/observation&gt;</pre>												







		</observation>			
Item	DT	Card	Conf	Description	Label
h17:observation		0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
		 psr-dataelement-29  Posttherapeutic  APSR 2.0			
└ @classCode	cs	1 ... 1	F	OBS	
└ @moodCode	cs	1 ... 1	F	EVN	
└ @negationInd	bl	0 ... 1			
└ h17:templateId	II	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.3.10.9.32	
└ h17:id	II	0 ... *	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└ h17:code	CE (extensible)	1 ... 1	M	additional descriptor: y - after multimodal therapy	PaLM Suppl. APSR

					2.1-3: 6.3.5.8 TNM
	CONF	<p>@code shall be "277649004"</p> <p>@codeSystem shall be "2.16.840.1.113883.6.96"</p> <p>@codeSystemName shall be "Snomed CT"</p> <p>@displayName shall be "y - During therapy/following treatment (tumor staging)"</p> <p>or</p> <p>@code shall be "y"</p> <p>@codeSystem shall be "2.16.840.1.113883.15.6"</p> <p>@codeSystemName shall be "TNM Edition7 UICC"</p> <p>@displayName shall be "y"</p>			
h17:text	ED	0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
h17:statusCode	CS (required)	0 ... 1	R	The observation statusCode is "completed" if the observation was actually performed and has produced a result in the value element. In other cases the status of the intended observation is "aborted" and the result will never come.	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
	Constraint	<p>@code shall be "completed"</p> <p>or</p> <p>@code shall be "aborted"</p>			
	CONF	The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933 <i>ActStatus</i> (2014-03-26)			

<p>└─ hl7:effectiveTime</p>	<p>IVL_TS</p>	<p>0 ... 1</p>	<p>R</p>		<p>PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM</p>
<p>└─ hl7:value</p>	<p>CD (extensible)</p>	<p>1 ... 1</p>	<p>R</p>		<p>PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM</p>
	<p>CONF</p>	<p>The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.40 <i>UICC Posttherapeutic</i> (2015-11-06 10:39:53)</p>			
<p>└─ hl7:author</p>	<p>II</p>	<p>0 ... *</p>	<p>C</p>	<p>Author Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.2 Contains 1.3.6.1.4.1.19376.1.8.1.4.2 <i>Author</i> (2016-06-21 14:02:11)</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM</p>
<p>where [hl7:author]</p>					
<p>└─ hl7:informant</p>	<p>II</p>	<p>0 ... *</p>	<p>R</p>	<p>Informant Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.5 Contains 1.3.6.1.4.1.19376.1.8.1.4.6 <i>Informant</i> (2016-07-08 11:22:58)</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM</p>

**Supportive Template TNM Serum Tumor Markers - 1.3.6.1.4.1.19376.1.3.10.9.33**

<p>Id</p>	<p>1.3.6.1.4.1.19376.1.3.10.9.33</p>	<p>Effective Date</p>	<p>2015-11-06 14:28:44</p>
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<b>Status</b>	 Draft	<b>Version Label</b>	2.0	
<b>Name</b>	TNMserumtumormarker	<b>Display Name</b>	TNM Serum tumor markers	
<b>Description</b>	Template CDA Observation (prototype, directly derived from POCD_RM000040 MIF)			
<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.33			
<b>Label</b>	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM			
<b>Classification</b>	CDA Entry Level Template			
<b>Open/Closed</b>	Open (other than defined elements are allowed)			
<b>Uses</b>	Uses 3 templates			
	<b>Uses</b>	<b>as</b>	<b>Name</b>	<b>Version</b>
	1.3.6.1.4.1.19376.1.8.1.4.2	Containment	 Author (2.0)	2016-06-21 14:02:11
	1.3.6.1.4.1.19376.1.8.1.4.6	Containment	 Informant (2.0)	2016-07-08 11:22:58
2.16.840.1.113883.10.12.300	Containment	 CDA Clinical Statement	2005-09-07	
<b>Relationship</b>	Specialization: template 1.3.6.1.4.1.19376.1.8.1.4.9 (2014-05-14 17:09:54)			
<b>Example</b>	Generated example			
	<pre> &lt;observation classCode="OBS" moodCode="EVN" negationInd="false"&gt;   &lt;templateId root="1.3.6.1.4.1.19376.1.3.10.9.33"/&gt;   &lt;Id root="1.2.3.999" extension="--example only--"/&gt;   &lt;code code="tnmS" codeSystem="1.2.276.0.76.3.1.131.1.5.1"/&gt;   &lt;text/&gt;   &lt;statusCode code="completed"/&gt;   &lt;effectiveTime&gt;     &lt;low value="20170712150818"/&gt;   &lt;/effectiveTime&gt;   &lt;value xsi:type="CD" code="S0" displayName="S0" codeSystem="2.16.840.1.113883.15.6"/&gt;   &lt;author&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author IHE' (2016-06-21T14:02:11) --&gt;   &lt;/author&gt;   &lt;informant&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant(Header&amp;Body) APSR2' (2016-07-08T11:22:58) --&gt; </pre>			

```





</informant>
<entryRelationship typeCode="COMP">
  <!-- template 2.16.840.1.113883.10.12.300 'CDA Clinical Statement' (2005-09-07T00:00:00) -->
</entryRelationship>
</observation>
    
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Item	DT	Card	Conf	Description	Label
hl7:observation		0 ... 1	C		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└ @classCode	cs	1 ... 1	F	OBS	
└ @moodCode	cs	1 ... 1	F	EVN	
└ @negationInd	bl	0 ... 1			
	Constraint	In case of male testicular tumor only. Information comes from clinical information or from a clinical statement or from ICD-O-3-Topography (C62.0, C62.1, C62.9) and ICD-O-3 Typing (M9061-M9085).			
└ hl7:templateId	II	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.3.10.9.33	
└ hl7:Id	II	0 ... *	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM

L h17:code	CE (extensible)	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
L @codeSystem	oid	1 ... 1	F	1.2.276.0.76.3.1.131.1.5.1	
L @code	cs	1 ... 1	F	tnmS	
L h17:text	ED	0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
L h17:statusCode	CS (required)	1 ... 1	M	The observation statusCode is "completed" if the observation was actually performed and has produced a result in the value element. In other cases the status of the intended observation is "aborted" and the result will never come.	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
	Constraint	@code shall be "completed" or @code shall be "aborted"			
	CONF	The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933 ActStatus (2014-03-26)			
L h17:effectiveTime	IVL_TS	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM

L h17:value CD (extensible)	1 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
	CONF	The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.32 <i>UICC Serum Tumor Markers</i> (2015-11-08 18:26:39)		
L h17:author	0 ... *	C	Contains 1.3.6.1.4.1.19376.1.8.1.4.2 <i>Author</i> (2016-06-21 14:02:11)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
where [h17:author]				
L h17:informant	0 ... *	R	Contains 1.3.6.1.4.1.19376.1.8.1.4.6 <i>Informant</i> (2016-07-08 11:22:58)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
L h17:entryRelationship	0 ... *	C	Information about clinical laboratory values Contains 2.16.840.1.113883.10.12.300 <i>CDA Clinical Statement</i> (2005-09-07)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
L @typeCode	CS	1 ... 1	F	COMP

**Supportive Template TNM Lymphatic Invasion - 1.3.6.1.4.1.19376.1.3.10.9.34**

<b>Id</b>	1.3.6.1.4.1.19376.1.3.10.9.34	<b>Effective Date</b>	2015-11-16 14:01:58
<b>Status</b>	 Draft	<b>Version Label</b>	2.0
<b>Name</b>	TNMLymphaticInvasion	<b>Display Name</b>	TNM Lymphatic Invasion
<b>Description</b>	Template CDA Observation (prototype, directly derived from POCD_RM000040 MIF)		
<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.34		
<b>Label</b>	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM		
<b>Classification</b>	CDA Entry Level Template		
<b>Open/Closed</b>	Open (other than defined elements are allowed)		
<b>Uses</b>	Uses 3 templates		
	<b>Uses</b>	<b>as</b>	<b>Name</b>
	1.3.6.1.4.1.19376.1.8.1.4.2	Containment	 Author (2.0)
	1.3.6.1.4.1.19376.1.8.1.4.6	Containment	 Informant (2.0)
1.3.6.1.4.1.19376.1.3.10.9.1	Include	 X Specimen Identified (2.0)	
<b>Relationship</b>	Specialization: template 1.3.6.1.4.1.19376.1.8.1.4.9 (2014-05-14 17:09:54)		
<b>Example</b>	<p>Generated example</p> <pre>&lt;observation classCode="OBS" moodCode="EVN" negationInd="false"&gt;   &lt;templateId root="1.3.6.1.4.1.19376.1.3.10.9.34"/&gt;   &lt;id root="1.2.3.999" extension="--example only--"/&gt;   &lt;code code="395715009" codeSystem="2.16.840.1.113883.6.96" displayName="Status of lymphatic (small vessel) invasion by tumor (observable entity)"/&gt;   &lt;statusCode code="completed"/&gt;   &lt;effectiveTime&gt;     &lt;low value="20170712144109"/&gt;   &lt;/effectiveTime&gt;   &lt;value xsi:type="CD" code="L0" displayName="no lymphatic invasion" codeSystem="2.16.840.1.113883.15.6"/&gt;   &lt;author&gt;</pre>		






```

<!-- template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author IHE' (2016-06-21T14:02:11) -->
</author>
<informant>
  <!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant(Header&Body) APSR2' (2016-07-08T11:22:58) -->
</informant>
<!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (2014-12-22T15:54:30) 1..* R -->
</observation>
    
```

Item	DT	Card	Conf	Description	Label
h17:observation		0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└ @classCode	CS	1 ... 1	F	OBS	
└ @moodCode	CS	1 ... 1	F	EVN	
└ @negationInd	bl	0 ... 1			
└ h17:templateId	II	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.3.10.9.34	
└ h17:id	II	0 ... *	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM

<p>└ h17:code</p>	<p>CE (extensible)</p>	<p>1 ... 1</p>	<p>M</p>		<p>PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM</p>				
<table border="1"> <tr> <td data-bbox="734 373 925 772"> <p>CONF</p> </td> <td data-bbox="925 373 2060 772"> <p>@code shall be "395715009"                      @codeSystem shall be "2.16.840.1.113883.6.96"                      @codeSystemName shall be "SNOMED CT"                      @displayName shall be "Status of lymphatic (small vessel) invasion by tumor (observable entity)"                      or                      @code shall be "33739-4"                      @codeSystem shall be "2.16.840.1.113883.6.1"                      @codeSystemName shall be "LOINC"                      @displayName shall be "Lymphatic.small vessel.invasion"</p> </td> </tr> </table>						<p>CONF</p>	<p>@code shall be "395715009"                      @codeSystem shall be "2.16.840.1.113883.6.96"                      @codeSystemName shall be "SNOMED CT"                      @displayName shall be "Status of lymphatic (small vessel) invasion by tumor (observable entity)"                      or                      @code shall be "33739-4"                      @codeSystem shall be "2.16.840.1.113883.6.1"                      @codeSystemName shall be "LOINC"                      @displayName shall be "Lymphatic.small vessel.invasion"</p>		
<p>CONF</p>	<p>@code shall be "395715009"                      @codeSystem shall be "2.16.840.1.113883.6.96"                      @codeSystemName shall be "SNOMED CT"                      @displayName shall be "Status of lymphatic (small vessel) invasion by tumor (observable entity)"                      or                      @code shall be "33739-4"                      @codeSystem shall be "2.16.840.1.113883.6.1"                      @codeSystemName shall be "LOINC"                      @displayName shall be "Lymphatic.small vessel.invasion"</p>								
<p>└ h17:statusCode</p>	<p>CS (required)</p>	<p>1 ... 1</p>	<p>M</p>	<p>The observation statusCode is "completed" if the observation was actually performed and has produced a result in the value element. In other cases the status of the intended observation is "aborted" and the result will never come.</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM</p>				
<table border="1"> <tr> <td data-bbox="734 970 925 1123"> <p>Constraint</p> </td> <td data-bbox="925 970 2060 1123"> <p>@code shall be "completed"                      or                      @code shall be "aborted"</p> </td> </tr> <tr> <td data-bbox="734 1123 925 1222"> <p>CONF</p> </td> <td data-bbox="925 1123 2060 1222"> <p>The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933 ActStatus (2014-03-26)</p> </td> </tr> </table>						<p>Constraint</p>	<p>@code shall be "completed"                      or                      @code shall be "aborted"</p>	<p>CONF</p>	<p>The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933 ActStatus (2014-03-26)</p>
<p>Constraint</p>	<p>@code shall be "completed"                      or                      @code shall be "aborted"</p>								
<p>CONF</p>	<p>The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933 ActStatus (2014-03-26)</p>								
<p>└ h17:effectiveTime</p>	<p>IVL_TS</p>	<p>1 ... 1</p>	<p>M</p>		<p>PaLM Suppl. APSR 2.1-3: 6.3.5.8</p>				

					TNM
↳ hl7:value	CD (extensible)	1 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
	CONF	The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.24 <i>UICC Lymphatic Invasion</i> (2015-11-04 16:19:20)			
↳ hl7:author	II	0 ... *	C	Author Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.2 Contains 1.3.6.1.4.1.19376.1.8.1.4.2 <i>Author</i> (2016-06-21 14:02:11)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
where [hl7:author]					
↳ hl7:informant	II	0 ... *	R	Informant Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.5 Contains 1.3.6.1.4.1.19376.1.8.1.4.6 <i>Informant</i> (2016-07-08 11:22:58)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
Included		1 ... *	R	from 1.3.6.1.4.1.19376.1.3.10.9.1 X <i>Specimen Identified</i> (2014-12-22 15:54:30)	
↳ hl7:specimen		1 ... *	R	Required in XD-LAB when more than one specimen is documented at this level. Always required in APSR.	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
 psr-dataelement-17  Specimen identification  APSR 2.0					

L @typeCode h17:specimenRole	CS	0 ... 1	F	SPC	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified			
L @classCode h17:id	CS	0 ... 1	F	SPEC	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified			
	II	1 ... 1	R	Specimen ID, coming from the LIS				
<table border="0"> <tr> <td>  psr-dataelement-95                      psr-dataelement-67                      psr-dataelement-66                      psr-dataelement-98                      psr-dataelement-68                 </td> <td>                     Parent ID                      Block ID                      Part ID                      Specimen ID                      Tissue section ID                 </td> <td>                     APSR 2.0                      APSR 2.0                      APSR 2.0                      APSR 2.0                      APSR 2.0                 </td> </tr> </table>						psr-dataelement-95 psr-dataelement-67 psr-dataelement-66 psr-dataelement-98 psr-dataelement-68	Parent ID Block ID Part ID Specimen ID Tissue section ID	APSR 2.0 APSR 2.0 APSR 2.0 APSR 2.0 APSR 2.0
psr-dataelement-95 psr-dataelement-67 psr-dataelement-66 psr-dataelement-98 psr-dataelement-68	Parent ID Block ID Part ID Specimen ID Tissue section ID	APSR 2.0 APSR 2.0 APSR 2.0 APSR 2.0 APSR 2.0						




**Supportive Template TNM Venous Invasion - 1.3.6.1.4.1.19376.1.3.10.9.35**

<b>Id</b>	1.3.6.1.4.1.19376.1.3.10.9.35	<b>Effective Date</b>	2015-11-16 13:40:28
<b>Status</b>	Draft	<b>Version Label</b>	2.0
<b>Name</b>	TNMVenousInvasion	<b>Display Name</b>	TNM Venous Invasion
<b>Description</b>	Template CDA Observation (prototype, directly derived from POCD_RM000040 MIF)		


































<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.35																
<b>Label</b>	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM																
<b>Classification</b>	CDA Entry Level Template																
<b>Open/Closed</b>	Open (other than defined elements are allowed)																
<b>Uses</b>	Uses 3 templates																
	<table border="1"> <thead> <tr> <th>Uses</th> <th>as</th> <th>Name</th> <th>Version</th> </tr> </thead> <tbody> <tr> <td>1.3.6.1.4.1.19376.1.8.1.4.2</td> <td>Containment</td> <td>Author (2.0)</td> <td>2016-06-21 14:02:11</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.8.1.4.6</td> <td>Containment</td> <td>Informant (2.0)</td> <td>2016-07-08 11:22:58</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.3.10.9.1</td> <td>Include</td> <td>X Specimen Identified (2.0)</td> <td>2014-12-22 15:54:30</td> </tr> </tbody> </table>	Uses	as	Name	Version	1.3.6.1.4.1.19376.1.8.1.4.2	Containment	Author (2.0)	2016-06-21 14:02:11	1.3.6.1.4.1.19376.1.8.1.4.6	Containment	Informant (2.0)	2016-07-08 11:22:58	1.3.6.1.4.1.19376.1.3.10.9.1	Include	X Specimen Identified (2.0)	2014-12-22 15:54:30
	Uses	as	Name	Version													
	1.3.6.1.4.1.19376.1.8.1.4.2	Containment	Author (2.0)	2016-06-21 14:02:11													
1.3.6.1.4.1.19376.1.8.1.4.6	Containment	Informant (2.0)	2016-07-08 11:22:58														
1.3.6.1.4.1.19376.1.3.10.9.1	Include	X Specimen Identified (2.0)	2014-12-22 15:54:30														
Relationship	Specialization: template 1.3.6.1.4.1.19376.1.8.1.4.9 (2014-05-14 17:09:54)																
<b>Example</b>	<p>Generated example</p> <pre> &lt;hl7:observation&gt;   &lt;hl7:templateId/&gt;   &lt;hl7:id root="1.2.3.999" extension="--example only--"/&gt;   &lt;hl7:code code="371493002" codeSystem="2.16.840.1.113883.6.96" displayName="Status of venous (large vessel) invasion by tumor (observable entity)"/&gt;   &lt;hl7:text/&gt;   &lt;hl7:statusCode/&gt;   &lt;hl7:effectiveTime&gt;     &lt;hl7:low value="20180125135337"/&gt;   &lt;/hl7:effectiveTime&gt;   &lt;hl7:value xsi:type="CD" code="V0" codeSystem="2.16.840.1.113883.15.16" displayName="V0"/&gt;   &lt;hl7:author&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author IHE' (2016-06-21T14:02:11) --&gt;   &lt;/hl7:author&gt;   &lt;hl7:informant&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant(Header&amp;Body) APSR2' (2016-07-08T11:22:58) --&gt;   &lt;/hl7:informant&gt;   &lt;!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (2014-12-22T15:54:30) 1..* R --&gt; &lt;/hl7:observation&gt; </pre>																

Item	DT	Card	Conf	Description	Label	
h17:observation		0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
└ @classCode	CS	1 ... 1	F	OBS		
└ @moodCode	CS	1 ... 1	F	EVN		
└ @negationInd	bl	0 ... 1				
└ h17:templateId	II	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.3.10.9.35		
└ h17:id	II	0 ... *	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
└ h17:code	CE (extensible)	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
	CONF	@code shall be "371493002"				


				<p>@codeSystem shall be "2.16.840.1.113883.6.96"                  @codeSystemName shall be "SNOMED CT"                  @displayName shall be "Status of venous (large vessel) invasion by tumor (observable entity)"                  or                  @code shall be "33740-2"                  @codeSystem shall be "2.16.840.1.113883.6.1"                  @codeSystemName shall be "LOINC"                  @displayName shall be "Venous.large vessel.invasion"</p>		
<p>└ h17:text</p>	ED	0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
<p>└ h17:statusCode</p>	CS (required)	1 ... 1	M	The observation statusCode is "completed" if the observation was actually performed and has produced a result in the value element. In other cases the status of the intended observation is "aborted" and the result will never come.	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	
	Constraint	<p>@code shall be "completed"                  or                  @code shall be "aborted"</p>				
	CONF	<p>The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933                  ActStatus (2014-03-26)</p>				
<p>└ h17:effectiveTime</p>	IVL_TS	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM	

<p>↳ <code>hl7:value</code></p>	<p>CD (extensible)</p>	<p>1 ... 1</p>	<p>R</p>		<p>PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM</p>
	<p>CONF</p>	<p>The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.23 <i>UICC Venous Invasion</i> (2015-11-04 16:17:55)</p>			
<p>↳ <code>hl7:author</code></p>	<p>II</p>	<p>0 ... *</p>	<p>C</p>	<p>Author Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.2 Contains 1.3.6.1.4.1.19376.1.8.1.4.2 <i>Author</i> (2016-06-21 14:02:11)</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM</p>
<p>where [<code>hl7:author</code>]</p>					
<p>↳ <code>hl7:informant</code></p>	<p>II</p>	<p>0 ... *</p>	<p>R</p>	<p>Informant Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.5 Contains 1.3.6.1.4.1.19376.1.8.1.4.6 <i>Informant</i> (2016-07-08 11:22:58)</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM</p>
<p>Included</p>		<p>1 ... *</p>	<p>R</p>	<p>from 1.3.6.1.4.1.19376.1.3.10.9.1 X <i>Specimen Identified</i> (2014-12-22 15:54:30)</p>	
<p>↳ <code>hl7:specimen</code></p>		<p>1 ... *</p>	<p>R</p>	<p>Required in XD-LAB when more than one specimen is documented at this level. Always required in APSR.</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified</p>
<p>  psr-dataelement-17                  Specimen identification                  APSR 2.0             </p>					
<p>↳ @typeCode</p>	<p>CS</p>	<p>0 ... 1</p>	<p>F</p>	<p>SPC</p>	







h17:specimenRole		1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified															
@classCode	CS	0 ... 1	F	SPEC																
h17:id	II	1 ... 1	R	Specimen ID, coming from the LIS	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified															
<table border="0"> <tr> <td> psr-dataelement-95</td> <td> Parent ID</td> <td> APSR 2.0</td> </tr> <tr> <td>psr-dataelement-67</td> <td> Block ID</td> <td> APSR 2.0</td> </tr> <tr> <td>psr-dataelement-66</td> <td> Part ID</td> <td> APSR 2.0</td> </tr> <tr> <td>psr-dataelement-98</td> <td> Specimen ID</td> <td> APSR 2.0</td> </tr> <tr> <td>psr-dataelement-68</td> <td> Tissue section ID</td> <td> APSR 2.0</td> </tr> </table>						 psr-dataelement-95	 Parent ID	 APSR 2.0	psr-dataelement-67	 Block ID	 APSR 2.0	psr-dataelement-66	 Part ID	 APSR 2.0	psr-dataelement-98	 Specimen ID	 APSR 2.0	psr-dataelement-68	 Tissue section ID	 APSR 2.0
 psr-dataelement-95	 Parent ID	 APSR 2.0																		
psr-dataelement-67	 Block ID	 APSR 2.0																		
psr-dataelement-66	 Part ID	 APSR 2.0																		
psr-dataelement-98	 Specimen ID	 APSR 2.0																		
psr-dataelement-68	 Tissue section ID	 APSR 2.0																		

**Supportive Template TNM Perineural Invasion - 1.3.6.1.4.1.19376.1.3.10.9.36**

<b>Id</b>	1.3.6.1.4.1.19376.1.3.10.9.36	<b>Effective Date</b>	2015-11-11 16:13:40
<b>Status</b>	 Draft	<b>Version Label</b>	2.0
<b>Name</b>	TnmPerineuralInvasion	<b>Display Name</b>	TNM Perineural Invasion
<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.36		
<b>Label</b>	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM		

<b>Classification</b>	CDA Entry Level Template				
<b>Open/Closed</b>	Open (other than defined elements are allowed)				
<b>Uses</b>	Uses 3 templates				
	<b>Uses</b>	<b>as</b>	<b>Name</b>	<b>Version</b>	
	1.3.6.1.4.1.19376.1.8.1.4.2	Containment	Author (2.0)	2016-06-21 14:02:11	
	1.3.6.1.4.1.19376.1.8.1.4.6	Containment	Informant (2.0)	2016-07-08 11:22:58	
1.3.6.1.4.1.19376.1.3.10.9.1	Include	X Specimen Identified (2.0)	2014-12-22 15:54:30		
<b>Relationship</b>	Specialization: template 1.3.6.1.4.1.19376.1.8.1.4.9 (2014-05-14 17:09:54)				
<b>Example</b>	Generated example				
	<pre> &lt;observation classCode="OBS" moodCode="EVN"&gt;   &lt;templateId root="1.3.6.1.4.1.19376.1.3.10.9.36"/&gt;   &lt;id root="1.2.3.999" extension="--example only--"/&gt;   &lt;code code="tnmPn" codeSystem="1.2.276.0.76.3.1.131.1.5.1"/&gt;   &lt;originalText/&gt;   &lt;statusCode code="completed"/&gt;   &lt;value code="Pn0" displayName="Pn0" codeSystem="2.16.840.1.113883.15.6"/&gt;   &lt;author&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author IHE' (2016-06-21T14:02:11) --&gt;   &lt;/author&gt;   &lt;informant&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant(Header&amp;Body) APSR2' (2016-07-08T11:22:58) --&gt;   &lt;/informant&gt;   &lt;!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (2014-12-22T15:54:30) 1..* R --&gt; &lt;/observation&gt; </pre>				
<b>Item</b>	<b>DT</b>	<b>Card</b>	<b>Conf</b>	<b>Description</b>	<b>Label</b>
hl7:observation		0 ... 1	R		PaLM Suppl. APSR 2.1-3:

					6.3.5.8 TNM
└ @moodCode	CS	1 ... 1	F	EVN	
└ @classCode	CS	1 ... 1	F	OBS	
└ h17:templateId	II	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.3.10.9.36	
└ h17:id	II	0 ... *	R		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└ h17:code	CD (extensible)	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
└ @codeSystem	oid	1 ... 1	F	1.2.276.0.76.3.1.131.1.5.1	
└ @code	CS	1 ... 1	F	tnmPn	
└ h17:originalText	ED	0 ... 1	R		PaLM Suppl. APSR 2.1-3:

					6.3.5.8 TNM
 <code>hl7:statusCode</code>	<b>CS</b> (required)	<b>1 ... 1</b>	<b>M</b>	The observation statusCode is “completed” if the observation was actually performed and has produced a result in the value element. In other cases the status of the intended observation is “aborted” and the result will never come.	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
	Constraint	@code shall be "completed" or @code shall be "aborted"			
	CONF	The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933 <i>ActStatus</i> (2014-03-26)			
 <code>hl7:value</code>	<b>CD</b> (extensible)	<b>1 ... 1</b>	<b>R</b>		PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
	CONF	The value of @code should be drawn from value set 1.3.6.1.4.1.19376.1.3.11.25 <i>UICC Perineural Invasion</i> (2015-11-04 16:20:42)			
 <code>hl7:author</code>	<b>II</b>	<b>0 ... *</b>	<b>C</b>	Contains 1.3.6.1.4.1.19376.1.8.1.4.2 <i>Author</i> (2016-06-21 14:02:11)	PaLM Suppl. APSR 2.1-3: 6.3.5.8 TNM
where [ <i>hl7:author</i> ]					
 <code>hl7:informant</code>	<b>II</b>	<b>0 ... *</b>	<b>R</b>	Contains 1.3.6.1.4.1.19376.1.8.1.4.6 <i>Informant</i> (2016-07-08 11:22:58)	PaLM Suppl. APSR

					2.1-3: 6.3.5.8 TNM
Included		1 ... *	R	from 1.3.6.1.4.1.19376.1.3.10.9.1 X Specimen Identified (2014-12-22 15:54:30)	
└ h17:specimen		1 ... *	R	Required in XD-LAB when more than one specimen is documented at this level. Always required in APSR.	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
	psr-dataelement-17			Specimen identification	APSR 2.0
└ @typeCode	CS	0 ... 1	F	SPC	
└ h17:specimenRole		1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
└ @classCode	CS	0 ... 1	F	SPEC	
└ h17:id	II	1 ... 1	R	Specimen ID, coming from the LIS	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
	psr-dataelement-95			Parent ID	APSR 2.0
	psr-dataelement-67			Block ID	APSR 2.0

psr-dataelement-66	● Part ID	● APSR 2.0
psr-dataelement-98	● Specimen ID	● APSR 2.0
psr-dataelement-68	● Tissue section ID	● APSR 2.0

### 6.3.5.9 <ICD-O-3 Typing and Grading> - Child Element Content Module - 1.3.6.1.4.1.19376.1.3.10.4.3

#### 6.3.5.9.1 Definition and purpose

The ICD-O-3 Typing and Grading<entry> Content Modul is a template for a complex observation usable in tumor pathology contexts. It contains in machine-readable form all the information concerning ICD-O-3 Typing and Grading for a problem investigated. It is a constraint version of an AP Generic observation <entry> Content Module. It is usable within a Problem Organizer <entry> Content Module only.

This Content Module structures the machine-readable data, which characterize the typing and grading of a tumor or a systemic malignancy according the WHO regulations for the ICD-O-3 system. The supporting template ICD-O-Behavior is to use for behavior classification (5th digit in morphology and behavior code list). The supporting template ICD-O-Differentiation is used for a more detailed descriptions (6th digit) of those elements of the ICD-O-3 system.

Morphology and topography axes of ICD-O-3 are not combined to a singular, common code, but used simultaneously. A complete ICD-O-3 coding consists always of topography *and* morphology and behavior codes, displayed together in one line in the human readable section. Therefore, the topography axis of ICD-O-3 SHOULD be coded in a supportive template ICD-O-Topography, specialized from a generic observation, within the same Problem Organizer <entry> Content Module.

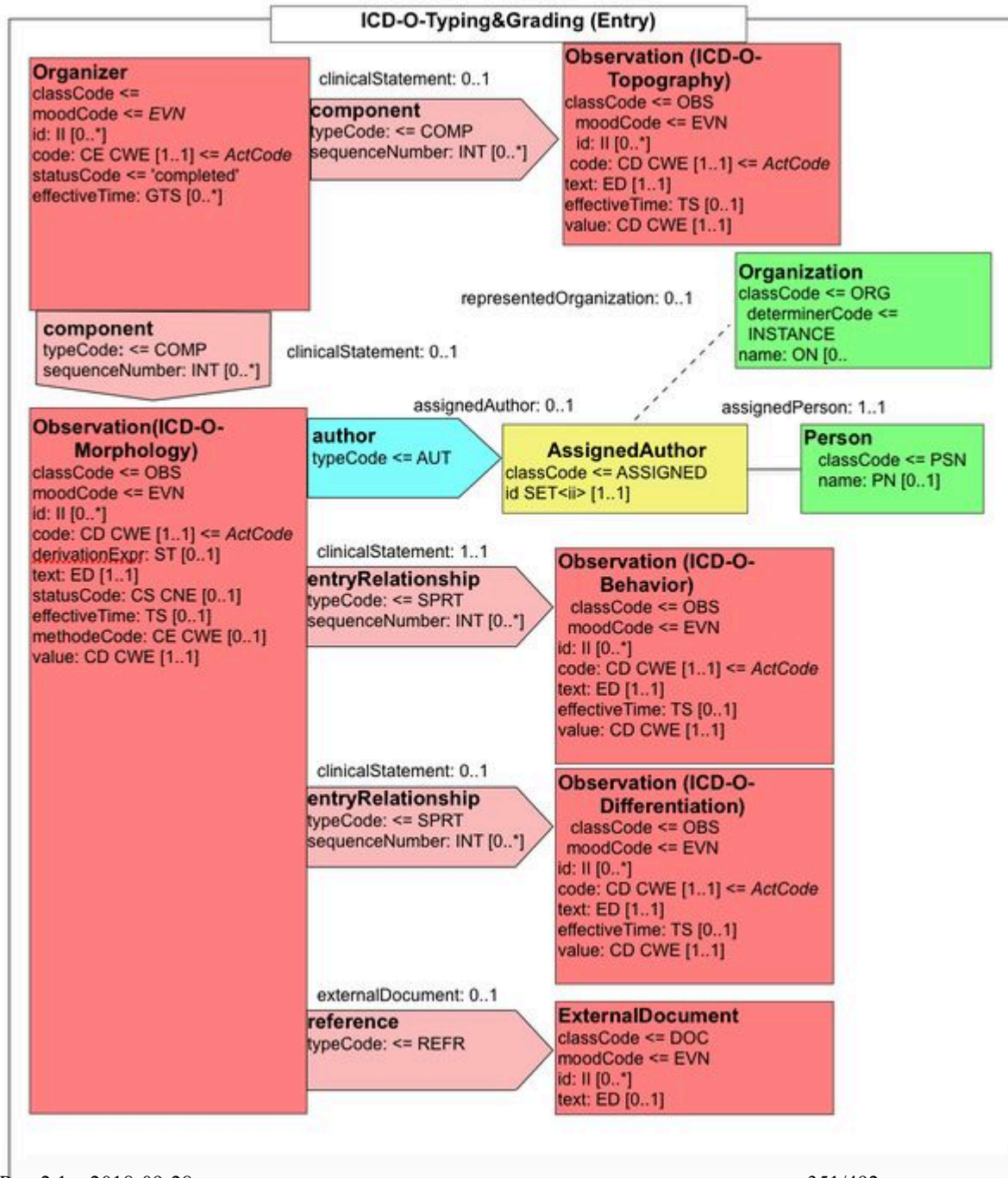








Figure 6.3.5.9.1-1 CDA-R-MIM of the ICD-O-3 <entry>

6.3.5.9.2 Specification and Example

<b>Id</b>	1.3.6.1.4.1.19376.1.3.10.4.3	<b>Effective Date</b>	2015-11-29 17:03:18	
<b>Status</b>	 Draft	<b>Version Label</b>	2.0	
<b>Name</b>	ICD-O-3TypingGrading	<b>Display Name</b>	ICD-O-3 Typing and Grading Observation	
<b>Description</b>	Template CDA Observation (prototype, directly derived from POCD_RM000040 MIF) Entry template for observation on ICD-O-3 Typing and Grading			
<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.4.3			
<b>Label</b>	PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3			
<b>Classification</b>	CDA Entry Level Template			
<b>Open/Closed</b>	Open (other than defined elements are allowed)			
<b>Associated with</b>	Associated with 1 concept			
	<b>Id</b>	<b>Name</b>	<b>Data Set</b>	
	psr-dataelement-54	 Tumor classification (ICD-O-3)	 APSR 2.0	
<b>Uses</b>	Uses 9 templates			
	<b>Uses</b>	<b>as</b>	<b>Name</b>	<b>Version</b>
	1.3.6.1.4.1.19376.1.3.3.1.7	Containment	 Laboratory Performer (2017)	2008-08-08
	1.3.6.1.4.1.19376.1.8.1.4.2	Containment	 Author (2.0)	2016-06-21 14:02:11
1.3.6.1.4.1.19376.1.8.1.4.6	Containment	 Informant (2.0)	2016-07-08 11:22:58	



	1.3.6.1.4.1.19376.1.8.1.4.7	Containment	● Additional participant in an entry (2.0)	2016-07-12 18:44:06
	1.3.6.1.4.1.19376.1.3.10.9.1	Include	● X Specimen Identified (2.0)	2014-12-22 15:54:30
	1.3.6.1.4.1.19376.1.3.10.9.38	Containment	● ICD-O-3 Behavior (2.0)	2015-12-03 09:11:54
	1.3.6.1.4.1.19376.1.3.10.9.39	Containment	● ICD-O-3 Differentiation (2.0)	2015-12-09 17:12:30
	1.3.6.1.4.1.19376.1.3.10.4.4	Containment	● Assessment Scales Observation for Scoring Systems (2.0)	2016-10-06 13:12:00
	2.16.840.1.113883.10.12.324	Containment	● CDA Reference	2005-09-07
<b>Relationship</b>	Specialization: template 1.3.6.1.4.1.19376.1.8.1.4.9 (2014-05-14 17:09:54)			
<b>Example</b>	<p>example for use case #1</p> <pre> &lt;observation classCode="OBS" moodCode="EVN" negationInd="false"&gt;   &lt;templateId root="1.3.6.1.4.1.19376.1.3.10.4.3"/&gt;   &lt;id root="1.3.6.1.4.1.19376.1.8.9.1" extension="A7102400008_ICDO"/&gt;   &lt;code code="31205-8" codeSystem="2.16.840.1.113883.6.1" displayName="Histology ICD-O-3 Cancer"/&gt;   &lt;statusCode code="completed"/&gt;   &lt;effectiveTime&gt;     &lt;low value="201001041405-0500"/&gt;   &lt;/effectiveTime&gt;   &lt;value xsi:type="CD" code="8500/3" codeSystem="2.16.840.1.113883.6.43.1"/&gt;   &lt;author&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author IHE' (2016-06-21T14:02:11) --&gt;   &lt;/author&gt;   &lt;!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (2014-12-22T15:54:30) 1..* R --&gt;   &lt;specimen typeCode="SPC"&gt;     &lt;specimenRole classCode="SPEC"&gt;       &lt;id root="1.3.6.1.4.1.19376.1.8.9.1" extension="A7102400008_slide_A1_HE"/&gt;     &lt;/specimenRole&gt;   &lt;/specimen&gt;   &lt;entryRelationship typeCode="SPRT"&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.3.10.9.38 'ICD-O-3 Behavior' (2015-12-03T09:11:54), not used in use case #1 --&gt;   &lt;/entryRelationship&gt;   &lt;entryRelationship typeCode="SPRT"&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.3.10.9.39 'ICD-O-3 Differentiation' (2015-12-09T17:12:30) --&gt;   &lt;/entryRelationship&gt;   &lt;entryRelationship typeCode="COMP"&gt;     &lt;!-- template 1.3.6.1.4.1.19376.1.3.10.4.4 'Assessment Scales Observation for Scoring Systems APSR2' </pre>			

















```
(2016-10-06T13:12:00) -->
</entryRelationship>
<reference>
  <!-- template 2.16.840.1.113883.10.12.324 'CDA Reference' (2005-09-07T00:00:00) -->
</reference>
</observation>
```

Item	DT	Card	Conf	Description	Label
h17:observation		0 ... 1	R	First four digits of Morphology axis code. A complete code consists of 6 digits (for morphology, behavior and grading), the latter both separated by "/" after the 4th digit in morphology.  Behavior and differentiation are coded as sub-observations	PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3
└ @classCode	CS	1 ... 1	F	OBS	
└ @moodCode	CS	1 ... 1	F	EVN	
└ @negationInd	bl	0 ... 1			
└ h17:templateId	II	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.3.10.4.3	
└ h17:id	II	0 ... *	R		PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3

<p>└ h17:code</p>	<p>CV (extensible)</p>	<p>1 ... 1</p>	<p>M</p>		<p>PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3</p>	
		<p>CONF</p>	<p>@code shall be "31205-8"                  @codeSystem shall be "2.16.840.1.113883.6.1"                  @codeSystemName shall be "LOINC"                  @displayName shall be "Histology ICD-O-3 Cancer"                  or                  @code shall be "397005006"                  @codeSystem shall be "2.16.840.1.113883.6.96"                  @codeSystemName shall be "SNOMED-CT"                  @displayName shall be "WHO tumor classification (observable entity)"</p>			
<p>└ h17:statusCode</p>	<p>CS (required)</p>	<p>1 ... 1</p>	<p>M</p>	<p>The observation statusCode is "completed" if the observation was actually performed and has produced a result in the value element. In other cases the status of the intended observation is "aborted" and the result will never come.</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3</p>	
		<p>Constraint</p>	<p>@code shall be "completed"                  or                  @code shall be "aborted"</p>			
		<p>CONF</p>	<p>The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933  <i>ActStatus</i> (2014-03-26)</p>			
<p>└ h17:effectiveTime</p>	<p>IVL_TS</p>	<p>1 ... 1</p>	<p>M</p>		<p>PaLM Suppl. APSR 2.1-3: 6.3.5.9</p>	


					ICD-O-3
<span>└</span> <code>hl7:value</code>	<b>CD</b>	<b>1 ... 1</b>	<b>R</b>	First four digits of Morphology axis code	PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3
<div style="border: 1px solid black; padding: 5px;"> <span>Ⓞ</span> psr-dataelement-54      <span>●</span> Tumor classification (ICD-O-3)      <span>●</span> APSR 2.0         </div>					
<div style="border: 1px solid black; padding: 5px;"> <div style="background-color: #e0e0e0; padding: 2px; display: inline-block;">CONF</div>           The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.33 <i>ICD-O-3 Morphology</i> (2015-11-13 14:08:46)         </div>					
<div style="border: 1px solid black; padding: 5px;"> <div style="background-color: #d0d0ff; padding: 2px; display: inline-block;">Example</div>           for use case #1: invasive breast cancer, NST, well differentiated  <pre>&lt;value xsi:type="CD" code="8500" codeSystem="2.16.840.1.113883.6.43.1"/&gt;</pre> </div>					
<span>└</span> <code>hl7:performer</code>	<b>II</b>	<b>0 ... 1</b>	<b>C</b>	Performing lab Source: PaLM TF-3: 6.3.2.20 Contains 1.3.6.1.4.1.19376.1.3.3.1.7 <i>Laboratory Performer</i> (2008-08-08)	PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3
where <i>[hl7:assignedEntity]</i>					
<span>└</span> <code>hl7:author</code>	<b>II</b>	<b>0 ... 1</b>	<b>C</b>	Contains 1.3.6.1.4.1.19376.1.8.1.4.2 <i>Author</i> (2016-06-21 14:02:11)	PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3
where <i>[hl7:author]</i>					
<span>└</span> <code>hl7:informant</code>	<b>II</b>	<b>0 ... *</b>	<b>R</b>	Informant Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.5 Contains 1.3.6.1.4.1.19376.1.8.1.4.6 <i>Informant</i> (2016-07-08 11:22:58)	PaLM Suppl. APSR 2.1-3: 6.3.5.9

					ICD-O-3
L h17:participant	II	0 ... *	R	Additional participants Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.6 Contains 1.3.6.1.4.1.19376.1.8.1.4.7 <i>Additional participant in an entry</i> (2016-07-12 18:44:06)	PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3
where [h17:participantRole]					
Included		1 ... *	R	from 1.3.6.1.4.1.19376.1.3.10.9.1 X <i>Specimen Identified</i> (2014-12-22 15:54:30)	
L h17:specimen		1 ... *	R	Required in XD-LAB when more than one specimen is documented at this level. Always required in APSR.	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
psr-dataelement-17 Specimen identification APSR 2.0					
L @typeCode	CS	0 ... 1	F	SPC	
L h17:specimenRole		1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
L @classCode	CS	0 ... 1	F	SPEC	
L h17:id	II	1 ... 1	R	Specimen ID, coming from the LIS	PaLM Suppl. APSR 2.1-3:

					6.3.5.7 X Specimen identified
	<ul style="list-style-type: none"> <li> psr-dataelement-95</li> <li>psr-dataelement-67</li> <li>psr-dataelement-66</li> <li>psr-dataelement-98</li> <li>psr-dataelement-68</li> </ul>	<ul style="list-style-type: none"> <li> Parent ID</li> <li> Block ID</li> <li> Part ID</li> <li> Specimen ID</li> <li> Tissue section ID</li> </ul>			<ul style="list-style-type: none"> <li> APSR 2.0</li> <li> APSR 2.0</li> <li> APSR 2.0</li> <li> APSR 2.0</li> <li> APSR 2.0</li> </ul>
<ul style="list-style-type: none"> <li> h17:entryRelationship</li> </ul>		1 ... 1	R	5th digit in the morphology axis code Contains 1.3.6.1.4.1.19376.1.3.10.9.38 ICD-O-3 Behavior (2015-12-03 09:11:54)	PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3
<p>where [hl7:observation [hl7:code [(@code = '246463000' and @codeSystem = '2.16.840.1.113883.6.96') or (@code = '31206-6' and @codeSystem = '2.16.840.1.113883.6.1')]]]</p>					
<ul style="list-style-type: none"> <li> @typeCode</li> </ul>	CS	1 ... 1	F	SPRT	
<ul style="list-style-type: none"> <li> h17:entryRelationship</li> </ul>		0 ... 1	R	6th digit in the morphology axis code Contains 1.3.6.1.4.1.19376.1.3.10.9.39 ICD-O-3 Differentiation (2015-12-09 17:12:30)	PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3
<p>where [hl7:observation [hl7:code [(@code = '263522009' and @codeSystem = '2.16.840.1.113883.6.96') or (@code = '21858-6' and @codeSystem = '2.16.840.1.113883.6.1') or @nullFlavor]]]</p>					
<ul style="list-style-type: none"> <li> @typeCode</li> </ul>	CS	1 ... 1	F	SPRT	
<ul style="list-style-type: none"> <li> h17:entryRelationship</li> </ul>		0 ... 1	R	optional grading by a scoring system, e.g. by means of the Elston-Ellis-Scoring-System in case of invasive breast cancer (ICD-O C50)	PaLM Suppl. APSR

				Contains 1.3.6.1.4.1.19376.1.3.10.4.4 Assessment Scales Observation for Scoring Systems (2016-10-06 13:12:00)	2.1-3: 6.3.5.9 ICD-O-3
<code>where [hl7:observation [hl7:code [(@code = '273249006' and @codeSystem = '2.16.840.1.113883.6.96') or concat(@code, @codeSystem) = doc('include/voc-2.16.840.1.113883.1.11.19918-2014-03-26T000000.xml')//valueSet [1]/conceptList/concept/concat(@code, @codeSystem)]]]</code>					
└ @typeCode	CS	1 ... 1	F	COMP	
└ hl7:reference		0 ... *	R	Contains 2.16.840.1.113883.10.12.324 CDA Reference (2005-09-07)	PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3

### Supportive Template ICD-O-Behavior - 1.3.6.1.4.1.19376.1.3.10.9.38

<b>Id</b>	1.3.6.1.4.1.19376.1.3.10.9.38	<b>Effective Date</b>	2015-12-03 09:11:54
<b>Status</b>	 Draft	<b>Version Label</b>	2.0
<b>Name</b>	ICD-O-3Behavior	<b>Display Name</b>	ICD-O-3 Behavior
<b>Description</b>	Template CDA Observation (prototype, directly derived from POCD_RM000040 MIF) Behavior code		
<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.38		
<b>Label</b>	PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3		
<b>Classification</b>	CDA Entry Level Template		
<b>Open/Closed</b>	Open (other than defined elements are allowed)		

Associated with	Associated with 1 concept				
	<b>Id</b>	<b>Name</b>	<b>Data Set</b>		
	psr-dataelement-72	● Behavior	● APSR 2.0		
Uses	Uses 1 template				
	<b>Uses</b>	<b>as</b>	<b>Name</b>	<b>Version</b>	
	1.3.6.1.4.1.19376.1.3.10.9.1	Include	● X Specimen Identified (2.0)	2014-12-22 15:54:30	
Relationship	Specialization: template 1.3.6.1.4.1.19376.1.8.1.4.9 (2014-05-14 17:09:54)				
Example	generated example				
	<pre> &lt;observation classCode="OBS" moodCode="EVN" negationInd="false"&gt;   &lt;templateId root="1.3.6.1.4.1.19376.1.3.10.9.38"/&gt;   &lt;id root="1.2.3.999" extension="--example only--"/&gt;   &lt;code code="31206-6" codeSystem="2.16.840.1.113883.6.1" displayName="Behavior ICD-O-3 Cancer"/&gt;   &lt;statusCode code="completed"/&gt;   &lt;effectiveTime&gt;     &lt;low value="20170305122607"/&gt;   &lt;/effectiveTime&gt;   &lt;value xsi:type="CV" code="3" displayName="/3" codeSystem="2.16.840.1.113883.6.43.1"/&gt;   &lt;!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (2014-12-22T15:54:30) 1..* R --&gt; &lt;/observation&gt; </pre>				
<b>Item</b>	<b>DT</b>	<b>Card</b>	<b>Conf</b>	<b>Description</b>	<b>Label</b>
h17:observation		0 .. 1	R	Behavior code from morphology axis	PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3
@classCode	CS	1 .. 1	F	OBS	







└ @moodCode	cs	1 ... 1	F	EVN	
└ @negationInd	bl	0 ... 1			
└ hl7:templateId	II	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.3.10.9.38	
└ hl7:id	II	0 ... *	R		PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3
└ hl7:code	CD (required)	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3
<div style="display: flex; justify-content: space-between; align-items: center;"> <span> psr-dataelement-72</span> <span> Behavior</span> <span> APSR 2.0</span> </div>					
CONF		<p>@code shall be "246463000"</p> <p>@codeSystem shall be "2.16.840.1.113883.6.96"</p> <p>@codeSystemName shall be "SNOMED CT"</p> <p>@displayName shall be "Behavior of tumor (attribute)"</p> <p>or</p> <p>@code shall be "31206-6"</p> <p>@codeSystem shall be "2.16.840.1.113883.6.1"</p>			

				@codeSystemName shall be "LOINC" @displayName shall be "Behavior ICD-O-3 Cancer"		
h17:statusCode	CS	1 ... 1	M	The observation statusCode is " completed " if the observation was actually performed and has produced a result in the value element. In other cases the status of the intended observation is " aborted " and the result will never come.	PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3	
	Constraint	@code shall be "completed" or @code shall be "aborted"				
	CONF	The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933 ActStatus (2014-03-26)				
h17:effectiveTime	IVL_TS	0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3	
h17:value	CV	1 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3	
	CONF	The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.34 ICD-O-3 Behavior (2015-11-13 18:54:30)				
	Example	for use case #1 <value xsi:type="CV" code="3" displayName="/3" codeSystem="2.16.840.1.113883.6.43.1"/>				
Included		1 ... *	R	from 1.3.6.1.4.1.19376.1.3.10.9.1 X Specimen Identified (2014-12-22 15:54:30)		




<p>└─ h17:specimen</p>		<p>1 ... *</p>	<p>R</p>	<p>Required in XD-LAB when more than one specimen is documented at this level. Always required in APSR.</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified</p>
<p>⊙ psr-dataelement-17      ● Specimen identification      ● APSR 2.0</p>					
<p>└─ @typeCode</p>	<p>CS</p>	<p>0 ... 1</p>	<p>F</p>	<p>SPC</p>	
<p>└─ h17:specimenRole</p>		<p>1 ... 1</p>	<p>M</p>		<p>PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified</p>
<p>└─ @classCode</p>	<p>CS</p>	<p>0 ... 1</p>	<p>F</p>	<p>SPEC</p>	
<p>└─ h17:id</p>	<p>II</p>	<p>1 ... 1</p>	<p>R</p>	<p>Specimen ID, coming from the LIS</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified</p>
<p>⊙ psr-dataelement-95      ● Parent ID      ● APSR 2.0          psr-dataelement-67      ● Block ID      ● APSR 2.0          psr-dataelement-66      ● Part ID      ● APSR 2.0          psr-dataelement-98      ● Specimen ID      ● APSR 2.0          psr-dataelement-68      ● Tissue section ID      ● APSR 2.0</p>					

**Supportive Template ICD-O-Differentiation - 1.3.6.1.4.1.19376.1.3.10.9.39**

<b>Id</b>	1.3.6.1.4.1.19376.1.3.10.9.39	<b>Effective Date</b>	2015-12-09 17:12:30
<b>Status</b>	 Draft	<b>Version Label</b>	2.0
<b>Name</b>	ICD-O-3Differentiation	<b>Display Name</b>	ICD-O-3 Differentiation
<b>Description</b>	Template CDA Observation (prototype, directly derived from POCD_RM000040 MIF) Differentiation, sive grading code		
<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.39		
<b>Label</b>	PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3		
<b>Classification</b>	CDA Entry Level Template		
<b>Open/Closed</b>	Open (other than defined elements are allowed)		
<b>Associated with</b>	Associated with 1 concept		
	<b>Id</b>	<b>Name</b>	<b>Data Set</b>
	psr-dataelement-55	 Differentiation	 APSR 2.0
<b>Uses</b>	Uses 1 template		
	<b>Uses</b>	<b>as</b>	<b>Name</b>
	1.3.6.1.4.1.19376.1.3.10.9.1	Include 	X Specimen Identified (2.0) 2014-12-22 15:54:30
<b>Relationship</b>	Specialization: template 1.3.6.1.4.1.19376.1.8.1.4.9 (2014-05-14 17:09:54)		
<b>Example</b>	for use case #1		
	<code>&lt;observation classCode="OBS" moodCode="EVN" negationInd="false"&gt;</code>		

```

<templateId root="1.3.6.1.4.1.19376.1.3.10.9.39"/>
<id root="1.3.6.1.4.1.19376.1.8.9.1" extension="A7102400008_ICDO_D"/>
<code code="21858-6" codeSystem="2.16.840.1.113883.6.1" displayName="Grade Cancer"/>
<statusCode code="completed"/>
<value xsi:type="CD" code="1" displayName="1" codeSystem="2.16.840.1.113883.6.43.1"/>
<!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (2014-12-22T15:54:30) 1..* R -->
<specimen typeCode="SPC">
  <specimenRole classCode="SPEC">
    <id root="1.3.6.1.4.1.19376.1.8.9.1" extension="A7102400008_slide_A1_HE"/>
  </specimenRole>
</specimen>
</observation>
    
```

Item	DT	Card	Conf	Description	Label
hl7:observation		0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3
<div style="display: flex; justify-content: space-between; align-items: center;"> <span> psr-dataelement-55</span> <span> Differentiation</span> <span> APSR 2.0</span> </div>					
└ @classCode	CS	1 ... 1	F	OBS	
└ @moodCode	CS	1 ... 1	F	EVN	
└ @negationInd	bl	0 ... 1			
└ hl7:templateId	II	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.3.10.9.39	




<p>└ h17:id</p>	<p><b>II</b></p>	<p><b>0 ... *</b></p>	<p><b>R</b></p>		<p>PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3</p>
<p>└ h17:code</p>	<p><b>CD (required)</b></p>	<p><b>1 ... 1</b></p>	<p><b>R</b></p>		<p>PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3</p>
	<p>CONF</p>	<p>@code shall be "263522009"                  @codeSystem shall be "2.16.840.1.113883.6.96"                  @codeSystemName shall be "SNOMED CT"                  @displayName shall be "Degree of differentiation (attribute)"                  or                  @code shall be "21858-6"                  @codeSystem shall be "2.16.840.1.113883.6.1"                  @codeSystemName shall be "LOINC"                  @displayName shall be "Grade Cancer"</p>			
<p>└ h17:statusCode</p>	<p><b>CS</b></p>	<p><b>1 ... 1</b></p>	<p><b>M</b></p>	<p>The observation statusCode is "completed" if the observation was actually performed and has produced a result in the value element. In other cases the status of the intended observation is "aborted" and the result will never come.</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3</p>
	<p>Constraint</p>	<p>@code shall be "completed"                  or                  @code shall be "aborted"</p>			
	<p>CONF</p>	<p>The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933 ActStatus (2014-03-26)</p>			

h17:effectiveTime	IVL_TS	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3
h17:value	CD	1 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3
	CONF	The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.35 <i>ICD-O-3 Differentiation</i> (2015-11-13 19:07:32)			
	Example	for use case #1 <value xsi:type="CD" code="2" displayName="2" codeSystem="2.16.840.1.113883.6.43.1"/>			
Included		1 ... *	R	from 1.3.6.1.4.1.19376.1.3.10.9.1 X <i>Specimen Identified</i> (2014-12-22 15:54:30)	
h17:specimen		1 ... *	R	Required in XD-LAB when more than one specimen is documented at this level. Always required in APSR.	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
	© psr-dataelement-17	● Specimen identification	● APSR 2.0		
@typeCode	CS	0 ... 1	F	SPC	
h17:specimenRole		1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen





<b>Open/Closed</b>	Open (other than defined elements are allowed)								
<b>Associated with</b>	<div style="background-color: #ffffcc; padding: 2px;">Associated with 1 concept</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #d3d3d3;"> <th style="width: 20%;">Id</th> <th style="width: 60%;">Name</th> <th style="width: 20%;">Data Set</th> </tr> </thead> <tbody> <tr> <td>psr-dataelement-73</td> <td> Topography</td> <td> APSR 2.0</td> </tr> </tbody> </table>	Id	Name	Data Set	psr-dataelement-73	Topography	APSR 2.0		
Id	Name	Data Set							
psr-dataelement-73	Topography	APSR 2.0							
<b>Uses</b>	<div style="background-color: #ffffcc; padding: 2px;">Uses 1 template</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #d3d3d3;"> <th style="width: 20%;">Uses</th> <th style="width: 20%;">as</th> <th style="width: 60%;">Name</th> <th style="width: 20%;">Version</th> </tr> </thead> <tbody> <tr> <td>1.3.6.1.4.1.19376.1.3.10.9.1</td> <td>Include</td> <td> X Specimen Identified (2.0)</td> <td>2014-12-22 15:54:30</td> </tr> </tbody> </table>	Uses	as	Name	Version	1.3.6.1.4.1.19376.1.3.10.9.1	Include	X Specimen Identified (2.0)	2014-12-22 15:54:30
Uses	as	Name	Version						
1.3.6.1.4.1.19376.1.3.10.9.1	Include	X Specimen Identified (2.0)	2014-12-22 15:54:30						
<b>Relationship</b>	Specialization: template 1.3.6.1.4.1.19376.1.8.1.4.9 (2014-05-14 17:09:54)								
<b>Example</b>	<div style="background-color: #ffffcc; padding: 2px;">example for use case #1</div> <pre style="background-color: #e0ffe0; padding: 5px; font-family: monospace; font-size: 0.9em;"> &lt;observation classCode="OBS" moodCode="EVN" negationInd="false"&gt;   &lt;templateId root="1.3.6.1.4.1.19376.1.3.10.9.41"/&gt;   &lt;id root="1.3.6.1.4.1.19376.1.8.9.1" extension="A7102400008_ICDO_T"/&gt;   &lt;code code="33725-3" codeSystem="2.16.840.1.113883.6.1" displayName="Tumor site"/&gt;   &lt;statusCode code="completed"/&gt;   &lt;effectiveTime&gt;     &lt;low value="201001041405-0500"/&gt;   &lt;/effectiveTime&gt;   &lt;value xsi:type="CV" code="50.3" displayName="C50.3" codeSystem="2.16.840.1.113883.6.43.1"&gt;     &lt;qualifier&gt;       &lt;name code="20228-3" codeSystem="2.16.840.1.113883.6.1" displayName="Anatomic part Laterality"/&gt;       &lt;value value="L" codeSystem="2.16.840.1.113883.6.1" displayName="Left"/&gt;     &lt;/qualifier&gt;   &lt;/value&gt;   &lt;!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (2014-12-22T15:54:30) 1..* R --&gt;   &lt;specimen typeCode="SPC"&gt;     &lt;specimenRole classCode="SPEC"&gt;       &lt;id root="1.3.6.1.4.1.19376.1.8.9.1" extension="A7102400008_slide_A1_HE"/&gt;     &lt;/specimenRole&gt;   &lt;/specimen&gt; &lt;/observation&gt; </pre>								
<b>Item</b>	<b>DT</b>	<b>Card</b>	<b>Conf</b>	<b>Description</b>	<b>Label</b>				

h17:observation		0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3
└ @classCode	CS	0 ... 1	F	OBS	
└ @moodCode	CS	1 ... 1	F	EVN	
└ @negationInd	bl	0 ... 1			
└ h17:templateId	II	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.3.10.9.41	
└ h17:id	II	0 ... *	R		PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3
└ h17:code	CD (extensible)	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3
 psr-dataelement-73  Topography  APSR 2.0					

	CONF			<p>@code shall be "33725-3"</p> <p>@codeSystem shall be "2.16.840.1.113883.6.1"</p> <p>@codeSystemName shall be "LOINC"</p> <p>@displayName shall be "Tumor site"</p> <p>or</p> <p>@code shall be "371480007"</p> <p>@codeSystem shall be "2.16.840.1.113883.6.96"</p> <p>@codeSystemName shall be "SNOMED CT"</p> <p>@displayName shall be "Tumor site (observable entity)"</p>	
<p>└ h17:statusCode</p>	CS (required)	1 ... 1	M	<p>The observation statusCode is "completed" if the observation was actually performed and has produced a result in the value element. In other cases the status of the intended observation is "aborted" and the result will never come.</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3</p>
	Constraint			<p>@code shall be "completed"</p> <p>or</p> <p>@code shall be "aborted"</p>	
	CONF			<p>The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933 <i>ActStatus</i> (2014-03-26)</p>	
<p>└ h17:effectiveTime</p>	IVL_TS	0 ... 1	R		<p>PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3</p>
<p>└ h17:value</p>	CV	1 ... 1	R	<p>Codes for topography axis (C-axis) of ICD-O-3</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.5.9</p>

					ICD-O-3
	CONF	The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.36 ICD-O-3 Topography (2015-11-13 19:16:23)			
	Example	for use case #1 <value xsi:type="CV" code="50.3" displayName="C50.3" codeSystem="2.16.840.1.113883.6.43.1"/>			
└ h17:qualifier	CR (extensible)	0 ... 1	C	Code system for laterality	PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3
	Constraint	For reports to German cancer registries			
└ h17:name	CV (required)	1 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3
└ @code	CONF	0 ... 1	F	20228-3	
└ @codeSystem		0 ... 1	F	2.16.840.1.113883.6.1 (LOINC)	
└ @codeSystemName		0 ... 1	F	LOINC	
└ @displayName		0 ... 1	F	Anatomic part Laterality	
└ h17:value	CV (required)	1 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.9 ICD-O-3

	CONF	The value of @code shall be drawn from value set 1.2.276.0.76.11.412 <i>Lateralität</i> (2017-02-08)		
Included		1 ... *	R	from 1.3.6.1.4.1.19376.1.3.10.9.1 X <i>Specimen Identified</i> (2014-12-22 15:54:30)
└ h17:specimen		1 ... *	R	Required in XD-LAB when more than one specimen is documented at this level. Always required in APSR.
	psr-dataelement-17	Specimen identification	APSR 2.0	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
└ @typeCode	CS	0 ... 1	F	SPC
└ h17:specimenRole		1 ... 1	M	
				PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
└ @classCode	CS	0 ... 1	F	SPEC
└ h17:id	II	1 ... 1	R	Specimen ID, coming from the LIS
				PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
	psr-dataelement-95	Parent ID	APSR 2.0	
	psr-dataelement-67	Block ID	APSR 2.0	
	psr-dataelement-66	Part ID	APSR 2.0	

psr-dataelement-98

● Specimen ID

● APSR 2.0

psr-dataelement-68

● Tissue section ID

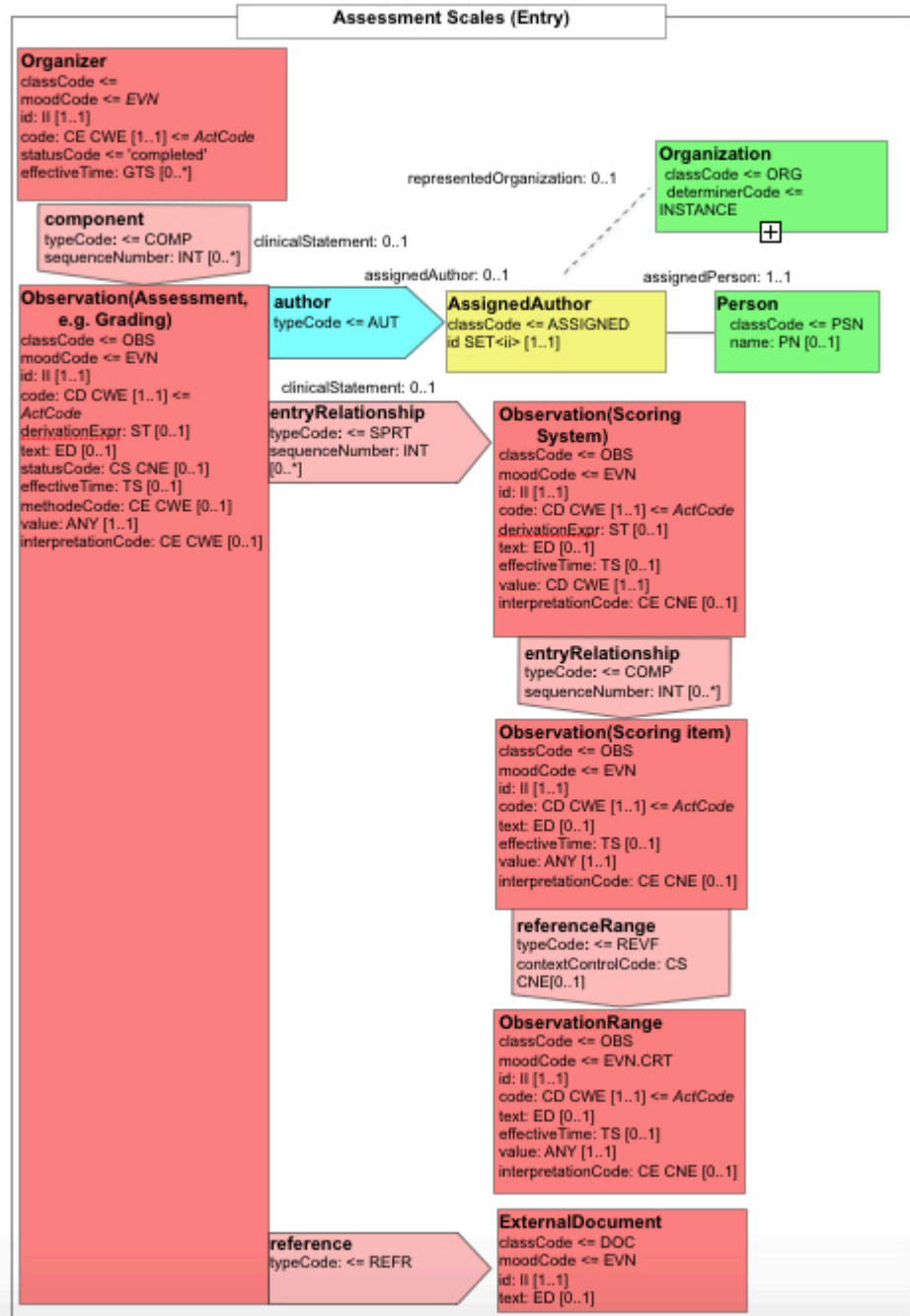
● APSR 2.0

### 6.3.5.10 <Assessment Scales for Scoring systems> - Child Element Content Module - 1.3.6.1.4.1.19376.1.3.10.4.4

#### 6.3.5.10.1 Definition and purpose

The Assessment Scales <entry> Content Modul is a template for a complex observation, especially usable in tumor pathology contexts, within a Problem organizer or as sub-observation for grading observations. It contains in machine-readable form all the information concerning (semi)quantitative scoring systems often used for describing a tumor grading for a problem investigated. It is a constraint version of an AP Generic observation <entry> Content Module. It is usable within the ICD-O-3 Typing and Grading <entry> or within a Problem Organizer <entry> Content Module.




This Content Module structures the machine-readable data, which characterize the grading components of a tumor or a systemic disease according specific regulations.










**Figure 6.3.5.10.1-1 CDA-R-MIM of an Assessment Scales <entry>**

**6.3.5.10.2 Specification and Example**

**Assessment Scales Observation for Scoring Systems APSR2 - 1.3.6.1.4.1.19376.1.3.10.4.4**

<b>Id</b>	1.3.6.1.4.1.19376.1.3.10.4.4	<b>Effective Date</b>	2016-10-06 13:12:00 Other versions this id: <ul style="list-style-type: none"> <li><input type="radio"/> AssessmentScalesScoringSystemsAPSR as of 2016-10-06 12:36:29</li> <li><input type="radio"/> CDASupplyContainerAPSR2 as of 2016-07-29</li> </ul>
<b>Status</b>	 Draft	<b>Version Label</b>	2.0
<b>Name</b>	AssessmentScalesObservationScoringSystemsAPSR	<b>Display Name</b>	Assessment Scales Observation for Scoring Systems
<b>Description</b>			
Template CDA Observation (prototype, directly derived from POCD_RM000040 MIF)			
Assessment scale observation for Scoring Systems, e.g. Nottingham- (Elston-Ellis-) Grading for invasive breast cancers, describing the summarized scale value			
<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.4.4		
<b>Label</b>	PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales		
<b>Classification</b>	CDA Entry Level Template		
<b>Open/Closed</b>	Closed (only defined elements are allowed)		
<b>Associated with</b>			
Associated with 1 concept			
	<b>Id</b>	<b>Name</b>	<b>Data Set</b>
	psr-dataelement-99	 Assessment Scales	 APSR 2.0
<b>Uses</b>			
Uses 7 templates			



Uses	as	Name	Version
1.3.6.1.4.1.19376.1.3.3.1.7	Containment	 Laboratory Performer (2017)	2008-08-08
1.3.6.1.4.1.19376.1.8.1.4.2	Containment	 Author (2.0)	2016-06-21 14:02:11
1.3.6.1.4.1.19376.1.8.1.4.6	Containment	 Informant (2.0)	2016-07-08 11:22:58
1.3.6.1.4.1.19376.1.8.1.4.7	Containment	 Additional participant in an entry (2.0)	2016-07-12 18:44:06
1.3.6.1.4.1.19376.1.3.10.9.1	Include	 X Specimen Identified (2.0)	2014-12-22 15:54:30
1.3.6.1.4.1.19376.1.3.10.9.42	Containment	 Assessment Scoring System APSR 2.0 (2.0)	2016-10-10 11:33:36
2.16.840.1.113883.10.12.324	Containment	 CDA Reference	2005-09-07

**Relationship**

Specialization: template 1.3.6.1.4.1.19376.1.8.1.4.9 (2014-05-14 17:09:54)

**Example**

example for use case #1, ER-Allred Score

```
<observation classCode="OBS" moodCode="EVN" negationInd="false">
  <templateId root="1.3.6.1.4.1.19376.1.8.1.4.9"/>
  <id root="1.3.6.1.4.1.19376.1.8.9.1" extension="A7102400008_AllredScore"/>
  <code code="445104009" codeSystem="2.16.840.1.113883.6.96" displayName="Allred score"/>
  <statusCode code="completed"/>
  <effectiveTime>
    <low value="201001041405-0500"/>
  </effectiveTime>
  <value xsi:type="PQ" value="8"/>
  <interpretationCode code="RR" displayName="Reactive" codeSystem="2.16.840.1.113883.5.83"/>
  <methodCode code="0114" codeSystem="2.16.840.1.113883.1.11.14079" displayName="Microscopy, Light"/>
  <performer>
    <!-- template 1.3.6.1.4.1.19376.1.3.3.1.7 'Laboratory Performer' (2008-08-08T00:00:00) -->
  </performer>
  <author>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author IHE' (2016-06-21T14:02:11) -->
  </author>
  <informant>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant(Header&Body) APSR2' (2016-07-08T11:22:58) -->
  </informant>
  <participant>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.7 'Additional participant in an entry APSR (Body)' (2016-07-12T18:44:06) -->
  </participant>
  <specimen typeCode="SPC">
    <specimenRole classCode="SPEC">
      <id root="1.3.6.1.4.1.19376.1.8.9" extension="A7102400008_slide_A1_ER"/>
    </specimenRole>
  </specimen>
</observation>
```

```




<entryRelationship typeCode="SPRT">
  <sequenceNumber value="1"/>
  <!-- template 1.3.6.1.4.1.19376.1.3.10.9.42 'Assessment Scoring System APSR 2.0' (2016-10-10T11:33:36) -->
</entryRelationship>
</observation>
    
```

Item	DT	Card	Conf	Description	Label
h17:observation		0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
<div style="display: flex; justify-content: space-between; align-items: center;"> <span> psr-dataelement-99</span> <span> Assessment Scales</span> <span> APSR 2.0</span> </div>					
└ @classCode	CS	0 ... 1	F	OBS	
└ @moodCode	CS	1 ... 1	F	EVN	
└ @negationInd	bl	0 ... 1			
└ h17:templateId	II	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.3.10.4.4	
└ h17:id	II	0 ... *	R		PaLM Suppl. APSR 2.1-3: 6.3.5.10

					Assessment scales
<span>└</span> <code>h17:code</code>	CE (extensible)	1 ... 1	M	Assessment scale, e.g. grading by scoring	PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
	CONF	<p>@code shall be "273249006"                  @codeSystem shall be "2.16.840.1.113883.6.96"                  @codeSystemName shall be "SCT"                  @displayName shall be "Assessment scales"                  or                  The value of @code should be drawn from value set 2.16.840.1.113883.1.11.19918 <i>ActCoverageAssessmentObservationValue</i> (2014-03-26)</p>			
	Example	<p>for use case #1  <code>&lt;code code="273249006" codeSystem="2.16.840.1.113883.6.96" displayName="Assessment scales (assessment scale)"/&gt;</code></p>			
<span>└</span> <code>h17:derivationExpr</code>	ST	0 ... 1	R	This optional field can be used to specify how the total score is calculated. In most cases the total score will be the sum of its components. But complex mathematical functions and/or logical operations are possible as well.	PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
<span>└</span> <code>h17:text</code>	ED	0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
	Example	<p>for use case #1</p>			

		<code>&lt;text&gt;Nottingham combined grad I (1 of 3)&lt;/text&gt;</code>			
<p>└─ h17:statusCode</p>	<b>CS</b>	<b>1 ... 1</b>	<b>M</b>	<p>The observation statusCode is “ completed ” if the observation was actually performed and has produced a result in the value element. In other cases the status of the intended observation is “ aborted ” and the result will never come.</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales</p>
	Constraint	<p>@code shall be "completed" or @code shall be "aborted"</p>			
	CONF	<p>The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933 ActStatus (2014-03-26)</p>			
<p>└─ h17:effectiveTime</p>	<b>IVL_TS</b>	<b>1 ... 1</b>	<b>M</b>		<p>PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales</p>
<p>└─ h17:value</p>	<b>ANY</b>	<b>1 ... *</b>	<b>R</b>	<p>any total value of a scoring systems, e.g. Gleason score, van Nuys score, etc., either with data type INT or with data type CD or CO</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales</p>
	Example	<p>for use case #1, Nottingham combined grade I <code>&lt;value value="1"/&gt;</code></p>			
<p>└─ h17:interpretationCode</p>	<b>CE</b>	<b>0 ... *</b>	<b>R</b>		<p>PaLM Suppl. APSR</p>






					2.1-3: 6.3.5.10 Assessment scales
	CONF	The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.78 <i>ObservationInterpretation</i> (2014-03-26)			
└ h17:methodCode	CE	0 ... *	R		PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
└ @code	CONF	0 ... 1	F	0114	
└ @codeSystem		0 ... 1	F	2.16.840.1.113883.1.11.14079	
└ @codeSystemName		0 ... 1	F	HL7	
└ @displayName		0 ... 1	F	Microscopy, Light	
└ h17:performer	II	0 ... 1	C	Performing lab Source: PaLM TF-3: 6.3.2.20 Contains 1.3.6.1.4.1.19376.1.3.3.1.7 <i>Laboratory Performer</i> (2008-08-08)	PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
where [h17:assignedEntity]					
	Constraint	The performing laboratory is present at this level only if this particular observation was performed by a (subcontractor) laboratory distinct from the one issuing the rest of the observations in this organizer.			

<p>↳ <code>hl7:author</code></p>	<p>II</p>	<p>0 ... *</p>	<p>C</p>	<p>Author Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.2 Contains 1.3.6.1.4.1.19376.1.8.1.4.2 <i>Author</i> (2016-06-21 14:02:11)</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales</p>
<p>where [<code>hl7:author</code>]</p>					
<p>↳ <code>hl7:informant</code></p>	<p>II</p>	<p>0 ... *</p>	<p>R</p>	<p>Informant Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.5 Contains 1.3.6.1.4.1.19376.1.8.1.4.6 <i>Informant</i> (2016-07-08 11:22:58)</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales</p>
<p>↳ <code>hl7:participant</code></p>	<p>II</p>	<p>0 ... *</p>	<p>R</p>	<p>Additional participants Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.6 Contains 1.3.6.1.4.1.19376.1.8.1.4.7 <i>Additional participant in an entry</i> (2016-07-12 18:44:06)</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales</p>
<p>where [<code>hl7:participantRole</code>]</p>					
<p>Included</p>		<p>0 ... *</p>	<p>R</p>	<p>from 1.3.6.1.4.1.19376.1.3.10.9.1 X <i>Specimen Identified</i> (2014-12-22 15:54:30)</p>	
<p>↳ <code>hl7:specimen</code></p>		<p>0 ... *</p>	<p>R</p>	<p>Required in XD-LAB when more than one specimen is documented at this level. Always required in APSR.</p>	<p>PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified</p>
<p>  psr-dataelement-17              Specimen identification              APSR 2.0         </p>					


L @typeCode	CS	0 ... 1	F	SPC																
L h17:specimenRole		1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified															
L @classCode	CS	0 ... 1	F	SPEC																
L h17:id	II	1 ... 1	R	Specimen ID, coming from the LIS	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified															
<table border="0"> <tr> <td>  psr-dataelement-95                             </td> <td>  Parent ID                             </td> <td>  APSR 2.0                             </td> </tr> <tr> <td>  psr-dataelement-67                             </td> <td>  Block ID                             </td> <td>  APSR 2.0                             </td> </tr> <tr> <td>  psr-dataelement-66                             </td> <td>  Part ID                             </td> <td>  APSR 2.0                             </td> </tr> <tr> <td>  psr-dataelement-98                             </td> <td>  Specimen ID                             </td> <td>  APSR 2.0                             </td> </tr> <tr> <td>  psr-dataelement-68                             </td> <td>  Tissue section ID                             </td> <td>  APSR 2.0                             </td> </tr> </table>						 psr-dataelement-95	 Parent ID	 APSR 2.0	 psr-dataelement-67	 Block ID	 APSR 2.0	 psr-dataelement-66	 Part ID	 APSR 2.0	 psr-dataelement-98	 Specimen ID	 APSR 2.0	 psr-dataelement-68	 Tissue section ID	 APSR 2.0
 psr-dataelement-95	 Parent ID	 APSR 2.0																		
 psr-dataelement-67	 Block ID	 APSR 2.0																		
 psr-dataelement-66	 Part ID	 APSR 2.0																		
 psr-dataelement-98	 Specimen ID	 APSR 2.0																		
 psr-dataelement-68	 Tissue section ID	 APSR 2.0																		
L h17:entryRelationship		0 ... *	R	Contains 1.3.6.1.4.1.19376.1.3.10.9.42 <i>Assessment Scoring System</i> APSR 2.0 (2016-10-10 11:33:36)	PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales															
where [h17:observation [h17:code [(@code = '246262008 or Score (attribute) or ' and @codeSystem = '2.16.840.1.113883.6.96')]]]]																				

└ @typeCode	CS	1 ... 1	F	SPRT	
└ h17:sequenceNumber	INT	0 ... 1			PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
└ h17:reference		0 ... *	R	Contains 2.16.840.1.113883.10.12.324 CDA Reference (2005-09-07)	PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
└ h17:referenceRange		0 ... *	R		PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
└ @typeCode	CS	1 ... 1	F	REFV	
└ h17:observationRange		1 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
└ @classCode	CS	0 ... 1	F	OBS	
└ @moodCode	CS	0 ... 1	F	EVN.CRT	



 <code>h17:code</code>	<b>CD</b>	<b>0 ... 1</b>				PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales	
 <code>@codeSystem</code>	CONF	<b>0 ... 1</b>	<b>F</b>	2.16.840.1.113883.5.4 (Act Code)			
 <code>h17:text</code>	<b>ED</b>	<b>0 ... 1</b>				PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales	
 <code>h17:value</code>	<b>ANY</b>	<b>0 ... 1</b>				PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales	
 <code>h17:interpretationCode</code>	<b>CE</b>	<b>0 ... 1</b>				PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales	
	CONF	The value of <code>@code</code> shall be drawn from value set 2.16.840.1.113883.1.11.78 <i>ObservationInterpretation</i> (2014-03-26)					

**Supportive Template Assessment Scoring System - 1.3.6.1.4.1.19376.1.3.10.9.42**

<b>Id</b>	1.3.6.1.4.1.19376.1.3.10.9.42	<b>Effective Date</b>	2016-10-10 11:33:36	
<b>Status</b>	 Draft	<b>Version Label</b>	2.0	
<b>Name</b>	AssessmentScoringSystemAPSR2.0	<b>Display Name</b>	Assessment Scoring System APSR 2.0	
<b>Description</b>	Supportive Observation entry for describing a scoring system			
<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.42			
<b>Label</b>	PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales			
<b>Classification</b>	CDA Entry Level Template			
<b>Open/Closed</b>	Open (other than defined elements are allowed)			
<b>Uses</b>	Uses 4 templates			
	<b>Uses</b>	<b>as</b>	<b>Name</b>	<b>Version</b>
	1.3.6.1.4.1.19376.1.3.10.9.1	Include	 X Specimen Identified (2.0)	2014-12-22 15:54:30
	1.3.6.1.4.1.19376.1.3.10.9.43	Containment	 Assessment Scoring Item APSR 2.0 (2.0)	2016-10-11 10:26:17
	2.16.840.1.113883.10.12.324	Containment	 CDA Reference	2005-09-07
2.16.840.1.113883.10.12.329	Containment	 CDA Precondition	2005-09-07	
<b>Relationship</b>	Specialization: template 1.3.6.1.4.1.19376.1.8.1.4.9 (2014-05-14 17:09:54)			
<b>Example</b>	generated example for use case #1, ER-Allred Score			
	<pre> &lt;observation negationInd="false" classCode="OBS" moodCode="EVN"&gt;   &lt;templateId root="1.3.6.1.4.1.19376.1.3.10.9.42"/&gt;   &lt;id root="1.3.6.1.4.1.19376.1.8.9.1" extension="A7102400008_AllredScoreSystem"/&gt;   &lt;code code="278061009   Scores (qualifier value)  " codeSystem="2.16.840.1.113883.6.96" displayName="Score"/&gt;   &lt;derivationExpr text="sum"/&gt;   &lt;statusCode code="completed"/&gt;   &lt;effectiveTime&gt;     &lt;low value="201001041405-0500"/&gt;   &lt;/effectiveTime&gt;   &lt;value code="445104009" codeSystem="2.16.840.1.113883.6.96" displayName="Sum of proportion of positive staining neoplastic cells" </pre>			

```

score and average intensity of staining score for hormone receptors using immunohistochemistry (observable entity)"/>
<methodCode code="0107" displayName="Microscopy" codeSystem="2.16.840.1.113883.5.84"/>
<specimen typeCode="SPC">
  <specimenRole classCode="SPEC">
    <id root="1.3.6.1.4.1.19376.1.8.9" extension="A7102400008_slide_A1_ER"/>
  </specimenRole>
</specimen>
<entryRelationship>
  <sequenceNumber value="1"/>
  <!-- template 1.3.6.1.4.1.19376.1.3.10.9.43 'Assessment Scoring Item APSR 2.0' (2016-10-11T10:26:17) -->
</entryRelationship>
<reference>
  <!-- template 2.16.840.1.113883.10.12.324 'CDA Reference' (2005-09-07T00:00:00) -->
</reference>
<precondition>
  <!-- template 2.16.840.1.113883.10.12.329 'CDA Precondition' (2005-09-07T00:00:00) -->
</precondition>
</observation>
    
```

Item	DT	Card	Conf	Description	Label
h17:observation		0 .. 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
└ @classCode	CS	1 .. 1	F	OBS	
└ @moodCode	CS	1 .. 1	F	EVN	
└ @negationInd	bl	0 .. 1			
└ h17:templateId	II	1 .. 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales

└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.3.10.9.42	
└ hl7:id	II	0 ... *	R		PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
└ hl7:code	CV (extensible)	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
└ @code	CONF	1 ... 1		@code shall be out of choice: <ul style="list-style-type: none"> <li>▪ 246262008</li> <li>▪ Score (attribute)</li> <li>▪</li> </ul>	
└ @codeSystem		1 ... 1	F	2.16.840.1.113883.6.96 (Snomed-CT)	
└ @codeSystemName		1 ... 1	F	SCT	
└ @displayName		1 ... 1	F	Score	
└ hl7:derivationExpr	ST	0 ... 1	R	This optional field can be used to specify how the total score is calculated. In most cases the total score will be the sum of its components. But complex mathematical functions and/or logical operations are possible as well.	PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales

<p>↳ <code>h17:text</code></p>	<b>ED</b>	<b>0 ... 1</b>	<b>R</b>	Scoring system used	PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales	
<p>↳ <code>h17:statusCode</code></p>	<b>CS (required)</b>	<b>1 ... 1</b>	<b>M</b>	The observation statusCode is " completed " if the observation was actually performed and has produced a result in the value element. In other cases the status of the intended observation is " aborted " and the result will never come.	PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales	
	Constraint	<p>@code shall be "completed" or @code shall be "aborted"</p>				
	CONF	<p>The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933 <i>ActStatus</i> (2014-03-26)</p>				
<p>↳ <code>h17:effectiveTime</code></p>	<b>IVL_TS</b>	<b>0 ... 1</b>	<b>R</b>		PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales	
<p>↳ <code>h17:value</code></p>	<b>CE (extensible)</b>	<b>1 ... *</b>	<b>R</b>		PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales	

		CONF			<p>@code shall be "any codes from 395531003   Tumor observable (observable entity)  "</p> <p>@codeSystem shall be "2.16.840.1.113883.6.96"</p> <p>@codeSystemName shall be "SCT"</p> <p>@displayName shall be "any score systems from Tumor observables"</p> <p>or</p> <p>@code shall be "any codes from 273249006   Assessment scales"</p> <p>@codeSystem shall be "2.16.840.1.113883.6.96"</p> <p>@codeSystemName shall be "SCT"</p> <p>@displayName shall be "any score systems from Assessment scales"</p>		
<p>↳ h17:methodCode</p>	CE		0 ... *	R			<p>PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales</p>
		CONF			The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.14079 <i>ObservationMethod</i> (2014-03-26)		
Included			1 ... *	R	from 1.3.6.1.4.1.19376.1.3.10.9.1 X <i>Specimen Identified</i> (2014-12-22 15:54:30)		
<p>↳ h17:specimen</p>			1 ... *	R	Required in XD-LAB when more than one specimen is documented at this level. Always required in APSR.		<p>PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified</p>
					<p>🌀 psr-dataelement-17      🟡 Specimen identification      🟡 APSR 2.0</p>		
<p>↳ @typeCode</p>	cs		0 ... 1	F	SPC		

└─ h17:specimenRole		1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
└─ @classCode	CS	0 ... 1	F	SPEC	
└─ h17:id	II	1 ... 1	R	Specimen ID, coming from the LIS	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
	<div style="border: 1px solid green; background-color: #e0ffe0; padding: 5px;"> <ul style="list-style-type: none"> <li>☉ psr-dataelement-95      ● Parent ID      ● APSR 2.0</li> <li>psr-dataelement-67      ● Block ID      ● APSR 2.0</li> <li>psr-dataelement-66      ● Part ID      ● APSR 2.0</li> <li>psr-dataelement-98      ● Specimen ID      ● APSR 2.0</li> <li>psr-dataelement-68      ● Tissue section ID      ● APSR 2.0</li> </ul> </div>				
└─ h17:entryRelationship		0 ... *	R	Contains 1.3.6.1.4.1.19376.1.3.10.9.43 <i>Assessment Scoring Item APSR 2.0</i> (2016-10-11 10:26:17)	PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
where [h17:observation]					
└─ @typeCode	CS	1 ... 1	F	COMP	
└─ @contextConductionInd	bl	0 ... 1	F	true	


└ h17:sequenceNumber	INT	0 ... 1			PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
└ h17:reference		0 ... *	R	Contains 2.16.840.1.113883.10.12.324 CDA Reference (2005-09-07)	PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
└ h17:precondition		0 ... *	R	Contains 2.16.840.1.113883.10.12.329 CDA Precondition (2005-09-07)	PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
where [h17:criterion]					
└ h17:referenceRange		0 ... *	R		PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
└ @typeCode	CS	1 ... 1	F	REFV	
└ h17:observationRange		1 ... 1	R		PaLM Suppl. APSR 2.1-3:



					6.3.5.10 Assessment scales
└ @classCode	CS	0 ... 1	F	OBS	
└ @moodCode	CS	0 ... 1	F	EVN.CRT	
└ h17:code	CD	0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
└ @codeSystem	CONF	0 ... 1	F	2.16.840.1.113883.5.4 (Act Code)	
└ h17:text	ED	0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
└ h17:value	ANY	0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
└ h17:interpretationCode	CE	0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment

				scales
	CONF	The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.78 <i>ObservationInterpretation</i> (2014-03-26)		

### Supportive Template Assessment Scoring Item - 1.3.6.1.4.1.19376.1.3.10.9.43

<b>Id</b>	1.3.6.1.4.1.19376.1.3.10.9.43	<b>Effective Date</b>	2016-10-11 10:26:17
<b>Status</b>	 Draft	<b>Version Label</b>	2.0
<b>Name</b>	AssessmentScoringItemAPSR2.0	<b>Display Name</b>	Assessment Scoring Item APSR 2.0



#### Description

Template CDA Observation (prototype, directly derived from POCD\_RM000040 MIF)

Supportive Observation entry template for describing the granular Items for a scoring system, e.g. Elston-Ellis-Score or Gleason Score

<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.43
<b>Label</b>	PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
<b>Classification</b>	CDA Entry Level Template
<b>Open/Closed</b>	Open (other than defined elements are allowed)

#### Uses 5 templates

Uses	as	Name	Version
1.3.6.1.4.1.19376.1.3.3.1.7	Containment	 Laboratory Performer (2017)	2008-08-08
1.3.6.1.4.1.19376.1.8.1.4.2	Containment	 Author (2.0)	2016-06-21 14:02:11

	1.3.6.1.4.1.19376.1.8.1.4.6	Containment	● Informant (2.0)	2016-07-08 11:22:58
	1.3.6.1.4.1.19376.1.8.1.4.7	Containment	● Additional participant in an entry (2.0)	2016-07-12 18:44:06
	1.3.6.1.4.1.19376.1.3.10.9.1	Include	● X Specimen Identified (2.0)	2014-12-22 15:54:30

**Relationship** Specialization: template 1.3.6.1.4.1.19376.1.8.1.4.9 (2014-05-14 17:09:54)

example for use case #1: ER-Allred Percentage Score Item

```

<observation classCode="OBS" moodCode="EVN" negationInd="false">
  <templateId root="1.3.6.1.4.1.19376.1.3.10.9.43"/>
  <id root="1.3.6.1.4.1.19376.1.8.9.1" extension="A7102400008_AllredPercentage"/>
  <code code="444644009" displayName="Number fraction of estrogen receptors in neoplasm using immune stain (observable entity)" codeSystem="2.16.840.1.113883.6.96"/>
  <statusCode code="completed"/>
  <effectiveTime>
    <low value="201001041405-0500"/>
  </effectiveTime>
  <value xsi:type="PQ" value="85" unit="%" />
  <methodCode code="0107" codeSystem="2.16.840.1.113883.5.84" displayName="Microscopy"/>
  <performer>
    <!-- template 1.3.6.1.4.1.19376.1.3.3.1.7 'Laboratory Performer' (2008-08-08T00:00:00) -->
  </performer>
  <author>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author IHE' (2016-06-21T14:02:11) -->
  </author>
  <informant>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant (Header&Body) APSR2' (2016-07-08T11:22:58) -->
  </informant>
  <participant>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.7 'Additional participant in an entry APSR (Body)' (2016-07-12T18:44:06) -->
  </participant>
  <specimen typeCode="SPC">
    <specimenRole classCode="SPEC">
      <id root="1.3.6.1.4.1.19376.1.8.9" extension="A7102400008_slide_A1_ER"/>
    </specimenRole>
  </specimen>
</observation>







```

Item	DT	Card	Conf	Description	Label
------	----	------	------	-------------	-------

h17:observation		0 ... *	R		PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
└ @classCode	CS	1 ... 1	F	OBS	
└ @moodCode	CS	1 ... 1	F	EVN	
└ @negationInd	bl	0 ... 1			
└ h17:templateId	II	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.3.10.9.43	
└ h17:id	II	0 ... *	R		PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
└ h17:code	CE (extensible)	1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales










	CONF	shall be drawn from concept domain "<<395527009   Microscopic specimen observable (observable entity)  "		
	Example	for use case #1, Breast tubule formation <code code="371470008" codeSystem="2.16.840.1.113883.6.96"/>		
└ h17:text	ED	0 ... 1	R	PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
└ h17:statusCode	CS (required)	1 ... 1	M	PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
	Constraint	@code shall be "completed" or @code shall be "aborted"		
	CONF	The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933 <i>ActStatus</i> (2014-03-26)		
└ h17:effectiveTime	IVL_TS	0 ... 1	R	PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
└ h17:value	INT	1 ... 1	R	PaLM Suppl. APSR
				Single numerical score item of a scoring system, e.g. "2" for Breast tubule formation

					2.1-3: 6.3.5.10 Assessment scales
	Example	for use case #1 <value value="2"/>			
└ h17:interpretationCode	CE (extensible)	0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
	CONF	The value of @code should be drawn from value set 2.16.840.1.113883.1.11.78 <i>ObservationInterpretation</i> (2014-03-26)			
└ h17:referenceRange		0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
└ @typeCode	CS	1 ... 1	F	REVF	
└ h17:observationRange		0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
└ @classCode	CS	1 ... 1	F	OBS	
└ @moodCode	CS	1 ... 1	F	EVN.CRT	

 <code>hl7:code</code>	<b>CD (extensible)</b>	<b>1 ... 1</b>	<b>R</b>		PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
 <code>@codeSystem</code>	<b>CONF</b>	<b>0 ... 1</b>	<b>F</b>	2.16.840.1.113883.5.4 (Act Code)	
 <code>hl7:text</code>	<b>ED</b>	<b>0 ... 1</b>	<b>R</b>		PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
 <code>hl7:effectiveTime</code>	<b>TS</b>	<b>0 ... 1</b>	<b>R</b>		PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
 <code>hl7:value</code>	<b>ANY</b>	<b>1 ... 1</b>	<b>R</b>		PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
 <code>hl7:interpretation</code>	<b>CD (extensible)</b>	<b>0 ... 1</b>	<b>R</b>		PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales

	CONF	The value of @code should be drawn from value set 2.16.840.1.113883.1.11.78 <i>ObservationInterpretation</i> (2014-03-26)			
↳ <code>h17:methodCode</code>	CE (extensible)	0 ... 1	R		PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
	CONF	The value of @code should be drawn from value set 2.16.840.1.113883.1.11.14079 <i>ObservationMethod</i> (2014-03-26)			
↳ <code>h17:performer</code>	II	0 ... *	C	Performing lab Source: PaLM TF-3: 6.3.2.20 Contains 1.3.6.1.4.1.19376.1.3.3.1.7 <i>Laboratory Performer</i> (2008-08-08)	PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
where [ <i>h17:assignedEntity</i> ]					
↳ <code>h17:author</code>	II	0 ... *	C	Author Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.2 Contains 1.3.6.1.4.1.19376.1.8.1.4.2 <i>Author</i> (2016-06-21 14:02:11)	PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
where [ <i>h17:author</i> ]					
↳ <code>h17:informant</code>	II	0 ... *	R	Informant Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.5 Contains 1.3.6.1.4.1.19376.1.8.1.4.6 <i>Informant</i> (2016-07-08 11:22:58)	PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment



					scales
 <b>h17:participant</b>	II	0 ... *	R	Additional participants Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.6 Contains 1.3.6.1.4.1.19376.1.8.1.4.7 <i>Additional participant in an entry</i> (2016-07-12 18:44:06)	PaLM Suppl. APSR 2.1-3: 6.3.5.10 Assessment scales
where [h17:participantRole]					
Included		1 ... *	M	from 1.3.6.1.4.1.19376.1.3.10.9.1 X <i>Specimen Identified</i> (2014-12-22 15:54:30)	
 <b>h17:specimen</b>		1 ... *	M	Required in XD-LAB when more than one specimen is documented at this level. Always required in APSR.	PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
<div style="border: 1px solid #ccc; background-color: #e0ffe0; padding: 5px; display: flex; justify-content: space-between; align-items: center;"> <span> psr-dataelement-17</span> <span> Specimen identification</span> <span> APSR 2.0</span> </div>					
 <b>@typeCode</b>	CS	0 ... 1	F	SPC	
 <b>h17:specimenRole</b>		1 ... 1	M		PaLM Suppl. APSR 2.1-3: 6.3.5.7 X Specimen identified
 <b>@classCode</b>	CS	0 ... 1	F	SPEC	
 <b>h17:id</b>	II	1 ... 1	R	Specimen ID, coming from the LIS	PaLM Suppl. APSR

				2.1-3: 6.3.5.7 X Specimen identified
psr-dataelement-95	Parent ID	APSR 2.0		
psr-dataelement-67	Block ID	APSR 2.0		
psr-dataelement-66	Part ID	APSR 2.0		
psr-dataelement-98	Specimen ID	APSR 2.0		
psr-dataelement-68	Tissue section ID	APSR 2.0		

### 6.3.6 External Content Modules referenced by APSR 2.0

#### 6.3.6.1 Definition and purpose

For some of the templates described above supportive templates are used, defined and specified by XD-LAB or PCC. They are listed in table 5.5-1 (see above), and shown here for better understanding only.

#### 6.3.6.2 Specifications and Examples

##### <IHE Reason for Referral Sub-Section> - Section Content Module - 1.3.6.1.4.1.19376.1.5.3.1.3.1

<b>Id</b>	1.3.6.1.4.1.19376.1.5.3.1.3.1 ref IHE-PCC-	<b>Effective Date</b>	2016-09-26 07:58:18 Other versions this id: <ul style="list-style-type: none"> <li>ReasonforReferralSectionV2 as of 2014-06-09</li> <li>ReasonforReferralSection as of 2013-01-31</li> </ul>
<b>Status</b>	Active	<b>Version Label</b>	2014
<b>Name</b>	IHEReasonForReferralSection	<b>Display Name</b>	IHE Reason for Referral Section

*IHE Pathology and Laboratory Medicine (PaLM) Technical Framework Supplement - Anatomic Pathology Structured Report (APSR)*

<b>Description</b>	The reason for referral section shall contain a narrative description of the reason that the patient is being referred.
<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.5.3.1.3.1
<b>Label</b>	6.3.3.1.1
<b>Classification</b>	CDA Section Level Template
<b>Open/Closed</b>	Open (other than defined elements are allowed)
<b>Relationship</b>	Specialization: template 2.16.840.1.113883.10.12.201 (2005-09-07)

Item	DT	Card	Conf	Description	Label
h17:section					6.3.3.1.1
└ h17:templateId	II	1 ... 1	M		6.3.3.1.1
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.5.3.1.3.1	
└ h17:id	II	1 ... 1	M		6.3.3.1.1
└ h17:code	CE	1 ... 1	M		6.3.3.1.1
└ @code	CONF	1 ... 1	F	42349-1	
└ @codeSystem		1 ... 1	F	2.16.840.1.113883.6.1 (LOINC)	
└ @displayName		1 ... 1	F	REASON FOR REFERRAL	
└ @codeSystemName		1 ... 1	F	LOINC	
└ h17:text	SD.TEXT	1 ... 1	M		6.3.3.1.1


<History of Present Illness Sub-Section> - Section Content Module - 1.3.6.1.4.1.19376.1.5.3.1.3.4

<b>Id</b>	1.3.6.1.4.1.19376.1.5.3.1.3.4 ref IHE-PCC-	<b>Effective Date</b>	2013-01-31 Other versions this id: ▪ <input type="radio"/> HistoryofPresentIllnessSection as of 2015-08-13
<b>Status</b>	● Active	<b>Version Label</b>	2014
<b>Name</b>	IHEHistoryofPresentIllnessSection	<b>Display Name</b>	IHE History of Present Illness Section
<b>Description</b>	The history of present illness section shall contain a narrative description of the sequence of events preceding the patient's current complaints.		
<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.5.3.1.3.4		
<b>Label</b>	6.3.3.2.1		
<b>Classification</b>	CDA Section Level Template		
<b>Open/Closed</b>	Open (other than defined elements are allowed)		

Item	DT	Card	Conf	Description	Label
h17:section					6.3.3.2.1
└ h17:templateId		1 ... 1	M		6.3.3.2.1
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.5.3.1.3.4	
└ h17:id	II	1 ... 1	R		6.3.3.2.1
└ h17:code	CE	1 ... 1	M		6.3.3.2.1
└ @code	CONF	1 ... 1	F	10164-2	




@codeSystem		1 ... 1	F	2.16.840.1.113883.6.1 (LOINC)
h17:text		1 ... 1	M	6.3.3.2.1

<CDA Active Problems Sub-Section> - Section Content Module - 1.3.6.1.4.1.19376.1.5.3.1.3.6

<b>Id</b>	1.3.6.1.4.1.19376.1.5.3.1.3.6 ref IHE-PCC-	<b>Effective Date</b>	2015-10-05 16:02:07 Other versions this id: ▪ <input type="radio"/> SectionActiveProblems as of 2013-12-20
<b>Status</b>	 Active	<b>Version Label</b>	2014
<b>Name</b>	IHEActiveProblemsSection	<b>Display Name</b>	IHE Active Problems Section

Description

The active problem section shall contain a narrative description of the conditions currently being monitored for the patient. It shall include entries for patient conditions as described in the Entry Content Module.

<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.5.3.1.3.6								
<b>Label</b>	6.3.3.2.3								
<b>Classification</b>	CDA Section Level Template								
<b>Open/Closed</b>	Open (other than defined elements are allowed)								
<b>Uses</b>	Uses 1 template								
	<table border="1"> <thead> <tr> <th>Uses</th> <th>as</th> <th>Name</th> <th>Version</th> </tr> </thead> <tbody> <tr> <td>1.3.6.1.4.1.19376.1.5.3.1.4.5.2</td> <td>Containment</td> <td> IHE Problem Concern Entry (2014)</td> <td>DYNAMIC</td> </tr> </tbody> </table>	Uses	as	Name	Version	1.3.6.1.4.1.19376.1.5.3.1.4.5.2	Containment	 IHE Problem Concern Entry (2014)	DYNAMIC
Uses	as	Name	Version						
1.3.6.1.4.1.19376.1.5.3.1.4.5.2	Containment	 IHE Problem Concern Entry (2014)	DYNAMIC						

Relationship		Specialization: template 2.16.840.1.113883.10.12.201 (2005-09-07) Specialization: template 2.16.840.1.113883.10.20.1.11 (2007-04-01)			
Item	DT	Card	Conf	Description	Label
h17:section					6.3.3.2.3
└ h17:templateId	II	1 ... 1	M		6.3.3.2.3
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.5.3.1.3.6	
└ h17:templateId	II	1 ... 1	M		6.3.3.2.3
└ @root	uid	1 ... 1	F	2.16.840.1.113883.10.20.1.11	
└ h17:code	CE	1 ... 1	M		6.3.3.2.3
└ @code	CONF	1 ... 1	F	11450-4	
└ @codeSystem		1 ... 1	F	2.16.840.1.113883.6.1 (LOINC)	
└ h17:text	SD.TEXT	1 ... 1	M		6.3.3.2.3
└ h17:entry		1 ... *	R	Contains 1.3.6.1.4.1.19376.1.5.3.1.4.5.2 IHE Problem Concern Entry (DYNAMIC)	6.3.3.2.3
where [h17:act]					

<Specimen Received> - Child Element Content Module - 1.3.6.1.4.1.19376.1.3.1.3

<b>Id</b>	1.3.6.1.4.1.19376.1.3.1.3 <span>ref XDLAB-</span>	<b>Effective Date</b>	2008-08-08
<b>Status</b>	<span style="color: green;">●</span> Active	<b>Version Label</b>	2017
<b>Name</b>	SpecimenReceived	<b>Display Name</b>	Specimen Received

**Description**


Specimen Received, when present, SHALL be recorded under the Specimen Act in an entryRelationship under the Laboratory Data Processing Entry. The table below shows how the information for this element is coded, and further constraints are provided in the following sections.

<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.1.3
<b>Classification</b>	CDA Entry Level Template
<b>Open/Closed</b>	Open (other than defined elements are allowed)
<b>Relationship</b>	Specialization: template 2.16.840.1.113883.10.12.301 (2005-09-07) Adaptation: template 1.3.6.1.4.1.19376.1.3.1 (DYNAMIC)

**Example**

Example

```
<procedure>
  <entryRelationship typeCode="COMP">
    <act classCode="ACT" moodCode="EVN">
      <templateId root="1.3.6.1.4.1.19376.1.3.1.3"/>
      <code code="SPRECEIVE" codeSystem="1.3.5.1.4.1.19376.1.5.3.2" displayName=""/>
      <effectiveTime>
        <low value="20170329075626"/>
      </effectiveTime>
    </act>
  </entryRelationship>
</procedure>
```



















Item	DT	Card	Conf	Description	Label
h17:act		1 ... 1	M		(Spe...ved)
 @classCode	CS	1 ... 1	F	ACT	

@moodCode	CS	1 ... 1	F	EVN	
h17:templateId	II	1 ... 1	M		(Spe...ved)
@root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.3.1.3	
h17:code	CD	1 ... 1	R	Code representing the specimen reception in the laboratory	(Spe...ved)
@code	CONF	0 ... 1	F	SPRECEIVE	
@codeSystem		0 ... 1	F	1.3.5.1.4.1.19376.1.5.3.2 (IHEActCode)	
@codeSystemName		0 ... 1	F	IHEActCode	
h17:effectiveTime	IVL_TS	1 ... 1	R	Date and time of specimen reception	(Spe...ved)

**<Laboratory Observation> - Child Element Content Module - 1.3.6.1.4.1.19376.1.3.1.6**

<b>Id</b>	1.3.6.1.4.1.19376.1.3.1.6 <span>ref XDLAB-</span>	<b>Effective Date</b>	2008-08-08
<b>Status</b>	<span style="color: green;">●</span> Active	<b>Version Label</b>	2017
<b>Name</b>	LaboratoryObservation	<b>Display Name</b>	Laboratory Observation
<b>Description</b>			
<p>The document SHALL contain at least one Laboratory Observation (See REFERENCE) under the Specimen Act of each Laboratory Data Processing Entry (See REFERENCE). The Laboratory Observation SHALL record a single laboratory observation in the document, either standalone or as part of a battery. It should be distinguished from the PCC Simple Observation template.</p>			
<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.1.6		



<b>Classification</b>	CDA Entry Level Template																												
<b>Open/Closed</b>	Open (other than defined elements are allowed)																												
<b>Uses</b>	Uses 6 templates																												
	<table border="1"> <thead> <tr> <th>Uses</th> <th>as</th> <th>Name</th> <th>Version</th> </tr> </thead> <tbody> <tr> <td>1.3.6.1.4.1.19376.1.3.3.1.2.1</td> <td>Containment</td> <td> Non-Human Subject (2017)</td> <td>DYNAMIC</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.3.3.1.3.1</td> <td>Containment</td> <td> Human Patient with Non-Human Subject (2017)</td> <td>DYNAMIC</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.3.3.1.7</td> <td>Containment</td> <td> Laboratory Performer (2017)</td> <td>DYNAMIC</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.3.10.9.17</td> <td>Containment</td> <td> Author with Name, Addr, Telecom (2017)</td> <td>DYNAMIC</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.5.3.1.4.2</td> <td>Containment</td> <td> IHE Comment Entry (2014)</td> <td>DYNAMIC</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.3.1.2</td> <td>Containment</td> <td> Specimen Collection (2017)</td> <td>DYNAMIC</td> </tr> </tbody> </table>	Uses	as	Name	Version	1.3.6.1.4.1.19376.1.3.3.1.2.1	Containment	 Non-Human Subject (2017)	DYNAMIC	1.3.6.1.4.1.19376.1.3.3.1.3.1	Containment	 Human Patient with Non-Human Subject (2017)	DYNAMIC	1.3.6.1.4.1.19376.1.3.3.1.7	Containment	 Laboratory Performer (2017)	DYNAMIC	1.3.6.1.4.1.19376.1.3.10.9.17	Containment	 Author with Name, Addr, Telecom (2017)	DYNAMIC	1.3.6.1.4.1.19376.1.5.3.1.4.2	Containment	 IHE Comment Entry (2014)	DYNAMIC	1.3.6.1.4.1.19376.1.3.1.2	Containment	 Specimen Collection (2017)	DYNAMIC
	Uses	as	Name	Version																									
	1.3.6.1.4.1.19376.1.3.3.1.2.1	Containment	 Non-Human Subject (2017)	DYNAMIC																									
	1.3.6.1.4.1.19376.1.3.3.1.3.1	Containment	 Human Patient with Non-Human Subject (2017)	DYNAMIC																									
	1.3.6.1.4.1.19376.1.3.3.1.7	Containment	 Laboratory Performer (2017)	DYNAMIC																									
	1.3.6.1.4.1.19376.1.3.10.9.17	Containment	 Author with Name, Addr, Telecom (2017)	DYNAMIC																									
1.3.6.1.4.1.19376.1.5.3.1.4.2	Containment	 IHE Comment Entry (2014)	DYNAMIC																										
1.3.6.1.4.1.19376.1.3.1.2	Containment	 Specimen Collection (2017)	DYNAMIC																										
<b>Relationship</b>	Generalization: template 2.16.840.1.113883.10.12.303 (2005-09-07)																												
<b>Example</b>	Example																												
	<pre> &lt;observation classCode="OBS" moodCode="EVN"&gt;   &lt;templateId root="1.3.6.1.4.1.19376.1.3.1.6"/&gt;   &lt;id root=" " extension=" "/&gt;   &lt;code code="10912-4" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Lead Measurement, Quantitative"&gt;     &lt;originalText&gt;       &lt;reference value="pbTest"/&gt;     &lt;/originalText&gt;   &lt;/code&gt;   &lt;statusCode code="completed"/&gt;   &lt;effectiveTime value="20071108000000.0000-0500"/&gt;   &lt;value xsi:type="PQ" unit="mg/dL" value="6.4"/&gt;   &lt;interpretationCode code="H" codeSystem="2.16.840.1.113883.5.83"/&gt;   &lt;methodCode code=" " codeSystem=" " codeSystemName=" "/&gt;   &lt;specimen typeCode="SPC"&gt;     &lt;specimenRole classCode="SPEC"&gt;       &lt;id extension="555847399003" root="1.3.6.1.4.1.19376.1.3.4"/&gt;       &lt;specimenPlayingEntity&gt;         &lt;code code="BLD" codeSystem="2.16.840.1.113883.5.129" codeSystemName="HL7" displayName="Blood"/&gt;       &lt;/specimenPlayingEntity&gt;     &lt;/specimenRole&gt;   &lt;/specimen&gt;   &lt;performer typeCode="PRF"&gt;     &lt;templateId root="1.3.6.1.4.1.19376.1.3.3.1.7"/&gt; </pre>																												

```

<!-- ... -->
</performer>
<author typeCode="AUT">
  <!-- ... -->
</author>
<participant typeCode="AUTHEN">
  <templateId root="1.3.6.1.4.1.19376.1.3.3.1.5"/>
  <!-- ... -->
</participant>
<participant typeCode="RESP">
  <!-- ... -->
</participant>
<participant typeCode="DEV">
  <!-- ... -->
</participant>
<entryRelationship typeCode="COMP">
  <act classCode="ACT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.1.40"/>
    <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.2"/>
    <code code="48767-8" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Annotation Comment"/>
    <text>
      <reference value="pbTestComment"/>
    </text>
    <statusCode code="completed"/>
  </act>
</entryRelationship>
<entryRelationship typeCode="REFR">
  <sequenceNumber value="1"/>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="1.3.6.1.4.1.19376.1.3.1.6"/>
    <code code="10912-4" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Lead Measurement,
Quantitative">
      <originalText>
        <reference value="pbTest"/>
      </originalText>
    </code>
    <statusCode code="completed"/>
    <effectiveTime value="20071101000000.0000-0500"/>
    <value xsi:type="PQ" unit="mg/dL" value="8.7"/>
    <interpretationCode code="H" codeSystem="2.16.840.1.113883.5.83"/>
  <entryRelationship typeCode="COMP">
    <act classCode="ACT" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.1.40"/>
      <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.2"/>
      <code code="48767-8" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Annotation Comment"/>
      <text>
        <reference value="pbTestComment"/>
      </text>
      <statusCode code="completed"/>
    </act>
  </entryRelationship>
</observation>
</entryRelationship>
<referenceRange typeCode="REFV">

```

	<pre> &lt;observationRange classCode="OBS" moodCode="EVN.CRT"&gt;   &lt;value xsi:type="IVL_PQ"&gt;     &lt;low value="0.0" unit="mg/dL"/&gt;     &lt;high value="5.0" unit="mg/dL"/&gt;   &lt;/value&gt;   &lt;interpretationCode code="N" codeSystem="2.16.840.1.113883.5.83"/&gt; &lt;/observationRange&gt; &lt;lab:precondition typeCode="PRCN"&gt;   &lt;lab:criterion classCode="COND"&gt;     &lt;lab:code code="AGE"/&gt;     &lt;lab:value xsi:type="IVL_PQ"&gt;       &lt;lab:low value="35" unit="Y"/&gt;       &lt;lab:high value="55" unit="Y"/&gt;     &lt;/lab:value&gt;   &lt;/lab:criterion&gt; &lt;/lab:precondition&gt; &lt;/referenceRange&gt; &lt;/observation&gt; </pre>
<p>Example</p>	<p>Example</p> <pre> &lt;observation classCode="OBS" moodCode="EVN"&gt;   &lt;templateId root="1.3.6.1.4.1.19376.1.3.1.3"/&gt;   &lt;code code="11273-0" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="ERYTHROCYTES"/&gt;   &lt;statusCode code="completed"/&gt;   &lt;effectiveTime value="20060321063000.0000-0500"/&gt;   &lt;value xsi:type="PQ" value="4.95" unit="10*6/mm3"/&gt;   &lt;interpretationCode code="N" codeSystem="2.16.840.1.113883.5.83"/&gt;   &lt;entryRelationship typeCode="REFR"&gt;     &lt;!-- Previous result 4.85 from Mar 12, 2006 08:15 --&gt;     &lt;observation classCode="OBS" moodCode="EVN"&gt;       &lt;code code="11273-0" codeSystem="2.16.840.1.113883.6.1"/&gt;       &lt;statusCode code="completed"/&gt;       &lt;effectiveTime value="20060312081500.0000-0500"/&gt;       &lt;value xsi:type="PQ" value="4.85" unit="10*6/mm3"/&gt;     &lt;/observation&gt;   &lt;/entryRelationship&gt;   &lt;!-- reference range given patient sex --&gt;   &lt;referenceRange typeCode="REFV"&gt;     &lt;observationRange classCode="OBS" moodCode="EVN.CRT"&gt;       &lt;value xsi:type="IVL_PQ"&gt;         &lt;low value="4.50" unit="10*6/mm3"/&gt;         &lt;high value="6.00" unit="10*6/mm3"/&gt;       &lt;/value&gt;     &lt;/observationRange&gt;     &lt;lab:precondition typeCode="PRCN"&gt;       &lt;lab:criterion classCode="COND"&gt;         &lt;lab:code code="SEX"/&gt;         &lt;lab:value xsi:type="CD" code="M" codeSystem="2.16.840.1.113883.5.1"/&gt;       &lt;/lab:criterion&gt;     &lt;/lab:precondition&gt;   &lt;/referenceRange&gt; </pre>

</observation>					
Item	DT	Card	Conf	Description	Label
h17:observation		1 ... 1	M		(Lab...ion)
└ @classCode	CS	1 ... 1	F	OBS	
└ @moodCode	CS	1 ... 1	F	EVN	
└ h17:templateId	II	1 ... 1	M		(Lab...ion)
└└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.3.1.6	
└ h17:id	II	0 ... 1		A Laboratory Observation identifier MAY be present.	(Lab...ion)
└ h17:code	CD	1 ... 1	R	Unique test code in an international standard (LOINC or SNOMED CT) or a national standard (e.g. JC10 in Japan)	(Lab...ion)
└ h17:statusCode	CS	1 ... 1	M	'completed' when the result is present. 'aborted' if the test could not be performed.	(Lab...ion)
	CONF			@code shall be "completed" or @code shall be "aborted"	
└ h17:effectiveTime	IVL_TS	0 ... 1	R	Physiologically relevant time	(Lab...ion)
└ h17:value	ANY	0 ... 1	R	The result obtained for this test using the appropriate data type. Numeric results use data type PQ, which includes the unit. The result is absent in case of 'obsolete' or 'aborted' observation.	(Lab...ion)


└ h17:interpretationCode	CE	0 ... 1	R	One or more codes interpreting the result, expressed with ObservationInterpretation vocabulary (e.g. H = high, L = low) In case of an antimicrobial susceptibility test in microbiology, the vocabulary domain is ObservationInterpretationSusceptibility: S = susceptible, R = resistant, I = intermediate, VS = very susceptible, MS = moderately susceptible	(Lab...ion)
└ h17:methodCode	CE	0 ... 1	R	method used for this observation expressed with ObservationMethod vocabulary (CWE)	(Lab...ion)
Choice		0 ... 1		Elements to choose from: <ul style="list-style-type: none"> <li>h17:subject containing template 1.3.6.1.4.1.19376.1.3.3.1.2.1 <i>Non-Human Subject</i> (DYNAMIC)</li> <li>h17:subject containing template 1.3.6.1.4.1.19376.1.3.3.1.3.1 <i>Human Patient with Non-Human Subject</i> (DYNAMIC)</li> </ul>	
└ h17:subject		0 ... 1		subject in case of a non-human subject Contains 1.3.6.1.4.1.19376.1.3.3.1.2.1 <i>Non-Human Subject</i> (DYNAMIC)	(Lab...ion)
where [h17:relatedSubject]					
└ @typeCode	CS	0 ... 1	F	SBJ	
└ h17:subject		0 ... 1		subject in case of a non-human subject Contains 1.3.6.1.4.1.19376.1.3.3.1.3.1 <i>Human Patient with Non-Human Subject</i> (DYNAMIC)	(Lab...ion)
where [h17:relatedSubject]					
└ @typeCode	CS	0 ... 1	F	SBJ	
└ h17:performer		0 ... *		performer participation. Performer to supersede those recorded at higher level. Contains 1.3.6.1.4.1.19376.1.3.3.1.7 <i>Laboratory Performer</i> (DYNAMIC)	(Lab...ion)
where [h17:assignedEntity]					
└ @typeCode	CS	0 ... 1	F	PRF	

L h17:author		0 ... *	R	author participation used to supersede the authors of higher level. Contains 1.3.6.1.4.1.19376.1.3.10.9.17 <i>Author with Name, Addr, Telecom</i> (DYNAMIC)	(Lab...ion)
where [h17:assignedAuthor]					
L @typeCode	CS	0 ... 1	F	AUT	
L h17:participant		0 ... 1		Other participants "AUTHEN", "RESP", and "DEV". <ul style="list-style-type: none"> <li>AUTHEN: The verifier of the battery organizer. In the case where a laboratory report has multiple verifiers. Each verifier is attached to the subset of batteries/observations he or she verified, by the means of a &lt;participant&gt; element.</li> </ul>	(Lab...ion)
where [@typeCode='AUTHEN']					
L @typeCode	CS	1 ... 1	F	AUTHEN	
L h17:participant		0 ... 1		Other participants "AUTHEN", "RESP", and "DEV". <ul style="list-style-type: none"> <li>RESP: The person responsible for the provision of the battery. In the case where this battery is subcontracted to an external laboratory, this external laboratory (with its address and telcom) and the actual performer is represented by a &lt;performer&gt; element, whereas the Director of this subcontractor laboratory is carried by the &lt;participant&gt; element being attached to the same level as the &lt;performer&gt; element.</li> </ul>	(Lab...ion)
where [@typeCode='RESP']					
L @typeCode	CS	1 ... 1	F	RESP	
L h17:participant		0 ... 1		Other participants "AUTHEN", "RESP", and "DEV". <ul style="list-style-type: none"> <li>DEV: A device or equipment, which was used to produce this battery of results (e.g. an analyzer).</li> </ul>	(Lab...ion)




where <i>[@typeCode='DEV']</i>					
└ @typeCode	CS	1 ... 1	F	DEV	
└ h17:entryRelationship		0 ... *	R	Comment on this Observation Contains 1.3.6.1.4.1.19376.1.5.3.1.4.2 <i>IHE Comment Entry</i> (DYNAMIC)	(Lab...ion)
where <i>[h17:act [h17:code [(@code = '48767-8' and @codeSystem = '2.16.840.1.113883.6.1')]]]</i>					
└ h17:entryRelationship		0 ... *	R	Specimen Collection Contains 1.3.6.1.4.1.19376.1.3.1.2 <i>Specimen Collection</i> (DYNAMIC)	(Lab...ion)
where <i>[h17:procedure]</i>					
└ h17:entryRelationship		0 ... *	R	Previous observations obtained for the same patient, test, same method, same unit (1)	(Lab...ion)
where <i>[@typeCode='REFR']</i>					
└ @typeCode	CS	1 ... 1	F	REFR	
└ h17:observation		1 ... 1	R		(Lab...ion)
└ @classCode	CS	1 ... 1	F	OBS	
└ @moodCode	CS	1 ... 1	F	EVN	
└ h17:code		1 ... 1	R		(Lab...ion)
└ h17:statusCode		1 ... 1	R		(Lab...ion)
└ @code		1 ... 1	F	completed	

└─ h17:effectiveTime		1 ... 1	R		(Lab...ion)
└─ h17:value		1 ... 1	R		(Lab...ion)
└─ h17:referenceRange		0 ... 1	R	Reference range for the current test result	(Lab...ion)
└─ @typeCode	CS	0 ... 1	F	REFV	
└─ h17:observationRange		1 ... 1	M		(Lab...ion)
└─ @classCode	CS	0 ... 1	F	OBS	
└─ @moodCode	CS	0 ... 1	F	EVN.CRT	
└─ h17:value		0 ... 1		 interval (IVL) representation	(Lab...ion)
└─ h17:interpretationCode	CE	1 ... 1	R		(Lab...ion)
└─ @code	CONF	0 ... 1	F	N	
└─ @codeSystem		0 ... 1	F	2.16.840.1.113883.5.83 (Observation Interpretation)	
└─ lab:precondition		0 ... *		Extension to CDA Clinical statement	(Lab...ion)
└─ @typeCode	CS	1 ... 1	F	PRCN	
└─ lab:criterion		1 ... 1	R		(Lab...ion)



@classCode	CS	1 ... 1	F	COND	
@moodCode	CS	1 ... 1	F	EVN	
lab:code	CE	1 ... 1	R	Code of the criterion (e.g. age, sex)	(Lab...ion)
lab:value		1 ... 1	R	 Value of the criterion	(Lab...ion)

<Human Patient (recordTarget)> - Child Element Content Module - 1.3.6.1.4.1.19376.1.3.3.1.1

<b>Id</b>	1.3.6.1.4.1.19376.1.3.3.1.1  	<b>Effective Date</b>	2017-06-07
<b>Status</b>	 Active	<b>Version Label</b>	2017
<b>Name</b>	Humanpatientrecordtarget	<b>Display Name</b>	Human Patient

Description

ClinicalDocument/recordTarget SHALL be present and SHALL conform to the Human Patient, Non-Human Subject or Human Patient with Non-Human Subject templates defined below. There are three varieties of laboratory reports:

- Human (patient): The document reports laboratory observations produced on specimens collected exclusively from the patient.
- Non-Human Subject: The document reports laboratory observations produced on specimens collected from a non-human material (e.g. water, milk...) or living subject (e.g. animal).
- Human (patient) paired with Non-Human Subject: The document reports laboratory observations produced on a non-human specimen with a relationship to a human patient, (e.g. peanut butter eaten by a patient, a ferret that bit a patient).

**Human Patient**

In accordance with the HL7 CDA R2 standard and further constrained by this specification, XD-LAB requires the presence of name, addr and telecom for all entities in the document including the human patient. Additionally, the following SHALL be present.

- An optional templateId with root="1.3.6.1.4.1.19376.1.3.3.1.1" - The templateId element identifies this recordTarget as a human patient.
- id - The patientRole/id SHALL be present.

- administrativeGenderCode - The patientRole/patient/administrativeGenderCode SHALL be present.
- birthTime - The patientRole/patient/birthTime SHALL be present.

<b>Classification</b>	CDA Header Level Template
<b>Open/Closed</b>	Open (other than defined elements are allowed)
<b>Relationship</b>	Specialization: template 2.16.840.1.113883.10.12.101 (2005-09-07)

Example	Human Patient Example a
	<pre> &lt;recordTarget typeCode="RCT"&gt;   &lt;patientRole classCode="PAT"&gt;     &lt;id extension="sw54321" root="1.3.6.1.4.1.19376.1.3.4"/&gt;     &lt;addr&gt;       &lt;streetAddressLine&gt;1313 Mockingbird Lane&lt;/streetAddressLine&gt;       &lt;city&gt;Janesville&lt;/city&gt;       &lt;state&gt;WI&lt;/state&gt;       &lt;postalCode&gt;53545&lt;/postalCode&gt;       &lt;country&gt;USA&lt;/country&gt;     &lt;/addr&gt;     &lt;telecom value="tel: 608-555-5555"/&gt;     &lt;patient classCode="PSN"&gt;       &lt;name&gt;         &lt;family&gt;Winters&lt;/family&gt;         &lt;given&gt;Shelly&lt;/given&gt;       &lt;/name&gt;       &lt;administrativeGenderCode code="F"/&gt;       &lt;birthTime value="19401213000000.0000-0500"/&gt;     &lt;/patient&gt;   &lt;/patientRole&gt; &lt;/recordTarget&gt; </pre>

Example	Human Patient Example b: In the event a unit of information about the patient is not known or has been de-identified, the use of nullFlavor is appropriate
	<pre> &lt;recordTarget typeCode="RCT"&gt;   &lt;patientRole classCode="PAT"&gt;     &lt;id extension="sw54321" root="1.3.6.1.4.1.19376.1.3.4"/&gt;     &lt;addr&gt;       &lt;streetAddressLine nullFlavor="MSK"/&gt;       &lt;!-- masked value --&gt;       &lt;city nullFlavor="MSK"/&gt;       &lt;!-- masked value --&gt;       &lt;state nullFlavor="MSK"/&gt;       &lt;!-- masked value --&gt;     &lt;/addr&gt;   &lt;/patientRole&gt; &lt;/recordTarget&gt; </pre>

```

        <postalCode>53545</postalCode>
        <country>USA</country>
    </addr>
    <telecom nullFlavor="UNK"/>
    <!-- unknown value -->
    <patient classCode="PSN">
        <name nullFlavor="MSK"/>
        <!-- masked value -->
        <administrativeGenderCode code="F"/>
        <birthTime value="19401213000000.0000-0500"/>
    </patient>
</patientRole>
</recordTarget>
    
```

Item	DT	Card	Conf	Description	Label
h17:recordTarget		1 ... *	R		(Hum...get)
└ h17:patientRole		1 ... 1	R		(Hum...get)
└└ h17:id	II	1 ... *	R		(Hum...get)
└└ h17:addr	AD	1 ... *		All persons (including the patient) and organizations mentioned in the document SHALL provide elements name, addr and telecom.	(Hum...get)
└└ h17:telecom	TEL	1 ... *		All persons (including the patient) and organizations mentioned in the document SHALL provide elements name, addr and telecom.	(Hum...get)
└ h17:patient		1 ... 1			(Hum...get)
└└ h17:id	II	0 ... 1			(Hum...get)
└└ h17:name	PN	1 ... *			(Hum...get)
└└ h17:administrativeGenderCode	CE	1 ... 1	R		(Hum...get)

h17:birthTime	TS	1 ... 1	R	(Hum...get)
---------------	----	---------	---	-------------

**<Information Recipient> - Child Element Content Module - 1.3.6.1.4.1.19376.1.3.3.1.4**

<b>Id</b>	1.3.6.1.4.1.19376.1.3.3.1.4 <span>ref XDLAB-</span>	<b>Effective Date</b>	2008-08-08
<b>Status</b>	<span style="color: green;">●</span> Active	<b>Version Label</b>	2017
<b>Name</b>	InformationRecipient	<b>Display Name</b>	XD-LAB Information Recipient

**Description**

ClinicalDocument/informationRecipient MAY be present. When present, it SHALL be in accordance with the HL7 CDA R2 standard and further constrained by this specification to require the presence of name (on the informationRecipient and/or receivedOrganization), addr and telecom. Additionally, it SHALL have the following:

- <templateId root="1.3.6.1.4.1.19376.1.3.3.1.4"/> - The templateId element identifies this participant as an intended recipient. The templateId SHALL have root="1.3.6.1.4.1.19376.1.3.3.1.4".

The informationRecipient/intendedRecipient element can be multiple. It introduces an intended recipient of the laboratory report, other than the Ordering Provider (described as a referrer participant). These elements carry the list of the originally intended recipients of the laboratory report, i.e. those who were known at the time the report was created and published for sharing.

<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.3.1.4			
<b>Classification</b>	CDA Header Level Template			
<b>Open/Closed</b>	Open (other than defined elements are allowed)			
<b>Uses</b>	Uses 2 templates			
	<b>Uses</b>	<b>as</b>	<b>Name</b>	<b>Version</b>
	1.3.6.1.4.1.19376.1.3.10.9.18	Containment	<span style="color: green;">●</span> PlayingEntity or person with Name (2017)	DYNAMIC
1.3.6.1.4.1.19376.1.3.10.9.13	Containment	<span style="color: green;">●</span> Organization with Name, Addr, Telecom (2017)	DYNAMIC	

<b>Relationship</b>	Specialization: template 2.16.840.1.113883.10.12.105 (2005-09-07)
<b>Example</b>	<div style="background-color: #ffffcc; padding: 5px; margin-bottom: 10px;"><b>Example</b></div> <pre> &lt;informationRecipient&gt;   &lt;templateId root="1.3.6.1.4.1.19376.1.3.3.1.4"/&gt;   &lt;intendedRecipient&gt;     &lt;id extension="0000" root="1.3.6.1.4.1.19376.1.3.4"/&gt;     &lt;addr&gt;       &lt;streetAddressLine&gt;1600 Clifton Road&lt;/streetAddressLine&gt;       &lt;city&gt;Atlanta&lt;/city&gt;       &lt;state&gt;GA&lt;/state&gt;       &lt;postalCode&gt;30333&lt;/postalCode&gt;     &lt;/addr&gt;     &lt;telecom value="tel: 404-639-3535"/&gt;   &lt;/intendedRecipient&gt;   &lt;informationRecipient&gt;     &lt;name&gt;       &lt;family&gt;Angulo&lt;/family&gt;       &lt;given&gt;Fred&lt;/given&gt;     &lt;/name&gt;   &lt;/informationRecipient&gt;   &lt;receivedOrganization&gt;     &lt;id extension="0000" root="1.3.6.1.4.1.19376.1.3.4"/&gt;     &lt;name&gt;FoodNet&lt;/name&gt;     &lt;telecom value="tel: 404-639-3535"/&gt;     &lt;addr&gt;       &lt;streetAddressLine&gt;1600 Clifton Road&lt;/streetAddressLine&gt;       &lt;city&gt;Atlanta&lt;/city&gt;       &lt;state&gt;GA&lt;/state&gt;       &lt;postalCode&gt;30333&lt;/postalCode&gt;     &lt;/addr&gt;   &lt;/receivedOrganization&gt;   &lt;/intendedRecipient&gt; &lt;/informationRecipient&gt;                 </pre>

Item	DT	Card	Conf	Description	Label
h17:informationRecipient		0 ... *			(Inf...ent)
└ h17:templateId	II	1 ... 1	M		(Inf...ent)
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.3.3.1.4	

h17:intendedRecipient		1 ... 1	R		(Inf...ent)
h17:id	II	0 ... *	R		(Inf...ent)
h17:addr	AD	1 ... *			(Inf...ent)
h17:telecom	TEL	1 ... *			(Inf...ent)
h17:informationRecipient		0 ... 1		Contains 1.3.6.1.4.1.19376.1.3.10.9.18 <i>PlayingEntity or person with Name</i> (DYNAMIC)	(Inf...ent)
h17:receivedOrganization		0 ... 1		Contains 1.3.6.1.4.1.19376.1.3.10.9.13 <i>Organization with Name, Addr, Telecom</i> (DYNAMIC)	(Inf...ent)

**<Ordering Provider> - Child Element Content Module - 1.3.6.1.4.1.19376.1.3.3.1.6**

<b>Id</b>	1.3.6.1.4.1.19376.1.3.3.1.6 <span style="background-color: #e0e0ff; padding: 2px;">ref XDLAB-</span>	<b>Effective Date</b>	2008-08-08
<b>Status</b>	<span style="color: green;">●</span> Active	<b>Version Label</b>	2017
<b>Name</b>	OrderingProvider	<b>Display Name</b>	Ordering Provider

**Description**

ClinicalDocument/participant(s) MAY be present. When present, this element SHALL be in accordance with the HL7 CDA R2 standard with a time element and further constrained by this specification to require the presence of name, addr and telecom. In particular, when the ordering provider of the order (or group of orders) fulfilled by this laboratory report is present in the CDA, it SHALL be documented as a participant with the attribute typeCode valued "REF" (referrer). Additionally, the ordering provider SHALL have the following:

- <templatedId root="1.3.6.1.4.1.19376.1.3.3.1.6"/> - The templatedId element identifies this participant as an ordering physician. The templatedId SHALL have root="1.3.6.1.4.1.19376.1.3.3.1.6".






See also IHE PCC Wiki Content

<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.3.1.6									
<b>Classification</b>	CDA Header Level Template									
<b>Open/Closed</b>	Open (other than defined elements are allowed)									
<b>Associated with</b>	<p>Associated with 2 concepts</p> <table border="1"> <thead> <tr> <th>Id</th> <th>Name</th> <th>Data Set</th> </tr> </thead> <tbody> <tr> <td>psr-dataelement-48</td> <td>Ordering Physician</td> <td>APSR 2.0</td> </tr> <tr> <td>psr-dataelement-78</td> <td>Clinician</td> <td>APSR 2.0</td> </tr> </tbody> </table>	Id	Name	Data Set	psr-dataelement-48	Ordering Physician	APSR 2.0	psr-dataelement-78	Clinician	APSR 2.0
Id	Name	Data Set								
psr-dataelement-48	Ordering Physician	APSR 2.0								
psr-dataelement-78	Clinician	APSR 2.0								
<b>Relationship</b>	Specialization: template 2.16.840.1.113883.10.12.108 (2005-09-07)									
<b>Example</b>	<p>Ordering Provider Example</p> <pre> &lt;participant typeCode="REF"&gt;   &lt;time value="20080123211000.007-0500"/&gt;   &lt;associatedEntity&gt;     &lt;id extension="1" root="1.3.6.1.4.1.19376.1.3.4"/&gt;     &lt;addr&gt;       &lt;streetAddressLine&gt;21 North Ave&lt;/streetAddressLine&gt;       &lt;city&gt;Burlington&lt;/city&gt;     &lt;/addr&gt;     &lt;telecom value="tel:(999)555-1212" use="DIR"/&gt;     &lt;associatedPerson&gt;       &lt;name&gt;         &lt;given&gt;Good&lt;/given&gt;         &lt;family&gt;Orderer&lt;/family&gt;       &lt;/name&gt;     &lt;/associatedPerson&gt;     &lt;scopingOrganization&gt;       &lt;id extension="rm83747" root="1.3.6.1.4.1.19376.1.3.4"/&gt;       &lt;name&gt;Hospital&lt;/name&gt;       &lt;telecom nullFlavor="UNK"/&gt;       &lt;addr nullFlavor="UNK"/&gt;     &lt;/scopingOrganization&gt;     &lt;/associatedEntity&gt;   &lt;/participant&gt; </pre>									

Example

Referral Ordering Physician Example

```
<participant typeCode="REF">
  <templateId root="1.3.6.1.4.1.19376.1.3.3.1.6"/>
  <time>
    <low value="20071104055700.0000-0500"/>
    <high value="20071104131600.0000-0500"/>
  </time>
  <associatedEntity classCode="PROV">
    <id extension="90573" root="1.3.6.1.4.1.19376.1.3.4"/>
    <addr nullFlavor="UNK"/>
    <telecom nullFlavor="UNK"/>
    <associatedPerson>
      <name>
        <family>Patel</family>
        <given>Kiran</given>
        <prefix>Dr.</prefix>
      </name>
    </associatedPerson>
    <scopingOrganization>
      <id extension="rm83747" root="1.3.6.1.4.1.19376.1.3.4"/>
      <name>Hospital</name>
      <telecom nullFlavor="UNK"/>
      <addr nullFlavor="UNK"/>
    </scopingOrganization>
  </associatedEntity>
</participant>
```

Item	DT	Card	Conf	Description	Label
h17:participant				Referral Ordering Physician	(Ord...der)
<div style="border: 1px solid green; background-color: #e0ffe0; padding: 5px;"> <p>  psr-dataelement-48 <span style="margin-left: 100px;"> Ordering Physician</span> <span style="margin-left: 100px;"> APSR 2.0</span>            psr-dataelement-78 <span style="margin-left: 100px;"> Clinician</span> <span style="margin-left: 100px;"> APSR 2.0</span> </p> </div>					
└ @typeCode	CS	1 ... 1	F	REF	
└ h17:templateId	II	1 ... 1			(Ord...der)
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.3.3.1.6	



└ h17:time	IVL_TS	1 ... 1	R	This element represents the date and time the order was placed. Time MAY be present.	(Ord...der)
└ h17:associatedEntity		1 ... 1			(Ord...der)
└ h17:addr	AD	1 ... *	R	The address of this person (referral ordering physician) SHALL be present.	(Ord...der)
└ h17:telecom	TEL	1 ... *	R	The telecom of this person (referral ordering physician) SHALL be present.	(Ord...der)
	Schematron assert	role	● error		
		test	not(h17:assignedPerson) or h17:assignedPerson/h17:name		
		Message	The <name> sub-element SHALL be present when <assignedPerson> present.		
└ h17:associatedPerson		0 ... 1	R		(Ord...der)
└ h17:scopingOrganization		0 ... 1			(Ord...der)

<Laboratory Performer> - Child Element Content Module - 1.3.6.1.4.1.19376.1.3.3.1.7

<b>Id</b>	1.3.6.1.4.1.19376.1.3.3.1.7 <span>ref XDLAB-</span>	<b>Effective Date</b>	2008-08-08
<b>Status</b>	● Active	<b>Version Label</b>	2017
<b>Name</b>	LaboratoryPerformer	<b>Display Name</b>	Laboratory Performer
<b>Description</b>			

Laboratory Performers SHALL be recorded as performers in the CDA Header as well as in the structured body as demonstrated in the figure below. Documentation of laboratory

performers MAY be done in multiple levels of the document to reflect performance scope. In the case where there is a single Laboratory Performer, this entity SHALL be documented in CDA header as shown. In the case where multiple Laboratory Performers participated in the lab testing process, they SHALL be documented in the structuredBody at the observation level.

These performers SHALL conform to the General Constraints found in HL7 CRS: 2.1.1 with respect to the requirements for name, address, telephone numbers and other contact information.

This module is out of the XDS-Lab Specification and documented there in a <performer> element. This module does not change requirements stated in that specification but is structured as a module to ensure consistent content representation and re-usability.

The figure below shows how the information for this element is coded, and further constraints are provided in the following sections.

<b>Context</b>	Sibling nodes of template element with id 1.3.6.1.4.1.19376.1.3.3.1.7
<b>Classification</b>	CDA Header Level Template CDA Entry Level Template
<b>Open/Closed</b>	Open (other than defined elements are allowed)
<b>Relationship</b>	Specialization: template 2.16.840.1.113883.10.12.320 (2005-09-07)
<b>Example</b>	<div style="background-color: #ffffcc; padding: 5px;">Laboratory Performer at Service Event Level (Header)</div> <pre> &lt;serviceEvent&gt;   &lt;!-- .. --&gt;   &lt;performer typeCode="PRF"&gt;     &lt;templateId root="1.3.6.1.4.1.19376.1.3.3.1.7"/&gt;     &lt;assignedEntity&gt;       &lt;id extension="kd83736" root="1.3.6.1.4.1.19376.1.3.4"/&gt;       &lt;addr&gt;         &lt;streetAddressLine&gt;7000 Hosptial Drive&lt;/streetAddressLine&gt;         &lt;city&gt;Chicago&lt;/city&gt;         &lt;state&gt;IL&lt;/state&gt;         &lt;postalCode&gt;60622&lt;/postalCode&gt;         &lt;country&gt;USA&lt;/country&gt;       &lt;/addr&gt;       &lt;telecom value="tel:312-555-5555"/&gt;       &lt;assignedPerson&gt;         &lt;name&gt;           &lt;family&gt;Dawson&lt;/family&gt;           &lt;given&gt;Kim&lt;/given&gt;           &lt;prefix&gt;Dr.&lt;/prefix&gt;         &lt;/name&gt;       &lt;/assignedPerson&gt;     &lt;/assignedEntity&gt;   &lt;/performer&gt; &lt;/serviceEvent&gt; </pre>

	<pre> &lt;/assignedPerson&gt; &lt;representedOrganization&gt;   &lt;id extension="9875" root="1.3.6.1.4.1.19376.1.3.4"/&gt;   &lt;name&gt;PRF Hospital Laboratory&lt;/name&gt;   &lt;telecom value="tel:312-555-5555"/&gt;   &lt;addr&gt;     &lt;streetAddressLine&gt;7000 Hosptial Drive&lt;/streetAddressLine&gt;     &lt;city&gt;Chicago&lt;/city&gt;     &lt;state&gt;IL&lt;/state&gt;     &lt;postalCode&gt;60622&lt;/postalCode&gt;     &lt;country&gt;USA&lt;/country&gt;   &lt;/addr&gt; &lt;/representedOrganization&gt; &lt;/assignedEntity&gt; &lt;/performer&gt; &lt;/serviceEvent&gt; </pre>
<p>Example</p>	<p style="background-color: #ffffcc; padding: 5px;"><b>Laboratory Performer at Observation Level (Body)</b></p> <pre> &lt;observation&gt;   &lt;!-- .. --&gt;   &lt;performer typeCode="PRF"&gt;     &lt;templateId root="1.3.6.1.4.1.19376.1.3.3.1.7"/&gt;     &lt;assignedEntity&gt;       &lt;id extension="rm83747" root="1.3.6.1.4.1.19376.1.3.4"/&gt;       &lt;addr&gt;         &lt;streetAddressLine&gt;7000 Hosptial Drive&lt;/streetAddressLine&gt;         &lt;city&gt;Chicago&lt;/city&gt;         &lt;state&gt;IL&lt;/state&gt;         &lt;postalCode&gt;60622&lt;/postalCode&gt;         &lt;country&gt;USA&lt;/country&gt;       &lt;/addr&gt;       &lt;telecom value="tel:312-555-5555"/&gt;       &lt;assignedPerson&gt;         &lt;name&gt;           &lt;family&gt;Trenton&lt;/family&gt;           &lt;given&gt;Douglas&lt;/given&gt;           &lt;prefix&gt;Dr.&lt;/prefix&gt;         &lt;/name&gt;       &lt;/assignedPerson&gt;       &lt;representedOrganization&gt;         &lt;id extension="rm83747" root="1.3.6.1.4.1.19376.1.3.4"/&gt;         &lt;name&gt;PRF Hospital Laboratory&lt;/name&gt;         &lt;telecom value="tel:312-555-5555"/&gt;         &lt;addr&gt;           &lt;streetAddressLine&gt;7000 Hosptial Drive&lt;/streetAddressLine&gt;           &lt;city&gt;Chicago&lt;/city&gt;           &lt;state&gt;IL&lt;/state&gt;           &lt;postalCode&gt;60622&lt;/postalCode&gt;           &lt;country&gt;USA&lt;/country&gt;         &lt;/addr&gt;       &lt;/representedOrganization&gt; </pre>

</assignedEntity> </performer> </observation>					
Item	DT	Card	Conf	Description	Label
@typeCode	CS	0 ... 1	F	PRF	
h17:templateId	II	1 ... 1	M		(Lab...mer)
└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.3.3.1.7	
h17:time	IVL_TS	1 ... 1	R	The element SHALL be present and SHALL represent the point in time of laboratory performance.	(Lab...mer)
h17:assignedEntity		1 ... 1			(Lab...mer)
└ @classCode	CS	0 ... 1	F	ASSIGNED	
└ h17:id	II	1 ... *	R	Unique identifier of this person/organization (lab performer) in the affinity domain SHALL be present.	(Lab...mer)
└ h17:code	CE	0 ... 1	R		(Lab...mer)
└ h17:addr	AD	1 ... *	R	The address of this person/organization (lab performer) SHALL be present.	(Lab...mer)
└ h17:telecom	TEL	1 ... *	R	The telecom of this person/organization (lab performer) SHALL be present.	(Lab...mer)
└ h17:assignedPerson		0 ... 1	R		(Lab...mer)
└ h17:representedOrganization		0 ... 1	R		(Lab...mer)

Schematron assert	role	<span style="color: red;">●</span> error
	test	hl7:assignedPerson/hl7:name or hl7:representedOrganization/hl7:name
	Message	Either an <assignedPerson> or a <representedOrganization> SHALL be present. In either case, the <name> sub-element SHALL be present.

### <Legal Authenticator> - Child Element Content Module - 1.3.6.1.4.1.19376.1.3.10.2.4

<b>Id</b>	1.3.6.1.4.1.19376.1.3.10.2.4 <span style="background-color: #d8bfd8; padding: 2px;">ref XDLAB-</span>	<b>Effective Date</b>	2016-07-05
<b>Status</b>	<span style="color: green;">●</span> Active	<b>Version Label</b>	2017
<b>Name</b>	IHEHeaderLegalAuthenticator	<b>Display Name</b>	XD-LAB LegalAuthenticator

#### Description


The ClinicalDocument/legalAuthenticator MAY be present. When present, it SHALL be in accordance with the HL7 CDA R2 standard and further constrained by this specification to require the presence of name, addr and telecom. This element carries the person who has legally authenticated the report, and the organization represented by this person. The sub-element time carries the date&time this legal authentication took place. The sub-element signatureCode carries the “signed” (S) status

If this entity happens also to be one of the validators of the laboratory results in the report, it SHALL also be documented as a validator.

<b>Classification</b>	CDA Header Level Template			
<b>Open/Closed</b>	Open (other than defined elements are allowed)			
<b>Uses</b>	Uses 2 templates			
	<b>Uses</b>	<b>as</b>	<b>Name</b>	<b>Version</b>
	1.3.6.1.4.1.19376.1.3.10.9.18	Containment	<span style="color: green;">●</span> PlayingEntity or person with Name (2017)	DYNAMIC
1.3.6.1.4.1.19376.1.3.10.9.13	Containment	<span style="color: green;">●</span> Organization with Name, Addr, Telecom (2017)	DYNAMIC	

Relationship Specialization: template 2.16.840.1.113883.10.12.106 (2005-09-07)

Item	DT	Card	Conf	Description	Label
h17:legalAuthenticator		0 ... 1			(IHE...tor)
└ h17:time	TS	1 ... 1	R	The sub-element time carries the date&time this legal authentication took place.	(IHE...tor)
└ h17:signatureCode	CS	1 ... 1	R	The sub-element signatureCode carries the "signed" (S) status	(IHE...tor)
└ @code	CONF	0 ... 1	F	S	
└ h17:assignedEntity		1 ... 1	R	All persons (including the patient) and organizations mentioned in the document SHALL provide elements name, addr and telecom.	(IHE...tor)
└ h17:addr	AD	1 ... *	R	Constrained by this specification to require the presence of name, addr and telecom.	(IHE...tor)
└ h17:telecom	TEL	1 ... *	R	Constrained by this specification to require the presence of name, addr and telecom.	(IHE...tor)
└ h17:assignedPerson		0 ... 1		All persons (including the patient) and organizations mentioned in the document SHALL provide elements name, addr and telecom.  Contains 1.3.6.1.4.1.19376.1.3.10.9.18 <i>PlayingEntity</i> or <i>person with Name</i>	(IHE...tor)

			(DYNAMIC)	
 h17:representedOrganization		0 ... 1	All persons (including the patient) and organizations mentioned in the document SHALL provide elements name, addr and telecom.  Contains 1.3.6.1.4.1.19376.1.3.10.9.13 Organization with Name, Addr, Telecom (DYNAMIC)	(IHE...tor)

**<Comment> - Child Element Content Module - 1.3.6.1.4.1.19376.1.5.3.1.4.2**

<b>Id</b>	1.3.6.1.4.1.19376.1.5.3.1.4.2 <small>ref IHE-PCC-</small>	<b>Effective Date</b>	2013-12-20 Other versions this id: ▪ <input type="radio"/> AnnotationComment as of 2008-08-08
<b>Status</b>	 Active	<b>Version Label</b>	2014
<b>Name</b>	IHECommentEntry	<b>Display Name</b>	IHE Comment Entry

**Description**

This entry allows for a comment to be supplied with each entry. For CDA this structure is usually included in the target act using the <entryRelationship> element defined in the CDA Schema, but can also be used in the <component> element when the comment appears within an <organizer>. The example below shows recording a comment for an <entry>, and is used as context for the following sections. For HL7 Version 3 Messages, this relationship is represented with the element <sourceOf>, although the remainder of the typecodes and semantics are unchanged.

Any condition or allergy may be the subject of a comment.

<b>Context</b>	Parent nodes of template element with id 1.3.6.1.4.1.19376.1.5.3.1.4.2
<b>Classification</b>	CDA Entry Level Template
<b>Open/Closed</b>	Open (other than defined elements are allowed)

<b>Relationship</b>	Specialization: template 2.16.840.1.113883.10.20.1.40 (DYNAMIC)
<b>Example</b>	<p><b>Example</b></p> <pre> &lt;act classCode="ACT" moodCode="EVN"&gt;   &lt;templateId root="2.16.840.1.113883.10.20.1.40"/&gt;   &lt;templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.2"/&gt;   &lt;code code="48767-8" displayName="Annotation Comment" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/&gt;   &lt;text&gt;     &lt;reference value="#comment-2"/&gt;   &lt;/text&gt;   &lt;statusCode code="completed"/&gt;   &lt;author&gt;     &lt;time value=""/&gt;     &lt;assignedAuthor&gt;       &lt;id root="" extension=""/&gt;       &lt;addr/&gt;       &lt;telecom value="" use=""/&gt;       &lt;assignedPerson&gt;         &lt;name/&gt;       &lt;/assignedPerson&gt;       &lt;representedOrganization&gt;         &lt;name/&gt;       &lt;/representedOrganization&gt;     &lt;/assignedAuthor&gt;   &lt;/author&gt; &lt;/act&gt;                     </pre>

Item	DT	Card	Conf	Description	Label
h17:act			R		(IHE...try)
└ @classCode	CS	1 ... 1	F	ACT	
└ @moodCode	CS	1 ... 1	F	EVN	
└ h17:templateId	II	1 ... 1	M		(IHE...try)
└ @root	uid	1 ... 1	F	2.16.840.1.113883.10.20.1.40	
└ h17:templateId	II	1 ... 1	M		(IHE...try)



└ @root	uid	1 ... 1	F	1.3.6.1.4.1.19376.1.5.3.1.4.2	
└ h17:code	CD	1 ... 1	M		(IHE...try)
└ @code	CONF	1 ... 1	F	48767-8	
└ @codeSystem		1 ... 1	F	2.16.840.1.113883.6.1 (LOINC)	
└ h17:statusCode	CS	1 ... 1	M		(IHE...try)
└ @code	CONF	1 ... 1	F	completed	
└ h17:text	ED	1 ... 1	M		(IHE...try)
└ h17:reference	TEL	1 ... 1	M		(IHE...try)
└ h17:author		0 ... *			(IHE...try)
└ h17:time	TS	1 ... 1	M		(IHE...try)
└ h17:assignedAuthor		1 ... 1	M		(IHE...try)
└ h17:id	II	1 ... *	M		(IHE...try)
└ h17:addr	AD	1 ... *	M		(IHE...try)
└ h17:telecom	TEL	1 ... *	M		(IHE...try)

Choice		1 ... *	Elements to choose from:	
└ h17:assignedPerson		0 ... 1	R	(IHE...try)
└ h17:name	PN	1 ... *	R	(IHE...try)
└ h17:represented Organization		0 ... 1	R	(IHE...try)
└ h17:name	ON	1 ... *	R	(IHE...try)

## 6.4 Section not applicable

## 6.5 <APSR> Value Sets

There are both extensional and intensional value sets specifically used for APSR.

### 6.5.1 <Generic AP Observation Codes> <1.3.6.1.4.1.19376.1.3.11.11>


<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.11	<b>Effective Date</b>	2015-11-22 12:20:34
<b>Status</b>	🟡 Draft	<b>Version Label</b>	
<b>Name</b>	AP-Observation	<b>Display Name</b>	AP Observation
<b>Description</b>	Generic codes for AP Observations of all kind, including results of ancillary techniques (immunohistochemistry, in-situ-hybridization, other molecular methods)		
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**A valid code from one of the 12 code systems:**

Code System Name	Code System Id	Code System Version	Flexibility
<i>Logical Observation Identifier Names and Codes</i>	2.16.840.1.113883.6.1		DYNAMIC
<i>SNOMED Clinical Terms</i>	2.16.840.1.113883.6.96		DYNAMIC
<i>International Classification of Diseases for Oncology, version 3.</i>	2.16.840.1.113883.6.43.1		DYNAMIC
<i>ICD10</i>	2.16.840.1.113883.6.3		DYNAMIC
<i>TNM Edition8 UICC</i>	2.16.840.1.113883.15.16		DYNAMIC
<i>TNM Edition7 UICC</i>	2.16.840.1.113883.15.6		DYNAMIC
<i>TNM Edition6 UICC</i>	2.16.840.1.113883.15.7		DYNAMIC
<i>TNM Edition5 UICC</i>	2.16.840.1.113883.15.8		DYNAMIC
<i>Unified Code for Units of Measure</i>	2.16.840.1.113883.6.8		DYNAMIC
<i>Online Mendelian Inheritance in Man 1993</i>	2.16.840.1.113883.6.174		DYNAMIC
	1.2.276.0.76.3.1.131.1.5.1		DYNAMIC
	1.2.276.0.76.5.401		DYNAMIC

**6.5.2 <Problem type> <1.3.6.1.4.1.19376.1.3.11.7>**

<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.7	<b>Effective Date</b>	2016-07-11 09:52:19
<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	ProblemType	<b>Display Name</b>	Problem Type
<b>Description</b>	Values for the problem under investigation		
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**A valid code from the code system:**

Code System Name	Code System Id	Code System Version
ICD10	2.16.840.1.113883.6.3	


Or one of the following:

4 Source Code Systems
2.16.840.1.113883.6.3 - ICD10 - <a href="#">urn:oid:2.16.840.1.113883.6.3</a>
2.16.840.1.113883.6.96 - SNOMED Clinical Terms - <a href="#">urn:oid:2.16.840.1.113883.6.96</a>
2.16.840.1.113883.5.6 - ActClass - <a href="#">urn:oid:2.16.840.1.113883.5.6</a>
2.16.840.1.113883.5.1008 - Null Flavor - <a href="#">urn:oid:2.16.840.1.113883.5.1008</a>

Level/ Type	Code	Display Name	Code System
0-L	115597007	Description of specimen character (procedure)	SNOMED Clinical Terms
0-L	128462008	Secondary malignant neoplastic disease (disorder)	SNOMED Clinical Terms
0-L	367651003	Malignant neoplasm of primary, secondary, or uncertain origin (morphologic abnormality)	SNOMED Clinical Terms
0-L	SPCOBS	specimen observation	ActClass
0-L	3898006	Neoplasm, benign (morphologic abnormality)	SNOMED Clinical Terms
0-L	109355002	Carcinoma in situ (disorder)	SNOMED Clinical Terms
0-L	23583003	Inflammation (morphologic abnormality)	SNOMED Clinical Terms
0-L	33359002	Degeneration (morphologic abnormality)	SNOMED Clinical Terms
0-L	49601007	Disorder of cardiovascular system (disorder)	SNOMED Clinical Terms
0-L	ASKU	asked but unknown	Null Flavor

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

### 6.5.3 <Container Entity Class Type> <1.3.6.1.4.1.19376.1.3.11.8>


<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.8	<b>Effective Date</b>	2016-09-08 11:55:11
<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	ContainerEntityTypePaLM	<b>Display Name</b>	ContainerEntityTypePaLM
<b>Description</b>	Types of Containers and their additives in Anatomic Pathology		
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<b>2 Source Code Systems</b>	2.16.840.1.113883.6.96 - <i>SNOMED Clinical Terms</i> - <a href="urn:oid:2.16.840.1.113883.6.96">urn:oid:2.16.840.1.113883.6.96</a> 1.2.840.10008.2.16.4 - <i>DICOM Controlled Terminology</i> - <a href="urn:oid:1.2.840.10008.2.16.4">urn:oid:1.2.840.10008.2.16.4</a>		

Level/ Type	Code	Display Name	Code System
0-L	434746001	Specimen vial (physical object)	SNOMED Clinical Terms
0-L	434464009	Tissue cassette (physical object)	SNOMED Clinical Terms
0-L	434708008	Tissue cassette for microarray (physical object)	SNOMED Clinical Terms
0-L	433466003	Microscope slide (physical object)	SNOMED Clinical Terms
0-S	433453003	Specimen container component (physical object)	SNOMED Clinical Terms
1-S	430863003	Tissue embedding medium (substance)	SNOMED Clinical Terms
2-L	311731000	Paraffin wax (substance)	SNOMED Clinical Terms
2-L	433469005	Frozen section embedding medium (substance)	SNOMED Clinical Terms
2-L	61088005	Plastic (substance)	SNOMED Clinical Terms
2-L	10249006	Agar (substance)	SNOMED Clinical Terms
2-L	65345002	Epoxy resin (substance)	SNOMED Clinical Terms
2-L	427811002	Polymethyl methacrylate (substance)	SNOMED Clinical Terms

1-L	433472003	Microscope slide coverslip (physical object)	SNOMED Clinical Terms
1-L	430862008	Microscope slide mounting medium (substance)	SNOMED Clinical Terms
0-S	CID8101	Container type	DICOM Controlled Terminology
1-L	A-01024	Specimen vial	DICOM Controlled Terminology
1-L	A-0101B	Microscope slide	DICOM Controlled Terminology
1-L	A-01023	Specimen container	DICOM Controlled Terminology
1-L	A-01021	Electron microscopy grid	DICOM Controlled Terminology
1-L	A-01025	Specimen well	DICOM Controlled Terminology
0-S	CID8114	Fixatives	DICOM Controlled Terminology
0-S	CID8102	Container Component Types	DICOM Controlled Terminology
0-S	CID8115	Specimen Embedding Media	DICOM Controlled Terminology

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

#### 6.5.4 <Procedure (target) site> <1.3.6.1.4.1.19376.1.3.11.9>

<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.9	<b>Effective Date</b>	2016-06-01 18:46:15
<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	ProcedureSite	<b>Display Name</b>	Procedure Site
<b>Description</b>	Target sites of specimen processing procedures		
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<b>2 Source Code Systems</b>	2.16.840.1.113883.6.96 - SNOMED Clinical Terms - <a href="https://snomed.org/urn:oid:2.16.840.1.113883.6.96">urn:oid:2.16.840.1.113883.6.96</a>		

1.2.840.10008.2.16.4 - DICOM Controlled Terminology - [urn:oid:1.2.840.10008.2.16.4](https://nlp.nlm.nih.gov/urn/oid/1.2.840.10008.2.16.4)

Level/ Type	Code	Display Name	Code System	Description
0-L	309050000	Body substance sample	SNOMED Clinical Terms	all children of "Body substance sample"
0-L	309051001	Body fluid sample	SNOMED Clinical Terms	
0-S	430856003	Tissue section (specimen)	SNOMED Clinical Terms	
1-L	441652008	Formalin-fixed paraffin-embedded tissue specimen	SNOMED Clinical Terms	
1-L	16214131000119104	Frozen tissue section sample (specimen)	SNOMED Clinical Terms	
0-S	CID8103	Anatomic Pathology Specimen Types	DICOM Controlled Terminology	
1-L	G-843A	Gross specimen	DICOM Controlled Terminology	
1-L	G-843B	Core sample of tissue block	DICOM Controlled Terminology	
1-L	G-843C	Tissue spot	DICOM Controlled Terminology	
1-L	G-803C	Smear sample	DICOM Controlled Terminology	
1-L	T-1A404	Touch preparation cytologic material	DICOM Controlled Terminology	
1-L	T-1A403	Liquid based cytologic material	DICOM Controlled Terminology	
1-L	G-8003	Aspirate	DICOM Controlled Terminology	
0-L	48469005	Cytologic material (specimen)	SNOMED Clinical Terms	

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

### 6.5.5 <Specimen collection and processing> <1.3.6.1.4.1.19376.1.3.11.10>

<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.10	<b>Effective Date</b>	2016-05-31 15:09:59
<b>Status</b>	 Draft	<b>Version Label</b>	

<b>Name</b>	SpecimenCollectionAndProcessing	<b>Display Name</b>	Specimen Collection and Processing
<b>Description</b>	Mixed Value set for Specimen collection and Processing		
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<b>5 Source Code Systems</b>	2.16.840.1.113883.5.6 - <i>ActClass</i> - <a href="#">urn:oid:2.16.840.1.113883.5.6</a> 2.16.840.1.113883.6.96 - <i>SNOMED Clinical Terms</i> - <a href="#">urn:oid:2.16.840.1.113883.6.96</a> 1.2.276.0.76.5.464 - <a href="#">urn:oid:1.2.276.0.76.5.464</a> 1.2.840.10008.2.16.4 - <i>DICOM Controlled Terminology</i> - <a href="#">urn:oid:1.2.840.10008.2.16.4</a> 2.16.840.1.113883.6.4 - <i>International Classification of Diseases, 10th Revision, Procedure Coding System (ICD-10-PCS)</i> - <a href="#">urn:oid:2.16.840.1.113883.6.4</a>		

Level/ Type	Code	Display Name	Code System	Designations
0-S	SPECCOLLECT	Specimen collection	ActClass	
1-L	17636008	Specimen collection (procedure)	SNOMED Clinical Terms	
2-L	48635004	Fine needle biopsy (procedure)	SNOMED Clinical Terms	
2-S	86273004	Biopsy (procedure)	SNOMED Clinical Terms	
3-L	439336003	Brush biopsy (procedure)	SNOMED Clinical Terms	
3-L	53767003	Endoscopic biopsy (procedure)	SNOMED Clinical Terms	
3-L	8889005	Excisional biopsy (procedure)	SNOMED Clinical Terms	
3-S	277590007	Imaging guided biopsy (procedure)	SNOMED Clinical Terms	
4-L	442787002	Fine needle aspiration biopsy using imaging guidance (procedure)	SNOMED Clinical Terms	



*IHE Pathology and Laboratory Medicine (PaLM) Technical Framework Supplement - Anatomic Pathology Structured Report (APSR)*

4-L	277592004	Magnetic resonance imaging guided biopsy (procedure)	SNOMED Clinical Terms
4-L	277667006	Ultrasound guided biopsy (procedure)	SNOMED Clinical Terms
4-L	277666002	X-ray guided biopsy (procedure)	SNOMED Clinical Terms
3-L	45681003	Staging operation involving incision, exploration and biopsy (procedure)	SNOMED Clinical Terms
3-L	70871006	Incisional biopsy (procedure)	SNOMED Clinical Terms
3-L	129249002	Needle biopsy (procedure)	SNOMED Clinical Terms
3-L	119283008	Open biopsy (procedure)	SNOMED Clinical Terms
3-L	68660007	Punch biopsy (procedure)	SNOMED Clinical Terms
3-L	72342005	Shave biopsy (procedure)	SNOMED Clinical Terms
3-L	274330002	Surgical biopsy (procedure)	SNOMED Clinical Terms
3-L	50590007	Trephine biopsy (procedure)	SNOMED Clinical Terms
2-S	65801008	Excision (procedure)	SNOMED Clinical Terms
3-L	81723002	Amputation (procedure)	SNOMED Clinical Terms
3-L	86743009	Local excision (procedure)	SNOMED Clinical Terms
3-L	125571002	Lobectomy (procedure)	SNOMED Clinical Terms
3-L	26007001	Hemi-excision	SNOMED Clinical Terms

		(procedure)	
3-L	38829003	Partial excision (procedure)	SNOMED Clinical Terms
3-L	89540006	Segmental excision and ligation (procedure)	SNOMED Clinical Terms
3-L	65854006	Reexcision (procedure)	SNOMED Clinical Terms
3-S	62141006	Radical excision (procedure)	SNOMED Clinical Terms
4-L	88088007	Radical excision with lymph node dissection (procedure)	SNOMED Clinical Terms
3-L	79095000	Complete excision of organ (procedure)	SNOMED Clinical Terms
3-L	370612006	Excision of neoplasm (procedure)	SNOMED Clinical Terms
3-L	20418004	Wedge resection (procedure)	SNOMED Clinical Terms
2-L	56757003	Scraping (procedure)	SNOMED Clinical Terms
1-L	1-40...1-49	Biopsies without incision	1.2.276.0.76.5.464
1-L	1-50...1-58	Biopsies with incision	1.2.276.0.76.5.464
1-L	5-01...5-09	Surgical measures	1.2.276.0.76.5.464
1-L	1-10...1-99	Diagnostic measures	1.2.276.0.76.5.464
1-S	CID8109	all children of Specimen Collection Procedure	DICOM Controlled Terminology
1-S	00...0Y	all children of 0	International Classification of Diseases, 10th Revision, Procedure Coding System (ICD-10-PCS)
0-S	SPCTRT	Specimen treatment	ActClass
1-S	CID8110	all children of Specimen Sampling Procedures	DICOM Controlled Terminology

1-S	CID8111	all children of Specimen Preparation Procedure	DICOM Controlled Terminology
1-S	CID8112	all children of Specimen Stains	DICOM Controlled Terminology
1-S	CID8113	all children of Specimen Preparation Steps	DICOM Controlled Terminology
1-S	CID8114	all children of Specimen Fixatives	DICOM Controlled Terminology
1-S	9265001	Specimen processing (procedure)	SNOMED Clinical Terms
2-L	430854000	Touch preparation of specimen (procedure)	SNOMED Clinical Terms
2-L	448938001	Preparation of smear (procedure)	SNOMED Clinical Terms
2-L	77896007	Cytopathology procedure, cell block and smear preparation (procedure)	SNOMED Clinical Terms
2-L	4064007	Specimen aliquoting (procedure)	SNOMED Clinical Terms
2-L	8378006	Trimming (procedure)	SNOMED Clinical Terms
2-L	73373003	Specimen centrifugation (procedure)	SNOMED Clinical Terms
2-L	27872000	Specimen freezing (procedure)	SNOMED Clinical Terms
2-L	104166004	Nucleic acid molecular isolation or extraction method (procedure)	SNOMED Clinical Terms
2-S	13283003	Tissue processing technique (procedure)	SNOMED Clinical Terms
3-L	27204007	Tissue frozen section technique, complete (procedure)	SNOMED Clinical Terms

3-L	40923002	Tissue processing technique, routine, embed, cut and stain, per surgical specimen (procedure)	SNOMED Clinical Terms
4-L	434472006	Sectioning of tissue block (procedure)	SNOMED Clinical Terms
4-L	434475008	Step sectioning of tissue block (procedure)	SNOMED Clinical Terms
4-L	434474007	Surface recutting of tissue block (procedure)	SNOMED Clinical Terms
4-L	434479002	Core sampling of tissue block (procedure)	SNOMED Clinical Terms
4-L	433454009	Microdissection of tissue specimen using laser (procedure)	SNOMED Clinical Terms
4-L	702941008	Paraffin embedding (qualifier value)	SNOMED Clinical Terms
2-S	127790008	Staining method (procedure)	SNOMED Clinical Terms
3-L	406792001	Acid phosphatase stain method (procedure)	SNOMED Clinical Terms
3-L	406901007	Neutrophil alkaline phosphatase stain method (procedure)	SNOMED Clinical Terms
3-L	406902000	New fuchsin stain method (procedure)	SNOMED Clinical Terms
3-L	406903005	Nile blue stain method (procedure)	SNOMED Clinical Terms
3-L	406904004	Nitrazine yellow stain	SNOMED Clinical Terms

		method (procedure)	
3-L	117229004	Nonspecific esterase stain method (procedure)	SNOMED Clinical Terms
3-L	406905003	Nuclear fast red stain method (procedure)	SNOMED Clinical Terms
3-L	406906002	Orange G stain method (procedure)	SNOMED Clinical Terms
3-L	406907006	Orange II stain method (procedure)	SNOMED Clinical Terms
3-L	406908001	Page blue 83 stain method (procedure)	SNOMED Clinical Terms
3-L	406909009	Page blue G-90 stain method (procedure)	SNOMED Clinical Terms
3-L	406910004	Patent blue V sodium salt stain method (procedure)	SNOMED Clinical Terms
3-L	406911000	Permethrin stain method (procedure)	SNOMED Clinical Terms
3-L	406912007	Phloxin B stain method (procedure)	SNOMED Clinical Terms
3-L	406913002	Ponceau 3R stain method (procedure)	SNOMED Clinical Terms
3-L	406914008	Ponceau S stain method (procedure)	SNOMED Clinical Terms
3-L	406915009	Ponceau xyloidine stain method (procedure)	SNOMED Clinical Terms
3-L	406916005	Pontamine sky blue 5BX stain method (procedure)	SNOMED Clinical Terms
3-L	406900008	Naphthol yellow S stain method (procedure)	SNOMED Clinical Terms

3-L	406899003	Naphthol green B stain method (procedure)	SNOMED Clinical Terms
3-L	406898006	Naphthalene black 12B stain method (procedure)	SNOMED Clinical Terms
3-L	117306005	Lawson-Van Gieson stain method (procedure)	SNOMED Clinical Terms
3-L	406875003	Leishman stain method (procedure)	SNOMED Clinical Terms
3-L	406876002	Light green SF stain method (procedure)	SNOMED Clinical Terms
3-L	406877006	Lissamine fast red B stain method (procedure)	SNOMED Clinical Terms
3-L	406878001	Lissamine fast yellow stain method (procedure)	SNOMED Clinical Terms
3-L	406880007	Lissamine rhodamine stain method (procedure)	SNOMED Clinical Terms
3-L	398507009	Malachite green stain method (procedure)	SNOMED Clinical Terms
3-L	117218003	Mallory bleach stain method (procedure)	SNOMED Clinical Terms
3-L	406890004	Martius yellow stain method (procedure)	SNOMED Clinical Terms
3-L	406891000	Meldola blue stain method (procedure)	SNOMED Clinical Terms
3-L	406892007	Metanil yellow stain method (procedure)	SNOMED Clinical Terms
3-L	406893002	Methyl blue stain method (procedure)	SNOMED Clinical Terms

3-L	406894008	Methyl orange stain method (procedure)	SNOMED Clinical Terms
3-L	406895009	Methyl red stain method (procedure)	SNOMED Clinical Terms
3-L	406896005	Methylene blue stain method (procedure)	SNOMED Clinical Terms
3-L	406897001	Methylene violet stain (Bernthsen) method (procedure)	SNOMED Clinical Terms
3-L	37926009	Microbial stain method (procedure)	SNOMED Clinical Terms
3-L	406917001	Pontamine sky blue 6BX stain method (procedure)	SNOMED Clinical Terms
3-L	406918006	Procion brilliant blue MRS stain method (procedure)	SNOMED Clinical Terms
3-L	117326009	Quinacrine fluorescent stain method (procedure)	SNOMED Clinical Terms
3-L	406936006	Sudan blue stain method (procedure)	SNOMED Clinical Terms
3-L	406937002	Sunset yellow FCF stain method (procedure)	SNOMED Clinical Terms
3-L	117031001	Supravital stain method (procedure)	SNOMED Clinical Terms
3-L	406938007	Tartrazine stain method (procedure)	SNOMED Clinical Terms
3-L	406939004	Thioflavine T stain method (procedure)	SNOMED Clinical Terms
3-L	406940002	Thionine stain method (procedure)	SNOMED Clinical Terms

3-L	406941003	Titan yellow stain method (procedure)	SNOMED Clinical Terms
3-L	406942005	Tropaeolin O stain method (procedure)	SNOMED Clinical Terms
3-L	406943000	Tropaeolin OO stain method (procedure)	SNOMED Clinical Terms
3-L	406944006	Trypan blue stain method (procedure)	SNOMED Clinical Terms
3-L	406945007	Vital new red stain method (procedure)	SNOMED Clinical Terms
3-L	104249006	Vital stain method (procedure)	SNOMED Clinical Terms
3-L	406946008	Water soluble aniline blue stain method (procedure)	SNOMED Clinical Terms
3-L	406948009	Water soluble anthracene brown stain method (procedure)	SNOMED Clinical Terms
3-L	406947004	Water soluble nigrosine stain method (procedure)	SNOMED Clinical Terms
3-L	406949001	Waxoline blue stain method (procedure)	SNOMED Clinical Terms
3-L	406950001	Xylene cyanol FF stain method (procedure)	SNOMED Clinical Terms
3-L	406934009	Sudan black stain method (procedure)	SNOMED Clinical Terms
3-L	406935005	Sudan black B stain method (procedure)	SNOMED Clinical Terms
3-L	117030000	Sudan IV stain method (procedure)	SNOMED Clinical Terms
3-L	406919003	Romanowsky stain	SNOMED Clinical Terms



		method (procedure)	
3-L	406920009	Rose bengal stain method (procedure)	SNOMED Clinical Terms
3-L	406921008	Rosolic acid sodium salt stain method (procedure)	SNOMED Clinical Terms
3-L	406922001	Saffron stain method (procedure)	SNOMED Clinical Terms
3-L	117330007	Schmorl stain method (procedure)	SNOMED Clinical Terms
3-L	117041003	Silver stain method (procedure)	SNOMED Clinical Terms
3-L	406924000	Sirius red F3B stain method (procedure)	SNOMED Clinical Terms
3-L	406925004	Solochrome azurine (BS) stain method (procedure)	SNOMED Clinical Terms
3-L	406926003	Solochrome black 6B stain method (procedure)	SNOMED Clinical Terms
3-L	406927007	Solochrome cyanine R stain method (procedure)	SNOMED Clinical Terms
3-L	406928002	Solochrome dark blue stain method (procedure)	SNOMED Clinical Terms
3-L	406929005	Soluble berlin blue stain method (procedure)	SNOMED Clinical Terms
3-L	406930000	Spirit soluble aniline blue stain method (procedure)	SNOMED Clinical Terms
3-L	406931001	Spirit soluble eosin stain method	SNOMED Clinical Terms

		(procedure)	
3-L	406932008	Spore stain method (procedure)	SNOMED Clinical Terms
3-L	406933003	Sudan II stain method (procedure)	SNOMED Clinical Terms
3-L	117029005	Sudan III stain method (procedure)	SNOMED Clinical Terms
3-L	406874004	Lacmoid stain method (procedure)	SNOMED Clinical Terms
3-L	406873005	Kenacid blue R stain method (procedure)	SNOMED Clinical Terms
3-L	406818007	Bismark brown Y stain method (procedure)	SNOMED Clinical Terms
3-L	406819004	Blue shade eosin stain method (procedure)	SNOMED Clinical Terms
3-L	406820005	Brazilin stain method (procedure)	SNOMED Clinical Terms
3-L	406821009	Brilliant cresyl blue stain method (procedure)	SNOMED Clinical Terms
3-L	406822002	Brilliant crocein stain method (procedure)	SNOMED Clinical Terms
3-L	406823007	Brilliant orange stain method (procedure)	SNOMED Clinical Terms
3-L	406824001	Brilliant yellow stain method (procedure)	SNOMED Clinical Terms
3-L	77281003	Calcofluor white stain (procedure)	SNOMED Clinical Terms
3-L	406825000	Carminic acid stain method (procedure)	SNOMED Clinical Terms
3-L	406826004	Carmoisine A stain method (procedure)	SNOMED Clinical Terms

3-L	406827008	Celestine blue B stain method (procedure)	SNOMED Clinical Terms
3-L	406828003	Chloroacetate esterase stain method (procedure)	SNOMED Clinical Terms
3-L	406830001	Chromotrope 2R stain method (procedure)	SNOMED Clinical Terms
3-L	406831002	Chrysoidine R stain method (procedure)	SNOMED Clinical Terms
3-L	406832009	Chrysoidine Y stain method (procedure)	SNOMED Clinical Terms
3-L	406833004	Cochineal stain method (procedure)	SNOMED Clinical Terms
3-L	117055006	Congo red stain method (procedure)	SNOMED Clinical Terms
3-L	406817002	Bismark brown R stain method (procedure)	SNOMED Clinical Terms
3-L	406816006	Biebrich scarlet stain method (procedure)	SNOMED Clinical Terms
3-L	406815005	Beta-glucuronidase stain method (procedure)	SNOMED Clinical Terms
3-L	406793006	Albert's stain method (procedure)	SNOMED Clinical Terms
3-L	117036006	Alcian blue stain method (procedure)	SNOMED Clinical Terms
3-L	406794000	Alcohol soluble nigrosine stain method (procedure)	SNOMED Clinical Terms
3-L	406795004	Alizarin blue S stain method (procedure)	SNOMED Clinical Terms
3-L	406796003	Alizarin cyanine green	SNOMED Clinical Terms

		stain method (procedure)	
3-L	406797007	Alizarin red S stain method (procedure)	SNOMED Clinical Terms
3-L	406798002	Alizarin yellow GG stain method (procedure)	SNOMED Clinical Terms
3-L	406799005	Alizarin yellow R stain method (procedure)	SNOMED Clinical Terms
3-L	406800009	Auramine stain method (procedure)	SNOMED Clinical Terms
3-L	406801008	Azo black stain method (procedure)	SNOMED Clinical Terms
3-L	406802001	Azocarmine G (GX) stain method (procedure)	SNOMED Clinical Terms
3-L	406803006	Azophloxin stain method (procedure)	SNOMED Clinical Terms
3-L	406804000	Azorubin S stain method (procedure)	SNOMED Clinical Terms
3-L	406811001	Azure A stain method (procedure)	SNOMED Clinical Terms
3-L	406812008	Azure B stain method (procedure)	SNOMED Clinical Terms
3-L	406813003	Azure C stain method (procedure)	SNOMED Clinical Terms
3-L	406814009	Benzo fast scarlet stain method (procedure)	SNOMED Clinical Terms
3-L	406835006	Crystal ponceau stain method (procedure)	SNOMED Clinical Terms
3-L	406836007	Curcumin stain method (procedure)	SNOMED Clinical Terms
3-L	117298004	Cytopathology staining	SNOMED Clinical Terms

		method (procedure)	
3-L	406857004	Flagellar stain method (procedure)	SNOMED Clinical Terms
3-L	406858009	Fluorescent stain method (procedure)	SNOMED Clinical Terms
3-L	406863008	Fuchsin acid stain method (procedure)	SNOMED Clinical Terms
3-L	117047004	Fuchsin basic stain method (procedure)	SNOMED Clinical Terms
3-L	20543007	Fungus stain method (procedure)	SNOMED Clinical Terms
3-L	406864002	Gallocyanine stain method (procedure)	SNOMED Clinical Terms
3-L	422329009	Hall's bilirubin stain (procedure)	SNOMED Clinical Terms
3-L	406865001	Hematein stain method (procedure)	SNOMED Clinical Terms
3-L	108256005	Hematology staining procedure (procedure)	SNOMED Clinical Terms
3-L	406867009	Immunofluorescent stain method (procedure)	SNOMED Clinical Terms
3-L	406868004	Indigo carmine stain method (procedure)	SNOMED Clinical Terms
3-L	406869007	Indophenol from naphthol stain method (procedure)	SNOMED Clinical Terms
3-L	406870008	Insoluble berlin blue stain method (procedure)	SNOMED Clinical Terms
3-L	406871007	Janus green B stain method (procedure)	SNOMED Clinical Terms

3-L	406872000	Jenner-Giemsa stain method (procedure)	SNOMED Clinical Terms
3-L	406856008	Field's stain method (procedure)	SNOMED Clinical Terms
3-L	406855007	Feulgen reaction stain method (procedure)	SNOMED Clinical Terms
3-L	406854006	Fat red 7B stain method (procedure)	SNOMED Clinical Terms
3-L	406837003	Diamond black stain method (procedure)	SNOMED Clinical Terms
3-L	406838008	Durazol red stain method (procedure)	SNOMED Clinical Terms
3-L	406839000	Erie garnet stain method (procedure)	SNOMED Clinical Terms
3-L	406840003	Eriochrome blue black SE stain method (procedure)	SNOMED Clinical Terms
3-L	406841004	Erythrosin B stain method (procedure)	SNOMED Clinical Terms
3-L	406842006	Erythrosin Y stain method (procedure)	SNOMED Clinical Terms
3-L	406843001	Evans blue stain method (procedure)	SNOMED Clinical Terms
3-L	406844007	Fast blue B salt stain method (procedure)	SNOMED Clinical Terms
3-L	406845008	Fast blue BB salt stain method (procedure)	SNOMED Clinical Terms
3-L	406846009	Fast blue RR salt stain method (procedure)	SNOMED Clinical Terms
3-L	406847000	Fast garnet GBC salt stain method (procedure)	SNOMED Clinical Terms

3-L	406848005	Fast green FCF stain method (procedure)	SNOMED Clinical Terms
3-L	406849002	Fast red B salt stain method (procedure)	SNOMED Clinical Terms
3-L	406850002	Fast red ITR stain method (procedure)	SNOMED Clinical Terms
3-L	406851003	Fast red TR salt stain method (procedure)	SNOMED Clinical Terms
3-L	406852005	Fast sulfon black F stain method (procedure)	SNOMED Clinical Terms
3-L	406853000	Fast violet B salt stain method (procedure)	SNOMED Clinical Terms
3-L	406979008	Ziehl-Neelsen stain method (procedure)	SNOMED Clinical Terms
3-S	104210008	Hematoxylin and eosin stain method (procedure)	SNOMED Clinical Terms
4-L	117239005	Harris regressive hematoxylin and eosin stain method (procedure)	SNOMED Clinical Terms
4-L	117240007	Mayers progressive hematoxylin and eosin stain method (procedure)	SNOMED Clinical Terms
3-L	80246006	Special stain, blood or bone marrow, explain by report (procedure)	SNOMED Clinical Terms
3-L	117617002	Immunohistochemistry procedure (procedure)	SNOMED Clinical Terms
3-L	384715000	Nucleic acid hybridization procedure (procedure)	SNOMED Clinical Terms

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

### 6.5.6 <UICC/AJCC stage> <1.3.6.1.4.1.19376.1.3.11.46>

<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.46	<b>Effective Date</b>	2017-07-21 10:43:31
<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	UICCstage-8ed	<b>Display Name</b>	UICC Stage
<b>Description</b>	UICC Stages		
<b>3 Source Code Systems</b>	2.16.840.1.113883.15.6 - <i>TNM Edition7 UICC</i> - <a href="urn:oid:2.16.840.1.113883.15.6">urn:oid:2.16.840.1.113883.15.6</a> 2.16.840.1.113883.15.16 - <i>TNM Edition8 UICC</i> - <a href="urn:oid:2.16.840.1.113883.15.16">urn:oid:2.16.840.1.113883.15.16</a> 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> - <a href="urn:oid:2.16.840.1.113883.5.1008">urn:oid:2.16.840.1.113883.5.1008</a>		

Level/ Type	Code	Display Name	Code System	Description
0-L	okk	stage X	TNM Edition7 UICC	TX, N0, M0
0-S	0	stage 0	TNM Edition7 UICC	Tis N0 M0
1-L	0a	stage 0a	TNM Edition7 UICC	in C67 only
1-L	0is	stage 0is	TNM Edition7 UICC	in C67 only
0-S	I	stage I	TNM Edition7 UICC	organ dependent
2-L	IA1	stage IA1	TNM Edition7 UICC	organ dependent
2-L	IA2	stage IA2	TNM Edition7 UICC	organ dependent
1-S	IB	stage IB	TNM Edition7 UICC	organ dependent
2-L	IB1	stage IB1	TNM Edition7 UICC	organ dependent
2-L	IB2	stage IB2	TNM Edition7 UICC	organ dependent



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1-L	IC	stage IC	TNM Edition7 UICC	organ dependent
1-L	IS	stage IS	TNM Edition7 UICC	in C62 only
0-S	II	stage II	TNM Edition7 UICC	organ dependent
2-L	IIA	stage IIA	TNM Edition7 UICC	organ dependent
2-L	IIA1	stage IIA1	TNM Edition7 UICC	organ dependent
2-L	IIA2	stage IIA2	TNM Edition7 UICC	organ dependent
1-L	IIB	stage IIB	TNM Edition7 UICC	organ dependent
1-L	IIC	stage IIC	TNM Edition7 UICC	organ dependent
0-S	III	stage III	TNM Edition7 UICC	organ dependent
1-L	IIIA	stage IIIA	TNM Edition7 UICC	organ dependent
1-L	IIIB	stage IIIB	TNM Edition7 UICC	organ dependent
1-L	IIIC	stage IIIC	TNM Edition7 UICC	organ dependent
0-S	IV	stage IV	TNM Edition7 UICC	each T, each N, M1
1-L	IVA	stage IVA	TNM Edition7 UICC	organ dependent
1-L	IVB	stage IVB	TNM Edition7 UICC	organ dependent
1-L	IVC	stage IVC	TNM Edition7 UICC	organ dependent
0-S	0	stage 0	TNM Edition8 UICC	Tis N0 M0
1-L	0a	stage 0a	TNM Edition8 UICC	in C67 only
1-L	0is	stage 0is	TNM Edition8 UICC	in C67 only
0-S	I	stage I	TNM Edition8 UICC	organ dependent
1-S	IA	stage IA	TNM Edition8 UICC	
2-L	IA1	stage IA1	TNM Edition8 UICC	organ dependent


*IHE Pathology and Laboratory Medicine (PaLM) Technical Framework Supplement - Anatomic Pathology Structured Report (APSR)*

2-L	IA2	stage IA2	TNM Edition8 UICC	organ dependent
2-L	IA3	stage IA3	TNM Edition8 UICC	
1-S	IB	stage IB	TNM Edition8 UICC	organ dependent
2-L	IB1	stage IB1	TNM Edition8 UICC	organ dependent
2-L	IB2	stage IB2	TNM Edition8 UICC	organ dependent
1-L	IC	stage IC	TNM Edition8 UICC	organ dependent
1-L	IS	stage IS	TNM Edition8 UICC	in C62 only
0-S	II	stage II	TNM Edition8 UICC	organ dependent
1-S	IIA	stage IIA	TNM Edition7 UICC	organ dependent
2-L	IIA1	stage IIA1	TNM Edition8 UICC	organ dependent
2-L	IIA2	stage IIA2	TNM Edition8 UICC	organ dependent
1-L	IIB	stage IIB	TNM Edition8 UICC	organ dependent
1-L	IIC	stage IIC	TNM Edition8 UICC	organ dependent
0-S	III	stage III	TNM Edition8 UICC	organ dependent
1-S	IIIA	stage IIIA	TNM Edition8 UICC	organ dependent
2-L	IIIA1	stage IIIA1	TNM Edition8 UICC	
2-L	IIIA2	stage IIIA2	TNM Edition8 UICC	
1-L	IIIB	stage IIIB	TNM Edition8 UICC	organ dependent
1-S	IIIC	stage IIIC	TNM Edition8 UICC	organ dependent
2-L	IIIC1	stage IIIC1	TNM Edition8 UICC	
2-L	IIIC2	stage IIIC2	TNM Edition8 UICC	
0-S	IV	stage IV	TNM Edition8 UICC	each T, each N, M1

1-L	IVA	stage IVA	TNM Edition8 UICC	organ dependent
1-L	IVB	stage IVB	TNM Edition8 UICC	organ dependent
1-L	IVC	stage IVC	TNM Edition8 UICC	organ dependent
0-L	BulkyIIA	stage Bulky IIA	TNM Edition8 UICC	
0-L	BulkyIIB	stage Bulky IIB	TNM Edition8 UICC	
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0-L	ASKU	Asked, but unknown	Null Flavor	

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

### 6.5.7 <UICC/AJCC T category> <1.3.6.1.4.1.19376.1.3.11.43>

<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.43	<b>Effective Date</b>	2017-07-07 15:06:39
<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	UICC-t-value-8ed	<b>Display Name</b>	UICC T category
<b>Description</b>	T category in UICC/AJCC (TNM) 8th edition		
<b>3 Source Code Systems</b>	2.16.840.1.113883.15.6 - <i>TNM Edition7 UICC</i> - <a href="#">urn:oid:2.16.840.1.113883.15.6</a> 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> - <a href="#">urn:oid:2.16.840.1.113883.5.1008</a> 2.16.840.1.113883.15.16 - <i>TNM Edition8 UICC</i> - <a href="#">urn:oid:2.16.840.1.113883.15.16</a>		

Level/ Type	Code	Display Name	Code System
0-L	Ta	Ta	TNM Edition7 UICC
0-L	Tis	Tis	TNM Edition7 UICC
1-L	Tis(DCIS)	Tis(DCIS)	TNM Edition7 UICC
1-L	Tis(LCIS)	Tis(LCIS)	TNM Edition7 UICC

1-L	Tis(Paget)	Tis(Paget)	TNM Edition7 UICC
1-L	Tis(pu)	Tis(pu)	TNM Edition7 UICC
1-L	Tis(pd)	Tis(pd)	TNM Edition7 UICC
0-L	T0	T0	TNM Edition7 UICC
0-L	T1	T1	TNM Edition7 UICC
1-L	T1mi	T1mi	TNM Edition7 UICC
1-L	T1a	T1a	TNM Edition7 UICC
2-L	T1a1	T1a1	TNM Edition7 UICC
2-L	T1a2	T1a2	TNM Edition7 UICC
1-L	T1b	T1b	TNM Edition7 UICC
2-L	T1b1	T1b1	TNM Edition7 UICC
2-L	T1b2	T1b2	TNM Edition7 UICC
1-L	T1c	T1c	TNM Edition7 UICC
1-L	T1d	T1d	TNM Edition7 UICC
0-L	T2	T2	TNM Edition7 UICC
1-L	T2a	T2a	TNM Edition7 UICC
2-L	T2a1	T2a1	TNM Edition7 UICC
2-L	T2a2	T2a2	TNM Edition7 UICC
1-L	T2b	T2b	TNM Edition7 UICC
1-L	T2c	T2c	TNM Edition7 UICC
1-L	T2d	T2d	TNM Edition7 UICC
0-L	T3	T3	TNM Edition7 UICC
1-L	T3a	T3a	TNM Edition7 UICC
1-L	T3b	T3b	TNM Edition7 UICC

1-L	T3c	T3c	TNM Edition7 UICC
1-L	T3d	T3d	TNM Edition7 UICC
0-L	T4	T4	TNM Edition7 UICC
1-L	T4a	T4a	TNM Edition7 UICC
1-L	T4b	T4b	TNM Edition7 UICC
1-L	T4c	T4c	TNM Edition7 UICC
1-L	T4d	T4d	TNM Edition7 UICC
1-L	T4e	T4e	TNM Edition7 UICC
0-L	Tx	TX	TNM Edition7 UICC
0-L	Ta	Ta	TNM Edition8 UICC
0-L	Tis	Tis	TNM Edition8 UICC
1-L	Tis(LAMN)	Tis(LAMN)	TNM Edition8 UICC
1-L	Tis(DCIS)	Tis(DCIS)	TNM Edition8 UICC
1-L	Tis(LCIS)	Tis(LCIS)	TNM Edition8 UICC
1-L	Tis(Paget)	Tis(Paget)	TNM Edition8 UICC
1-L	Tis(pu)	Tis(pu)	TNM Edition8 UICC
1-L	Tis(pd)	Tis(pd)	TNM Edition8 UICC
0-L	T0	T0	TNM Edition8 UICC
0-L	T1	T1	TNM Edition8 UICC
1-L	T1mi	T1mi	TNM Edition8 UICC
1-L	T1a	T1a	TNM Edition8 UICC
2-L	T1a1	T1a1	TNM Edition8 UICC
2-L	T1a2	T1a2	TNM Edition8 UICC
1-L	T1b	T1b	TNM Edition8 UICC

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2-L	T1b1	T1b1	TNM Edition8 UICC
2-L	T1b2	T1b2	TNM Edition8 UICC
1-L	T1c	T1c	TNM Edition8 UICC
2-L	T1c1	T1c1	TNM Edition8 UICC
2-L	T1c2	T1c2	TNM Edition8 UICC
2-L	T1c3	T1c3	TNM Edition8 UICC
1-L	T1d	T1d	TNM Edition8 UICC
0-L	T2	T2	TNM Edition8 UICC
1-L	T2a	T2a	TNM Edition8 UICC
2-L	T2a1	T2a1	TNM Edition8 UICC
2-L	T2a2	T2a2	TNM Edition8 UICC
1-L	T2b	T2b	TNM Edition8 UICC
1-L	T2c	T2c	TNM Edition8 UICC
1-L	T2d	T2d	TNM Edition8 UICC
0-L	T3	T3	TNM Edition8 UICC
1-L	T3a	T3a	TNM Edition8 UICC
1-L	T3b	T3b	TNM Edition8 UICC
1-L	T3c	T3c	TNM Edition8 UICC
1-L	T3d	T3d	TNM Edition8 UICC
1-L	T3e	T3e	TNM Edition8 UICC
0-L	T4	T4	TNM Edition8 UICC
1-L	T4a	T4a	TNM Edition8 UICC
1-L	T4b	T4b	TNM Edition8 UICC
1-L	T4c	T4c	TNM Edition8 UICC

1-L	T4d	T4d	TNM Edition8 UICC
1-L	T4e	T4e	TNM Edition8 UICC
0-L	TX	TX	TNM Edition8 UICC
0-L	ASKU	Asked, but unknown	Null Flavor

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

### 6.5.8 <UICC/AJCC T category (SCT)> <1.3.6.1.4.1.19376.1.3.11.12>

<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.12	<b>Effective Date</b>	2014-05-13 15:52:43
<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	UICC-t-value5	<b>Display Name</b>	UICC T category (SCT)
<b>Description</b>	T-Value from UICC classification		
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<b>2 Source Code Systems</b>	2.16.840.1.113883.6.96 - SNOMED Clinical Terms - <a href="urn:oid:2.16.840.1.113883.6.96">urn:oid:2.16.840.1.113883.6.96</a> 2.16.840.1.113883.5.1008 - Null Flavor - <a href="urn:oid:2.16.840.1.113883.5.1008">urn:oid:2.16.840.1.113883.5.1008</a>		

Level/ Type	Code	Display Name	Code System
0-L	261663004	Tumor stage Ta (tumor staging)	SNOMED Clinical Terms
0-S	44401000	Tis category (finding)	SNOMED Clinical Terms
1-L	313145008	Tumor stage Tis pu (finding)	SNOMED Clinical Terms
1-L	313146009	Tumor stage Tis pd (finding)	SNOMED Clinical Terms
0-L	58790005	T0 category (finding)	SNOMED Clinical Terms

0-S	23351008	T1 category (finding)	SNOMED Clinical Terms
1-L	313108002	Tumor stage T1mic (finding)	SNOMED Clinical Terms
1-L	261646003	Tumor stage T1a (finding)	SNOMED Clinical Terms
2-L	261647007	Tumor stage T1a1 (finding)	SNOMED Clinical Terms
2-L	261648002	Tumor stage T1a2 (finding)	SNOMED Clinical Terms
1-L	261649005	Tumor stage T1b (finding)	SNOMED Clinical Terms
2-L	313110000	Tumor stage T1b1 (finding)	SNOMED Clinical Terms
2-L	313111001	Tumor stage T1b2 (finding)	SNOMED Clinical Terms
1-L	261650005	Tumor stage T1c (finding)	SNOMED Clinical Terms
0-S	67673008	T2 category (finding)	SNOMED Clinical Terms
1-L	261651009	Tumor stage T2a (finding)	SNOMED Clinical Terms
1-L	261652002	Tumor stage T2b (finding)	SNOMED Clinical Terms
1-L	261653007	Tumor stage T2c (finding)	SNOMED Clinical Terms
0-S	14410001	T3 category (finding)	SNOMED Clinical Terms
1-L	261654001	Tumor stage T3a (finding)	SNOMED Clinical Terms
1-L	261655000	Tumor stage T3b (finding)	SNOMED Clinical Terms
2-L	261656004	Tumor stage T3bi (finding)	SNOMED Clinical Terms
2-L	261657008	Tumor stage T3bii (finding)	SNOMED Clinical Terms
1-L	261658003	Tumor stage T3c (finding)	SNOMED Clinical Terms
0-S	65565005	T4 category (finding)	SNOMED Clinical Terms
1-L	261659006	Tumor stage T4a (finding)	SNOMED Clinical Terms
1-L	261660001	Tumor stage T4b (finding)	SNOMED Clinical Terms
1-L	261661002	Tumor stage T4c (finding)	SNOMED Clinical Terms
1-L	261662009	Tumor stage T4d (finding)	SNOMED Clinical Terms



0-L	67101007	TX category (finding)	SNOMED Clinical Terms
0-L	ASKU	Asked but unknown	Null Flavor

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

**6.5.9 <UICC/AJCC N category> <1.3.6.1.4.1.19376.1.3.11.44>**

<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.44	<b>Effective Date</b>	2017-07-21 10:00:53
<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	UICC_n_value_8ed	<b>Display Name</b>	UICC N category
<b>Description</b>	UICC N category, 8th edition		
<b>3 Source Code Systems</b>	2.16.840.1.113883.15.16 - <i>TNM Edition8 UICC</i> - <a href="#">urn:oid:2.16.840.1.113883.15.16</a> 2.16.840.1.113883.15.6 - <i>TNM Edition7 UICC</i> - <a href="#">urn:oid:2.16.840.1.113883.15.6</a> 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> - <a href="#">urn:oid:2.16.840.1.113883.5.1008</a>		

Level/ Type	Code	Display Name	Code System
0-L	N0	N0	TNM Edition8 UICC
0-L	N1	N1	TNM Edition8 UICC
1-L	N1a	N1a	TNM Edition8 UICC
1-L	N1b	N1b	TNM Edition8 UICC
1-L	N1c	N1c	TNM Edition8 UICC
0-L	N2	N2	TNM Edition8 UICC
1-L	N2a	N2a	TNM Edition8 UICC
1-L	N2b	N2b	TNM Edition8 UICC


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1-L	N2c	N2c	TNM Edition8 UICC
0-L	N3	N3	TNM Edition8 UICC
1-L	N3a	N3a	TNM Edition8 UICC
1-L	N3b	N3b	TNM Edition8 UICC
1-L	N3c	N3c	TNM Edition8 UICC
0-L	NX	Nx	TNM Edition8 UICC
0-L	N0	N0	TNM Edition7 UICC
0-L	N1	N1	TNM Edition7 UICC
1-L	N1mi	N1mi	TNM Edition7 UICC
1-L	N1a	N1a	TNM Edition7 UICC
1-L	N1b	N1b	TNM Edition7 UICC
1-L	N1c	N1c	TNM Edition7 UICC
0-L	N2	N2	TNM Edition7 UICC
1-L	N2mi	N2mi	TNM Edition7 UICC
1-L	N2a	N2a	TNM Edition7 UICC
1-L	N2b	N2b	TNM Edition7 UICC
1-L	N2c	N2c	TNM Edition7 UICC
0-L	N3	N3	TNM Edition7 UICC
1-L	N3mi	N3mi	TNM Edition7 UICC
1-L	N3a	N3a	TNM Edition7 UICC
1-L	N3b	N3b	TNM Edition7 UICC
1-L	N3c	N3c	TNM Edition7 UICC
0-L	NX	Nx	TNM Edition7 UICC

0-L	ASKU	Asked but unknown	Null Flavor
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Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

### 6.5.10 <UICC/AJCC N category (SCT)> <1.3.6.1.4.1.19376.1.3.11.13>


<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.13	<b>Effective Date</b>	2014-10-27 14:47:35
<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	UICC_N_values	<b>Display Name</b>	UICC N category (SCT)
<b>Description</b>	N-Value from UICC classification		
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<b>2 Source Code Systems</b>	2.16.840.1.113883.6.96 - <i>SNOMED Clinical Terms</i> - <a href="urn:oid:2.16.840.1.113883.6.96">urn:oid:2.16.840.1.113883.6.96</a> 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> - <a href="urn:oid:2.16.840.1.113883.5.1008">urn:oid:2.16.840.1.113883.5.1008</a>		

Level/ Type	Code	Display Name	Code System
0-L	62455006	N0 category (finding)	SNOMED Clinical Terms
0-L	53623008	N1 category (finding)	SNOMED Clinical Terms
1-L	277672002	Node stage N1a (finding)	SNOMED Clinical Terms
1-L	277674001	Node stage N1b (finding)	SNOMED Clinical Terms
2-L	277772008	Node stage N1bi (finding)	SNOMED Clinical Terms
2-L	277776006	Node stage N1bii (finding)	SNOMED Clinical Terms
2-L	277777002	Node stage N1biii (finding)	SNOMED Clinical Terms
2-L	277778007	Node stage N1biv (finding)	SNOMED Clinical Terms

1-L	369996002	N1c: >7 nodes involved (finding)	SNOMED Clinical Terms
0-L	46059003	N2 category (finding)	SNOMED Clinical Terms
1-L	261967001	Node stage N2a (finding)	SNOMED Clinical Terms
1-L	261968006	Node stage N2b (finding)	SNOMED Clinical Terms
1-L	261969003	Node stage N2c (finding)	SNOMED Clinical Terms
0-L	5856006	N3 category (finding)	SNOMED Clinical Terms
1-L	370012005	N3a: > 6 cm in dimension (finding)	SNOMED Clinical Terms
1-L	370013000	N3b: extension to supraclavicular fossa (finding)	SNOMED Clinical Terms
0-L	79420006	NX category (finding)	SNOMED Clinical Terms
<hr/>			
0-L	ASKU	Asked but unknown	Null Flavor

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

### 6.5.11 <UICC/AJCC M category> <1.3.6.1.4.1.19376.1.3.11.45>


<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.45	<b>Effective Date</b>	2017-07-21 10:31:38
<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	UICC-m-values-8ed	<b>Display Name</b>	UICC M category
<b>3 Source Code Systems</b>	2.16.840.1.113883.15.6 - <i>TNM Edition7 UICC</i> - <a href="#">urn:oid:2.16.840.1.113883.15.6</a> 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> - <a href="#">urn:oid:2.16.840.1.113883.5.1008</a> 2.16.840.1.113883.15.16 - <i>TNM Edition8 UICC</i> - <a href="#">urn:oid:2.16.840.1.113883.15.16</a>		
<b>Level/ Type</b>	<b>Code</b>	<b>Display Name</b>	<b>Code System</b>
0-L	M0	M0	TNM Edition7 UICC

0-L	M1	M1	TNM Edition7 UICC
1-L	M1mi	M1(mi)	TNM Edition7 UICC
1-L	M1a	M1a	TNM Edition7 UICC
1-L	M1b	M1b	TNM Edition7 UICC
1-L	M1c	M1c	TNM Edition7 UICC
1-L	M1d	M1d	TNM Edition7 UICC
1-L	M1e	M1e	TNM Edition7 UICC
1-L	M1cy	M1(cy)	TNM Edition7 UICC
0-L	MX	MX	TNM Edition7 UICC
0-L	M0	M0	TNM Edition8 UICC
0-L	M1	M1	TNM Edition8 UICC
1-L	M1a	M1a	TNM Edition8 UICC
1-L	M1b	M1b	TNM Edition8 UICC
1-L	M1c	M1c	TNM Edition8 UICC
1-L	M1d	M1d	TNM Edition8 UICC
1-L	M1cy	M1(cy)	TNM Edition8 UICC
0-L	MX	MX	TNM Edition8 UICC
0-L	ASKU	Asked but unknown	Null Flavor

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

### 6.5.12 <UICC/AJCC M category (SCT)> <1.3.6.1.4.1.19376.1.3.11.14>

Id	1.3.6.1.4.1.19376.1.3.11.14	Effective Date	2014-05-13 16:11:15
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<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	UICC-m-value	<b>Display Name</b>	UICC M category (SCT)
<b>Description</b>	M-Value from UICC classification		
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<b>2 Source Code Systems</b>	2.16.840.1.113883.6.96 - <i>SNOMED Clinical Terms</i> - <a href="#">urn:oid:2.16.840.1.113883.6.96</a> 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> - <a href="#">urn:oid:2.16.840.1.113883.5.1008</a>		

Level/ Type	Code	Display Name	Code System
0-L	30893008	M0 category (finding)	SNOMED Clinical Terms
0-L	55440008	M1 category (finding)	SNOMED Clinical Terms
1-L	261927002	Metastasis stage M1a (finding)	SNOMED Clinical Terms
1-L	261928007	Metastasis stage M1b (finding)	SNOMED Clinical Terms
1-L	261929004	Metastasis stage M1c (finding)	SNOMED Clinical Terms
0-L	27167007	MX category (finding)	SNOMED Clinical Terms
<hr/>			
0-L	ASKU	Asked but unknown	Null Flavor

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

### 6.5.13 <UICC/AJCC C-Factor> <1.3.6.1.4.1.19376.1.3.11.19>

This value set has values from TNM 7th edition only. There is no C-Factor in the 8th edition.


<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.19	<b>Effective Date</b>	2015-11-13 13:56:23
<b>Status</b>	 Draft	<b>Version Label</b>	

<b>Name</b>	uicc-c-factor-tnm	<b>Display Name</b>	UICC C-Factor
<b>Description</b>	Qualifier for any TNM category coding the certainty of classification by the methods used		
<b>Source Code System</b>	2.16.840.1.113883.15.6 - TNM Edition7 UICC - <a href="urn:oid:2.16.840.1.113883.15.6">urn:oid:2.16.840.1.113883.15.6</a>		

Level/ Type	Code	Display Name	Code System
0-L	C1	C1	TNM Edition7 UICC
0-L	C2	C2	TNM Edition7 UICC
0-L	C3	C3	TNM Edition7 UICC
0-L	C4	C4	TNM Edition7 UICC
0-L	C5	C5	TNM Edition7 UICC

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

### 6.5.14 <UICC/AJCC C-Factor (SCT)> <1.3.6.1.4.1.19376.1.3.11.20>


<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.20	<b>Effective Date</b>	2015-06-22 15:47:55
<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	uicc-c-factor	<b>Display Name</b>	UICC C-Factor (SCT)
<b>Description</b>	Qualifier for any TNM category coding the certainty of classification by the methods used		
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<b>Source Code System</b>	2.16.840.1.113883.6.96 - SNOMED Clinical Terms - <a href="urn:oid:2.16.840.1.113883.6.96">urn:oid:2.16.840.1.113883.6.96</a>		

Level/ Type	Code	Display Name	Code System
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0-L	84068000	C1 - TNM certainty factor	SNOMED Clinical Terms
0-L	76321005	C2 - TNM certainty factor	SNOMED Clinical Terms
0-L	44756004	C3 - TNM certainty factor	SNOMED Clinical Terms
0-L	75800005	C4 - TNM certainty factor	SNOMED Clinical Terms
0-L	59397002	C5 - TNM certainty factor	SNOMED Clinical Terms

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

### 6.5.15 <UICC/AJCC Residual tumor (R) classification> <1.3.6.1.4.1.19376.1.3.11.21>

<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.21	<b>Effective Date</b>	2015-06-25 11:23:51
<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	UICC-R-status	<b>Display Name</b>	UICC Residual tumor (R) classification
<b>Description</b>	Value set for Residual tumor state with values for extended R-Klassifikation (TNM Suppl. 4th ed.)		
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<b>5 Source Code Systems</b>	2.16.840.1.113883.6.96 - <i>SNOMED Clinical Terms</i> - <a href="#">urn:oid:2.16.840.1.113883.6.96</a> 2.16.840.1.113883.15.16 - <i>TNM Edition8 UICC</i> - <a href="#">urn:oid:2.16.840.1.113883.15.16</a> 2.16.840.1.113883.15.6 - <i>TNM Edition7 UICC</i> - <a href="#">urn:oid:2.16.840.1.113883.15.6</a> 1.2.276.0.76.3.1.131.1.5.120 - <a href="#">urn:oid:1.2.276.0.76.3.1.131.1.5.120</a> 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> - <a href="#">urn:oid:2.16.840.1.113883.5.1008</a>		

Level/ Type	Code	Display Name	Code System	Description
0-L	258254000	Residual tumor stage R0 (finding)	SNOMED Clinical Terms	
1-L	415675004	Surgical circumferential margin is closest uninvolved margin to malignant	SNOMED Clinical Terms	No residual tumor: R0 >




		neoplasm (finding)		1mm CRM negative
0-L	278271003	Residual tumor stage R1 (finding)	SNOMED Clinical Terms	
1-L	384620009	Surgical circumferential margin involved by malignant neoplasm (tumor present 0-1 mm from circumferential resection margin) (finding)	SNOMED Clinical Terms	
0-L	278272005	Residual tumor stage R2 (finding)	SNOMED Clinical Terms	
0-L	258253006	Residual tumor stage RX (finding)	SNOMED Clinical Terms	
0-L	RX	RX	TNM Edition8 UICC	
0-L	R0>1mm	R0 > 1mm	TNM Edition7 UICC	
0-L	R0<1mm	R0 < 1mm	TNM Edition7 UICC	
0-L	R1	R1	TNM Edition8 UICC	
1-L	R1-dir	R1-dir	TNM Edition7 UICC	
1-L	R1(is)	R1(is)	1.2.276.0.76.3.1.131.1.5.120	
1-L	R1(cy)	R1(cy)	1.2.276.0.76.3.1.131.1.5.120	
0-L	R2	R2	TNM Edition8 UICC	
1-L	R2a	R2a	TNM Edition7 UICC	
1-L	R2b	R2b	TNM Edition7 UICC	
1-L	R2c	R2c	TNM Edition7 UICC	
0-L	CRM+	CRM positive	TNM Edition7 UICC	
0-L	CRM-	CRM negative	TNM Edition7 UICC	
0-L	ASKU	Asked but unknown	Null Flavor	

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

### 6.5.16 <UICC/AJCC clinical/pathological> <1.3.6.1.4.1.19376.1.3.11.22>

This value set has values from TNM 8th edition. There is no difference to 7th edition.


<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.22	<b>Effective Date</b>	2015-11-04 15:52:34
<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	UICC-clinical-pathological	<b>Display Name</b>	UICC clinical/pathological
<b>Description</b>	Qualifiers for each TNM category classifying the observation method and the time frame of observation in relation to treatment		
<b>3 Source Code Systems</b>	2.16.840.1.113883.15.16 - <i>TNM Edition8 UICC</i> - <a href="urn:oid:2.16.840.1.113883.15.16">urn:oid:2.16.840.1.113883.15.16</a> 1.2.276.0.76.11.9 - <a href="urn:oid:1.2.276.0.76.11.9">urn:oid:1.2.276.0.76.11.9</a> 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> - <a href="urn:oid:2.16.840.1.113883.5.1008">urn:oid:2.16.840.1.113883.5.1008</a>		

Level/ Type	Code	Display Name	Code System	Description
0-L	p	p	TNM Edition8 UICC	The pathological assessment of the primary tumor entails a resection of the primary tumor or a biopsy adequate to evaluate the highest T category. The pathological assessment of the regional lymph nodes entails a removal of lymph nodes adequate to validate the absence of regional lymph node metastasis or sufficient to evaluate the highest pN category. The pathological assessment of distant metastasis entails microscopic examination.
0-L	c	c	TNM Edition8 UICC	The clinical classification is based on evidence acquired before treatment
1-L	u	u	1.2.276.0.76.11.9	The clinical classification is based on ultrasound evidence acquired before treatment
1-L	ct	ct	1.2.276.0.76.11.9	The clinical classification is based on CT imaging evidence acquired before treatment
1-L	mr	mr	1.2.276.0.76.11.9	The clinical classification is based on magnetic resonance imaging evidence acquired before treatment
0-L	ASKU	Asked but unknown	Null Flavor	

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

### 6.5.17 <UICC/AJCC Venous Invasion> <1.3.6.1.4.1.19376.1.3.11.23>

This value set has values from TNM 8th edition. There is no difference to 7th edition.


<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.23	<b>Effective Date</b>	2015-11-04 16:17:55
<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	UICC-vene-invasion	<b>Display Name</b>	UICC Venous Invasion
<b>Description</b>	Observation for tumor spread coding the degree of venous invasion		
<b>2 Source Code Systems</b>	2.16.840.1.113883.15.16 - <i>TNM Edition8 UICC</i> - <a href="urn:oid:2.16.840.1.113883.15.16">urn:oid:2.16.840.1.113883.15.16</a> 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> - <a href="urn:oid:2.16.840.1.113883.5.1008">urn:oid:2.16.840.1.113883.5.1008</a>		

Level/ Type	Code	Display Name	Code System
0-L	V0	V0	TNM Edition8 UICC
0-L	V1	V1	TNM Edition8 UICC
0-L	V2	V2	TNM Edition8 UICC
0-L	VX	VX	TNM Edition8 UICC
0-L	ASKU	Asked but unknown	Null Flavor

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

### 6.5.18 <UICC/AJCC Lymphatic Invasion> <1.3.6.1.4.1.19376.1.3.11.24>

This value set has values from TNM 8th edition. There is no difference to 7th edition.

<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.24	<b>Effective Date</b>	2015-11-04 16:19:20
<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	UICC-lymphatic-invasion	<b>Display Name</b>	UICC Lymphatic Invasion
<b>Description</b>	Observation for tumor spread coding the degree of lymphatic invasion		


<b>2 Source Code Systems</b>	2.16.840.1.113883.15.16 - TNM Edition8 UICC - <a href="#">urn:oid:2.16.840.1.113883.15.16</a>
	2.16.840.1.113883.5.1008 - Null Flavor - <a href="#">urn:oid:2.16.840.1.113883.5.1008</a>

Level/ Type	Code	Display Name	Code System
0-L	L0	L0	TNM Edition8 UICC
0-L	L1	L1	TNM Edition8 UICC
0-L	LX	LX	TNM Edition8 UICC
0-L	ASKU	Asked but unknown	Null Flavor

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

### 6.5.19 <UICC/AJCC Perineural Invasion> <1.3.6.1.4.1.19376.1.3.11.25>

This value set has values from TNM 8th edition. There is no difference to 7th edition.

<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.25	<b>Effective Date</b>	2015-11-04 16:20:42
<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	UICC-perineural-invasion	<b>Display Name</b>	UICC Perineural Invasion
<b>Description</b>	Observation for tumor spread coding the degree of perineural (lymphatic nerve sheet) invasion		
<b>2 Source Code Systems</b>	2.16.840.1.113883.15.16 - TNM Edition8 UICC - <a href="#">urn:oid:2.16.840.1.113883.15.16</a> 2.16.840.1.113883.5.1008 - Null Flavor - <a href="#">urn:oid:2.16.840.1.113883.5.1008</a>		

Level/ Type	Code	Display Name	Code System	Description
0-L	Pn0	Pn0	TNM Edition8 UICC	no perineural invasion
0-L	Pn1	Pn1	TNM Edition8 UICC	Perineural invasion
0-L	PnX	PnX	TNM Edition8 UICC	unknown
0-L	ASKU	Asked but unknown	Null Flavor	

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.


### 6.5.20 <UICC/AJCC Mucosa> <1.3.6.1.4.1.19376.1.3.11.26>

<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.26	<b>Effective Date</b>	2015-11-04 16:22:04
<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	UICC-mucosa	<b>Display Name</b>	UICC Mucosa
<b>Source Code System</b>	1.2.276.0.76.3.1.131.1.5.1 - <a href="#">urn:oid:1.2.276.0.76.3.1.131.1.5.1</a>		

Level/ Type	Code	Display Name	Code System	Description
0-L	m1	m1	1.2.276.0.76.3.1.131.1.5.1	restricted to mucosa, 1st third
0-L	m2	m2	1.2.276.0.76.3.1.131.1.5.1	restricted to mucosa, 2nd third
0-L	m3	m3	1.2.276.0.76.3.1.131.1.5.1	restricted to mucosa, 3rd third

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

**6.5.21 <UICC/AJCC Submucosa> <1.3.6.1.4.1.19376.1.3.11.27>**


<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.27	<b>Effective Date</b>	2015-11-04 16:23:24
<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	UICC-submucosa	<b>Display Name</b>	UICC Submucosa
<b>Source Code System</b>	1.2.276.0.76.3.1.131.1.5.1 - <a href="#">urn:oid:1.2.276.0.76.3.1.131.1.5.1</a>		

Level/ Type	Code	Display Name	Code System	Description
0-L	sm1	sm1	1.2.276.0.76.3.1.131.1.5.1	restricted to submucosa, 1st third
0-L	sm2	sm2	1.2.276.0.76.3.1.131.1.5.1	restricted to submucosa, 2nd third
0-L	sm3	sm3	1.2.276.0.76.3.1.131.1.5.1	restricted to submucosa, 3rd third

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

**6.5.22 <UICC/AJCC Localization of distant metastases> <1.3.6.1.4.1.19376.1.3.11.28>**

This value set has values from TNM 8th edition. There is no difference to 7th edition.

<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.28	<b>Effective Date</b>	2015-11-04 16:26:53
<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	UICC-distant-metastasis-localization	<b>Display Name</b>	UICC Localization of distant metastases
<b>Description</b>	Qualifier for M category coding the localization of distant metastasis in case of M1 or M2		
<b>Source Code System</b>	2.16.840.1.113883.15.16 - <i>TNM Edition8 UICC</i> - <a href="#">urn:oid:2.16.840.1.113883.15.16</a>		


Level/ Type	Code	Display Name	Code System
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0-L	PUL	PUL	TNM Edition8 UICC
0-L	OSS	OSS	TNM Edition8 UICC
0-L	HEP	HEP	TNM Edition8 UICC
0-L	BRA	BRA	TNM Edition8 UICC
0-L	LYM	LYM	TNM Edition8 UICC
0-L	OTH	OTH	TNM Edition8 UICC
0-L	MAR	MAR	TNM Edition8 UICC
0-L	PLE	PLE	TNM Edition8 UICC
0-L	PER	PER	TNM Edition8 UICC
0-L	ADR	ADR	TNM Edition8 UICC
0-L	SKI	SKI	TNM Edition8 UICC

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

### 6.5.23 <UICC/AJCC Grade 3 tiered> <1.3.6.1.4.1.19376.1.3.11.29>

This value set has values from TNM 8th edition. There is no difference to 7th edition.


<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.29	<b>Effective Date</b>	2015-11-13 19:36:21
<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	UICCgrade	<b>Display Name</b>	UICC Grade 3 tiered
<b>Description</b>	Coding of the grade of differentiation (malignancy) of tumors, coded by a four-, three-, or two-tiered grading system, often using the score of a special grading system for certain tumor types		
<b>2 Source Code Systems</b>	2.16.840.1.113883.15.16 - TNM Edition8 UICC - <a href="#">urn:oid:2.16.840.1.113883.15.16</a> 2.16.840.1.113883.5.1008 - Null Flavor - <a href="#">urn:oid:2.16.840.1.113883.5.1008</a>		

Level/ Type	Code	Display Name	Code System	Description
0-L	1	G1	TNM Edition8 UICC	grade 1, well (highly) differentiated
0-L	2	G2	TNM Edition8 UICC	grade 2, moderately differentiated
0-L	3	G3	TNM Edition8 UICC	grade 3, poorly differentiated
0-L	X	GX	TNM Edition8 UICC	cannot be assessed
<hr/>				
0-L	ASKU	Asked but unknown	Null Flavor	

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

### 6.5.24 <UICC/AJCC Grade 2 tiered> <1.3.6.1.4.1.19376.1.3.11.30>

This value set has values from TNM 8th edition. There is no difference to 7th edition.

<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.30	<b>Effective Date</b>	2015-11-13 19:43:09
<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	UICCgrade-2	<b>Display Name</b>	UICC Grade 2 tiered
<b>Description</b>	Coding of the grade of differentiation (malignancy) of tumors, coded by a two-tiered grading system, sometimes using the score of a special grading system for certain tumor types		
<b>2 Source Code Systems</b>	2.16.840.1.113883.15.16 - <i>TNM Edition8 UICC</i> - <a href="#">urn:oid:2.16.840.1.113883.15.16</a> 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> - <a href="#">urn:oid:2.16.840.1.113883.5.1008</a>		

Level/ Type	Code	Display Name	Code System	Description
0-L	L	IG	TNM Edition8 UICC	low grade, combining grade 1 and 2 (except urothelial tumors: only grade 1)
0-L	H	hG	TNM Edition8 UICC	low grade, combining grade 3 and 4 (except urothelial tumors: grade 2 through 4)
0-L	X	X	TNM Edition8 UICC	cannot be assessed




0-L	ASKU	Asked but unknown	Null Flavor
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Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

### 6.5.25 UICC/AJCC Grade 4 tiered <1.3.6.1.4.1.19376.1.3.11.31>

This value set has values from TNM 8th edition. There is no difference to 7th edition.

<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.31	<b>Effective Date</b>	2015-11-13 19:46:53
<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	UICCgrade-4	<b>Display Name</b>	UICC Grade 4 tiered
<b>Description</b>	Coding of the grade of differentiation (malignancy) of tumors, coded by a four-tiered grading system, sometimes using the score of a special grading system for certain tumor types.		
<b>3 Source Code Systems</b>	2.16.840.1.113883.15.16 - <i>TNM Edition8 UICC</i> - <a href="#">urn:oid:2.16.840.1.113883.15.16</a> 1.2.276.0.76.5.336 - <a href="#">urn:oid:1.2.276.0.76.5.336</a> 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> - <a href="#">urn:oid:2.16.840.1.113883.5.1008</a>		


Level/ Type	Code	Display Name	Code System	Description
0-L	1	G1	TNM Edition8 UICC	well (highly) differentiated
0-L	2	G2	TNM Edition8 UICC	moderately differentiated
0-L	3	G3	TNM Edition8 UICC	poorly differentiated
0-L	4	G4	TNM Edition8 UICC	undifferentiated resp. anaplastic
0-L	X	GX	TNM Edition8 UICC	cannot be assessed
0-L	0	0	1.2.276.0.76.5.336	Malignes Melanom der Konjunktiva
0-L	X	X	1.2.276.0.76.5.336	nicht bestimmbar
0-L	L	IG	1.2.276.0.76.5.336	Low grade (G1 oder G2)

0-L	M	mG	1.2.276.0.76.5.336	intermediate (G2 oder G3)
0-L	H	hG	1.2.276.0.76.5.336	high grade (G3 oder G4)
0-L	B	B	1.2.276.0.76.5.336	Borderline-Malignität
0-L	U	U	1.2.276.0.76.5.336	unbekannt
0-L	T	T	1.2.276.0.76.5.336	trifft nicht zu
<hr/>				
0-L	ASKU	Asked but unknown	Null Flavor	

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

### 6.5.26 <UICC/AJCC Tumor Serum Markers> <1.3.6.1.4.1.19376.1.3.11.32>

This value set has values from TNM 8th edition. There is no difference to 7th edition.


<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.32	<b>Effective Date</b>	2015-11-08 18:26:39
<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	UICCSerumTumorMarkers	<b>Display Name</b>	UICC Serum Tumor Markers
<b>Description</b>	Observation of serum levels of tumor markers coded for germ cell tumors		
<b>2 Source Code Systems</b>	2.16.840.1.113883.15.16 - <i>TNM Edition8 UICC</i> - <a href="#">urn:oid:2.16.840.1.113883.15.16</a> 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> - <a href="#">urn:oid:2.16.840.1.113883.5.1008</a>		

Level/ Type	Code	Display Name	Code System	Description
0-L	S0	S0	TNM Edition8 UICC	serum tumor markers within normal limits
0-L	S1	S1	TNM Edition8 UICC	LDH < 1,5* normal limit AND $\beta$ HCG< 5000mIU/ml AND AFP <1000 ng/ml
0-L	S2	S2	TNM Edition8 UICC	LDH 1,5 - 10* normal limit OR $\beta$ HCG 5000 - 50000 mIU/ml OR AFP 1000 - 10000 ng/ml

0-L	S3	S3	TNM Edition8 UICC	LDH >10* normal limit OR βHCG > 50000 mIU/ml OR AFP > 10000 ng/ml
0-L	SX	SX	TNM Edition8 UICC	No information about serum tumor markers
0-L	ASKU	Asked but unknown	Null Flavor	

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

### 6.5.27 <ICD-O-3 Morphology and Behavior> <1.3.6.1.4.1.19376.1.3.11.33>

<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.33	<b>Effective Date</b>	2015-11-13 14:08:46
<b>Status</b>	 Draft	<b>Version Label</b>	1st rev. (2013)
<b>Name</b>	icd-o-3-m	<b>Display Name</b>	ICD-O-3 Morphology
<b>Description</b>	<p>International classification of diseases / oncology, morphological part for typing of benign and malignant tumors. The morphology axis provides six-digit codes ranging from 8000/0 to 9989/3. The first four digits indicate the specific histological term, i.e. morphology (8000 through 9992). In developing the previous editions and the present edition of ICD-O, a particular effort was made to use the nomenclature appearing in the World Health Organization</p> <p>International Histological Classification of Tumours series (WHO “Blue Books”)</p> <p>This series covers all the principal sites of cancer and includes the morphology codes of ICD-O for each neoplasm. All new histological classifications or modifications have been made by the WHO / IARC in so-called “Blue Books” by 2011 are listed on-line: <a href="http://codes.iarc.fr/changes.php">http://codes.iarc.fr/changes.php</a>. The fifth digit after a slash (/) is the behavior code, which indicates whether a tumor is malignant, benign, in situ, or uncertain (whether benign or malignant). A separate, 6th, one-digit code may also be given for histologic 4-tiered grading (differentiation) or for the cell type in lymphatic neoplasia. The fifth and the sixth digit are coded separately in value sets 1.3.6.1.4.1.19376.1.3.11.34 and 1.3.6.1.4.1.19376.1.3.11.35</p>		

**A valid code from the code system:**

Code System Name	Code System Id	Code System Version
International Classification of Diseases for Oncology, version 3	2.16.840.1.113883.6.43.1	


Or one of the following:

<b>2 Source Code Systems</b>	2.16.840.1.113883.6.43.1 - <i>International Classification of Diseases for Oncology, version 3.</i> - <a href="#">urn:oid:2.16.840.1.113883.6.43.1</a>
	2.16.840.1.113883.5.1008 - <i>Null Flavor</i> - <a href="#">urn:oid:2.16.840.1.113883.5.1008</a>

Level/ Type	Code		Code System
0-L	ASKU	Asked but unknown	Null Flavor

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

### 6.5.28 <ICD-O-3 Behavior> <1.3.6.1.4.1.19376.1.3.11.34>


<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.34	<b>Effective Date</b>	2015-11-13 18:54:30
<b>Status</b>	 Draft	<b>Version Label</b>	1st rev. (2013)
<b>Name</b>	icd-o-3-behavior	<b>Display Name</b>	ICD-O-3 Behavior
<b>Description</b>	Coding of the behavior of a tumor, coded by the first digit after slash in ICD-O-Morphology code		
<b>2 Source Code Systems</b>	2.16.840.1.113883.6.43.1 - <i>International Classification of Diseases for Oncology, version 3.</i> - <a href="#">urn:oid:2.16.840.1.113883.6.43.1</a> 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> - <a href="#">urn:oid:2.16.840.1.113883.5.1008</a>		

Level/ Type	Code	Display Name	Code System	Description
0-L	0	/0	International Classification of Diseases for Oncology, version 3.	benign
0-L	1	/1	International Classification of Diseases for Oncology, version 3.	borderline malignancy or uncertain malignant potential
0-L	2	/2	International Classification of Diseases for Oncology, version 3.	noninvasiv resp. carcinoma in situ
0-L	3	/3	International Classification of Diseases for Oncology, version 3.	invasive resp. malignant primary tumor
0-L	6	/6	International Classification of Diseases for Oncology, version 3.	metastasis resp. secondary tumor, not used in German cancer registries

0-L	9	/9	International Classification of Diseases for Oncology, version 3.	malignant, uncertain whether primary or secondary tumor, not used in German cancer registries
0-L	ASKU	asked but unknown	Null Flavor	

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

### 6.5.29 <ICD-O-3 Differentiation> <1.3.6.1.4.1.19376.1.3.11.35>


<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.35	<b>Effective Date</b>	2015-11-13 19:07:32
<b>Status</b>	 Draft	<b>Version Label</b>	1st rev. (2013)
<b>Name</b>	icd-o-3-differentiation	<b>Display Name</b>	ICD-O-3 Differentiation
<b>Description</b>	Coding the cellular differentiation of malignant tumors, either the grade of malignancy (differentiation), or the cell line differentiation, coded by the second digit after the slash in ICD-O-3 Morphology axi		
<b>2 Source Code Systems</b>	2.16.840.1.113883.6.43.1 - <i>International Classification of Diseases for Oncology, version 3.</i> - <a href="#">urn:oid:2.16.840.1.113883.6.43.1</a> 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> - <a href="#">urn:oid:2.16.840.1.113883.5.1008</a>		

Level/ Type	Code	Display Name	Code System	Description
0-L	1	1	International Classification of Diseases for Oncology, version 3.	well (highly) differentiated
0-L	2	2	International Classification of Diseases for Oncology, version 3.	moderately differentiated
0-L	3	3	International Classification of Diseases for Oncology, version 3.	poorly differentiated
0-L	4	4	International Classification of Diseases for Oncology, version 3.	undifferentiated resp. anaplastic
0-L	5	5	International Classification of Diseases for Oncology, version 3.	T-cell differentiation in lymphomas and leukemias
0-L	6	6	International Classification of Diseases for Oncology, version 3.	B-cell differentiation, pre-B-cells, B-precursor cells in lymphomas and leukemias
0-L	7	7	International Classification of Diseases for Oncology, version 3.	Null-cell, non-B-nonT-cell differentiation in lymphomas and leukemias

0-L	8	8	International Classification of Diseases for Oncology, version 3.	NK (natural killer)-cell differentiation in lymphomas and leukemias
0-L	9	9	International Classification of Diseases for Oncology, version 3.	grading not applied, not applicable, unknown; cell type not assessed or unknown
0-L	ASKU	Asked but unknown	Null Flavor	

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

### 6.5.30 <ICD-O-3 Topography> <1.3.6.1.4.1.19376.1.3.11.36>

<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.36	<b>Effective Date</b>	2015-11-13 19:16:23
<b>Status</b>	 Draft	<b>Version Label</b>	1st rev. (2013)
<b>Name</b>	icd-o-3-topography	<b>Display Name</b>	ICD-O-3 Topography
<b>Description</b>	International classification of diseases / oncology, topographical part for typing of benign and malignant tumors. The topography axis (C-axis) uses the ICD-10 classification of malignant neoplasms (except those categories which relate to secondary neoplasms and to specified morphological types of tumours) for all types of tumours, thereby providing greater site detail for non-malignant tumours than is provided in ICD-10. In contrast to ICD-10, the ICD-O includes topography for sites of haematopoietic and reticuloendothelial tumors.		

**A valid code from the code system:**

Code System Name	Code System Id	Code System Version
International Classification of Diseases for Oncology, version 3.	2.16.840.1.113883.6.43.1	

**Or one of the following:**

<b>2 Source Code Systems</b>	2.16.840.1.113883.6.43.1 - International Classification of Diseases for Oncology, version 3. - <a href="urn:oid:2.16.840.1.113883.6.43.1">urn:oid:2.16.840.1.113883.6.43.1</a> 2.16.840.1.113883.5.1008 - Null Flavor - <a href="urn:oid:2.16.840.1.113883.5.1008">urn:oid:2.16.840.1.113883.5.1008</a>
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Level/ Type	Code	Code System
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0-L	ASKU	asked but unknown	Null Flavor
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Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

### 6.5.31 <UICC/AJCC Multiplicity> <1.3.6.1.4.1.19376.1.3.11.37>

This value set has values from TNM 8th edition. There is no difference to 7th edition.

<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.37	<b>Effective Date</b>	2015-11-06 10:44:54
<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	UICC-Multiplicity	<b>Display Name</b>	UICC Multiplicity
<b>2 Source Code Systems</b>	2.16.840.1.113883.15.16 - <i>TNM Edition8 UICC</i> - <a href="#">urn:oid:2.16.840.1.113883.15.16</a> 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> - <a href="#">urn:oid:2.16.840.1.113883.5.1008</a>		


Level/ Type	Code	Display Name	Code System	Description
0-L	m	(m)	TNM Edition8 UICC	Qualifier for T-category: multiple simultaneous tumors in one organ
0-L	2	(2)	TNM Edition8 UICC	Qualifier for T-category: two simultaneous tumors in one organ
0-L	3	(3)	TNM Edition8 UICC	Qualifier for T-category: three simultaneous tumors in one organ
0-L	4	(4)	TNM Edition8 UICC	Qualifier for T-category: four simultaneous tumors in one organ
0-L	5	(5)	TNM Edition8 UICC	Qualifier for T-category: five simultaneous tumors in one organ
0-L	6	(6)	TNM Edition8 UICC	Qualifier for T-category: six simultaneous tumors in one organ
0-L	7	(7)	TNM Edition8 UICC	Qualifier for T-category: seven simultaneous tumors in one organ
0-L	8	(8)	TNM Edition8 UICC	Qualifier for T-category: eight simultaneous tumors in one organ
0-L	9	(9)	TNM Edition8 UICC	Qualifier for T-category: nine simultaneous tumors in one organ<br clear="none"/>
0-L	10	(10)	TNM Edition8 UICC	Qualifier for T-category: ten simultaneous tumors in one organ<br clear="none"/>

0-L	ASKU	Asked but unknown	Null Flavor
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Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

### 6.5.32 <UICC/AJCC Isolated Tumor Cells> <1.3.6.1.4.1.19376.1.3.11.38>

This value set has values from TNM 8th edition. There is no difference to 7th edition.

<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.38	<b>Effective Date</b>	2017-03-13 09:48:35
<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	UICCITC	<b>Display Name</b>	UICC Isolated Tumor Cells
<b>Description</b>	Codes for isolated tumor cells, detected by immunohistochemical or molecular pathology methods in regional and non-regional lymph nodes, used in qualifiers for N- and M-category in TNM		
<b>2 Source Code Systems</b>	2.16.840.1.113883.15.16 - <i>TNM Edition8 UICC</i> - <a href="urn:oid:2.16.840.1.113883.15.16">urn:oid:2.16.840.1.113883.15.16</a> 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> - <a href="urn:oid:2.16.840.1.113883.5.1008">urn:oid:2.16.840.1.113883.5.1008</a>		


Level/ Type	Code	Display Name	Code System
0-L	i+	(i+)	TNM Edition8 UICC
0-L	i-	(i-)	TNM Edition8 UICC
0-L	mol+	(mol+)	TNM Edition8 UICC
0-L	mol-	(mol-)	TNM Edition8 UICC
0-L	ASKU	Asked but unknown	Null Flavor

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.



### 6.5.33 <UICC/AJCC Recurrence> <1.3.6.1.4.1.19376.1.3.11.39>

This value set has values from TNM 8th edition. There is no difference to 7th edition.


<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.39	<b>Effective Date</b>	2015-11-06 10:36:10
<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	UICC-Relapse	<b>Display Name</b>	UICC Recurrence
<b>Description</b>	Symbol for TNM: recurrent tumor after a disease-free interval after a curative treatment		
<b>2 Source Code Systems</b>	2.16.840.1.113883.15.16 - <i>TNM Edition8 UICC</i> - <a href="#">urn:oid:2.16.840.1.113883.15.16</a> 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> - <a href="#">urn:oid:2.16.840.1.113883.5.1008</a>		

Level/ Type	Code	Display Name	Code System	Description
0-L	r	r	TNM Edition8 UICC	Symbol for TNM: recurrent tumor after a disease-free interval after a curative treatment
0-L	ASKU	Asked but unknown	Null Flavor	

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

### 6.5.34 <UICC/AJCC Posttherapeutic> <1.3.6.1.4.1.19376.1.3.11.40>

This value set has values from TNM 8th edition. There is no difference to 7th edition.

<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.40	<b>Effective Date</b>	2015-11-06 10:39:53
<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	UICC-Posttherapeutic	<b>Display Name</b>	UICC Posttherapeutic
<b>Description</b>	Symbol for TNM: tumor after a multimodal (e.g. neo-adjuvant) therapy		


<b>2 Source Code Systems</b>	2.16.840.1.113883.15.16 - TNM Edition8 UICC - <a href="#">urn:oid:2.16.840.1.113883.15.16</a> 2.16.840.1.113883.5.1008 - Null Flavor - <a href="#">urn:oid:2.16.840.1.113883.5.1008</a>
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Level/ Type	Code	Display Name	Code System	Description
0-L	y	y	TNM Edition8 UICC	Symbol for TNM: tumor after a multimodal (e.g. neo-adjuvant) therapy
0-L	ASKU	Asked but unknown	Null Flavor	

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

### 6.5.35 <UICC/AJCC Autopsy> <1.3.6.1.4.1.19376.1.3.11.41>


This value set has values from TNM 8th edition. There is no difference to 7th edition.

<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.41	<b>Effective Date</b>	2015-11-18 15:55:17
<b>Status</b>	 Draft	<b>Version Label</b>	
<b>Name</b>	UICC-Autopsy	<b>Display Name</b>	UICC Autopsy
<b>Description</b>	Symbol for TNM: Has this tumor formula been derived first at autopsy?		
<b>2 Source Code Systems</b>	2.16.840.1.113883.15.16 - TNM Edition8 UICC - <a href="#">urn:oid:2.16.840.1.113883.15.16</a> 2.16.840.1.113883.5.1008 - Null Flavor - <a href="#">urn:oid:2.16.840.1.113883.5.1008</a>		

Level/ Type	Code	Display Name	Code System	Description
0-L	a	a	TNM Edition8 UICC	Symbol for TNM: Has this tumor formula been derived first at autopsy?
0-L	ASKU	Asked but unknown	Null Flavor	

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

**6.5.36 <Clinical Significance> <1.3.6.1.4.1.19376.1.3.11.47>**

<b>Id</b>	1.3.6.1.4.1.19376.1.3.11.47	<b>Effective Date</b>	2017-11-15 11:08:46
<b>Status</b>	 Draft	<b>Version Label</b>	2.0
<b>Name</b>	ClinicalSignificance	<b>Display Name</b>	Clinical Significance
<b>Description</b>	Value set for expressing different degrees of significance for clinical decisions in case a pathology report has been updated		
<b>Copyright</b>	This artefact includes content from SNOMED Clinical Terms® (SNOMED CT®) which is copyright of the International Health Terminology Standards Development Organisation (IHTSDO). Implementers of these artefacts must have the appropriate SNOMED CT Affiliate license - for more information contact <a href="http://www.snomed.org/snomed-ct/getsnomed-ct">http://www.snomed.org/snomed-ct/getsnomed-ct</a> or <a href="mailto:info@snomed.org">info@snomed.org</a> .		
<b>2 Source Code Systems</b>	2.16.840.1.113883.6.96 - <i>SNOMED Clinical Terms</i> - <a href="urn:oid:2.16.840.1.113883.6.96">urn:oid:2.16.840.1.113883.6.96</a> 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> - <a href="urn:oid:2.16.840.1.113883.5.1008">urn:oid:2.16.840.1.113883.5.1008</a>		

Level/ Type	Code	Display Name	Code System
0-L	371928007	Not significant (qualifier value)	SNOMED Clinical Terms
0-L	371925005	Most significant (qualifier value)	SNOMED Clinical Terms
0-L	371927002	Moderately significant (qualifier value)	SNOMED Clinical Terms
0-L	386134007	Significant (qualifier value)	SNOMED Clinical Terms
0-L	386135008	Significance undetermined (qualifier value)	SNOMED Clinical Terms
0-L	371926006	Highly significant (qualifier value)	SNOMED Clinical Terms
0-L	ASKU	Asked but unknown	Null Flavor

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

## References

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1. CDA is the registered trademark of Health Level Seven International.
2. Goldsmith, J.D., et al., "Reporting guidelines for clinical laboratory reports in surgical pathology" *Arch Pathol Lab Med*, 2008. 132(10): p. 1608-16
3. [http://www.cap.org/web/oracle/webcenter/portalapp/pagehierarchy/cancer\\_protocol\\_templates.jspx?\\_adf.ctrl-state=e1f4ltym4\\_4&\\_afrLoop=275425457234715#!](http://www.cap.org/web/oracle/webcenter/portalapp/pagehierarchy/cancer_protocol_templates.jspx?_adf.ctrl-state=e1f4ltym4_4&_afrLoop=275425457234715#!)
4. <http://www.sfpathol.org>
5. <http://www.e-cancer.fr>
6. HL7 is the registered trademark of Health Level Seven International.
7. DICOM is the registered trademark of the National Electrical Manufacturers Association for its standards publications relating to digital communications of medical information.
8. DICOM controlled vocabulary <http://nema.org/dicom/dicm>]
9. UICC TNM <http://www.uicc.org/resources/tnm>
10. OMIM Johns Hopkins University School of Medicine <http://www.omim.org>
11. Coding Schemes German Cancer Society <http://wiki.hl7.de/index.php?title=cdaonk:OID-Konzept>
12. HL7 DAM Specimen Release 1 [http://www.hl7.org/implement/standards/product\\_brief.cfm?product\\_id=394](http://www.hl7.org/implement/standards/product_brief.cfm?product_id=394)