



Integrating the Healthcare Enterprise



IHE Pathology and Laboratory Medicine Technical Framework Supplement

Anatomic Pathology Structured Report (APSR)

Rev 2.0 - Draft for Public Comment

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Author: IHE PaLM Technical Committee

Email: palm@ihe.net

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Foreword

This is a supplement to the IHE Pathology and Laboratory Medicine Technical Framework V8.0. Each supplement undergoes a process of public comment and trial implementation before being incorporated into the volumes of the Technical Frameworks.

This supplement is published on September 27, 2017 for Public Comment. Comments are invited and may be submitted at [http://www.ihe.net/Pathology_and_Laboratory_Medicine_\(PaLM\)/Pathology_and_Laboratory_Medicine_\(PaLM\)comments.cfm](http://www.ihe.net/Pathology_and_Laboratory_Medicine_(PaLM)/Pathology_and_Laboratory_Medicine_(PaLM)comments.cfm). In order to be considered in development of the Trial Implementation version of the supplement, comments must be received by October 27, 2017.

This supplement describes changes to the existing technical framework documents.

“Boxed” instructions like the sample below indicate to the Volume Editor how to integrate the relevant section(s) into the relevant Technical Framework volume.

Replace Section X.X by the following:

Where the amendment adds text, make the added text **bold underline**. Where the amendment removes text, make the removed text **bold strikethrough**. When entire new sections are added, introduce with editor’s instructions to “add new text” or similar, which for readability are not bolded or underlined.

General information about IHE can be found at: <http://www.ihe.net>.

Information about the IHE Pathology and Laboratory Medicine domain can be found at: http://ihe.net/IHE_Domains.

Information about the structure of IHE Technical Frameworks and Supplements can be found at: http://ihe.net/IHE_Process and <http://ihe.net/Profiles>.

The current version of the IHE Technical Framework (if applicable) can be found at: http://ihe.net/Technical_Frameworks.

Comments may be submitted on IHE Technical Framework templates any time at <http://ihe.net/ihe-templates.cfm>. Please enter comments/issues as soon as they are found. Do not wait until a future review cycle is announced.

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Introduction to this Supplement

This supplement complements volume 1 of the PaLM technical framework with the description of the APSR 2.0 content profile, and volume 3 with the bindings, content modules and value sets, which specify this profile.

Open Issues and Questions

None yet

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 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

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.^[1] 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^[2], and by the “comptes rendus d’anatomopathologie : données minimales à renseigner pour une tumeur primitive” produced by the French society of pathology (SFP^[3]) for the French cancer institute (INCa^[4]), 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 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.

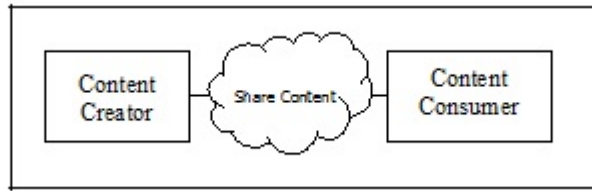


Figure 10.1-1 APSR Actor Diagram

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: <Profile Acronym>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 Actor 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

| XD-LAB 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 | |
| Content Consumer | OR | | |
| | ITI XDR Document Source | ITI TF-1:15 | |
| | OR | | |
| Content Consumer | ITI XDS.b Document Consumer | ITI TF-1:10 | |
| | OR | | |
| | ITI XDM Portable Media Consumer | ITI TF-1:16 | |
| Content Consumer | OR | | |
| | ITI XDR Document Recipient | ITI TF-1:15 | |

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.

APSR 2.0: Layout of sections and entries

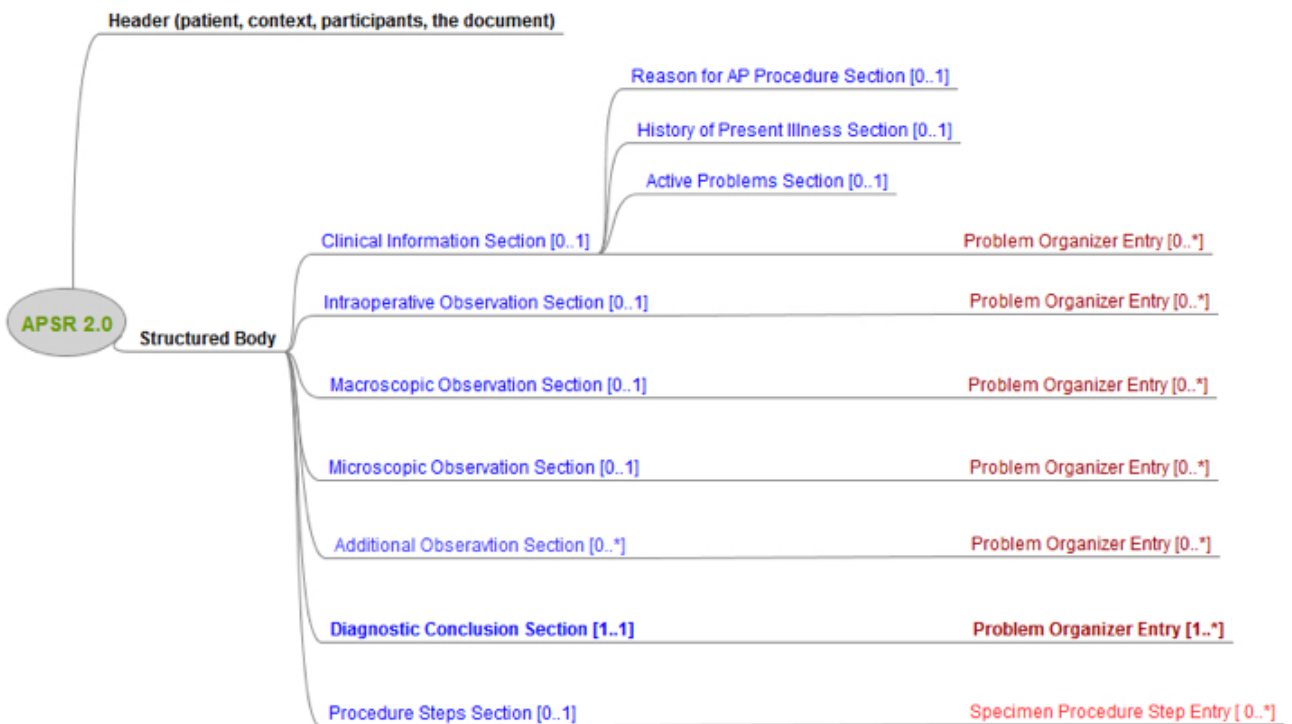


Figure 10.4.1-1 **Common model for a digital anatomic pathology structured report**

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

Intentionally left blank

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.

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

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10.5 APSR Security Considerations

See Appendix A of PaLM TF-1.

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 the actual section 1 of Volume 3 of PaLM TF (http://www.ihe.net/uploadedFiles/Documents/PaLM/IHE_PaLM_TF_Vol3.pdf).

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 (<http://ihe.net>). 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 (http://ihe.net/TF_Intro_Appendices.aspx).

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 V3 CDA Content Modules in detail.
- Section 7 defines the PaLM domain's DICOM 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 (http://ihe.net/TF_Intro_Appendices.aspx). 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. They 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

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

Attention is called to the possibility that implementation of the specifications in this document may require use of subject matter covered by patent rights. By publication of this document, no position is taken with respect to the existence or validity of any patent rights in connection therewith. IHE International is not responsible for identifying Necessary Patent Claims for which a license may be required, for conducting inquiries into the legal validity or scope of Patents Claims or determining whether any licensing terms or conditions provided in connection with submission of a Letter of Assurance, if any, or in any licensing agreements are reasonable or non-discriminatory. Users of the specifications in this document are expressly advised that determination of the validity of any patent 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 (http://www.ihe.net/Patent_Disclosure_Process). Please address questions about the patent disclosure process to the secretary of the IHE International Board: secretary@ihe.net

1.8 History of Document Changes

Content Modules for the APSR 2.0 Profile:

- 01
- 02
- 03
- 04
- 05
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- 36
- Reconfiguration of the Document content module
- Reconfiguration of the Procedure step section content module
- Introduction of the Additionally Specified Observation section content module
- Reconfiguration of the entry content modules "Problem organizer" and "Specimen procedure steps"
- Introduction of child element content modules "X-specimen identified", "UICC/AJCC-TNM observation", "ICD-O-3 observation", "Assessment scales observation"
- Renewal and completion of value sets.

Transformation of a real-world use case into a valid APSR 2.0 xml instance.

Finishing the Supplement ready to public comment.

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 (http://ihe.net/TF_Intro_Appendices.aspx). 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 (<http://wiki.ihe.net/index.php?title=Profiles>).

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

Table 3-1: Pathology and Laboratory Medicine Content Modules

| Content Module Acronym | Type of Content Modules | Semantic | Status |
|------------------------|-------------------------|---------------------------------------|----------------|
| XD-LAB | CDA R2 medical document | Clinical Laboratory Structured Report | Final Text |
| APSR | CDA R2 medical document | Anatomic Pathology Structured Report | Public Comment |

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 (http://www.ihe.net/uploadedFiles/Documents/PCC/IHE_PCC_TF_Vol2.pdf), section 4, with the addition of the constraints specified below.

4.1.1 XDSDocumentEntry Metadata

4.1.1.1 XDSDocumentEntry.eventCodeList

Append this paragraph at the end of the section.

For the APSR content module, The XDSDocumentEntry.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 XDSDocumentEntry.formatCode

Append this paragraph at the end of the section.

For the APSR content module, The XDSDocumentEntry.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 XDSDocumentEntry.parentDocumentRelationship

Append this paragraph at the end of the section.

For the APSR content module XDSDocumentEntry.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 XDSDocumentEntry metadata:

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- 36
- ▪ 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.

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

| codeSystem | codeSystemName and Description | Owner |
|------------|--------------------------------|-------|
|------------|--------------------------------|-------|

| | | |
|---------------------------|---|--|
| 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, either explicitly or by reference to another part of DICOM or an external reference document or standard ^[5]</i> | DICOM |
| 2.16.840.1.113883.15.16 | TNM 8th edition <i>Internationally agreed-upon standards to</i> | Union for International Cancer Control (UICC) & American |

| | | |
|----------------------------|--|---|
| | <i>describe and categorize cancer stages and progression</i> ^[6] | 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> ^[6] | 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> ^[6] | 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> ^[6] | 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> ^[7] | 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> ^[8] | DKG (Deutsche Krebsgesellschaft) |
| 1.2.276.0.76.5.336 | Grading / Differentiation scheme <i>Code lists to describe and categorize Tumor grading according ICD-O-3, adapted for Germany</i> | HL7 Germany |
| 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 PAT TF

The Content Modules specified in this Volume 3 of the PAT 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 PAT 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 |
| 1.3.6.1.4.1.19376.1.3.3.1.1 | CDA R2 | Human Patient | IHE PaLM TF-3:6.3.2.11.1 |
| 1.3.6.1.4.1.19376.1.3.1.3 | CDA R2 | Specimen Received | IHE PaLM TF-3:6.3.4.6 |
| 1.3.6.1.4.1.19376.1.5.3.1.4.2 | CDA R2 | Annotation Comment | IHE PCC TF-2:6.3.4.6 |
| 1.3.6.1.4.1.19376.1.3.1.6 | CDA R2 | Laboratory Observation | IHE PaLM TF-3:6.3.4.13 |
| 1.3.6.1.4.1.19376.1.3.3.1.4 | CDA R2 | Intended Recipient | IHE PaLM TF-3:6.3.2.14 |
| 1.3.6.1.4.1.19376.1.3.3.1.6 | CDA R2 | Ordering Provider (ordering physician) | IHE PaLM TF-3:6.3.2.17 |
| 1.3.6.1.4.1.19376.1.3.3.1.7 | CDA R2 | Laboratory Performer | IHE PaLM TF-3:6.3.2.20 |

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 = "11526-1", which is the LOINC code for "Pathology study".

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) (http://wiki.ihe.net/index.php?title=XDS_Coding_System_%281.3.6.1.4.1.19376.1.2.3%29).

| Profile | formatCode | Media Type | Template ID |
|---------|-------------------------|------------|-----------------------------|
| XD-LAB | urn:ihe:lab:xd-lab:2008 | text/xml | 1.3.6.1.4.1.19376.1.3.3 |
| APSR | urn:ihe:palm:aprs:2016 | 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 (http://ihe.net/TF_Intro_Appendices.aspx)
- 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 (<https://art-decor.org/art-decor/decor-project--psr->), including schematron rules, code systems and value sets.

| | | | |
|---------------|---|-----------------------|---|
| Id | 1.3.6.1.4.1.19376.1.8.1.1.1 | Effective Date | valid from 2014-05-13 11:57:57 |
| Status |  Draft | Version Label | 2.0 |
| Name | AnatomicPathologyStructuredReportContentModule | Display Name | Anatomic Pathology Structured Report Content Module |

Description



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.

| | |
|-----------------------|---|
| Context | Pathname / |
| Label | PaLM Suppl. APSR 2.0-3: 6.3.1.1 APSR clinical document content module |
| Classification | CDA Document Level Template |
| Open/Closed | Open (other than defined elements are allowed) |

Used by 0 transactions and 0 templates, Uses 19 templates

| Uses | as | Name | Version |
|-----------------------------|---------|--|---------|
| 1.3.6.1.4.1.19376.1.3.3.1.1 | Include |  Human Patient (2017) | DYNAMIC |
| 1.3.6.1.4.1.19376.1.8.1.4.2 | Include |  CDA author IHE | DYNAMIC |

| | | | | | |
|----|------------------------------|-------------|--|--|---------|
| 01 | | | | | |
| 02 | 2.16.840.1.113883.10.12.103 | Include | | CDA dataEnterer | DYNAMIC |
| 03 | 1.3.6.1.4.1.19376.1.8.1.4.6 | Containment | | CDA Informant(Header&Body) APSR2 (2.0) | DYNAMIC |
| 04 | 2.16.840.1.113883.10.12.104 | Include | | CDA custodian | DYNAMIC |
| 05 | 1.3.6.1.4.1.19376.1.3.3.1.4 | Include | | XD-LAB Information Recipient (2017) | DYNAMIC |
| 06 | 2.16.840.1.113883.10.12.106 | Include | | CDA legalAuthenticator | DYNAMIC |
| 07 | 1.3.6.1.4.1.19376.1.8.1.4.3 | Include | | CDA authenticator IHE | DYNAMIC |
| 08 | 1.3.6.1.4.1.19376.1.3.3.1.6 | Include | | Ordering Provider (2017) | DYNAMIC |
| 09 | 1.3.6.1.4.1.19376.1.8.1.4.1 | Include | | CDA Participant Specimen Collector | DYNAMIC |
| 10 | 1.3.6.1.4.1.19376.1.3.3.1.7 | Containment | | Laboratory Performer (2017) | DYNAMIC |
| 11 | 2.16.840.1.113883.10.12.113 | Include | | CDA componentOf | DYNAMIC |
| 12 | 1.3.6.1.4.1.19376.1.8.1.2.1 | Containment | | Clinical Information Section (2.0) | DYNAMIC |
| 13 | 1.3.6.1.4.1.19376.1.8.1.2.2 | Containment | | Intraoperative Observation Section (2.0) | DYNAMIC |
| 14 | 1.3.6.1.4.1.19376.1.8.1.2.3 | Containment | | Macroscopic Observation Section (2.0) | DYNAMIC |
| 15 | 1.3.6.1.4.1.19376.1.8.1.2.4 | Containment | | Microscopic Observation Section (2.0) | DYNAMIC |
| 16 | 1.3.6.1.4.1.19376.1.3.10.3.1 | Containment | | Additional Specified Observation Section (2.0) | DYNAMIC |
| 17 | 1.3.6.1.4.1.19376.1.8.1.2.5 | Containment | | Diagnostic Conclusion Section (2.0) | DYNAMIC |
| 18 | 1.3.6.1.4.1.19376.1.8.1.2.6 | Containment | | Procedure Steps Section (2.0) | DYNAMIC |

Relationship Specialization: template 2.16.840.1.113883.10.12.1 (2005-09-07)

Example

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example for use case #1
<ClinicalDocument xsi:schemaLocation="urn:hl7-org:v3 infrastructure/cda/CDA_extended.xsd">
  <realmCode code="UV"/>
  <typeId extension="POCD_HD000040" root="2.16.840.1.113883.1.3"/>
  <templateId root="1.3.6.1.4.1.19376.1.8.1.1.1"/>
  <id root="1.3.6.1.4.1.19376.1.8.9.1" extension="A7102400008_1" assigningAuthorityName="IHE PaLM Technical Committee"/>
  <code code="11526-1" codeSystem="2.16.840.1.113883.6.1" displayName="Pathology Study"/>
  <title>Anatomic Pathology Structured Report - Breast Biopsy</title>
  <effectiveTime value="201001041605-0500"/>
  <confidentialityCode code="N" displayName="normal" codeSystem="2.16.840.1.113883.5.25"/>
  <languageCode code="en-US"/>
  <setId root="1.3.6.1.4.1.19376.1.8.9.1" extension="A7102400008" assigningAuthorityName="IHE PaLM Technical Committee"/>
  <versionNumber value="1"/>
  <!-- Patient -->
  <recordTarget>
    <patientRole>
      <id extension="0411886319605719371016" root="1.3.6.1.4.1.19376.1.8.9.2"/>
      <addr use="HP">

```



```

01
02 <streetAddressLine>39 East Street</streetAddressLine>
03 <postalCode>69499</postalCode>
04 <city>Appleton</city>
05 <state>WI</state>
06 <country>United States</country>
07 </addr>
08 <telecom nullFlavor="NASK"/>
09 <patient>
10 <name>
11 <prefix>Miss</prefix>
12 <given>EVE</given>
13 <family qualifier="BR">ONEWOMAN</family>
14 </name>
15 <administrativeGenderCode code="F" codeSystem="2.16.840.1.113883.5.1"/>
16 <birthTime value="19710921"/>
17 </patient>
18 </patientRole>
19 </recordTarget>
20 <!-- one or more author(s) of the report, with authoring time -->
21 <author>
22 <templateId root="1.3.6.1.4.1.19376.1.8.1.4.2"/>
23 <time value="20100104131933-0500"/>
24 <assignedAuthor>
25 <id root="1.3.6.1.4.1.19376.1.8.9.3" extension="801234567897"/>
26 <addr nullFlavor="MSK"/>
27 <telecom value="tel:+33-602030499"/>
28 <assignedPerson>
29 <name>
30 <given>Marcel</given>
31 <family>Pathologist</family>
32 <suffix>Ph D</suffix>
33 </name>
34 </assignedPerson>
35 <representedOrganization>
36 <id root="1.3.6.1.4.1.19376.1.8.9.4" extension="1120456789"/>
37 <name>CANCER INSTITUTE</name>
38 <telecom nullFlavor="MSK"/>
39 <addr nullFlavor="MSK"/>
40 </representedOrganization>
41 </assignedAuthor>
42 </author>
43 <!-- one or more transcriptionists, with transcription time -->
44 <dataEnterer>
45 <time value="20100104131720-0500"/>
46 <assignedEntity>
47 <id root="1.3.6.1.4.1.19376.1.8.9.3" extension="A32"/>
48 <addr nullFlavor="MSK"/>
49 <telecom nullFlavor="MSK"/>
50 <assignedPerson>
51 <name>
52 <given>Adeline</given>
53 <family>Medsecret</family>
54 </name>
55 </assignedPerson>
56 </assignedEntity>
57 </dataEnterer>

```

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01 <informant>
02 <!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant(Body) APSR2' (dynamic), not used in use case #1 -->
03 </informant>
04 <!-- The unique custodian of this document is the sending pathology lab that will administer it (further updates, deprecation) -->
05 <custodian>
06 <assignedCustodian>
07 <representedCustodianOrganization>
08 <id root="1.3.6.1.4.1.19376.1.8.9.4" extension="1120456789"/>
09 <name>CANCER INSTITUTE</name>
10 <telecom use="PUB" value="0466666666"/>
11 <addr>
12 <streetAddressLine>38 Cramberry Street</streetAddressLine>
13 <postalCode>69499</postalCode>
14 <city>Appleton</city>
15 <state>WI</state>
16 </addr>
17 </representedCustodianOrganization>
18 </assignedCustodian>
19 </custodian>
20 <!-- One or more additional intended recipients (other than the ordering physician) -->
21 <informationRecipient>
22 <templateId root="1.3.6.1.4.1.19376.1.3.3.1.4"/>
23 <intendedRecipient>
24 <id root="1.3.6.1.4.1.19376.1.8.9.3" extension="987"/>
25 <addr>
26 <streetAddressLine>1600 Clifton Road</streetAddressLine>
27 <city>Atlanta</city>
28 <state>GA</state>
29 <postalCode>30333</postalCode>
30 </addr>
31 <telecom value="tel:404-639-3535"/>
32 <informationRecipient>
33 <name>
34 <family>WOULDLIKETOKNOW</family>
35 <given>Thomas</given>
36 </name>
37 </informationRecipient>
38 </intendedRecipient>
39 </informationRecipient>
40 <!-- The unique legal authenticator: The person assuming the final responsibility of the report and signing it -->
41 <legalAuthenticator>
42 <time value="20100104152503-0500"/>
43 <signatureCode code="S"/>
44 <assignedEntity>
45 <id root="1.3.6.1.4.1.19376.1.8.9.3" extension="801234567897"/>
46 <assignedPerson>
47 <name>
48 <given>Marcel</given>
49 <family>Pathologist</family>
50 </name>
51 </assignedPerson>
52 </assignedEntity>
53 </legalAuthenticator>
54 <!-- Zero or more additional content validator(s): pathologists having validated some part of the report -->
55 <authenticator>
56 <templateId root="1.3.6.1.4.1.19376.1.8.1.4.3"/>

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01
02 <time value="20100104142503-0500"/>
03 <signatureCode code="S"/>
04 <assignedEntity>
05   <id root="1.3.6.1.4.1.19376.1.8.9.3" extension="801234567898"/>
06   <addr nullFlavor="MSK"/>
07   <telecom nullFlavor="MSK"/>
08   <assignedPerson>
09     <name>
10       <given>Jonas</given>
11       <family>Jones</family>
12       <prefix>MD</prefix>
13     </name>
14   </assignedPerson>
15 </assignedEntity>
16 </authenticator>
17 <!-- The ordering physician -->
18 <participant typeCode="REF">
19   <templateId root="1.3.6.1.4.1.19376.1.3.3.1.6"/>
20   <time>
21     <high value="20091231"/>
22   </time>
23   <associatedEntity classCode="PROV">
24     <id root="1.3.6.1.4.1.19376.1.8.9.3" extension="801234567892"/>
25     <addr nullFlavor="NASK"/>
26     <telecom value="tel:0147150000" use="EC"/>
27     <associatedPerson>
28       <name>
29         <prefix>Doctor</prefix>
30         <given>Eva</given>
31         <family>Surgeon</family>
32         <suffix>Ph D</suffix>
33       </name>
34     </associatedPerson>
35   </associatedEntity>
36 </participant>
37 <!-- include template 1.3.6.1.4.1.19376.1.8.1.4.1 'CDA participant specimen collector' (dynamic) 0..* R, not used in use case #1 -->
38 <!-- Identification of the order, extension is Order-ID -->
39 <inFulfillmentOf>
40   <order>
41     <id root="1.3.6.1.4.1.19376.1.8.9.8" extension="12345"/>
42   </order>
43 </inFulfillmentOf>
44 <!-- Documented act(s): The pathology examination procedure, extension is Accession number -->
45 <documentationOf>
46   <serviceEvent>
47     <id root="1.3.6.1.4.1.19376.1.8.9.9" extension="A7102400008"/>
48     <code code="371528001" displayName="Pathology report (record artifact)" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
49     <lab:statusCode code="completed"/>
50     <effectiveTime>
51       <!-- Start: Date&time of reception of this order and the attached specimens -->
52       <low value="200912300922-0500"/>
53       <!-- End -->
54       <high value="201001041605-0500"/>
55     </effectiveTime>
56     <!-- Performing laboratory -->
57     <performer typeCode="PRF">

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01
02 <templateId root="1.3.6.1.4.1.19376.1.3.3.1.7"/>
03 <time>
04   <high value="201001041605-0500"/>
05 </time>
06 <assignedEntity>
07   <id root="1.3.6.1.4.1.19376.1.8.9.3" extension="801234567897"/>
08   <representedOrganization>
09     <id root="1.3.6.1.4.1.19376.1.8.9.4" extension="1120456789"/>
10     <name>CANCER INSTITUTE</name>
11     <telecom nullFlavor="MSK"/>
12     <addr nullFlavor="MSK"/>
13   </representedOrganization>
14 </assignedEntity>
15 </performer>
16 </serviceEvent>
17 </documentationOf>
18 <!-- include template 1.3.6.1.4.1.19376.1.3.1.9999.10.9.16 'RelatedDocument Parent Document' (dynamic) 0..1 R, not used in use case #1 -->
19 <!-- Patient encounter: The patient stay in the hospital where the surgery was performed -->
20 <componentOf>
21   <encompassingEncounter>
22     <id root="1.3.6.1.4.1.19376.1.8.9.7" extension="234567890"/>
23     <code code="ACUTE" displayName="inpatient acute"/>
24     <effectiveTime>
25       <high value="2201001040735-0500"/>
26     </effectiveTime>
27     <location typeCode="LOC">
28       <healthCareFacility classCode="SDLOC">
29         <id root="1.3.6.1.4.1.19376.1.8.9.4" extension="11223344"/>
30         <serviceProviderOrganization classCode="ORG" determinerCode="INSTANCE">
31           <name>Surgery theater</name>
32           <asOrganizationPartOf>
33             <wholeOrganization>
34               <name>CANCER INSTITUTE</name>
35             </wholeOrganization>
36           </asOrganizationPartOf>
37         </serviceProviderOrganization>
38       </healthCareFacility>
39     </location>
40   </encompassingEncounter>
41 </componentOf>
42 <!-- Structured body -->
43 <component typeCode="COMP" contextConductionInd="true">
44   <structuredBody classCode="DOCBODY" moodCode="EVN">
45     <component typeCode="COMP" contextConductionInd="true">
46       <!-- template 1.3.6.1.4.1.19376.1.8.1.2.1 'Clinical Information Section' (dynamic) -->
47     </component>
48     <component typeCode="COMP" contextConductionInd="true">
49       <!-- template 1.3.6.1.4.1.19376.1.8.1.2.2 'Intraoperative Observation Section' (dynamic) -->
50     </component>
51     <component typeCode="COMP" contextConductionInd="true">
52       <!-- template 1.3.6.1.4.1.19376.1.8.1.2.3 'Macroscopic Observation Section' (dynamic) -->
53     </component>
54     <component typeCode="COMP" contextConductionInd="true">
55       <!-- template 1.3.6.1.4.1.19376.1.8.1.2.4 'Microscopic Observation Section' (dynamic) -->
56     </component>
57   </structuredBody>
58 </component>
59 <component typeCode="COMP" contextConductionInd="true">

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<!-- template 1.3.6.1.4.1.19376.1.3.10.3.1 'Additionally Specified Observation Section' (dynamic) -->
</component>
<component typeCode="COMP" contextConductionInd="true">
  <!-- template 1.3.6.1.4.1.19376.1.8.1.2.5 'Diagnostic Conclusion Section' (dynamic) -->
</component>
<component typeCode="COMP" contextConductionInd="true">
  <!-- template 1.3.6.1.4.1.19376.1.8.1.2.6 'Procedure Steps Section' (dynamic) -->
</component>
</structuredBody>
</component>
</ClinicalDocument>

```

| Item | DT | Card | Conf | Description | Label |
|----------------------|--------|---------|------|--|-------------|
| h17:ClinicalDocument | | 1 ... 1 | M | | PaLM...dule |
| └ @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...dule |
| └ @root | uid | 1 ... 1 | F | 1.3.6.1.4.1.19376.1.8.1.1.1 | |
| └ h17:realmCode | CS CWE | 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). Whenever a national extension has been defined and is used, the realm code SHALL identify this national extension. | PaLM...dule |
| └ h17: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...dule |
| └ @root | uid | 1 ... 1 | F | 2.16.840.1.113883.1.3 | |

| | | | | | | |
|----|-------------------|------------|---------|---|---|-------------|
| 02 | └ @extension | st | 1 ... 1 | F | POCD_HD000040 | |
| 03 | | | | | | |
| 04 | └ h17: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...dule |
| 05 | | | | | | |
| 06 | └ @root | uid | 1 ... 1 | R | Here the OID for PAT exemplary instances, in practice the OID of the LIS | |
| 07 | └ @extension | st | 1 ... 1 | R | Here a hypothetical document ID, most often derived from the accession number | |
| 08 | | 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 | |
| 09 | | | | | <ul style="list-style-type: none"> ▪ id@root, which SHALL be an OID, ▪ 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. | |
| 10 | | Example | | | Report ID from use case #1 <id root="1.3.6.1.4.1.19376.1.8.9.1" extension="A7102400008_1" assigningAuthorityName="IHE PaLM Technical Committee"/> | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | └ h17:code | CE CNE | 1 ... 1 | M | ClinicalDocument/code SHALL be present. The document type of this content module is always <code code="11526-1" codeSystem="2.16.840.1.113883.6.1" displayName="Pathology Study" codeSystemName="LOINC"/> | PaLM...dule |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | └ @code | CONF | 1 ... 1 | F | 11526-1 | |
| 18 | └ @codeSystem | | 1 ... 1 | F | 2.16.840.1.113883.6.1 (Logical Observation Identifier Names and Codes) | |
| 19 | └ @codeSystemName | | 1 ... 1 | F | LOINC | |
| 20 | └ @displayName | | 1 ... 1 | F | Pathology Study | |
| 21 | | | | | | |
| 22 | └ h17:title | ST | 1 ... 1 | M | The APSR <title> SHALL be present. It is the local translation of the code@displayName. | PaLM...dule |
| 23 | | | | | | |

| | | | | |
|---------------------------|------------|---|---|--|
| | CONF | element content shall be "Anatomic Pathology Structured Report" | | |
| | Example | Report title from use case #1 <title>ANATOMIC PATHOLOGY REPORT - BREAST BIOPSY</title> | | |
| └ h17:effectiveTime | TS | 1 ... 1 | M | ClinicalDocument/effectiveTime SHALL be present. It contains the creation date & time of the laboratory report as an electronic document. In case this is a new revision replacing a previous version (identified in parentDocument), this is the date & time of the new revision. |
| └ h17:confidentialityCode | CE CNE | 1 ... 1 | M | ClinicalDocument/confidentialityCode SHALL be present in accordance with the HL7 CDA R2 standard. |
| | CONF | The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.16926 HL7 BasicConfidentialityKind (DYNAMIC) | | |
| └ h17:languageCode | CS CNE | 1 ... 1 | M | ClinicalDocument/languageCode SHALL be present in accordance with the HL7 CDA R2 standard. |
| | CONF | The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.11526 HumanLanguage (DYNAMIC) | | |
| └ h17:setId | II | 1 ... 1 | M | 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. |
| └ @root | uid | 1 ... 1 | R | |
| └ @extension | st | 1 ... 1 | R | |
| | 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 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. | | |
| | Example | Report set ID from use case #1 <id root="1.3.6.1.4.1.19376.1.8.9.1" extension="A7102400008" assigningAuthorityName="IHE PaLM Technical Committee"/> | | |
| └ h17:versionNumber | INT | 0 ... 1 | R | ClinicalDocument/versionNumber MAY be present. As requested by the CDA standard, it is an integer value used as versioning. |
| └ @value | int | 1 ... 1 | R | |

| | |
|------------|---|
| 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 version number of the current revision of the report is a positive integer (1, 2 ...) provided in the versionNumber element. |
|------------|---|

| | |
|---------|---|
| Example | Report version number for use case #1 <versionNumber value="1"/> |
|---------|---|

from 1.3.6.1.4.1.19376.1.3.3.1.1 *Human Patient* (DYNAMIC)
The Patient.

The anatomic pathology report is related to ONE SINGLE patient.

Included

1 ... 1 M

- A patient SHALL be identified with at least one unique patientRole/Id.
- 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...dule |
| └ h17:patientRole | | 1 ... 1 | R | | PaLM...dule |
| └ h17:id | II | 1 ... * | R | | PaLM...dule |
| └ h17:addr | AD | 1 ... * | | All persons (including the patient) and organizations mentioned in the document SHALL provide elements name, addr and telecom. | PaLM...dule |
| └ h17:telecom | TEL | 1 ... * | | All persons (including the patient) and organizations mentioned in the document SHALL provide elements name, addr and telecom. | PaLM...dule |
| └ h17:patient | | 1 ... 1 | | | PaLM...dule |
| └ h17:id | II | 0 ... 1 | | | PaLM...dule |
| └ h17:name | PN | 1 ... * | | | PaLM...dule |
| └ h17:administrativeGenderCode | CE | 1 ... 1 | R | | PaLM...dule |
| └ h17:birthTime | TS | 1 ... 1 | R | | PaLM...dule |

Included

1 ... * M

from 1.3.6.1.4.1.19376.1.8.1.4.2 *CDA author IHE* (DYNAMIC)
The Author Content Module represents an author of the report. This element is repeatable. The sub-element author/time carries the date/time of the authoring action.

At least one ClinicalDocument/author 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 author/time 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

| | | | | | |
|--------------------|---------|---|---|---|--------------------------------------|
| h17:author | | 1 .. * | M | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| @typeCode | cs | 1 .. 1 | F | AUT | |
| | Example | <pre>author is a person <author typeCode="AUT" contextControlCode="OP"> <time value="201306101654"/> <assignedAuthor classCode="ASSIGNED"> <!-- ... --> </assignedAuthor> </author></pre> | | | |
| h17:templateId | | 1 .. 1 | M | | PaLM Suppl.APSR 2.0-3:6.3.6.2 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 2.0-3:6.3.6.2 Author |
| h17:assignedAuthor | | 0 .. 1 | C | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| @classCode | cs | 0 .. 1 | F | ASSIGNED | |
| h17:id | II | 1 .. * | M | | PaLM Suppl.APSR |

| | | | | | |
|-------------------------------|-----|---------|---|---|--|
| | | | | | 2.0-3:6.3.6.2 Author |
| └ h17:addr | AD | 1 ... * | M | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| └ h17:telecom | TEL | 1 ... * | M | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| <i>Choice</i> | | 1 ... 1 | | The author is either an assigned person or an authoring device. Elements to choose from: | |
| | | | | <ul style="list-style-type: none"> ▪ h17:assignedPerson ▪ h17:assignedAuthoringDevice | |
| └ h17:assignedPerson | | 0 ... 1 | C | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| <i>Included</i> | | 0 ... * | | from 2.16.840.1.113883.10.12.152 CDA Person (DYNAMIC) The name(s) SHALL be given. | |
| └ @classCode | | 0 ... 1 | F | PSN | |
| └ @determinerCode | | 0 ... 1 | F | INSTANCE | |
| └ h17:name | PN | 0 ... * | | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| └ h17:assignedAuthoringDevice | | 0 ... 1 | C | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| └ @classCode | CS | 0 ... 1 | F | DEV | |
| └ @determinerCode | CS | 0 ... 1 | F | INSTANCE | |

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| └ h17:manufacturerModelName | SC | 0 ... 1 | R | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| └ h17:softwareName | SC | 0 ... 1 | R | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| └ h17:code | CE | 0 ... 1 | R | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| └ h17:representedOrganization | | 0 ... 1 | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| | Example | <pre> represented organization for author as a device <representedOrganization classCode="ORG" determinerCode="INSTANCE"> <name> <!-- ... --> </name> </representedOrganization> </pre> | | | |
| Included | | 0 ... 1 | | from 2.16.840.1.113883.10.12.151 CDA Organization (DYNAMIC) 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 2.0-3:6.3.6.2 Author |
| └ h17:name | ON | 0 ... 1 | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| └ h17:telecom | TEL | 0 ... 1 | | | PaLM Suppl. APSR |

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|---------------------------------|--------|---------|---|---|---|--|
| | | | | | | 2.0-3:6.3.6.2 Author |
| └ h17:addr | AD | 0 ... 1 | | | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| └ h17:standardIndustryClassCode | CE | 0 ... 1 | | | SHALL be chosen from domain OrganizationIndustryClass | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| └ h17:asOrganizationPartOf | | 0 ... 1 | | | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| └ @classCode | | 0 ... 1 | F | PART | | |
| └ h17:id | II | 0 ... * | R | | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| └ h17:code | CE | 0 ... 1 | | | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| └ @codeSystem | CONF | 1 ... 1 | F | 2.16.840.1.113883.5.111 (Role Code) | | |
| └ h17:statusCode | CS | 0 ... 1 | | | | PaLM Suppl.APSR 2.0-3:6.3.6.2 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 2.0-3:6.3.6.2 Author |
| └ h17:wholeOrganization | | 0 ... 1 | | | | PaLM Suppl.APSR |

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|--|---------------------------------|-----|---------|---|--|
| | | | | | 2.0-3:6.3.6.2 Author |
| | └ @classCode | | 0 ... 1 | F | ORG |
| | └ @determinerCode | | 0 ... 1 | F | INSTANCE |
| | └ h17:id | II | 0 ... * | | PaLM Sup- pl.APSR 2.0-3:6.3.6.2 Author |
| | └ h17:name | ON | 0 ... * | | PaLM Sup- pl.APSR 2.0-3:6.3.6.2 Author |
| | └ h17:telecom | TEL | 0 ... * | | PaLM Sup- pl.APSR 2.0-3:6.3.6.2 Author |
| | └ h17:addr | AD | 0 ... * | | PaLM Sup- pl.APSR 2.0-3:6.3.6.2 Author |
| | └ h17:standardIndustryClassCode | CE | 0 ... 1 | | SHALL be chosen from domain OrganizationIndustryClass PaLM Sup- pl.APSR 2.0-3:6.3.6.2 Author |
| | <i>Included</i> | | 0 ... * | R | from 2.16.840.1.113883.10.12.103 CDA dataEnterer (DYNAMIC) Transcriptionist |
| | └ h17:dataEnterer | | 0 ... * | R | PaLM...dule |
| | └ @typeCode | | 0 ... 1 | F | ENT |
| | └ @contextControlCode | | 0 ... 1 | F | OP |
| | └ h17:time | TS | 0 ... 1 | | PaLM...dule |
| | └ h17:assignedEntity | | 1 ... 1 | | Contains 2.16.840.1.113883.10.12.153 CDA AssignedEntity (DYNAMIC) PaLM...dule |

| | | | | | |
|---|-----|---------|---|---|-------------|
| <p>└ h17:informant</p> | | 0 ... * | R | <p>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. These two elements are defined in the content module "Informant".</p> <p>Source: PaLM Suppl. APSR 2.0-3: 6.3.6.5</p> <p>Contains 1.3.6.1.4.1.19376.1.8.1.4.6 CDA Informant(Header&Body) APSR2 (DYNAMIC)</p> | PaLM...dule |
| <p>Included</p> | | 1 ... 1 | M | <p>from 2.16.840.1.113883.10.12.104 CDA custodian (DYNAMIC)</p> <p>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.</p> | |
| <p>└ h17:custodian</p> | | 1 ... 1 | M | | PaLM...dule |
| <p>└ @typeCode</p> | | 0 ... 1 | F | CST | |
| <p>└ h17:assignedCustodian</p> | | 1 ... 1 | | | PaLM...dule |
| <p>└ @classCode</p> | | 0 ... 1 | F | ASSIGNED | |
| <p>└ h17:representedCustodianOrganization</p> | | 1 ... 1 | | | PaLM...dule |
| <p>└ @classCode</p> | | 0 ... 1 | F | ORG | |
| <p>└ @determinerCode</p> | | 0 ... 1 | F | INSTANCE | |
| <p>└ h17:id</p> | II | 1 ... * | M | | PaLM...dule |
| <p>└ h17:name</p> | ON | 0 ... 1 | | | PaLM...dule |
| <p>└ h17:telecom</p> | TEL | 0 ... 1 | | | PaLM...dule |
| <p>└ h17:addr</p> | AD | 0 ... 1 | | | PaLM...dule |

Included **0 ... *** **R** from 1.3.6.1.4.1.19376.1.3.3.1.4 *XD-LAB Information Recipient* (DYNAMIC)
 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.

Source: PaLM TF-3: 6.3.2.14

| | | | | | |
|----------------------------|------------|----------------|----------|---|-------------|
| └ h17:informationRecipient | | 0 ... * | R | | PaLM...dule |
| └ h17:templateId | II | 1 ... 1 | M | | PaLM...dule |
| └ @root | uid | 1 ... 1 | F | 1.3.6.1.4.1.19376.1.3.3.1.4 | |
| └ h17:intendedRecipient | | 1 ... 1 | R | | PaLM...dule |
| └ h17:id | II | 0 ... * | R | | PaLM...dule |
| └ h17:addr | AD | 1 ... * | | | PaLM...dule |
| └ h17:telecom | TEL | 1 ... * | | | PaLM...dule |
| └ 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...dule |
| └ 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...dule |

Included **1 ... 1** **M** from 2.16.840.1.113883.10.12.106 *CDA legalAuthenticator* (DYNAMIC)
 The Legal authenticator Content Module describes a pathologist having verified the content of the report, using the element legalAuthenticator.
 The report SHALL have one legal Authenticator

Source: PaLM TF-3: 6.3.2.15

| | | | | | |
|--------------------------|--|----------------|----------|----|-------------|
| └ h17:legalAuthenticator | | 1 ... 1 | M | | PaLM...dule |
| └ @typeCode | | 0 ... 1 | F | LA | |

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|----|-----------------------|------|---|---|---|---|
| 01 | | | | | | |
| 02 | └ @contextControlCode | | 0 ... 1 | F | OP | |
| 03 | └ h17:time | TS | 1 ... 1 | R | | PaLM...dule |
| 04 | └ h17:signatureCode | CS | 1 ... 1 | R | | PaLM...dule |
| 05 | | CONF | The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.10282 <i>ParticipationSignature</i> (DYNAMIC) | | | |
| 06 | | | | | | |
| 07 | └ h17:assignedEntity | | 1 ... 1 | | Contains 2.16.840.1.113883.10.12.153 <i>CDA AssignedEntity</i> (DYNAMIC) from 1.3.6.1.4.1.19376.1.8.1.4.3 <i>CDA authenticator IHE</i> (DYNAMIC) | PaLM...dule |
| 08 | | | | | | |
| 09 | | | | | 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. | |
| 10 | Included | | 0 ... * | R | The report MAY have zero or more Content Validators. | |
| 11 | | | | | | |
| 12 | | | | | Source: PaLM Suppl. APSR 2.0-3: 6.3.6.3 | |
| 13 | | | | | | |
| 14 | └ h17:authenticator | | 0 ... * | R | | PaLM Suppl. APSR 2.0-3: 6.3.6.3 Content validator |
| 15 | | | | | | |
| 16 | └ @typeCode | CS | 1 ... 1 | F | AUTHEN | |
| 17 | | | | | | |
| 18 | └ h17:templateId | | 1 ... 1 | M | | PaLM Suppl. APSR 2.0-3: 6.3.6.3 Content validator |
| 19 | | | | | | |
| 20 | └ @root | uid | 1 ... 1 | F | 1.3.6.1.4.1.19376.1.8.1.4.3 | |
| 21 | | | | | | |
| 22 | └ h17:time | TS | 1 ... 1 | R | Time of validation | PaLM Suppl. APSR 2.0-3: |
| 23 | | | | | | |


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|------------------------|-------------------|---------|---------|--|---|
| | | | | | 6.3.6.3 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 (DYNAMIC) | PaLM Suppl. APSR 2.0-3: 6.3.6.3 Content validator |
| Included | | 1 ... 1 | R | from 1.3.6.1.4.1.19376.1.3.3.1.6 Ordering Provider (DYNAMIC) 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...dule |
| └ @typeCode | CS | 1 ... 1 | F | REF | |
| └ h17:templateId | II | 1 ... 1 | | | PaLM...dule |
| └ @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...dule |
| └ h17:associatedEntity | | 1 ... 1 | | | PaLM...dule |
| └ h17:addr | AD | 1 ... * | R | The address of this person (referral ordering physician) SHALL be present. | PaLM...dule |
| └ h17:telecom | TEL.AT | 1 ... * | R | The telecom of this person (referral ordering physician) SHALL be present. | PaLM...dule |
| | 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 | | PaLM...dule |

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|---------------------------|--------|---------|---|---|---|
| L h17:scopingOrganization | | 0 ... 1 | | | PaLM...dule |
| Included | | 0 ... * | R | <p>from 1.3.6.1.4.1.19376.1.8.1.4.1 <i>CDA Participant Specimen Collector</i> (DYNAMIC) 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 participant element with the typeCode attribute valued "DIST" and the sub-element participant/time carries the time period of the specimen collection.</p> <p>Source: PAT TF-3: 6.2.6.1</p> | |
| L h17:participant | | 0 ... * | R | <p>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.</p> | PaLM Suppl. APSR 2.0-3:6.3.6.1 Specimen collector |
| L @typeCode | cs | 1 ... 1 | F | DIST | |
| L h17:templateID | II | 1 ... 1 | M | | PaLM Suppl. APSR 2.0-3:6.3.6.1 Specimen collector |
| L @root | uid | 1 ... 1 | F | 1.3.6.1.4.1.19376.1.8.1.4.1 | |
| L h17:time | IVL_TS | 1 ... 1 | M | <p>Specimen collection time</p> <p>The specimen collection time is an interval, which may be reduced to a point in time (see usage of data type IVL_TS).</p> | PaLM Suppl. APSR 2.0-3:6.3.6.1 Specimen collector |
| L h17:associatedEntity | | 0 ... 1 | R | <p>At least one of the two elements associatedPerson and scopingOrganization must be present. Both may be present.</p> | PaLM Suppl. APSR 2.0-3:6.3.6.1 Specimen collector |
| L @classCode | cs | 1 ... 1 | F | PROV | |

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|----|---------------------------|--------|---------|---|--|---|
| 02 | └ h17:id | II | 1 ... * | R | | PaLM Suppl. APSR 2.0-3:6.3.6.1 Specimen collector |
| 03 | | | | | | |
| 04 | | | | | | |
| 05 | └ h17:addr | AD | 1 ... * | R | | PaLM Suppl. APSR 2.0-3:6.3.6.1 Specimen collector |
| 06 | | | | | | |
| 07 | | | | | | |
| 08 | └ h17:telecom | TEL.AT | 1 ... * | R | | PaLM Suppl. APSR 2.0-3:6.3.6.1 Specimen collector |
| 09 | | | | | | |
| 10 | | | | | | |
| 11 | └ 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 (DYNAMIC) | PaLM Suppl. APSR 2.0-3:6.3.6.1 Specimen collector |
| 12 | | | | | | |
| 13 | └ 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 (DYNAMIC) | PaLM Suppl. APSR 2.0-3:6.3.6.1 Specimen collector |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | └ 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...dule |
| 17 | └ @typeCode | CS | 1 ... 1 | F | FLFS | |
| 18 | └ h17:order | | 1 ... 1 | M | | PaLM...dule |
| 19 | └ @classCode | CS | 1 ... 1 | F | ACT | |
| 20 | └ @moodCode | CS | 1 ... 1 | F | RQO | |
| 21 | | | | | | |
| 22 | └ h17:id | II | 1 ... * | R | Placer order group ID or Placer order ID | PaLM...dule |

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|---------------------|--------|---------|---|--|-------------|
| h17:documentationOf | | 1 ... 1 | M | Documented act. | PaLM...dule |
| @typeCode | CS | 1 ... 1 | F | DOC | |
| h17:serviceEvent | | 1 ... 1 | M | 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. 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. Source: PaLM TF3: 6.3.2.19 | PaLM...dule |
| @classCode | CS | 1 ... 1 | R | | |
| @moodCode | CS | 1 ... 1 | R | | |
| h17:id | II | 1 ... * | M | ID of the Act, i.e. Accession number | PaLM...dule |
| h17:code | CE CWE | 0 ... 1 | R | | PaLM...dule |
| | 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" @codeSystem shall be "2.16.840.1.113883.6.96" @codeSystemName shall be "SCT" @displayName shall be "Pathology report (record artifact)" | |
| h17:effectiveTime | IVL_TS | 0 ... 1 | R | Use of sub element documentationOf/serviceEvent/effectiveTime to document the time boundaries of events in the document is appropriate. | PaLM...dule |

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| <p>└ ihe-lab:statusCode</p> | <p>CS CNE</p> | <p>0 ... 1</p> | <p>R</p> | <p>This APSR Content Module can express both final and non-final reports. To distinguish between the two, the statusCode element has been added to the documentationOf/serviceEvent element. A non-final report is a report documenting a serviceEvent, which is in the status "active". This sub-element serviceEvent/statusCode is optional. When it is not present the serviceEvent is assumed to be in the status "completed". 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"). 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: <Clinical Document xmlns:lab="urn:oid:1.3.6.1.4.1.19376.1.3.2" ... ></p> <p>Source: PaLM TF3: 6.3.2.19</p> | <p>PaLM...dule</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 (DYNAMIC)</p> | | | |
| <p>Schematron assert</p> | | <p>role</p> | <p> error</p> | <p>test hl7:serviceEvent/ihe-lab:statusCode[@code='completed'] Message Status code of all Content Modules SHALL be "complete" or "aborted"</p> | |
| <p>└ hl7:performer</p> | | <p>0 ... *</p> | <p>R</p> | <p>Contains 1.3.6.1.4.1.19376.1.3.3.1.7 Laboratory Performer (DYNAMIC)</p> | <p>PaLM...dule</p> |
| <p>└ hl7:relatedDocument</p> | | <p>0 ... 1</p> | <p>R</p> | <p>ClinicalDocument/relatedDocument/parentDocument 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>PaLM...dule</p> |

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| | | | | <p>Note 1: A non-final laboratory 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"> ▪ 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. <p>The Document Source Actor SHALL apply the following rules on XSDSDocumentEntry metadata:</p> <ul style="list-style-type: none"> ▪ 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. <p>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.</p> <p>Note 3: A final report can also be replaced by a corrective final report. The rules above also apply in this case.</p> | |
| └ @typeCode | cs | 1 ... 1 | F | RPLC | |
| | | | | relatedDocument@typeCode attribute SHALL be valued "RPLC" | |
| └ h17:parentDocument | ANY | 1 ... 1 | M | | PaLM...dule |
| └ h17:id | II | 1 ... 1 | M | SHALL be equal to ClinicalDocument/ id of the replaced document. | PaLM...dule |
| └ h17:setId | II | 1 ... 1 | M | SHALL have the same value in the new report as in the replaced report. | PaLM...dule |
| └ h17:versionNumber | INT | 0 ... 1 | R | SHALL have the same value as in the replaced report (when provided there). | PaLM...dule |

from 2.16.840.1.113883.10.12.113 CDA componentOf (DYNAMIC)

The ClinicalDocument/componentOf/encompassingEncounter element MAY be present.

It describes the encounter during which the reported AP observations were ordered. When present the encounter SHALL:

- be identified with an id element: encompassingEncounter/id
- 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

Included

0 ... 1 R

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 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/serviceProvider-Organization.

| | | | | | |
|-----------------------------|----|---------|---|------|-------------|
| └ h17:componentOf | | 0 ... 1 | R | | PaLM...dule |
| └ @typeCode | | 0 ... 1 | F | COMP | |
| └ h17:encompassingEncounter | | 1 ... 1 | | | PaLM...dule |
| └ @classCode | | 0 ... 1 | F | ENC | |
| └ @moodCode | | 0 ... 1 | F | EVN | |
| └ h17:id | II | 0 ... * | | | PaLM...dule |
| └ h17:code | CE | 0 ... 1 | | | PaLM...dule |

| | | | | | | |
|---|------------------------------|--------|--|---|--|-------------|
| | | CONF | The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.13955 <i>ActEncounter-Code</i> (DYNAMIC) | | | |
| └ | h17:effectiveTime | IVL_TS | 1 ... 1 | R | | PaLM...dule |
| └ | h17:dischargeDispositionCode | CE | 0 ... 1 | | | PaLM...dule |
| | | 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...dule |
| └ | @typeCode | | 0 ... 1 | F | RESP | |
| └ | h17:encounterParticipant | | 0 ... * | | | PaLM...dule |
| └ | @typeCode | cs | 1 ... 1 | R | | |
| | | CONF | The value of @typeCode shall be drawn from value set 2.16.840.1.113883.1.11.19600 <i>x_EncounterParticipant</i> (DYNAMIC) | | | |
| └ | h17:time | IVL_TS | 0 ... 1 | | | PaLM...dule |
| └ | h17:assignedEntity | | 1 ... 1 | | Contains 2.16.840.1.113883.10.12.153 <i>CDA AssignedEntity</i> (DYNAMIC) | PaLM...dule |
| └ | h17:location | | 0 ... 1 | | | PaLM...dule |
| └ | @typeCode | | 0 ... 1 | F | LOC | |
| └ | h17:healthCareFacility | | 1 ... 1 | | | PaLM...dule |
| └ | @classCode | | 0 ... 1 | F | SDLOC | |
| └ | h17:id | II | 0 ... * | | | PaLM...dule |
| └ | h17:code | CE | 0 ... 1 | | | PaLM...dule |
| | | 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...dule |

| | | | | | |
|---------------------------------|----|---------|---|---|-------------|
| h17:serviceProviderOrganization | | 0 ... 1 | | Contains 2.16.840.1.113883.10.12.151 CDA Organization (DYNAMIC) | PaLM...dule |
| h17:component | | 1 ... 1 | R | Body of the CDA Clinical document | PaLM...dule |
| @typeCode | CS | 1 ... 1 | F | COMP | |
| @contextConductionInd | bl | 1 ... 1 | F | true | |
| h17:structuredBody | | 1 ... 1 | R | | PaLM...dule |
| @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 Clinical Information Section (DYNAMIC) | PaLM...dule |
| @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 Intraoperative Observation Section (DYNAMIC) | PaLM...dule |
| @typeCode | CS | 1 ... 1 | F | COMP | |
| @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> (DYNAMIC) | PaLM...dule |
| 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> (DYNAMIC) | PaLM...dule |
| 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. Contains 1.3.6.1.4.1.19376.1.3.10.3.1 <i>Additional Specified Observation Section</i> (DYNAMIC) | PaLM...dule |
| L @typeCode | cs | 1 ... 1 | F | COMP | |
| L @contextConductionInd | bl | 1 ... 1 | F | true | |
| L h17: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 speci- | PaLM...dule |

| | | | | | | |
|--|--------------------------|----|---------|---|---|-------------|
| | | | | | men 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> (DYNAMIC) | |
| | where [not(@nullFlavor)] | | | | | |
| | └ @typeCode | cs | 1 ... 1 | F | COMP | |
| | └ @contextConductionInd | bl | 1 ... 1 | F | true | |
| | └ h17: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. | PaLM...dule |
| | | | | | Contains 1.3.6.1.4.1.19376.1.8.1.2.6 <i>Procedure Steps Section</i> (DYNAMIC) | |
| | └ @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 summarizes the common structure of the first six CDA APSR Section Content Modules specified here. Regarding the machine-readable part, the figure highlights the organization of entries within a section and of observations within an entry. Specific details such as the structure of sub-sections are not shown on this global picture.

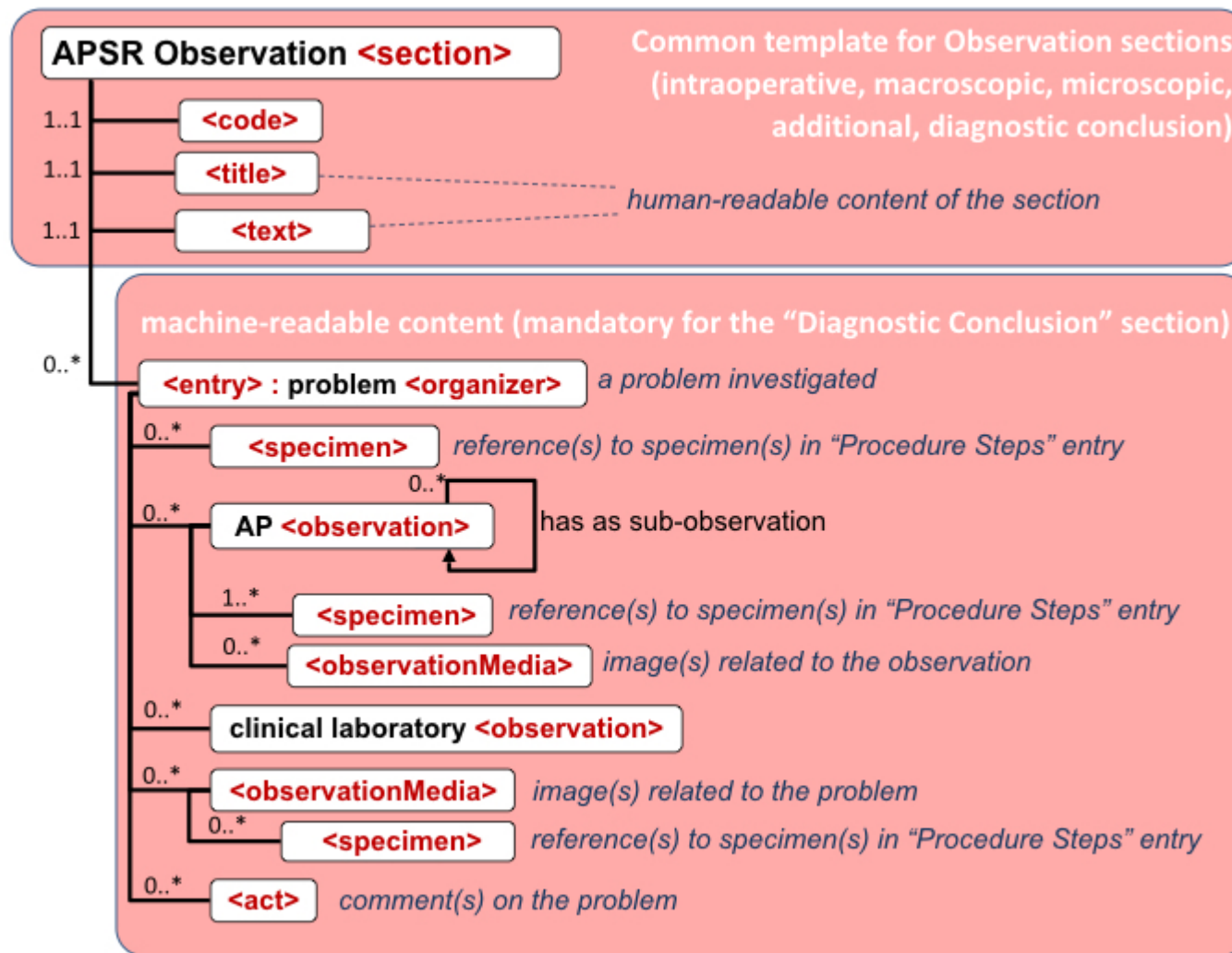


Figure 6.3.1.2.2-1 CDA APSR: common structure of machine-readable content for CDA APSR Section Content Modules except Procedure Step Content Module

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: The 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.

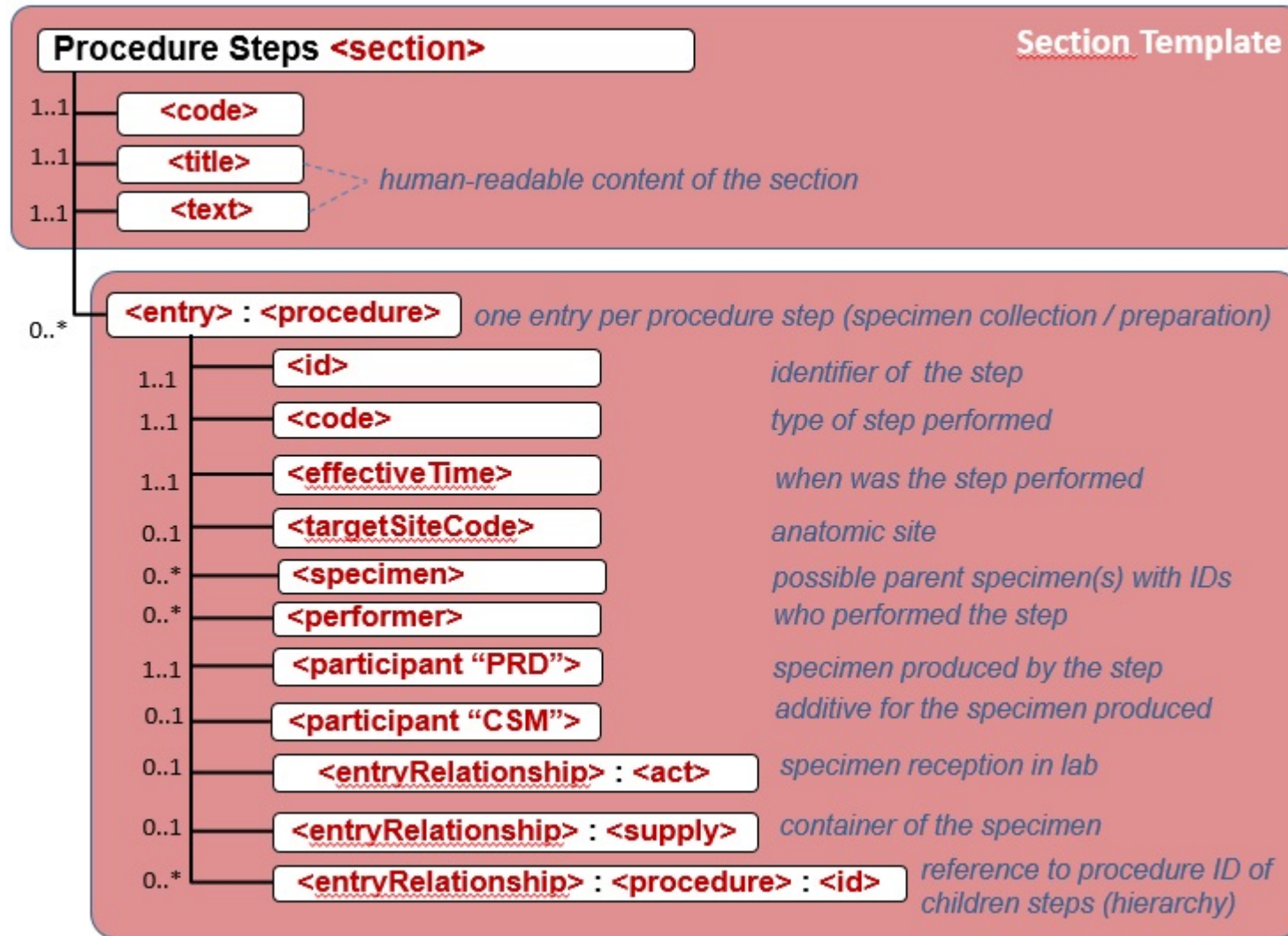


Figure 6.3.1.2.2-2 CDA APSR: common structure of machine-readable content for Procedure Step Content Module

6.3.2 Place Holder

Intentionally left blank

6.3.3 Place Holder

Intentionally left blank

6.3.4 CDA R2 <section> Content Modules

6.3.4.1 Clinical Information <section> - 1.3.6.1.4.1.19376.1.8.1.2.1

6.3.4.1.1 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.

6.3.4.1.2 Specification and Example




| | | | |
|---------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.8.1.2.1 | Effective Date | valid from 2014-05-13 14:38:08 |
| Status |  Draft | Version Label | 2.0 |
| Name | ClinicalInformationSection | Display Name | 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).

| | |
|-----------------------|--|
| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.8.1.2.1 |
| Label | PaLM Suppl. 2.0-3: 6.3.4.1 Clinical information section |
| Classification | CDA Section Level Template |
| Open/Closed | Open (other than defined elements are allowed) |

Used by 0 transactions and 1 template, Uses 5 templates

| Used by / Uses | Used by | as | Name | Version |
|-----------------------------|-----------------------------|--|---|---|
| | | 1.3.6.1.4.1.19376.1.8.1.1.1 | Containment |  Anatomic Pathology Structured Report Content Module (2.0) |
| Uses | as | Name | Version | |
| | 1.3.6.1.4.1.19376.1.8.1.3.6 | Containment |  Problem Organizer (2.0) | DYNAMIC |
| 1.3.6.1.4.1.19376.1.8.1.4.2 | Include |  CDA author IHE | DYNAMIC | |

| | | | | |
|--|---|--|--|---------|
| | 1.3.6.1.4.1.19376.1.5.3.1.3.1 Containment | | IHE Reason for Referral Section (2014) | DYNAMIC |
| | 1.3.6.1.4.1.19376.1.5.3.1.3.4 Containment | | History of Present Illness Section (2.1) | DYNAMIC |
| | 1.3.6.1.4.1.19376.1.5.3.1.3.6 Containment | | IHE Active Problems Section (2014) | DYNAMIC |

Relationship Specialization: template 2.16.840.1.113883.10.12.201 (2005-09-07)

Example

generated example

```
<section classCode="DOCSECT" moodCode="EVN">
  <templateId root="1.3.6.1.4.1.19376.1.8.1.2.1"/>
  <code code="22636-5" codeSystem="2.16.840.1.113883.6.1" displayName="Pathology report relevant history"/>
  <title>CLINICAL INFORMATION SECTION</title>
  <text/>
  <languageCode/>
  <entry xsi:type="ANY" typeCode="COMP" contextConductionInd="true">
    <!-- template 1.3.6.1.4.1.19376.1.8.1.3.6 'Problem Organizer' (dynamic) -->
  </entry>
  <!-- include template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author' (dynamic) 0..* C -->
  <component>
    <!-- template 1.3.6.1.4.1.19376.1.5.3.1.3.1 'IHE Reason for Referral Section' (dynamic) -->
  </component>
  <component>
    <!-- template 1.3.6.1.4.1.19376.1.5.3.1.3.4 'History of Present Illness Section' (dynamic) -->
  </component>
  <component>
    <!-- template 1.3.6.1.4.1.19376.1.5.3.1.3.6 'IHE Active Problems Section' (dynamic) -->
  </component>
</section>
```

| Item | DT | Card | Conf | Description | Label | |
|--------------|------------|--|------|-------------|-------------|--|
| h17:section | | 0 ... 1 | R | | PaLM...tion | |
| └ @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="22636-5" @codeSystem=""2.16.840.1.113883.6.1" @displayName=" Pathology report relevant history" 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 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...tion | |
| └ @root | uid | 1 ... 1 F | 1.3.6.1.4.1.19376.1.8.1.2.1 | | |
| └ h17:code | CE | 1 ... 1 M | | PaLM...tion | |
| └ @code | CONF | 1 ... 1 F | 22636-5 | | |
| └ @codeSystem | | 1 ... 1 F | 2.16.840.1.113883.6.1 (Logical Observation Identifier Names and Codes) | | |
| └ @codeSystemName | | 1 ... 1 F | LOINC | | |
| └ @displayName | | 1 ... 1 F | Pathology report relevant history | | |
| └ h17:title | ST | 1 ... 1 R | | PaLM...tion | |
| | CONF | | element content shall be "CLINICAL INFORMATION SECTION" | | |
| | Example | | <title>CLINICAL INFORMATION</title> | | |
| └ h17:text | SD.TEXT | 1 ... 1 M | | PaLM...tion | |
| | Example | | <text> Tissue submitted: left breast biopsy and apical axillary tissue </text> | | |
| └ h17:languageCode | CS | 0 ... 1 | | PaLM...tion | |
| | CONF | | The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.11526 <i>HumanLanguage</i> (DYNAMIC) | | |
| └ h17:entry | ANY | 0 ... * R | Problem organizer Contains 1.3.6.1.4.1.19376.1.8.1.3.6 <i>Problem Organizer</i> (DYNAMIC) | PaLM...tion | |

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|-------------------------|-----|---|---|---|---------------------------------------|--|
| └ @typeCode | cs | 0 ... 1 | F | COMP | | |
| └ @contextConductionInd | bl | 0 ... 1 | F | true | | |
| Included | | 0 ... * | C | from 1.3.6.1.4.1.19376.1.8.1.4.2 CDA author IHE (DYNAMIC) Source: PaLM Suppl. APSR 2.0-3: 6.3.6.2 | | |
| └ h17:author | | 0 ... * | C | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author | |
| └ @typeCode | cs | 1 ... 1 | F | AUT | | |
| Example | | <pre>author is a person <author typeCode="AUT" contextControlCode="OP"> <time value="201306101654"/> <assignedAuthor classCode="ASSIGNED"> <!-- ... --> </assignedAuthor> </author></pre> | | | | |
| └ h17:templateId | | 1 ... 1 | M | | PaLM Suppl. APSR 2.0-3:6.3.6.2 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 2.0-3:6.3.6.2 Author | |
| └ h17:assignedAuthor | | 0 ... 1 | C | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author | |
| └ @classCode | cs | 0 ... 1 | F | ASSIGNED | | |
| └ h17:id | II | 1 ... * | M | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author | |

| | | | | | | |
|----|-------------------------------|-----|---------|---|---|---------------------------------------|
| 02 | └ h17:addr | AD | 1 ... * | M | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| 03 | | | | | | |
| 04 | └ h17:telecom | TEL | 1 ... * | M | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| 05 | | | | | | |
| 06 | | | | | | |
| 07 | <i>Choice</i> | | 1 ... 1 | | The author is either an assigned person or an authoring device. Elements to choose from: | |
| 08 | | | | | <ul style="list-style-type: none"> ▪ hl7:assignedPerson ▪ hl7:assignedAuthoringDevice | |
| 09 | └ hl7:assignedPerson | | 0 ... 1 | C | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| 10 | | | | | | |
| 11 | <i>Included</i> | | 0 ... * | | from 2.16.840.1.113883.10.12.152 CDA Person (DYNAMIC) The name(s) SHALL be given. | |
| 12 | └ @classCode | | 0 ... 1 | F | PSN | |
| 13 | └ @determinerCode | | 0 ... 1 | F | INSTANCE | |
| 14 | | | | | | |
| 15 | └ hl7:name | PN | 0 ... * | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| 16 | | | | | | |
| 17 | └ hl7:assignedAuthoringDevice | | 0 ... 1 | C | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| 18 | | | | | | |
| 19 | └ @classCode | CS | 0 ... 1 | F | DEV | |
| 20 | └ @determinerCode | CS | 0 ... 1 | F | INSTANCE | |
| 21 | └ hl7:manufacturerModelName | SC | 0 ... 1 | R | | PaLM Suppl. APSR |
| 22 | | | | | | |

| | | | | | |
|-------------------------------|---------|--|---|---|--|
| | | | | | 2.0-3:6.3.6.2 Author |
| └ h17:softwareName | SC | 0 ... 1 | R | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| └ h17:code | CE | 0 ... 1 | R | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| └ h17:representedOrganization | | 0 ... 1 | | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| | Example | represented organization for author as a device <pre><representedOrganization classCode="ORG" determinerCode="INSTANCE"> <name> <!-- ... --> </name> </representedOrganization></pre> | | | |
| Included | | 0 ... 1 | | from 2.16.840.1.113883.10.12.151 CDA Organization (DYNAMIC) 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 2.0-3:6.3.6.2 Author |
| └ h17:name | ON | 0 ... 1 | | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| └ h17:telecom | TEL | 0 ... 1 | | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |

| | | | | | |
|-------------------------------|--------|---------|---|---|---------------------------------------|
| h17:addr | AD | 0 ... 1 | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| h17:standardIndustryClassCode | CE | 0 ... 1 | | SHALL be chosen from domain OrganizationIndustryClass | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| h17:asOrganizationPartOf | | 0 ... 1 | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| @classCode | | 0 ... 1 | F | PART | |
| h17:id | II | 0 ... * | R | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| h17:code | CE | 0 ... 1 | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| @codeSystem | CONF | 1 ... 1 | F | 2.16.840.1.113883.5.111 (Role Code) | |
| h17:statusCode | CS | 0 ... 1 | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 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 2.0-3:6.3.6.2 Author |
| h17:wholeOrganization | | 0 ... 1 | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |

| | | | | | |
|--|---------------------------------|-----|-----------|---|--------------------------------------|
| | └ @classCode | | 0 ... 1 F | ORG | |
| | └ @determinerCode | | 0 ... 1 F | INSTANCE | |
| | └ h17:id | II | 0 ... * | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| | └ h17:name | ON | 0 ... * | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| | └ h17:telecom | TEL | 0 ... * | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| | └ h17:addr | AD | 0 ... * | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| | └ h17:standardIndustryClassCode | CE | 0 ... 1 | SHALL be chosen from domain OrganizationIndustryClass | PaLM Suppl.APSR 2.0-3:6.3.6.2 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> (DYNAMIC) | PaLM...tion |
| | └ 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>History of Present Illness Section</i> (DYNAMIC) | PaLM...tion |
| | └ h17:component | | 0 ... 1 | Subsection Source: PCC TF-2: 6.3.3.2.3 | PaLM...tion |

Contains 1.3.6.1.4.1.19376.1.5.3.1.3.6 IHE Active Problems Section (DYNAMIC)

6.3.4.2 Intraoperative Observation <section> - 1.3.6.1.4.1.19376.1.8.1.2.2

6.3.4.2.1 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.

6.3.4.2.2 Specification and Example




| | | | |
|---------------|---|-----------------------|------------------------------------|
| Id | 1.3.6.1.4.1.19376.1.8.1.2.2 | Effective Date | valid from 2014-05-13 19:29:16 |
| Status |  Draft | Version Label | 2.0 |
| Name | IntraoperativeObservationSection | Display Name | 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).

| | |
|-----------------------|--|
| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.8.1.2.2 |
| Label | PaLM Suppl. 2.0-3: 6.3.4.2 Intraoperative observation section |
| Classification | CDA Section Level Template |
| Open/Closed | Open (other than defined elements are allowed) |

Used by 0 transactions and 1 template, Uses 2 templates

| Used by | as | Name | Version |
|-----------------------------|-------------|---|---------------------|
| 1.3.6.1.4.1.19376.1.8.1.1.1 | Containment |  Anatomic Pathology Structured Report Content Module (2.0) | 2014-05-13 11:57:57 |
| Uses | as | Name | Version |
| 1.3.6.1.4.1.19376.1.8.1.4.2 | Include |  CDA author IHE | DYNAMIC |
| 1.3.6.1.4.1.19376.1.8.1.3.6 | Containment |  Problem Organizer (2.0) | DYNAMIC |

Relationship Specialization: template 2.16.840.1.113883.10.12.201 (2005-09-07)

```

generated example
<section classCode="DOCSECT" moodCode="EVN">
  <templateId root="1.3.6.1.4.1.19376.1.8.1.2.2"/>
  <code code="83321-0" codeSystem="2.16.840.1.113883.6.1" displayName="Pathology report intraoperative observation in Specimen Document"/>
  <title>INTRAOPERATIVE OBSERVATION SECTION</title>
  <text/>
  <languageCode/>
  <!-- include template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author' (dynamic) 0..* C -->
  <entry typeCode="COMP" contextConductionInd="true">
    <!-- template 1.3.6.1.4.1.19376.1.8.1.3.6 'Problem Organizer' (dynamic) -->
  </entry>
</section>

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| Item | DT | Card | Conf | Description | Label |
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| h17:section | | 0 ... 1 | R | | PaLM...tion |
| └ @classCode | cs | 1 ... 1 | F | DOCSECT | |
| └ @moodCode | cs | 1 ... 1 | F | EVN | |
| | Constraint | | | <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 observed. These entries provide the machine-readable data corresponding to the narrative block.</p> <p>This section does not contain any subsection.</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...tion |
| └ @root | uid | 1 ... 1 | F | 1.3.6.1.4.1.19376.1.8.1.2.2 | |
| └ h17:code | CE | 1 ... 1 | M | | PaLM...tion |
| └ @code | CONF | 1 ... 1 | F | 83321-0 | |

| | | | | | |
|----|--------------------|---------|-----------|--|---------------------------------------|
| 02 | └ @codeSystem | | 1 ... 1 F | 2.16.840.1.113883.6.1 (Logical Observation Identifier Names and Codes) | |
| 03 | └ @codeSystemName | | 1 ... 1 F | LOINC | |
| 04 | └ @displayName | | 1 ... 1 F | Pathology report intraoperative observation in Specimen Document | |
| 05 | └ h17:title | ST | 1 ... 1 R | | PaLM...tion |
| 06 | | CONF | | element content shall be "INTRAOPERATIVE OBSERVATION SECTION" | |
| 07 | └ h17:text | SD.TEXT | 1 ... 1 M | | PaLM...tion |
| 08 | | Example | | Intraoperative observation <text>Frozen section diagnosis of infiltrating duct carcinoma, left breast</text> | |
| 09 | └ h17:languageCode | CS | 0 ... 1 | | PaLM...tion |
| 10 | | CONF | | The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.11526 HumanLanguage (DYNAMIC) | |
| 11 | | | | from 1.3.6.1.4.1.19376.1.8.1.4.2 CDA author IHE (DYNAMIC) | |
| 12 | Included | | 0 ... * C | Author Source: PaLM Suppl. APSR 2.0-3: 6.2.6.2 | |
| 13 | | | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| 14 | └ h17:author | | 0 ... * C | | |
| 15 | | | | | |
| 16 | └ @typeCode | cs | 1 ... 1 F | AUT | |
| 17 | | Example | | author is a person <author typeCode="AUT" contextControlCode="OP"> <time value="201306101654"/> <assignedAuthor classCode="ASSIGNED"> <!-- ... --> </assignedAuthor> </author> | |
| 18 | | | | | |
| 19 | | | | | |
| 20 | └ h17:templateId | | 1 ... 1 M | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| 21 | | | | | |
| 22 | └ @root | uid | 1 ... 1 F | 1.3.6.1.4.1.19376.1.8.1.4.2 | |

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|--------------------|-----|---------|---|---|---------------------------------------|
| 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 2.0-3:6.3.6.2 Author |
| h17:assignedAuthor | | 0 ... 1 | C | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| @classCode | CS | 0 ... 1 | F | ASSIGNED | |
| h17:id | II | 1 ... * | M | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| h17:addr | AD | 1 ... * | M | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| h17:telecom | TEL | 1 ... * | M | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| <i>Choice</i> | | 1 ... 1 | | The author is either an assigned person or an authoring device. Elements to choose from: <ul style="list-style-type: none"> h17:assignedPerson h17:assignedAuthoringDevice | |
| h17:assignedPerson | | 0 ... 1 | C | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| <i>Included</i> | | 0 ... * | | from 2.16.840.1.113883.10.12.152 CDA Person (DYNAMIC) The name(s) SHALL be given. | |
| @classCode | | 0 ... 1 | F | PSN | |
| @determinerCode | | 0 ... 1 | F | INSTANCE | |

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|----|-------------------------------|---------|---|---|--------------------------------------|
| 02 | └ h17:name | PN | 0 ... * | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| 04 | └ h17:assignedAuthoringDevice | | 0 ... 1 C | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| 06 | └ @classCode | CS | 0 ... 1 F | DEV | |
| 07 | └ @determinerCode | CS | 0 ... 1 F | INSTANCE | |
| 09 | └ h17:manufacturerModelName | SC | 0 ... 1 R | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| 11 | └ h17:softwareName | SC | 0 ... 1 R | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| 13 | └ h17:code | CE | 0 ... 1 R | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| 15 | └ h17:representedOrganization | | 0 ... 1 | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| 17 | | Example | <pre> represented organization for author as a device <representedOrganization classCode="ORG" determinerCode="INSTANCE"> <name> <!-- ... --> </name> </representedOrganization> </pre> | | |
| 20 | Included | | 0 ... 1 | from 2.16.840.1.113883.10.12.151 CDA Organization (DYNAMIC) The identifier(s) SHOULD, the name SHALL, the telecom(s) and the address(es) MAY be given. | |
| 22 | └ @classCode | | 0 ... 1 F | ORG | |

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| └ @determinerCode | | | 0 ... 1 | F | INSTANCE | |
| └ h17:id | II | | 0 ... 1 | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| └ h17:name | ON | | 0 ... 1 | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| └ h17:telecom | TEL | | 0 ... 1 | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| └ h17:addr | AD | | 0 ... 1 | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| └ h17:standardIndustryClassCode | CE | | 0 ... 1 | | SHALL be chosen from domain OrganizationIndustryClass | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| └ h17:asOrganizationPartOf | | | 0 ... 1 | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| └ @classCode | | | 0 ... 1 | F | PART | |
| └ h17:id | II | | 0 ... * | R | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| └ h17:code | CE | | 0 ... 1 | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| └ @codeSystem | CONF | | 1 ... 1 | F | 2.16.840.1.113883.5.111 (Role Code) | |

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|-------------------------------|--------|---------|--|---|---------------------------------------|
| h17:statusCode | CS | 0 ... 1 | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| | CONF | | The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15999 RoleStatus (DYNAMIC) | | |
| h17:effectiveTime | IVL_TS | 0 ... 1 | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| h17:wholeOrganization | | 0 ... 1 | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| @classCode | | 0 ... 1 | F | ORG | |
| @determinerCode | | 0 ... 1 | F | INSTANCE | |
| h17:id | II | 0 ... * | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| h17:name | ON | 0 ... * | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| h17:telecom | TEL | 0 ... * | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| h17:addr | AD | 0 ... * | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| h17:standardIndustryClassCode | CE | 0 ... 1 | | SHALL be chosen from domain OrganizationIndustryClass | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |


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|-----------------------|----|-----------|---|-------------|
| h17:entry | | 0 ... * R | Source: PAT TF-3:6.2.6.8 | PaLM...tion |
| @typeCode | cs | 1 ... 1 F | Contains 1.3.6.1.4.1.19376.1.8.1.3.6 <i>Problem Organizer</i> (DYNAMIC) | |
| @contextConductionInd | bl | 0 ... 1 F | COMP | |
| | | | true | |

6.3.4.3 Macroscopic Observation <section> - 1.3.6.1.4.1.19376.1.8.1.2.3

6.3.4.3.1 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.

6.3.4.3.2 Specification and Example

| | | | |
|---------------|---|-----------------------|---------------------------------|
| Id | 1.3.6.1.4.1.19376.1.8.1.2.3 | Effective Date | valid from 2014-05-13 11:57:09 |
| Status |  Draft | Version Label | 2.0 |
| Name | MacroscopySection | Display Name | 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).

| | | | | |
|-----------------------|--|-------------|---|---------------------|
| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.8.1.2.3 | | | |
| Label | PaLM Suppl. 2.0-3: 6.3.4.3 Macroscopic observation section | | | |
| Classification | CDA Section Level Template | | | |
| Open/Closed | Open (other than defined elements are allowed) | | | |
| Used by / Uses | Used by 0 transactions and 1 template, Uses 2 templates | | | |
| | Used by | as | Name | Version |
| | 1.3.6.1.4.1.19376.1.8.1.1.1 | Containment |  Anatomic Pathology Structured Report Content Module (2.0) | 2014-05-13 11:57:57 |
| Uses | as | Name | Version | |

| | | |
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| | 1.3.6.1.4.1.19376.1.8.1.4.2 Include ● CDA author IHE | DYNAMIC |
| | 1.3.6.1.4.1.19376.1.8.1.3.6 Containment ● Problem Organizer (2.0) | DYNAMIC |
| Relationship | Specialization: template 2.16.840.1.113883.10.12.201 (2005-09-07) | |
| Example | <p>Example</p> <pre> <section> <templateId root="1.3.6.1.4.1.19376.1.8.1.2.3"/> <code code="22634-0" codeSystem="2.16.840.1.113883.6.1" displayName="Pathology report gross observation"/> <title>MACROSCOPIC OBSERVATION SECTION</title> <text/> <!-- include template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author' (dynamic) 0..* C --> <entry typeCode="COMP"> <!-- template 1.3.6.1.4.1.19376.1.8.1.3.6 'Problem Organizer' (dynamic) --> </entry> <component typeCode="COMP"> <!-- template 1.3.6.1.4.1.19376.1.8.1.4.10 'Embedded Image IHE' (dynamic) --> </component> </section> </pre> | |

| Item | DT | Card | Conf | Description | Label |
|------------------|------------|---------|------|--|-------------|
| h17:section | | 0 ... 1 | R | | PaLM...tion |
| | Constraint | | | <p>This section SHALL contain a code element populated with these attributes:</p> <p>@code="22634-0"</p> <p>@codeSystem="2.16.840.1.113883.6.1"</p> <p>@displayName="Pathology report gross observation"</p> <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> <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> | |
| L h17:templateId | II | 1 ... 1 | M | | PaLM...tion |

| | | | | | |
|----|-------------------|---------|--|--|---------------------------------------|
| 02 | └ @root | uid | 1 ... 1 F | 1.3.6.1.4.1.19376.1.8.1.2.3 | |
| 03 | └ h17:code | CE | 1 ... 1 M | | PaLM...tion |
| 04 | └ @code | CONF | 1 ... 1 F | 22634-0 | |
| 05 | └ @codeSystem | | 1 ... 1 F | 2.16.840.1.113883.6.1 (Logical Observation Identifier Names and Codes) | |
| 06 | └ @codeSystemName | | 1 ... 1 F | LOINC | |
| 07 | └ @displayName | | 1 ... 1 F | Pathology report gross observation | |
| 08 | | | | | |
| 09 | └ h17:title | ST | 1 ... 1 R | | PaLM...tion |
| 10 | | CONF | element content shall be "MACROSCOPIC OBSERVATION SECTION" | | |
| 11 | | Example | <code><title>Macroscopic Observation</title></code> | | |
| 12 | └ h17:text | SD.TEXT | 1 ... 1 M | | PaLM...tion |
| 13 | | Example | example for use case #1 <code><text>A. "RIGHT BREAST FIVE CORES 8-9:00" (ULTRASOUND GUIDED NEEDLE CORE BIOPSY)</text></code> | | |
| 14 | Included | | 0 ... * C | from 1.3.6.1.4.1.19376.1.8.1.4.2 CDA author IHE (DYNAMIC) Author | |
| 15 | | | | Source: PaLM Suppl. APSR 2.0-3: 6.3.6.2 | |
| 16 | └ h17:author | | 0 ... * C | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| 17 | | | | | |
| 18 | └ @typeCode | cs | 1 ... 1 F | AUT | |
| 19 | | Example | author is a person | | |
| 20 | | | <code><author typeCode="AUT" contextControlCode="OP"> <time value="201306101654"/> <assignedAuthor classCode="ASSIGNED"> <!-- ... --> </assignedAuthor> </author></code> | | |
| 21 | | | | | |
| 22 | └ h17:templateId | | 1 ... 1 M | | PaLM Suppl. APSR |

| | | | | | |
|----------------------|-----|---------|---|---|--|
| | | | | | 2.0-3:6.3.6.2 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 2.0-3:6.3.6.2 Author |
| └ h17:assignedAuthor | | 0 ... 1 | C | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| └ @classCode | cs | 0 ... 1 | F | ASSIGNED | |
| └ h17:id | II | 1 ... * | M | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| └ h17:addr | AD | 1 ... * | M | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| └ h17:telecom | TEL | 1 ... * | M | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| <i>Choice</i> | | 1 ... 1 | | The author is either an assigned person or an authoring device. Elements to choose from: <ul style="list-style-type: none"> h17:assignedPerson h17:assignedAuthoringDevice | |
| └ h17:assignedPerson | | 0 ... 1 | C | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| <i>Included</i> | | 0 ... * | | from 2.16.840.1.113883.10.12.152 CDA Person (DYNAMIC) The name(s) SHALL be given. | |

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| └ @classCode | | 0 ... 1 F | PSN | |
| └ @determinerCode | | 0 ... 1 F | INSTANCE | |
| └ h17:name | PN | 0 ... * | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| └ h17:assignedAuthoringDevice | | 0 ... 1 C | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| └ @classCode | CS | 0 ... 1 F | DEV | |
| └ @determinerCode | CS | 0 ... 1 F | INSTANCE | |
| └ h17:manufacturerModelName | SC | 0 ... 1 R | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| └ h17:softwareName | SC | 0 ... 1 R | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| └ h17:code | CE | 0 ... 1 R | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| └ h17:representedOrganization | | 0 ... 1 | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| | Example | <pre> represented organization for author as a device <representedOrganization classCode="ORG" determinerCode="INSTANCE"> <name> <!-- ... --> </name> </representedOrganization> </pre> | | |

| | | | | | | |
|----------|---------------------------------|-----|---------|---|---|--------------------------------------|
| Included | | | 0 ... 1 | | from 2.16.840.1.113883.10.12.151 CDA Organization (DYNAMIC) 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 2.0-3:6.3.6.2 Author |
| | └ h17:name | ON | 0 ... 1 | | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| | └ h17:telecom | TEL | 0 ... 1 | | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| | └ h17:addr | AD | 0 ... 1 | | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| | └ h17:standardIndustryClassCode | CE | 0 ... 1 | | SHALL be chosen from domain OrganizationIndustryClass | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| | └ h17:asOrganizationPartOf | | 0 ... 1 | | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| | └ @classCode | | 0 ... 1 | F | PART | |
| | └ h17:id | II | 0 ... * | R | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |

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| h17:code | CE | 0 ... 1 | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| @codeSystem | CONF | 1 ... 1 F | | 2.16.840.1.113883.5.111 (Role Code) | |
| h17:statusCode | CS | 0 ... 1 | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 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 2.0-3:6.3.6.2 Author |
| h17:wholeOrganization | | 0 ... 1 | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| @classCode | | 0 ... 1 F | | ORG | |
| @determinerCode | | 0 ... 1 F | | INSTANCE | |
| h17:id | II | 0 ... * | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| h17:name | ON | 0 ... * | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| h17:telecom | TEL | 0 ... * | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| h17:addr | AD | 0 ... * | | | PaLM Suppl. APSR |

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|---------------------------------|----|---------|---|--|--|
| | | | | | 2.0-3:6.3.6.2 Author |
| └ h17:standardIndustryClassCode | CE | 0 ... 1 | | SHALL be chosen from domain OrganizationIndustryClass | PaLM Suppl. APSR 2.0-3:6.3.6.2 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> (DYNAMIC) | PaLM...tion |
| └ @typeCode | cs | 1 ... 1 | F | COMP | |
| └ @contextConductionInd | bl | 0 ... 1 | F | true | |

6.3.4.4 Microscopic Observation <section> - 1.3.6.1.4.1.19376.1.8.1.2.4

6.3.4.4.1 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.

6.3.4.4.2 Specification and Example

| | | | |
|---------------|--|-----------------------|---------------------------------|
| Id | 1.3.6.1.4.1.19376.1.8.1.2.4 | Effective Date | valid from 2014-05-13 14:25:17 |
| Status |  Draft | Version Label | 2.0 |
| Name | MicroscopySection | Display Name | 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.

| | |
|-----------------------|--|
| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.8.1.2.4 |
| Label | PaLM Suppl. 2.0-3: 6.3.4.4 Microscopic observation section |
| Classification | CDA Section Level Template |
| Open/Closed | Open (other than defined elements are allowed) |
| Used by / Uses | Used by 0 transactions and 1 template, Uses 2 templates |

| Used by | as | Name | Version |
|-----------------------------|-------------|---|---------------------|
| 1.3.6.1.4.1.19376.1.8.1.1.1 | Containment | Anatomic Pathology Structured Report Content Module (2.0) | 2014-05-13 11:57:57 |
| Uses | as | Name | Version |
| 1.3.6.1.4.1.19376.1.8.1.4.2 | Include | CDA author IHE | DYNAMIC |
| 1.3.6.1.4.1.19376.1.8.1.3.6 | Containment | Problem Organizer (2.0) | DYNAMIC |

Relationship Specialization: template 2.16.840.1.113883.10.12.201 (2005-09-07)

Example

```

<section>
  <templateId root="1.3.6.1.4.1.19376.1.8.1.2.4"/>
  <code code="22635-7" codeSystem="2.16.840.1.113883.6.1" displayName="Pathology report microscopic observation"/>
  <title>MICROSCOPIC OBSERVATION SECTION</title>
  <text/>
  <!-- include template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author' (dynamic) 0..* C -->
  <entry>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.3.6 'Problem Organizer' (dynamic) -->
  </entry>
  <component typeCode="COMP">
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.10 'Embedded Image IHE' (dynamic) -->
  </component>
</section>

```

| Item | DT | Card | Conf | Description | Label |
|-------------|------------|--|------|-------------|-------------|
| hl7:section | | 0 ... 1 | R | | PaLM...tion |
| | Constraint | <p>This section SHALL contain a code element populated with these attributes:</p> <ul style="list-style-type: none"> @code="22635-7" @codeSystem="2.16.840.1.113883.6.1" @displayName="Pathology report microscopic observation" <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> | | | |

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|-------------------|---------|-----------|---|-------------|
| | | | <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> | |
| └ h17:templateId | II | 1 ... 1 M | | PaLM...tion |
| └ @root | uid | 1 ... 1 F | 1.3.6.1.4.1.19376.1.8.1.2.4 | |
| └ h17:code | CE | 1 ... 1 M | | PaLM...tion |
| └ @code | CONF | 1 ... 1 F | 22635-7 | |
| └ @codeSystem | | 1 ... 1 F | 2.16.840.1.113883.6.1 (Logical Observation Identifier Names and Codes) | |
| └ @codeSystemName | | 1 ... 1 F | LOINC | |
| └ @displayName | | 1 ... 1 F | Pathology report microscopic observation | |
| └ h17:title | ST | 1 ... 1 R | | PaLM...tion |
| | CONF | | element content shall be "MICROSCOPIC OBSERVATION SECTION" | |
| | Example | | <code><title>MICROSCOPIC OBSERVATION SECTION</title></code> | |
| └ h17:text | SD.TEXT | 1 ... 1 M | | PaLM...tion |
| | Example | | <p>example from use case#1</p> <pre> <text> INVASIVE ADENOCARCINOMA OF THE BREAST. HISTOLOGIC TYPE: DUCTAL. NOTTINGHAM COMBINED HISTOLOGIC GRADE: 1 OF 3. <list> <item>TUBULE FORMATION SCORE: 2.</item> <item>NUCLEAR PLEOMORPHISM SCORE: 2.</item> <item>MITOTIC RATE SCORE: 1.</item> </list> IN-SITU CARCINOMA: EQUIVOCAL. </pre> | |

| | | | |
|-------------------------|------------|------------------|--|
| | | | <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> </pre> |
| <p>Included</p> | | <p>0 ... * C</p> | <p>from 1.3.6.1.4.1.19376.1.8.1.4.2 CDA author IHE (DYNAMIC) 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 2.0-3:6.3.6.2 Author</p> |
| <p>└ @typeCode</p> | <p>cs</p> | <p>1 ... 1 F</p> | <p>AUT Example author is a person <pre> <author typeCode="AUT" contextControlCode="OP"> <time value="201306101654"/> <assignedAuthor classCode="ASSIGNED"> <!-- ... --> </assignedAuthor> </author> </pre> </p> |
| <p>└ h17:templateId</p> | | <p>1 ... 1 M</p> | <p>PaLM Suppl. APSR 2.0-3:6.3.6.2 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 & time that this author contributed to the document. It SHALL be provided. PaLM Suppl. APSR 2.0-3:6.3.6.2 Author</p> |

| | | | | | | |
|----|----------------------|-----|---------|---|---|---------------------------------------|
| 02 | └ h17:assignedAuthor | | 0 ... 1 | C | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| 04 | └ @classCode | CS | 0 ... 1 | F | ASSIGNED | |
| 06 | └ h17:id | II | 1 ... * | M | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| 08 | └ h17:addr | AD | 1 ... * | M | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| 10 | └ h17:telecom | TEL | 1 ... * | M | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| 12 | | | | | The author is either an assigned person or an authoring device. | |
| 13 | <i>Choice</i> | | 1 ... 1 | | Elements to choose from: | |
| | | | | | <ul style="list-style-type: none"> ▪ h17:assignedPerson ▪ h17:assignedAuthoringDevice | |
| 15 | └ h17:assignedPerson | | 0 ... 1 | C | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| 17 | <i>Included</i> | | 0 ... * | | from 2.16.840.1.113883.10.12.152 CDA Person (DYNAMIC) The name(s) SHALL be given. | |
| 18 | └ @classCode | | 0 ... 1 | F | PSN | |
| 19 | └ @determinerCode | | 0 ... 1 | F | INSTANCE | |
| 21 | └ h17:name | PN | 0 ... * | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |

| | | | | | | |
|----|-------------------------------|---------|--|---|---|---------------------------------------|
| 01 | | | | | | |
| 02 | └ h17:assignedAuthoringDevice | | 0 ... 1 | C | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| 03 | | | | | | |
| 04 | └ @classCode | CS | 0 ... 1 | F | DEV | |
| 05 | └ @determinerCode | CS | 0 ... 1 | F | INSTANCE | |
| 06 | | | | | | |
| 07 | └ h17:manufacturerModelName | SC | 0 ... 1 | R | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| 08 | | | | | | |
| 09 | └ h17:softwareName | SC | 0 ... 1 | R | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| 10 | | | | | | |
| 11 | └ h17:code | CE | 0 ... 1 | R | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| 12 | | | | | | |
| 13 | └ h17:representedOrganization | | 0 ... 1 | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| 14 | | | | | | |
| 15 | | Example | represented organization for author as a device <pre> <representedOrganization classCode="ORG" determinerCode="INSTANCE"> <name> <!-- ... --> </name> </representedOrganization> </pre> | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | Included | | 0 ... 1 | | from 2.16.840.1.113883.10.12.151 CDA Organization (DYNAMIC) The identifier(s) SHOULD, the name SHALL, the telecom(s) and the address(es) MAY be given. | |
| 19 | | | | | | |
| 20 | └ @classCode | | 0 ... 1 | F | ORG | |
| 21 | └ @determinerCode | | 0 ... 1 | F | INSTANCE | |
| 22 | └ h17:id | II | 0 ... 1 | | | PaLM Suppl. APSR |
| 23 | | | | | | |

| | | | | | |
|---------------------------------|------|---------|---|---|--|
| | | | | | 2.0-3:6.3.6.2 Author |
| L h17:name | ON | 0 ... 1 | | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| L h17:telecom | TEL | 0 ... 1 | | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| L h17:addr | AD | 0 ... 1 | | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| L h17:standardIndustryClassCode | CE | 0 ... 1 | | SHALL be chosen from domain OrganizationIndustryClass | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| L h17:asOrganizationPartOf | | 0 ... 1 | | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| L @classCode | | 0 ... 1 | F | PART | |
| L h17:id | II | 0 ... * | R | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| L h17:code | CE | 0 ... 1 | | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| L @codeSystem | CONF | 1 ... 1 | F | 2.16.840.1.113883.5.111 (Role Code) | |
| L h17:statusCode | CS | 0 ... 1 | | | PaLM Suppl.APSR 2.0-3:6.3.6.2 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 2.0-3:6.3.6.2 Author |
| └ h17:wholeOrganization | | 0 ... 1 | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| └ @classCode | | 0 ... 1 | F | ORG | |
| └ @determinerCode | | 0 ... 1 | F | INSTANCE | |
| └ h17:id | II | 0 ... * | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| └ h17:name | ON | 0 ... * | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| └ h17:telecom | TEL | 0 ... * | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| └ h17:addr | AD | 0 ... * | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| └ h17:standardIndustryClassCode | CE | 0 ... 1 | | SHALL be chosen from domain OrganizationIndustryClass | PaLM Suppl. APSR 2.0-3:6.3.6.2 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> (DYNAMIC) | PaLM...tion |


| | | | | |
|-----------------------|----|---------|---|------|
| @typeCode | cs | 1 ... 1 | F | COMP |
| @contextConductionInd | bl | 0 ... 1 | F | true |

6.3.4.5 Additional Specified Observation <section> - 1.3.6.1.4.1.19376.1.3.10.3.1

6.3.4.5.1 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. The only entry for this section is the Problem Organizer Entry module.



6.3.4.5.2 Specification and Example

| | | | |
|---------------|---|-----------------------|--|
| Id | 1.3.6.1.4.1.19376.1.3.10.3.1 | Effective Date | valid from 2016-11-13 14:28:08 |
| Status |  Draft | Version Label | 2.0 |
| Name | AdditionalSpecifiedObservationSection | Display Name | 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. The only entry for this section is the Problem Organizer Entry module.

| | | | | |
|-----------------------|---|-------------|---|---------------------|
| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.3.1 | | | |
| Label | PaLM Suppl. 2.0-3: 6.3.4.5 Additional specified observation section | | | |
| Classification | CDA Section Level Template | | | |
| Open/Closed | Open (other than defined elements are allowed) | | | |
| | Used by 0 transactions and 1 template, Uses 2 templates | | | |
| Used by / Uses | Used by | as | Name | Version |
| | 1.3.6.1.4.1.19376.1.8.1.1.1 | Containment |  Anatomic Pathology Structured Report Content Module (2.0) | 2014-05-13 11:57:57 |
| | Uses | as | Name | Version |
| | 1.3.6.1.4.1.19376.1.8.1.4.2 | Containment |  CDA author IHE | DYNAMIC |

1.3.6.1.4.1.19376.1.8.1.3.6 Containment  Problem Organizer (2.0)

DYNAMIC

Relationship

Adaptation: template 2.16.840.1.113883.10.12.201 (2005-09-07)

Example

generated example

```
<section classCode="DOCSECT" moodCode="EVN">
  <templateId root="1.3.6.1.4.1.19376.1.3.10.3.1"/>
  <code code="xxxxx-x" codeSystem="2.16.840.1.113883.6.1" displayName="specified observation"/>
  <title>ADDITIONAL SPECIFIED OBSERVATION SECTION</title>
  <text/>
  <author>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author' (dynamic) -->
  </author>
  <entry typeCode="COMP" contextConductionInd="true">
    <!-- template 1.3.6.1.4.1.19376.1.8.1.3.6 'Problem Organizer' (dynamic) -->
  </entry>
</section>
```

| Item | DT | Card | Conf | Description | Label |
|--------------|----|---------|------|--|-------------|
| hl7:section | | 0 ... * | R | | PaLM...tion |
| └ @classCode | CS | 0 ... 1 | F | DOCSECT | |
| └ @moodCode | CS | 0 ... 1 | F | EVN | |
| | | | | This section SHALL contain a code element populated with these attributes: @code="xxxxx-x" (specific for the additional specified observation) @codeSystem="2.16.840.1.113883.6.1" @displayName="Pathology report yyyyy (specific) observation" | |
| | | | | Constraint This section SHALL contain a narrative block, represented by a <i>textelement</i> , 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 to be described. These entries provide the machine-readable data corresponding to the narrative block. 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. | |

| | | | | |
|-------------------------|------------|---|--|---|
| | | | This section does not contain any subsections. | |
| └ h17:templateId | II | 1 ... 1 | M | PaLM...tion |
| └ @root | uid | 1 ... 1 | F | 1.3.6.1.4.1.19376.1.3.10.3.1 |
| └ h17:code | CE | 1 ... 1 | M | PaLM...tion |
| | Constraint | The LOINC code SHALL be chosen according the specified observation type | | |
| └ @code | CONF | 1 ... 1 | F | xxxxx-x |
| └ @codeSystem | | 1 ... 1 | F | 2.16.840.1.113883.6.1 (Logical Observation Identifier Names and Codes) |
| └ @displayName | | 1 ... 1 | F | specified observation |
| └ @codeSystemName | | 1 ... 1 | F | LOINC |
| └ h17:title | ST | 1 ... 1 | R | Title of the specified observation PaLM...tion |
| | CONF | element content shall be "ADDITIONAL SPECIFIED OBSERVATION SECTION" | | |
| | Example | MP observation <text>MOLECULAR PATHOLOGY OBSERVATION SECTION</text> | | |
| └ h17:text | SD.TEXT | 1 ... 1 | M | PaLM...tion |
| └ h17:author | | 0 ... * | C | 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>CDA author IHE</i> (DYNAMIC) PaLM...tion |
| └ 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> (DYNAMIC) PaLM...tion |
| └ @typeCode | cs | 1 ... 1 | F | COMP |
| └ @contextConductionInd | bl | 0 ... 1 | F | true |

6.3.4.6 Diagnostic Conclusion <section> - 1.3.6.1.4.1.19376.1.8.1.2.5

6.3.4.6.1 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 entry for this section is the Problem Organizer Entry module.

6.3.4.6.2 Specification and Example

| | | | |
|---------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.8.1.2.5 | Effective Date | valid from 2014-05-13 19:31:26 |
| Status |  Draft | Version Label | 2.0 |
| Name | DiagnosticConclusionSection | Display Name | 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.

| | | | |
|-----------------------------|--|---|---|
| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.8.1.2.5 | | |
| Label | PaLM Suppl. 2.0-3: 6.3.4.6 Diagnostic conclusion section | | |
| Classification | CDA Section Level Template | | |
| Open/Closed | Open (other than defined elements are allowed) | | |
| Used by / Uses | Used by 0 transactions and 1 template, Uses 2 templates | | |
| | Used by | as | Name |
| | 1.3.6.1.4.1.19376.1.8.1.1.1 | Containment |  Anatomic Pathology Structured Report Content Module (2.0) |
| | Uses | as | Name |
| 1.3.6.1.4.1.19376.1.8.1.4.2 | Include |  CDA author IHE | |
| 1.3.6.1.4.1.19376.1.8.1.3.6 | Containment |  Problem Organizer (2.0) | |
| Relationship | Specialization: template 2.16.840.1.113883.10.12.201 (2005-09-07) | | |
| Example | generated example | | |
| | <code><section classCode="DOCSECT" moodCode="EVN"></code> | | |

```

<templateId root="1.3.6.1.4.1.19376.1.8.1.2.5"/>
<code code="22637-3" codeSystem="2.16.840.1.113883.6.1" displayName="'Pathology report diagnosis'"/>
<title>DIAGNOSTIC CONCLUSION SECTION</title>
<text/>
<!-- include template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author' (dynamic) 0..* C -->
<entry>
  <!-- template 1.3.6.1.4.1.19376.1.8.1.3.6 'Problem Organizer' (dynamic) -->
</entry>
</section>

```

| Item | DT | Card | Conf | Description | Label |
|------------------|------------|---------|------|---|-------------|
| h17:section | | 1 ... 1 | M | | PaLM...tion |
| └ @classCode | cs | 1 ... 1 | F | DOCSECT | |
| └ @moodCode | cs | 1 ... 1 | F | EVN | |
| | Constraint | | | <p>This section SHALL contain a code element populated with these attributes:</p> <p>@code="22637-3"</p> <p>@codeSystem="2.16.840.1.113883.6.1"</p> <p>@displayName="Pathology report diagnosis"</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 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...tion |
| └└ @root | uid | 1 ... 1 | F | 1.3.6.1.4.1.19376.1.8.1.2.5 | |
| └ h17:code | CE | 1 ... 1 | M | | PaLM...tion |
| └└ @code | CONF | 1 ... 1 | F | 22637-3 | |

| | | | |
|---|----------------|---|--|
| <p>└ @codeSystem</p> <p>└ @codeSystemName</p> <p>└ @displayName</p> | | 1 ... 1 F | 2.16.840.1.113883.6.1 (Logical Observation Identifier Names and Codes) |
| | ST | 1 ... 1 R | PaLM...tion |
| | CONF | element content shall be "DIAGNOSTIC CONCLUSION SECTION" | |
| └ h17:text | SD.TEXT | 1 ... 1 M | PaLM...tion |
| | Example | <p>example for use case#1</p> <pre> <text> <paragraph> A1. "RIGHT BREAST FIVE CORES 8-9:00" (ULTRASOUND GUIDED NEEDLE CORE BIOPSY) </paragraph> INVASIVE ADENOCARCINOMA OF THE BREAST. HISTOLOGIC TYPE: DUCTAL. NOTTINGHAM COMBINED HISTOLOGIC GRADE: 1 OF 3. <list> <item>TUBULE FORMATION SCORE: 2.</item> <item>NUCLEAR PLEOMORPHISM SCORE: 2.</item> <item>MITOTIC RATE SCORE: 1.</item> </list> ICD-O-CLASSIFICATION: C50.3 M8500/31 IN-SITU CARCINOMA: EQUIVOCAL. BREAST CANCER BIOMARKER STUDIES: <list> <item>PARAFFIN BLOCK NUMBER: A1.</item> <item>ER INTERPRETATION: POSITIVE ESTROGEN RECEPTOR ACTIVITY (ALLRED SCORE = 8, Percentage stained tumor cells = 85%, 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> </pre> | |

| | | | | | |
|----------------------|---------|---|-----------|---|---------------------------------------|
| Included | | | 0 ... * C | from 1.3.6.1.4.1.19376.1.8.1.4.2 CDA author IHE (DYNAMIC) Author | |
| | | | | Source: PaLM Suppl. APSR 2.0-3: 6.3.6.2 | |
| └ h17:author | | | 0 ... * C | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| └ @typeCode | cs | | 1 ... 1 F | AUT | |
| | Example | <pre>author is a person <author typeCode="AUT" contextControlCode="OP"> <time value="201306101654"/> <assignedAuthor classCode="ASSIGNED"> <!-- ... --> </assignedAuthor> </author></pre> | | | |
| └ h17:templateId | | | 1 ... 1 M | | PaLM Suppl. APSR 2.0-3:6.3.6.2 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 2.0-3:6.3.6.2 Author |
| └ h17:assignedAuthor | | | 0 ... 1 C | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| └ @classCode | cs | | 0 ... 1 F | ASSIGNED | |
| └ h17:id | II | | 1 ... * M | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| └ h17:addr | AD | | 1 ... * M | | PaLM Suppl. APSR |

| | | | | | |
|-------------------------------|-----|---------|---|---|---|
| | | | | | 2.0-3:6.3.6.2 Author |
| └ h17:telecom | TEL | 1 ... * | M | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| <i>Choice</i> | | 1 ... 1 | | The author is either an assigned person or an authoring device. Elements to choose from: <ul style="list-style-type: none"> h17:assignedPerson h17:assignedAuthoringDevice | |
| └ h17:assignedPerson | | 0 ... 1 | C | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| <i>Included</i> | | 0 ... * | | from 2.16.840.1.113883.10.12.152 CDA Person (DYNAMIC) The name(s) SHALL be given. | |
| └ @classCode | | 0 ... 1 | F | PSN | |
| └ @determinerCode | | 0 ... 1 | F | INSTANCE | |
| └ h17:name | PN | 0 ... * | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| └ h17:assignedAuthoringDevice | | 0 ... 1 | C | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| └ @classCode | CS | 0 ... 1 | F | DEV | |
| └ @determinerCode | CS | 0 ... 1 | F | INSTANCE | |
| └ h17:manufacturerModelName | SC | 0 ... 1 | R | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |

| | | | | | | |
|-----------------------------|---------|---|---|---|--------------------------------------|--|
| h17:softwareName | SC | 0 ... 1 | R | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author | |
| h17:code | CE | 0 ... 1 | R | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author | |
| h17:representedOrganization | | 0 ... 1 | | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author | |
| | Example | <pre> represented organization for author as a device <representedOrganization classCode="ORG" determinerCode="INSTANCE"> <name> <!-- ... --> </name> </representedOrganization> </pre> | | | | |
| Included | | 0 ... 1 | | from 2.16.840.1.113883.10.12.151 CDA Organization (DYNAMIC) 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 2.0-3:6.3.6.2 Author | |
| h17:name | ON | 0 ... 1 | | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author | |
| h17:telecom | TEL | 0 ... 1 | | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author | |
| h17:addr | AD | 0 ... 1 | | | PaLM Suppl.APSR | |

| | | | | | |
|---------------------------------|--------|---------|---|---|--|
| | | | | | 2.0-3:6.3.6.2 Author |
| └ h17:standardIndustryClassCode | CE | 0 ... 1 | | SHALL be chosen from domain OrganizationIndustryClass | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| └ h17:asOrganizationPartOf | | 0 ... 1 | | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| └ @classCode | | 0 ... 1 | F | PART | |
| └ h17:id | II | 0 ... * | R | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| └ h17:code | CE | 0 ... 1 | | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| └ @codeSystem | CONF | 1 ... 1 | F | 2.16.840.1.113883.5.111 (Role Code) | |
| └ h17:statusCode | CS | 0 ... 1 | | | PaLM Suppl.APSR 2.0-3:6.3.6.2 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 2.0-3:6.3.6.2 Author |
| └ h17:wholeOrganization | | 0 ... 1 | | | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |

| | | | | | | | |
|--|---------------------------------|-----|---------|---|--|---------------------------------------|--|
| | └ @classCode | | 0 ... 1 | F | ORG | | |
| | └ @determinerCode | | 0 ... 1 | F | INSTANCE | | |
| | └ h17:id | II | 0 ... * | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author | |
| | └ h17:name | ON | 0 ... * | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author | |
| | └ h17:telecom | TEL | 0 ... * | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author | |
| | └ h17:addr | AD | 0 ... * | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author | |
| | └ h17:standardIndustryClassCode | CE | 0 ... 1 | | SHALL be chosen from domain OrganizationIndustryClass | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author | |
| | └ 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> (DYNAMIC) | PaLM...tion | |
| | where [not(@nullFlavor)] | | | | | | |
| | └ @typeCode | cs | 1 ... 1 | F | COMP | | |
| | └ @contextConductionInd | bl | 0 ... 1 | F | true | | |

6.3.4.7 Procedure steps <section> - 1.3.6.1.4.1.19376.1.8.1.2.6

6.3.4.7.1 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.

6.3.4.7.2 Specification and Example




| | | | |
|---------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.8.1.2.6 | Effective Date | valid from 2014-05-13 19:33:12 |
| Status |  Draft | Version Label | 2.0 |
| Name | ProcedureStepsSection | Display Name | 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.

| | |
|-----------------------|--|
| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.8.1.2.6 |
| Label | PaLM Suppl. 2.0-3: 6.3.4.7 Procedure steps section |
| Classification | CDA Section Level Template |
| Open/Closed | Open (other than defined elements are allowed) |

Used by 0 transactions and 1 template, Uses 2 templates

| Used by | as | Name | Version |
|------------------------------|-------------|---|---------------------|
| 1.3.6.1.4.1.19376.1.8.1.1.1 | Containment |  Anatomic Pathology Structured Report Content Module (2.0) | 2014-05-13 11:57:57 |
| Uses | as | Name | Version |
| 1.3.6.1.4.1.19376.1.8.1.4.2 | Include |  CDA author IHE | DYNAMIC |
| 1.3.6.1.4.1.19376.1.3.10.4.1 | Containment |  Specimen Procedure Step (2.0) | DYNAMIC |

| | |
|---------------------|---|
| Relationship | Specialization: template 2.16.840.1.113883.10.12.201 (2005-09-07) |
|---------------------|---|

Example

Example

```
<section classCode="DOCSECT" moodCode="EVN">
  <templateId root="1.3.6.1.4.1.19376.1.8.1.2.6"/>
  <code code="46059-2" codeSystem="2.16.840.1.113883.6.1" displayName="Special treatments and procedures section"/>
  <title>PROCEDURE STEPS SECTION</title>
```

```

<text/>
<!-- include template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author' (dynamic) 0..* C -->
<entry typeCode="COMP" contextConductionInd="false">
  <!-- template 1.3.6.1.4.1.19376.1.3.10.4.1 'Specimen Procedure Step' (dynamic) -->
</entry>
</section>

```

| Item | DT | Card | Conf | Description | Label |
|------------------|------------|---------|------|--|-------------|
| h17:section | | 0 ... 1 | R | | PaLM...tion |
| └ @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="46059-2"</p> <p>@codeSystem="2.16.840.1.113883.6.1"</p> <p>@displayName="Special treatments and procedures section"</p> <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...tion |
| └└ @root | uid | 1 ... 1 | F | 1.3.6.1.4.1.19376.1.8.1.2.6 | |
| └ h17:code | CE | 1 ... 1 | M | | PaLM...tion |
| └└ @code | CONF | 1 ... 1 | F | 46059-2 | |
| └└ @codeSystem | CONF | 1 ... 1 | F | 2.16.840.1.113883.6.1 (Logical Observation Identifier Names and Codes) | |

| | | | |
|---|---------|---|--|
| <ul style="list-style-type: none"> @codeSystemName | | 1 ... 1 F | LOINC |
| <ul style="list-style-type: none"> @displayName | | 1 ... 1 F | Special treatments and procedures section |
| <ul style="list-style-type: none"> h17:title | ST | 1 ... 1 R | PaLM...tion |
| | CONF | element content shall be "PROCEDURE STEPS SECTION" | |
| <ul style="list-style-type: none"> h17:text | SD.TEXT | 1 ... 1 M | PaLM...tion |
| | Example | <pre>example for use case#1 <text> RIGHT BREAST FIVE CORES 8-9:00" (ULTRASOUND GUIDED NEEDLE CORE BIOPSY) PARAFFIN BLOCK NUMBER: A1.:FOUR SECTIONS FOR EACH STAIN: <paragraph ID="A7102400008">RIGHT BREAST FIVE CORES 8-9:00</paragraph> <paragraph ID="block_A_1">PARAFFIN BLOCK NUMBER: A1</paragraph> <paragraph ID="slide_A_1_HE">slide from block A1 HE stained</paragraph> <paragraph ID="slide_A_1_ER">slide from block A1 ER Immunohistochemistry</paragraph> <paragraph ID="slide_A_1_PR">slide from block A1 PR Immunohistochemistry</paragraph> <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></pre> | |
| Included | | 0 ... * C | from 1.3.6.1.4.1.19376.1.8.1.4.2 CDA author IHE (DYNAMIC) Author Source: PaLM Suppl.APSR 2.0-3:6.3.6.2 |
| <ul style="list-style-type: none"> h17:author | | 0 ... * C | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author |
| <ul style="list-style-type: none"> @typeCode | cs | 1 ... 1 F | AUT |
| | Example | <pre>author is a person <author typeCode="AUT" contextControlCode="OP"> <time value="201306101654"/> <assignedAuthor classCode="ASSIGNED"> <!-- ... --> </assignedAuthor> </author></pre> | |

| | | | | | | |
|----|----------------------|-----|---------|---|---|---------------------------------------|
| 02 | └ h17:templateId | | 1 ... 1 | M | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| 04 | └ @root | uid | 1 ... 1 | F | 1.3.6.1.4.1.19376.1.8.1.4.2 | |
| 06 | └ 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 2.0-3:6.3.6.2 Author |
| 08 | └ h17:assignedAuthor | | 0 ... 1 | C | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| 10 | └ @classCode | CS | 0 ... 1 | F | ASSIGNED | |
| 11 | └ h17:id | II | 1 ... * | M | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| 13 | └ h17:addr | AD | 1 ... * | M | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| 15 | └ h17:telecom | TEL | 1 ... * | M | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| 18 | Choice | | 1 ... 1 | | The author is either an assigned person or an authoring device. Elements to choose from: | |
| 19 | | | | | <ul style="list-style-type: none"> ▪ h17:assignedPerson ▪ h17:assignedAuthoringDevice | |
| 21 | └ h17:assignedPerson | | 0 ... 1 | C | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |

| | | | | | | |
|----------|-------------------------------|----|-----------|--|---|---------------------------------------|
| Included | | | 0 ... * | | from 2.16.840.1.113883.10.12.152 CDA Person (DYNAMIC) The name(s) SHALL be given. | |
| | └ @classCode | | 0 ... 1 F | | PSN | |
| | └ @determinerCode | | 0 ... 1 F | | INSTANCE | |
| | └ h17:name | PN | 0 ... * | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| | └ h17:assignedAuthoringDevice | | 0 ... 1 C | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| | └ @classCode | CS | 0 ... 1 F | | DEV | |
| | └ @determinerCode | CS | 0 ... 1 F | | INSTANCE | |
| | └ h17:manufacturerModelName | SC | 0 ... 1 R | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| | └ h17:softwareName | SC | 0 ... 1 R | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| | └ h17:code | CE | 0 ... 1 R | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| | └ h17:representedOrganization | | 0 ... 1 | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 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 (DYNAMIC) 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 | |
| | └ hl7:id | II | 0 ... 1 | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| | └ hl7:name | ON | 0 ... 1 | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| | └ hl7:telecom | TEL | 0 ... 1 | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| | └ hl7:addr | AD | 0 ... 1 | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| | └ hl7:standardIndustryClassCode | CE | 0 ... 1 | SHALL be chosen from domain OrganizationIndustryClass | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| | └ hl7:asOrganizationPartOf | | 0 ... 1 | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| | └ @classCode | | 0 ... 1 F | PART | |
| | └ hl7:id | II | 0 ... * R | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |

| | | | | | |
|-----------------------|--------|-----------|---|--|---------------------------------------|
| h17:code | CE | 0 ... 1 | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| @codeSystem | CONF | 1 ... 1 F | 2.16.840.1.113883.5.111 (Role Code) | | |
| h17:statusCode | CS | 0 ... 1 | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 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 2.0-3:6.3.6.2 Author |
| h17:wholeOrganization | | 0 ... 1 | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| @classCode | | 0 ... 1 F | ORG | | |
| @determinerCode | | 0 ... 1 F | INSTANCE | | |
| h17:id | II | 0 ... * | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| h17:name | ON | 0 ... * | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| h17:telecom | TEL | 0 ... * | | | PaLM Suppl. APSR 2.0-3:6.3.6.2 Author |
| h17:addr | AD | 0 ... * | | | PaLM Suppl. APSR |

| | | | | | |
|---------------------------------|----|-----------|--|---|---|
| | | | | | 2.0-3:6.3.6.2 Author |
| L h17:standardIndustryClassCode | CE | 0 ... 1 | | SHALL be chosen from domain OrganizationIndustryClass | PaLM Sup- pl.APSR 2.0-3:6.3.6.2 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> (DYNAMIC) | PaLM...tion |
| L @typeCode | cs | 1 ... 1 F | | COMP | |
| L @contextConductionInd | bl | 0 ... 1 | | | |

6.3.5 CDA R2 <entry> Content Modules

6.3.5.1 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>.

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.

6.3.5.2 Problem Organizer <entry> – 1.3.6.1.4.1.19376.1.8.1.3.6

6.3.5.2.1 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.

6.3.5.2.2 Specification and Example

| | | | |
|---------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.8.1.3.6 | Effective Date | valid from 2015-08-13 10:24:55 |
| Status |  Draft | Version Label | 2.0 |
| Name | ProblemOrganizer | Display Name | Problem Organizer |







Description

Template CDA Organizer (prototype, directly derived from POCD_RM000040 MIF)

The problem organizer groups the battery of observations performed to investigate on a single problem identified on a specimen or group of specimens.

| | |
|-----------------------|--|
| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.8.1.3.6 |
| Label | PaLM Suppl. 2.0-3: 6.3.5.2 Problem organizer |
| Classification | CDA Entry Level Template |
| Open/Closed | Open (other than defined elements are allowed) |

Used by 0 transactions and 7 templates, Uses 10 templates

| Used by | as | Name | Version |
|------------------------------|--|---|------------------------|
| 1.3.6.1.4.1.19376.1.3.10.3.1 | Containment  | Additional Specified Observation Section (2.0) | 2016-11-13 14:28:08 |
| 1.3.6.1.4.1.19376.1.8.1.1.1 |   | Anatomic Pathology Structured Report Content Module (2.0) | 2014-05-13 11:57:57 |
| 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 |
| 1.3.6.1.4.1.19376.1.8.1.2.3 | Containment  | Macroscopic Observation Section (2.0) | 2014-05-13 11:57:09 |

| 1.3.6.1.4.1.19376.1.8.1.2.4 | Containment | Microscopic Observation Section (2.0) | 2014-05-13 14:25:17 |
|-------------------------------|-------------|--|------------------------|
| 1.3.6.1.4.1.19376.1.8.1.2.5 | Containment | Diagnostic Conclusion Section (2.0) | 2014-05-13 19:31:26 |
| Uses | as | Name | Version |
| 1.3.6.1.4.1.19376.1.8.1.4.2 | Containment | CDA author IHE | DYNAMIC |
| 1.3.6.1.4.1.19376.1.8.1.4.6 | Containment | CDA Informant(Header&Body) APSR2 (2.0) | DYNAMIC |
| 1.3.6.1.4.1.19376.1.8.1.4.7 | Containment | Additional participant in an entry APSR (Body) | DYNAMIC |
| 1.3.6.1.4.1.19376.1.3.3.1.7 | Containment | Laboratory Performer (2017) | DYNAMIC |
| 1.3.6.1.4.1.19376.1.3.10.9.1 | Include | X Specimen Identified | DYNAMIC |
| 1.3.6.1.4.1.19376.1.8.1.4.10 | Containment | Embedded Image IHE | DYNAMIC |
| 2.16.840.1.113883.10.12.307 | Containment | CDA RegionOfInterest | DYNAMIC |
| 1.3.6.1.4.1.19376.1.5.3.1.4.2 | Containment | Annotation Comment (2017) | 2008-08-08 |
| 1.3.6.1.4.1.19376.1.8.1.4.9 | Containment | AP Observation Entry (2.0) | DYNAMIC |
| 1.3.6.1.4.1.19376.1.3.1.6 | Containment | Laboratory Observation (2017) | DYNAMIC |

Relationship

Specialization: template 2.16.840.1.113883.10.12.305 (2005-09-07)

Example

generated example

```

<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' (dynamic) -->
  </author>
  <informant>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant(Header&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>
  <performer>
    <!-- template 1.3.6.1.4.1.19376.1.3.3.1.7 'CDA Performer IHE (Body)' (dynamic) -->
  </performer>
  <!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (dynamic) 0..* R -->
  <component typeCode="COMP" contextConductionInd="true">
    <sequenceNumber value="1"/>
    <seperatableInd value="false"/>
    <!-- template 2.16.840.1.113883.10.12.307 'CDA RegionOfInterest' (dynamic) -->
  </component>
  <component typeCode="COMP" contextConductionInd="true">
    <sequenceNumber value="1"/>
    <seperatableInd value="false"/>
    <!-- template 1.3.6.1.4.1.19376.1.5.3.1.4.2 'Annotation Comment (IHE)' (dynamic) -->
  </component>
  <component typeCode="COMP" contextConductionInd="true">
    <sequenceNumber value="1"/>
    <seperatableInd value="false"/>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.9 'AP Observation Entry' (dynamic) -->
  </component>
  <component typeCode="COMP" contextConductionInd="true">
    <sequenceNumber value="1"/>
    <seperatableInd value="false"/>
    <!-- template 1.3.6.1.4.1.19376.1.3.1.6 'Laboratory Observation' (dynamic) -->
  </component>
</organizer>

```

example for use case #1, problem: invasive breast cancer

```

<organizer classCode="BATTERY" moodCode="EVN">
  <templateId root="1.3.6.1.4.1.19376.1.8.1.3.6"/>
  <id root="1.3.6.1.4.1.19376.1.8.9.1" extension="A7102400008_Problem1"/>
  <code code="75326-9" codeSystem="2.16.840.1.113883.6.1" displayName="Problem"/>
  <statusCode code="completed"/>
  <effectiveTime>
    <low value="201001041605-0500"/>
  </effectiveTime>
  <!--The problem is expressed by the result of the observation having the same code as organizer/code-->
  <component>
    <observation classCode="OBS" moodCode="EVN">
      <code code="75326-9" codeSystem="2.16.840.1.113883.6.1" displayName="Problem"/>
      <value code="C50.9" codeSystem="2.16.840.1.113883.6.3" displayName="Malignant neoplasm of breast, unspecified" codeSystemDisplayNames="ICD-10"/>
    </observation>
  </component>
  <component typeCode="COMP" contextConductionInd="true">
    <sequenceNumber value="1"/>
    <seperatableInd value="false"/>

```

Example

```
<!-- template 1.3.6.1.4.1.19376.1.8.1.4.9 'AP Observation Entry' (dynamic) -->
</component>
</organizer>
```

| Item | DT | Card | Conf | Description | Label |
|--------------------|--------|---------|------|---|-------------|
| h17:organizer | | 0 ... * | R | Problem organizer groups the battery of observations performed to investigate on a single problem identified on a specimen or a group of specimens. | PaLM...izer |
| └ @classCode | CS | 1 ... 1 | F | BATTERY | |
| └ @moodCode | CS | 1 ... 1 | F | EVN | |
| └ h17:templateId | II | 1 ... 1 | M | | PaLM...izer |
| └└ @root | uid | 1 ... 1 | F | 1.3.6.1.4.1.19376.1.8.1.3.6 | |
| └ h17:id | II | 0 ... * | R | | PaLM...izer |
| └ h17:code | CD CNE | 0 ... 1 | R | Problem | PaLM...izer |
| └└ @code | CONF | 1 ... 1 | F | 75326-9 | |
| └└ @codeSystem | | 1 ... 1 | F | 2.16.840.1.113883.6.1 (Logical Observation Identifier Names and Codes) | |
| └└ @codeSystemName | | 1 ... 1 | F | LOINC | |
| └└ @displayName | | 1 ... 1 | F | Problem | |
| └ h17:component | | 0 ... 1 | R | Coding of the Problem reported | PaLM...izer |
| └└ @typeCode | CS | 1 ... 1 | F | COMP | |
| └ h17:observation | CD CWE | 0 ... 1 | R | | PaLM...izer |
| └└ h17:code | CD CWE | 1 ... 1 | R | | PaLM...izer |
| └└└ @code | CONF | 1 ... 1 | F | 75326-9 | |
| └└└ @codeSystem | | 1 ... 1 | F | 2.16.840.1.113883.6.1 (Logical Observation Identifier Names and Codes) | |

| | | | | |
|-------------------|---------|---|--|---|
| └ @codeSystemName | | 1 ... 1 F | LOINC | |
| └ @displayName | | 1 ... 1 F | Problem | |
| └ 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. |
| | Example | <pre> Problem in urinary bladder in cystoprostatectomy specimen <qualifier> <name code="116677004" codeSystem="2.16.840.1.113883.6.96" displayName="Associated topography (attribute)" codeSystemName="SNOMED-CT"/> <value code="302512001" codeSystem="2.16.840.1.113883.6.96" displayName=" Entire urinary bladder (body structure)" codeSystemName="SNOMED-CT"/> </qualifier> </pre> | | |
| └ h17:name | CV | 0 ... 1 R | | PaLM...izer |
| └ @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 CWE | 0 ... * | R | PaLM...izer |
| └ @code | CONF | 1 ... 1 F | << 91723000 | |
| └ @codeSystem | | 1 ... 1 F | 2.16.840.1.113883.6.96 (SNOMED Clinical Terms) | |
| └ @codeSystemName | | 1 ... 1 F | SNOMED-CT | |
| └ @displayName | | 1 ... 1 F | all values from Anatomical structure | |
| └ h17:value | CE CWE | 0 ... 1 R | | PaLM...izer |
| | CONF | <pre> @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" </pre> | | |

| | | | | |
|---------------------|------------|--|---|---|
| | | | or The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.7 <i>Problem Type</i> (DYNAMIC) | |
| L h17:statusCode | CS CNE | 1 ... 1 | M | PaLM...izer |
| | Constraint | 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 intended observations could not be achieve and have been aborted, and appear as such below the organizer. | | |
| | CONF | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.2 (DYNAMIC) ❗ Error: Cannot find value set "1.3.6.1.4.1.19376.1.3.11.2" | | |
| L h17:effectiveTime | IVL_TS | 1 ... 1 | M | Organizer time. The period of time (possibly reduced to a point in time) during which the information was collected and assembled. PaLM...izer |
| L h17:author | | 0 ... * | C | 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>CDA author IHE</i> (DYNAMIC) PaLM...izer |
| | Constraint | 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. | | |
| L h17:informant | | 0 ... * | R | Informant The informant is an actor (person and organization) who provided some of the clinical information carried by this 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>CDA Informant(Header&Body) APSR2</i> (DYNAMIC) PaLM...izer |
| L 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 APSR (Body)</i> (DYNAMIC) PaLM...izer |

| | | Constraint | participationType "ENT", "DEV", "RESP", "AUTHEN" | | | |
|---|------------------|------------|--|---|---|---|
| L | h17:performer | | 0 ... 1 | C | <p>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</p> <p>Source: PaLM TF-3: 6.3.2.20</p> <p>Contains 1.3.6.1.4.1.19376.1.3.3.1.7 <i>Laboratory Performer</i> (DYNAMIC)</p> | PaLM...izer |
| | Included | | 0 ... * | R | <p>from 1.3.6.1.4.1.19376.1.3.10.9.1 X <i>Specimen Identified</i> (DYNAMIC) Specimen identification outside an AP observation for differentiating or restituting the problem type</p> <p>Source: PaLM Suppl. APSR 2.0-3: 6.3.6.9</p> | |
| L | h17:specimen | | 0 ... * | R | <p>Required in XD-LAB when more than one specimen is documented at this level. Always required in APSR.</p> | PaLM Suppl. APSR 2.0-3: 6.3.6.9 X Specimen identified |
| L | @typeCode | CS | 0 ... 1 | F | SPC | |
| L | h17:specimenRole | | 1 ... 1 | M | | PaLM Suppl. APSR 2.0-3: 6.3.6.9 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 2.0-3: 6.3.6.9 X Specimen identified |
| L | h17:component | | 0 ... * | R | <p>Embedded image</p> <p>This organizer may carry an image focusing on the problem, either directly embed-</p> | PaLM...izer |

| | | | | | |
|-------------------------|------------|--|---|--|-------------|
| | | | | ded or encapsulated within a region of interest. | |
| | | | | Contains 1.3.6.1.4.1.19376.1.8.1.4.10 <i>Embedded Image IHE</i> (DYNAMIC) | |
| └ @typeCode | cs | 0 ... 1 | F | COMP | |
| └ @contextConductionInd | bl | 0 ... 1 | F | true | |
| | Constraint | [@classCode="ROIOVL" and moodCode="EVN"] | | | |
| └ h17:sequenceNumber | INT | 0 ... 1 | | | PaLM...izer |
| └ h17:seperatableInd | BL | 0 ... 1 | | | PaLM...izer |
| └ 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> <p>Contains 2.16.840.1.113883.10.12.307 <i>CDA RegionOfInterest</i> (DYNAMIC)</p> | PaLM...izer |
| └ @typeCode | cs | 1 ... 1 | F | COMP | |
| └ @contextConductionInd | bl | 0 ... 1 | F | true | |
| | Constraint | [@classCode="ROIOVL" and moodCode="EVN"] | | | |
| └ h17:sequenceNumber | INT | 0 ... 1 | | | PaLM...izer |
| └ h17:seperatableInd | BL | 0 ... 1 | | | PaLM...izer |
| └ h17:component | | 0 ... * | R | <p>General comment on this particular problem</p> <p>Source: PCC TF-2: 6.3.4.6</p> <p>Contains 1.3.6.1.4.1.19376.1.5.3.1.4.2 <i>Annotation Comment</i> (2008-08-08)</p> | PaLM...izer |
| └ @typeCode | cs | 1 ... 1 | F | COMP | |

| | | | | | |
|-------------------------|-----|---------|---|---|-------------|
| └ @contextConductionInd | bl | 0 ... 1 | F | true | |
| └ h17:sequenceNumber | INT | 0 ... 1 | | | PaLM...izer |
| └ h17:seperatableInd | BL | 0 ... 1 | | | PaLM...izer |
| └ h17:component | | 0 ... * | R | Any kind of AP observation, for complex observation templates, e.g. for TNM, ICD-O-3, or Assessment scales can 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 AP Observation Entry (DYNAMIC) | PaLM...izer |
| └ @typeCode | cs | 1 ... 1 | F | COMP | |
| └ @contextConductionInd | bl | 0 ... 1 | F | true | |
| └ h17:sequenceNumber | INT | 0 ... 1 | | | PaLM...izer |
| └ h17:seperatableInd | BL | 0 ... 1 | | | PaLM...izer |
| └ h17:component | | 0 ... * | C | Laboratory observation Contains 1.3.6.1.4.1.19376.1.3.1.6 Laboratory Observation (DYNAMIC) | PaLM...izer |
| └ @typeCode | cs | 1 ... 1 | F | COMP | |
| └ @contextConductionInd | bl | 0 ... 1 | F | true | |
| └ h17:sequenceNumber | INT | 0 ... 1 | | | PaLM...izer |
| └ h17:seperatableInd | BL | 0 ... 1 | | | PaLM...izer |

6.3.5.3 Specimen Procedure Step <entry> - 1.3.6.1.4.1.19376.1.3.10.4.1

6.3.5.3.1 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 role of "SPEC". The specimen ID is the ParticipantRole.ID.

Additives to the specimen (e.g. fixatives) MAY be additional participants with the typeCode="CSM".

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 ^[9].

01
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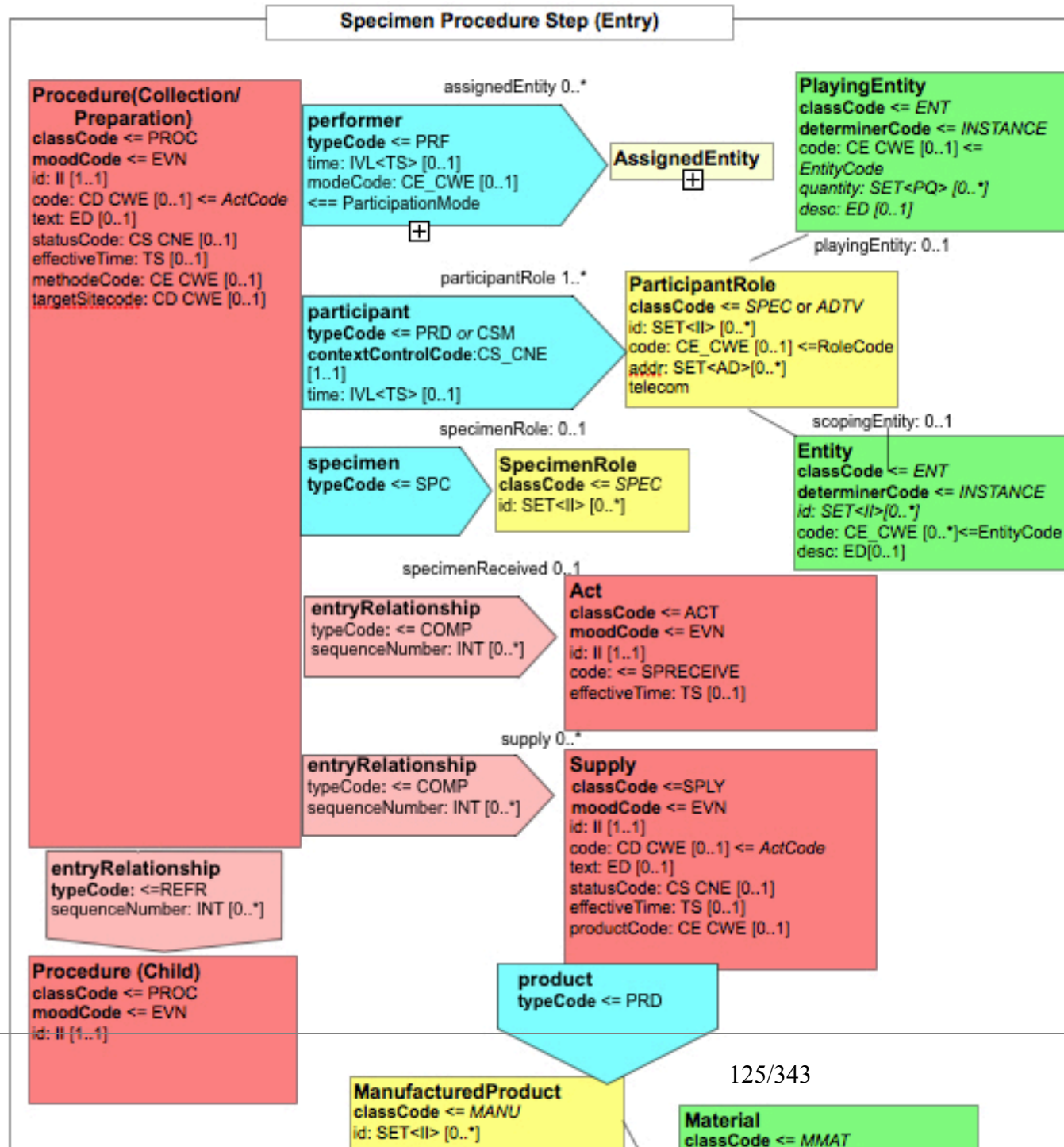


Figure 6.3.5.3.1-1 CDA-RMIM of the Specimen Procedure Steps <entry>

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.

6.3.5.3.2 Specification and Example

| | | | |
|---------------|---|-----------------------|--|
| Id | 1.3.6.1.4.1.19376.1.3.10.4.1 | Effective Date | valid from 2016-07-08 13:20:59 There are versions of templates with this id: <ul style="list-style-type: none"> ▪ SpecimenProcedureStep as of 2016-07-08 13:20:59 ▪ SpecimenProcedureStep as of 2014-07-29 16:02:02 |
| Status |  Draft | Version Label | 2.0 |
| Name | SpecimenProcedureStep | Display Name | Specimen Procedure Step |





Description

Template CDA Procedure (prototype, directly derived from POCD_RM000040 MIF) for Specimen procedure step in APSR2.

This entry collects all the information of source, method and result 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.

| | |
|-----------------------|---|
| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.4.1 |
| Label | PaLM Suppl. 2.0-3: 6.3.5.3 Specimen procedure steps |
| Classification | CDA Entry Level Template |
| Open/Closed | Open (other than defined elements are allowed) |

Used by 0 transactions and 4 templates, Uses 7 templates

| Used by / Uses | Used by | as | Name | Version |
|----------------|------------------------------|---|---|---------------------|
| | 1.3.6.1.4.1.19376.1.3.10.4.1 |  | Containment Specimen Procedure Step (2.0) | 2016-07-08 13:20:59 |
| | |  | Circular reference found with 1.3.6.1.4.1.19376.1.3.10.4.1, please check | |
| | 1.3.6.1.4.1.19376.1.3.10.4.1 |  |  Specimen Procedure Step (1.0) | 2014-07-29 16:02:02 |

! Circular reference found with 1.3.6.1.4.1.19376.1.3.10.4.1, please check

| 1.3.6.1.4.1.19376.1.8.1.2.6 | | Procedure Steps Section (2.0) | 2014-05-13 19:33:12 |
|-------------------------------|-------------|---|------------------------|
| 1.3.6.1.4.1.19376.1.8.1.1.1 | | Anatomic Pathology Structured Report Content Module (2.0) | 2014-05-13 11:57:57 |
| Uses | as | Name | Version |
| 1.3.6.1.4.1.19376.1.3.10.9.1 | Include | X Specimen Identified | DYNAMIC |
| 1.3.6.1.4.1.19376.1.3.3.1.7 | Containment | Laboratory Performer (2017) | DYNAMIC |
| 1.3.6.1.4.1.19376.1.8.1.4.2 | Containment | CDA author IHE | DYNAMIC |
| 1.3.6.1.4.1.19376.1.3.10.9.44 | Containment | CDA Participant (Body) Procedure Steps APSR2 (2.0) | DYNAMIC |
| 1.3.6.1.4.1.19376.1.3.10.9.22 | Containment | CDA Supply Container APSR2 (2.0) | DYNAMIC |
| 1.3.6.1.4.1.19376.1.3.1.3 | Containment | Specimen Received (2017) | DYNAMIC |
| 1.3.6.1.4.1.19376.1.3.10.4.1 | Containment | Specimen Procedure Step (2.0) | DYNAMIC |

Relationship

Adaptation: template 2.16.840.1.113883.10.12.306 (2005-09-07)

Example

generated example

```
<procedure negationInd="false" classCode="PROC" moodCode="EVN">
  <templateId root="1.3.6.1.4.1.19376.1.3.10.4.1"/>
  <id root="1.2.3.999" extension="--example only--"/>
  <code code="117617002" displayName="Immunohistochemistry procedure (procedure)" codeSystem="2.16.840.1.113883.5.96">
    <qualifier>
      <name code="246094008 or 246355002" codeSystem="2.16.840.1.113883.6.96" displayName="Component investigated (attribute)
or Supporting structure (attribute)"/>
      <value code="23307004" codeSystem="2.16.840.1.113883.6.96" displayName="Estrogen receptor (substance)"/>
    </qualifier>
  </code>
  <text/>
  <statusCode code="completed"/>
  <effectiveTime>
    <low value="20161110104817"/>
  </effectiveTime>
  <targetSiteCode code="441652008" codeSystem="2.16.840.1.113883.6.96" displayName="Formalin-fixed paraffin-embedded tissue
specimen (specimen)"/>
  <specimen typeCode="SPC">
    <specimenRole classCode="SPEC">
      <id/>
    </specimenRole>
  </specimen>
  <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>
<participant>
<!-- template 1.3.6.1.4.1.19376.1.3.10.9.44 'CDA Participant (Body) Procedure Steps APSR2' (dynamic) -->
</participant>
<entryRelationship negationInd="false" typeCode="COMP" inversionInd="false" contextConductionInd="true">
<seperatableInd value="false"/>
<sequenceNumber value="1"/>
<!-- template 1.3.6.1.4.1.19376.1.3.10.9.22 'CDA Supply Container APSR2' (dynamic) -->
</entryRelationship>
<entryRelationship negationInd="false" typeCode="COMP" inversionInd="false" contextConductionInd="true">
<seperatableInd value="false"/>
<!-- template 1.3.6.1.4.1.19376.1.3.1.3 'Specimen Received' (dynamic) -->
</entryRelationship>
<entryRelationship negationInd="false" typeCode="REFR" inversionInd="false" contextConductionInd="true">
<seperatableInd value="false"/>
<!-- template 1.3.6.1.4.1.19376.1.3.10.4.1 'Specimen Procedure Step' (dynamic) -->
</entryRelationship>
</procedure>

```

| Item | DT | Card | Conf | Description | Label |
|------------------|------------|--|------|--|------------|
| h17:procedure | | 0 ... * | R | | PaLM...eps |
| └ @classCode | CS | 1 ... 1 | F | PROC | |
| └ @moodCode | CS | 1 ... 1 | F | EVN | |
| └ h17:templateId | II | 1 ... 1 | R | | PaLM...eps |
| └└ @root | uid | 1 ... 1 | F | 1.3.6.1.4.1.19376.1.3.10.4.1 | |
| └ h17:id | II | 0 ... * | R | Procedure ID, coming from the LIS. May be the target (referenced) ID for the child procedure. | PaLM...eps |
| └ h17:code | CD CWE | 1 ... 1 | M | Coded procedure | PaLM...eps |
| | 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 shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.10 <i>Specimen Collection and Processing</i> (DYNAMIC) | | | |
| | Example | for use case #1, specimen collection <code code="122548005" codeSystem="2.16.840.1.113883.6.96" displayName="Biopsy of breast (procedure)" codeSystemName="SNOMED-CT"/> | | | |
| | Example | for use case #1, grossing & embedding | | | |

| | | | | |
|-----------------|------------|-----------|--|--|
| | | | | <code><code code="40923002" codeSystem="2.16.840.1.113883.6.96" displayName="Tissue processing technique, routine, embed, cut and stain, per surgical specimen (procedure)"/></code> |
| | Example | | | for use case #1, sectioning & immunostaining <code><code code="117617002" codeSystem="2.16.840.1.113883.6.96" displayName="Immunohistochemistry procedure (procedure)"/></code> |
| └ hl7:qualifier | CR CWE | 0 ... * C | Qualifier for staining or other procedures which don't have values in the vocabulary used. | PaLM...eps |
| | 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><qualifier></code> <code><name code="246355002" displayName="Supporting structure (attribute)" codeSystem="2.16.840.1.113883.6.96"/></code> <code><value code="702941008" displayName="Paraffin embedding (qualifier value)" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT"/></code> <code></qualifier></code> | |
| | Example | | for use case #1, Estrogen receptor staining <code><qualifier></code> <code><name code="246094008" displayName="Component investigated (attribute)" codeSystem="2.16.840.1.113883.6.96"/></code> <code><value code="23307004" displayName="Estrogen receptor (substance)" codeSystem="2.16.840.1.113883.6.96"/></code> <code></qualifier></code> | |
| | Example | | for use case #1, ISH Her-2-neu staining <code><qualifier></code> <code><name code="246094008" displayName="Component investigated (attribute)" codeSystem="2.16.840.1.113883.6.96"/></code> <code><value code="164870" displayName="ONCOGENE ERBB2" codeSystem="2.16.840.1.113883.6.174" codeSystemName="OMIM"/></code> <code></qualifier></code> | |
| └ hl7:name | CV CWE | 1 ... 1 R | | PaLM...eps |
| └ @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) | |
| └ hl7:value | CD CWE | 1 ... 1 R | | PaLM...eps |
| └ @nullFlavor | cs | 1 ... 1 R | | |
| | CONF | | @code shall be "<<105590001 Substance (substance) " | |

| | | | | |
|----------------------|---------|-----------|--|------------|
| | | | <p>@codeSystem shall be "2.16.840.1.113883.6.96" @codeSystemName shall be "SNOMED-CT" @displayName shall be "values from substance axis, e.g. Estrogen receptor" or @code shall be "values from G axis" @codeSystem shall be "2.16.840.1.113883.6.174" @codeSystemName shall be "OMIM" @displayName shall be "values from G axis, e.g. erb-b2" or @code shall be "<<272394005 Technique (qualifier value) " @codeSystem shall be "2.16.840.1.113883.6.96" @codeSystemName shall be "SNOMED-CT" @displayName shall be "values from technique axis, e.g. Paraffin embedded (qualifier)"</p> | |
| h17:text | ED | 0 ... 1 R | | PaLM...eps |
| | Example | | specimen collection procedure <text>ULTRASOUND GUIDED NEEDLE CORE BIOPSY</text> | |
| | Example | | specimen processing procedure <text>CUTTING A SLIDE FROM A PARAFFIN BLOCK</text> | |
| h17:statusCode | CS CNE | 0 ... 1 R | | PaLM...eps |
| | CONF | | The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933 ActStatus (DYNAMIC) | |
| h17:effectiveTime | IVL_TS | 0 ... 1 R | | PaLM...eps |
| h17:approachSiteCode | CD CWE | 0 ... 1 R | Approach site in specimen collection | PaLM...eps |
| @code | | 1 ... 1 F | any_code | |
| @codeSystem | | 1 ... 1 F | 2.16.840.1.113883.5.1052 (Act Site) | |
| @codeSystemName | CONF | 1 ... 1 F | any_code | |
| @displayName | | 1 ... 1 F | ActSite | |

| | | | | | |
|---------------------------|---------------|------------------|--|------------|--|
| h17:targetSiteCode | CD CWE | 0 ... 1 R | Target site in body or relative parent relationship in case of specimen processing | PaLM...eps | |
| | | CONF | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.9 <i>Procedure Site</i> (DYNAMIC) or @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" | | |
| | | Example | for use case #1, specimen collection <pre><targetSiteCode code="110497008" displayName="Lower outer quadrant of right breast (body structure)" codeSystem="2.16.840.1.113883.6.96"/></pre> | | |
| | | Example | for use case #1, grossing & embedding <pre><targetSiteCode code="309050000" displayName="Body substance sample" codeSystem="2.16.840.1.113883.6.96"/></pre> | | |
| h17:qualifier | CR CWE | 0 ... * C | optional qualifiers for specifying body structures or / and laterality | PaLM...eps | |
| | | Example | for use case #1, (optional) specification of body structure for specimen collection <pre><qualifier> <name code="118169006" codeSystem="2.16.840.1.113883.6.96" displayName="Specimen source topography (attribute)" codeSystemName="SNOMED-CT"/> <value code="255495000" codeSystem="2.16.840.1.113883.6.96" displayName="Right lower quadrant (qualifier value)" codeSystemName="SNOMED-CT"/> </qualifier></pre> | | |
| h17:name | CV CWE | 1 ... 1 R | PaLM...eps | | |
| @displayName | st | 0 ... 1 F | Specimen source topography | | |
| @codeSystem | oid | 1 ... 1 F | 2.16.840.1.113883.6.96 | | |
| @code | cs | 1 ... 1 F | 118169006 | | |
| h17:value | CD CWE | 0 ... * R | PaLM...eps | | |

| | | | | | |
|----------|--------------------|---------|-----------|--|---|
| | | | | @code shall be out of choice: | |
| | └ @code | | 1 ... 1 | <ul style="list-style-type: none"> <<272099008 Descriptor (qualifier value) | |
| | └ @codeSystem | CONF | 1 ... 1 F | 2.16.840.1.113883.6.96 (SNOMED Clinical Terms) | |
| | └ @codeSystemName | | 1 ... 1 F | SCT | |
| | └ @displayName | | 1 ... 1 F | all children of "Descriptor, qualifier values", e.g. right lower quadrant | |
| | └ h17:methodCode | CD CWE | 0 ... * R | Identifies the technique used to perform a procedure | PaLM...eps |
| | └ @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 (DYNAMIC) Parent specimen with parent ID | |
| | | Example | | for use case #1, parent specimen ID in grossing & embedding <pre><specimen typeCode="SPC"> <specimenRole classCode="SPEC"> <!-- Parent specimen ID --> <id root="1.3.6.1.4.1.19376.1.8.9.1" extension="A7102400008"/> </specimenRole> </specimen></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 2.0-3: 6.3.6.9 X Specimen identified |
| | └ @typeCode | cs | 0 ... 1 F | SPC | |
| | └ h17:specimenRole | | 1 ... 1 M | | PaLM Suppl. APSR 2.0-3: 6.3.6.9 X Specimen identified |
| | └ @classCode | cs | 0 ... 1 F | SPEC | |

| | | | | | | |
|--------------------------|------------|--|---|---|---|--|
| └ h17:id | II | 1 ... 1 | R | Specimen ID, coming from the LIS | PaLM Suppl. APSR 2.0-3: 6.3.6.9 X Specimen identified | |
| └ h17:performer | | 0 ... 1 | R | Contains 1.3.6.1.4.1.19376.1.3.3.1.7 <i>Laboratory Performer</i> (DYNAMIC) | PaLM...eps | |
| └ h17:author | | 0 ... * | C | Contains 1.3.6.1.4.1.19376.1.8.1.4.2 <i>CDA author IHE</i> (DYNAMIC) | PaLM...eps | |
| └ h17:participant | | 1 ... * | M | One or more specimen (with additives) , 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> (DYNAMIC) | PaLM...eps | |
| where [not(@nullFlavor)] | | | | | | |
| └ h17:entryRelationship | | 0 ... * | R | Artificial material (manufactured product) which contains the specimen Contains 1.3.6.1.4.1.19376.1.3.10.9.22 <i>CDA Supply Container APSR2</i> (DYNAMIC) | PaLM...eps | |
| └ @typeCode | cs | 1 ... 1 | F | COMP | | |
| └ @contextConductionInd | bl | 0 ... 1 | F | true | | |
| | Constraint | for manufactured product classCode = MANU for DrugOrOtherMaterial classCode = MMAT code from MaterialEntityClassType | | | | |
| └ 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> (DYNAMIC) | PaLM...eps | |
| └ @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 list of child procedure IDs Contains 1.3.6.1.4.1.19376.1.3.10.4.1 <i>Specimen Procedure Step</i> (DYNAMIC) | PaLM...eps | |

| | | | | |
|-----------------------|--|---------|---|------|
| @typeCode | cs | 1 ... 1 | F | REFR |
| @contextConductionInd | bl | 0 ... 1 | F | true |
| Constraint | contains only ID of the child procedure, which is fully described in a dedicated entry further down in the Procedure step section. | | | |

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

| | | | |
|---------------|---------------------------------------|-----------------------|--|
| Id | 1.3.6.1.4.1.19376.1.3.10.9.44 | Effective Date | valid from 2014-10-26 17:06:28 |
| Status | Draft | Version Label | 2.0 |
| Name | CDAParticipantBodyProcedureStepsAPSR2 | Display Name | 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.

| | |
|-----------------------|--|
| Classification | CDA Entry Level Template |
| Open/Closed | Open (other than defined elements are allowed) |

Used by 0 transactions and 4 templates, Uses 1 template

| Used by / Uses | Used by | as | Name | Version |
|----------------|------------------------------|-------------|--|------------------------|
| | 1.3.6.1.4.1.19376.1.3.10.4.1 | Containment | Specimen Procedure Step (2.0) | 2016-07-08 13:20:59 |
| | | | Circular reference found with 1.3.6.1.4.1.19376.1.3.10.4.1, please check | |
| | 1.3.6.1.4.1.19376.1.3.10.4.1 | | Specimen Procedure Step (1.0) | 2014-07-29 16:02:02 |
| | | | Circular reference found with 1.3.6.1.4.1.19376.1.3.10.4.1, please check | |
| | 1.3.6.1.4.1.19376.1.8.1.2.6 | | Procedure Steps Section (2.0) | 2014-05-13 19:33:12 |

1.3.6.1.4.1.19376.1.8.1.1.1   Anatomic Pathology Structured Report Content Module (2.0) 2014-05-13 11:57:57

| Uses | as | Name | Version |
|-------------------------------|-------------|---|---------|
| 1.3.6.1.4.1.19376.1.3.10.9.21 | Containment |  CDA PlayingEntitySpecimen APSR2 (2.0) | DYNAMIC |

Relationship Specialization: template 2.16.840.1.113883.10.12.321 (2005-09-07)

Example for use case #1, product of specimen collection

```
<participant typeCode="PRD" contextControlCode="OP">
  <time>
    <low value="200931121005-0500"/>
  </time>
  <participantRole classCode="SPEC">
    <!-- ID of the specimen produced, coming from the LIS -->
    <id root="1.3.6.1.4.1.19376.1.8.9.1" extension="A7102400008"/>
    <code code="P" displayName="patient" 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"/>
    </playingEntity>
  </participantRole>
</participant>
```


Example for use case #1, additive in specimen collection

```
<participant typeCode="CSM" contextControlCode="OP">
  <time>
    <low value="200931121005-0500"/>
  </time>
  <participantRole classCode="ADTV">
    <playingEntity classCode="ENT" determinerCode="INSTANCE">
      <code code="BF10" displayName="Buffered 10% formalin" codeSystem="2.16.840.1.113883.1.11.16041"/>
    </playingEntity>
  </participantRole>
</participant>
```

| 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) | |
| | | | | The value of @typeCode shall be drawn from value set 2.16.840.1.113883.1.11.10901 <i>ParticipationType</i> (DYNAMIC) | |
| @contextControlCode | cs | 1 ... 1 | F | OP | |
| h17:time | IVL_TS | 0 ... 1 | | | (CDA...SR2) |

| | | | |
|--------------------------|------|-----------|--|
| h17:participantRole | | 1 ... 1 M | (CDA...SR2) |
| └ @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> (DYNAMIC) |
| └ h17:id | II | 0 ... * R | Specimen ID, coming from the LIS. No ID for Additive |
| └ h17: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 |
| | CONF | | The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.16515 <i>SpecimenRoleType</i> (DYNAMIC) |
| └ h17:playingEntity | | 1 ... 1 M | Specimen Contains 1.3.6.1.4.1.19376.1.3.10.9.21 <i>CDA PlayingEntitySpecimen APSR2</i> (DYNAMIC) |
| where [not(@nullFlavor)] | | | |

Supportive template CDA PlayingEntitySpecimen APSR2 - 1.3.6.1.4.1.19376.1.3.10.9.21

| | | | |
|-----------------------|---|-----------------------|---------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.10.9.21 | Effective Date | valid from 2014-10-26 17:50:07 |
| Status |  Draft | Version Label | 2.0 |
| Name | CDAPlayingEntitySpecimenAPSR2 | Display Name | CDA PlayingEntitySpecimen APSR2 |
| Description | Template CDA PlayingEntity (prototype, directly derived from POCD_RM000040 MIF) Describes the kind of a specimen | | |
| Classification | CDA Entry Level Template | | |
| Open/Closed | Open (other than defined elements are allowed) | | |
| Used by / Uses | Used by 0 transactions and 5 templates, Uses 0 templates | | |

| Used by | as | Name | Version |
|-------------------------------|-------------|--|------------------------|
| 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 |
| 1.3.6.1.4.1.19376.1.3.10.4.1 | | Specimen Procedure Step (2.0) | 2016-07-08 13:20:59 |
| | | Circular reference found with 1.3.6.1.4.1.19376.1.3.10.4.1, please check | |
| 1.3.6.1.4.1.19376.1.3.10.4.1 | | Specimen Procedure Step (1.0) | 2014-07-29 16:02:02 |
| | | Circular reference found with 1.3.6.1.4.1.19376.1.3.10.4.1, please check | |
| 1.3.6.1.4.1.19376.1.8.1.2.6 | | Procedure Steps Section (2.0) | 2014-05-13 19:33:12 |
| 1.3.6.1.4.1.19376.1.8.1.1.1 | | Anatomic Pathology Structured Report Content Module (2.0) | 2014-05-13 11:57:57 |

Relationship Specialization: template 2.16.840.1.113883.10.12.313 (2005-09-07)

Example generated example

```

<art:placeholder classCode="ENT" determinerCode="INSTANCE">
  <code code="PKG" displayName="Package" codeSystem="2.16.840.1.113883.5.1060"/>
  <quantity value="1"/>
  <desc/>
</art:placeholder>

```

| 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 | |
| h17: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 | (CDA...SR2) |

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| | | | |
|--------------|---------|---|-------------|
| | CONF | <p>The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.16040 <i>EntityCode</i> (DYNAMIC)</p> <p>or</p> <p>@code shall be "see example "</p> <p>or</p> <p>@code shall be "119376003"</p> <p>@codeSystem shall be "2.16.840.1.113883.6.96"</p> <p>@codeSystemName shall be "SNOMED-CT"</p> <p>@displayName shall be "Tissue, unspecified"</p> <p>or</p> <p>@code shall be "TISS"</p> <p>@codeSystem shall be "2.16.840.1.113883.5.1060"</p> <p>@codeSystemName shall be "HL7 SpecimenType"</p> <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 2.16.840.1.113883.1.11.16041 <i>MaterialEntityType</i> (DYNAMIC)</p> | |
| | Example | <p>example for specimen, coded by SCT</p> <pre><playingEntity> <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"/> </playingEntity></pre> | |
| | Example | <p>example for Additive</p> <pre><playingEntity> <code code="BF10" codeSystem="2.16.840.1.113883.1.11.16041" displayName="Buffered 10% formalin"/> </playingEntity></pre> | |
| h17:quantity | PQ | 0 ... * R | (CDA...SR2) |
| h17:desc | ED | 0 ... 1 | (CDA...SR2) |

6.3.6 CDA R2 Child Element Content Modules

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


6.3.6.1 Specimen Collector in Header – 1.3.6.1.4.1.19376.1.8.1.4.1

6.3.6.1.1 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)

6.3.6.1.2 Specification and Example

| | | | |
|---------------|---|-----------------------|------------------------------------|
| Id | 1.3.6.1.4.1.19376.1.8.1.4.1 | Effective Date | valid from 2016-06-13 14:21:13 |
| Status |  Draft | Version Label | |
| Name | CDAParticipantSpecimenCollector | Display Name | CDA Participant Specimen Collector |

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.

| Label | PaLM Suppl. APSR 2.0-3:6.3.6.1 Specimen collector | | | | |
|-----------------------|--|---------|---------|------|---------|
| Classification | CDA Header Level Template | | | | |
| Open/Closed | Open (other than defined elements are allowed) | | | | |
| Used by / Uses | Used by 0 transactions and 1 template, Uses 2 templates | | | | |
| | <table border="1"> <thead> <tr> <th>Used by</th> <th>as</th> <th>Name</th> <th>Version</th> </tr> </thead> <tbody> </tbody> </table> | Used by | as | Name | Version |
| Used by | as | Name | Version | | |

1.3.6.1.4.1.19376.1.8.1.1.1 Include  Anatomic Pathology Structured Report Content Module (2.0) 2014-05-13 11:57:57

| Uses | as | Name | Version |
|-----------------------------|-------------|--|---------|
| 2.16.840.1.113883.10.12.152 | Containment |  CDA Person | DYNAMIC |
| 2.16.840.1.113883.10.12.151 | Containment |  CDA Organization | DYNAMIC |

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 |
|------------------|--------|---------|------|--|-------------|
| h17: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...ctor |
| └ @typeCode | cs | 1 ... 1 | F | DIST | |
| └ h17:templateID | II | 1 ... 1 | M | | PaLM...ctor |
| └└ @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 | PaLM...ctor |

| | | | | | |
|---------------------------|--------|---------|---|--|-------------|
| | | | | The specimen collection time is an interval, which may be reduced to a point in time (see usage of data type IVL_TS). | |
| └ h17:associatedEntity | | 0 ... 1 | R | At least one of the two elements associatedPerson and scopingOrganization must be present. Both may be present. | PaLM...ctor |
| └ @classCode | CS | 1 ... 1 | F | PROV | |
| └ h17:id | II | 1 ... * | R | | PaLM...ctor |
| └ h17:addr | AD | 1 ... * | R | | PaLM...ctor |
| └ h17:telecom | TEL.AT | 1 ... * | R | | PaLM...ctor |
| └ 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 (DYNAMIC) | PaLM...ctor |
| └ 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 (DYNAMIC) | PaLM...ctor |

6.3.6.2 Author – 1.3.6.1.4.1.19376.1.8.1.4.2

6.3.6.2.1 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.



6.3.6.2.2 Specification and Example

| | | | |
|---------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.8.1.4.2 | Effective Date | valid from 2016-06-21 14:02:11 |
| Status |  Draft | Version Label | |

| | | | | |
|------------------------------|--|-------------------------------|---|---------------------|
| Name | CDAAuthorIHE | Display Name | CDA author IHE | |
| Description | <p>Template CDA author (prototype, directly derived from POCD_RM000040 MIF).</p> <p>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).</p> <p>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.</p> | | | |
| Label | PaLM Suppl.APSR 2.0-3:6.3.6.2 Author | | | |
| Classification | Template type not specified | | | |
| Open/Closed | Open (other than defined elements are allowed) | | | |
| Used by / Uses | Used by 0 transactions and 33 templates, Uses 2 templates | | | |
| | Used by | as | Name | Version |
| | 1.3.6.1.4.1.19376.1.8.1.1.1 | Include | Anatomic Pathology Structured Report Content Module (2.0) | 2014-05-13 11:57:57 |
| | 1.3.6.1.4.1.19376.1.8.1.2.1 | Include | Clinical Information Section (2.0) | 2014-05-13 14:38:08 |
| | 1.3.6.1.4.1.19376.1.8.1.2.2 | Include | Intraoperative Observation Section (2.0) | 2014-05-13 19:29:16 |
| | 1.3.6.1.4.1.19376.1.8.1.2.3 | Include | Macroscopic Observation Section (2.0) | 2014-05-13 11:57:09 |
| | 1.3.6.1.4.1.19376.1.8.1.2.4 | Include | Microscopic Observation Section (2.0) | 2014-05-13 14:25:17 |
| | 1.3.6.1.4.1.19376.1.8.1.2.5 | Include | Diagnostic Conclusion Section (2.0) | 2014-05-13 19:31:26 |
| | 1.3.6.1.4.1.19376.1.8.1.2.6 | Include | Procedure Steps Section (2.0) | 2014-05-13 19:33:12 |
| | 1.3.6.1.4.1.19376.1.8.1.2.7 | Include | Report Textual Summary Section (2.0) | 2016-06-13 17:54:42 |
| | 1.3.6.1.4.1.19376.1.3.10.3.1 | Containment | Additional Specified Observation Section (2.0) | 2016-11-13 14:28:08 |
| 1.3.6.1.4.1.19376.1.3.10.4.1 | Containment | Specimen Procedure Step (2.0) | 2016-07-08 13:20:59 | |
| | Circular reference found with 1.3.6.1.4.1.19376.1.3.10.4.1, please check | | | |

| | | |
|-------------------------------|---|------------------------|
| 1.3.6.1.4.1.19376.1.3.10.4.1 |   Specimen Procedure Step (1.0) | 2014-07-29 16:02:02 |
| |  Circular reference found with 1.3.6.1.4.1.19376.1.3.10.4.1, please check | |
| 1.3.6.1.4.1.19376.1.3.10.4.2 | Containment  TNM Stage Observation (2.0) | 2014-05-13 15:45:13 |
| 1.3.6.1.4.1.19376.1.3.10.4.3 | Containment  ICD-O-3 Typing and Grading Observation (2.0) | 2015-11-29 17:03:18 |
| 1.3.6.1.4.1.19376.1.3.10.4.4 | Containment  Assessment Scales Observation for Scoring Systems APSR2 (2.0) | 2016-10-06 13:12:00 |
| 1.3.6.1.4.1.19376.1.3.10.9.22 | Containment  CDA Supply Container APSR2 (2.0) | 2016-07-29 12:09:33 |
| 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 |
| 1.3.6.1.4.1.19376.1.3.10.9.28 | 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 |
| 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 |
| 1.3.6.1.4.1.19376.1.3.10.9.32 | Containment  TNM y (2.0) | 2015-06-22 17:28:17 |
| 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 |
| 1.3.6.1.4.1.19376.1.3.10.9.37 | Containment  TNM Number of nodes (2.0) | 2014-12-02 16:48:36 |
| 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 |
| 1.3.6.1.4.1.19376.1.3.10.9.42 |   Assessment Scoring System APSR 2.0 (2.0) | 2016-10-10 11:33:36 |

- 1.3.6.1.4.1.19376.1.8.1.3.6 Containment  Problem Organizer (2.0) 2015-08-13 10:24:55
- 1.3.6.1.4.1.19376.1.8.1.4.10 Containment  Embedded Image IHE 2016-06-22 16:08:01
- 1.3.6.1.4.1.19376.1.8.1.4.9   AP Observation Entry (2.0) 2014-05-14 17:09:54
-  Circular reference found with 1.3.6.1.4.1.19376.1.8.1.4.9, please check

| Uses | as | Name | Version |
|-----------------------------|---------|--|---------|
| 2.16.840.1.113883.10.12.152 | Include |  CDA Person | DYNAMIC |
| 2.16.840.1.113883.10.12.151 | Include |  CDA Organization | DYNAMIC |

Relationship

Adaptation: template 2.16.840.1.113883.10.12.102 (DYNAMIC)

Example

author is a person

```

<author typeCode="AUT">
  <functionCode code="DISPHYS" displayName="discharging physician" codeSystem="2.16.840.1.113883.5.88" codeSystemName="ParticipationFunction"/>
  <time value="20130407130000+0500"/>
  <assignedAuthor classCode="ASSIGNED">
    <assignedPerson classCode="PSN" determinerCode="INSTANCE">
      <name>
        <given>Marie</given>
        <family>Müller</family>
      </name>
    </assignedPerson>
    <representedOrganization>
      <id root="2.16.840.1.113883.19.5"/>
      <name>Beispiel Krankenhaus</name>
    </representedOrganization>
  </assignedAuthor>
</author>

```

Example

author is a device

```

<author typeCode="AUT">
  <assignedAuthor classCode="ASSIGNED">
    <assignedAuthoringDevice classCode="DEV" determinerCode="INSTANCE">
      <code>...</code>
    </assignedAuthoringDevice>
  </assignedAuthor>
</author>

```

| Item | DT | Card | Conf | Description | Label |
|------------|----|---------|------|-------------|-------------|
| hl7:author | | 0 ... * | R | | PaLM...thor |

01
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| | | | | |
|----------------------|---------|-----------|--|-------------|
| └ @typeCode | cs | 1 ... 1 F | AUT | |
| | Example | | author is a person <pre><author typeCode="AUT" contextControlCode="OP"> <time value="201306101654"/> <assignedAuthor classCode="ASSIGNED"> <!-- ... --> </assignedAuthor> </author></pre> | |
| └ h17:templateId | | 1 ... 1 M | | PaLM...thor |
| └ @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...thor |
| └ h17:assignedAuthor | | 0 ... 1 C | | PaLM...thor |
| └ @classCode | cs | 0 ... 1 F | ASSIGNED | |
| └ h17:id | II | 1 ... * M | | PaLM...thor |
| └ h17:addr | AD | 1 ... * M | | PaLM...thor |
| └ h17:telecom | TEL | 1 ... * M | | PaLM...thor |
| Choice | | 1 ... 1 | The author is either an assigned person or an authoring device. Elements to choose from: <ul style="list-style-type: none"> h17:assignedPerson h17:assignedAuthoringDevice | |
| └ h17:assignedPerson | | 0 ... 1 C | | PaLM...thor |
| Included | | 0 ... * | from 2.16.840.1.113883.10.12.152 CDA Person (DYNAMIC) The name(s) SHALL be given. | |
| └ @classCode | | 0 ... 1 F | PSN | |
| └ @determinerCode | | 0 ... 1 F | INSTANCE | |
| └ h17:name | PN | 0 ... * | | PaLM...thor |

| | | | | | |
|-------------------------------|---|---------|---|---|-------------|
| h17:assignedAuthoringDevice | | 0 ... 1 | C | | PaLM...thor |
| @classCode | CS | 0 ... 1 | F | DEV | |
| @determinerCode | CS | 0 ... 1 | F | INSTANCE | |
| h17:manufacturerModelName | SC | 0 ... 1 | R | | PaLM...thor |
| h17:softwareName | SC | 0 ... 1 | R | | PaLM...thor |
| h17:code | CE | 0 ... 1 | R | | PaLM...thor |
| h17:representedOrganization | | 0 ... 1 | | | PaLM...thor |
| Example | <pre> represented organization for author as a device <representedOrganization classCode="ORG" determinerCode="INSTANCE"> <name> <!-- ... --> </name> </representedOrganization> </pre> | | | | |
| Included | | 0 ... 1 | | from 2.16.840.1.113883.10.12.151 CDA Organization (DYNAMIC) 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...thor |
| h17:name | ON | 0 ... 1 | | | PaLM...thor |
| h17:telecom | TEL | 0 ... 1 | | | PaLM...thor |
| h17:addr | AD | 0 ... 1 | | | PaLM...thor |
| h17:standardIndustryClassCode | CE | 0 ... 1 | | SHALL be chosen from domain OrganizationIndustryClass | PaLM...thor |
| h17:asOrganizationPartOf | | 0 ... 1 | | | PaLM...thor |
| @classCode | | 0 ... 1 | F | PART | |

| | | | | | |
|-------------------------------|--------|---|---|---|-------------|
| h17:id | II | 0 ... * | R | | PaLM...thor |
| h17:code | CE | 0 ... 1 | | | PaLM...thor |
| @codeSystem | CONF | 1 ... 1 | F | 2.16.840.1.113883.5.111 (Role Code) | |
| h17:statusCode | CS | 0 ... 1 | | | PaLM...thor |
| | 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...thor |
| h17:wholeOrganization | | 0 ... 1 | | | PaLM...thor |
| @classCode | | 0 ... 1 | F | ORG | |
| @determinerCode | | 0 ... 1 | F | INSTANCE | |
| h17:id | II | 0 ... * | | | PaLM...thor |
| h17:name | ON | 0 ... * | | | PaLM...thor |
| h17:telecom | TEL | 0 ... * | | | PaLM...thor |
| h17:addr | AD | 0 ... * | | | PaLM...thor |
| h17:standardIndustryClassCode | CE | 0 ... 1 | | SHALL be chosen from domain OrganizationIndustryClass | PaLM...thor |

6.3.6.3 Content Validator – 1.3.6.1.4.1.19376.1.8.1.4.3

6.3.6.3.1 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.

6.3.6.3.2 Specification and Example

| | | | |
|---------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.8.1.4.3 | Effective Date | valid from 2016-07-09 15:03:59 |
| Status |  Draft | Version Label | |
| Name | CDAauthenticatorIHE | Display Name | CDA authenticator IHE |



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.

| | | | |
|-----------------------|--|-------------|---|
| Label | PaLM Suppl. APSR 2.0-3: 6.3.6.3 Content validator | | |
| Classification | CDA Header Level Template | | |
| Open/Closed | Open (other than defined elements are allowed) | | |
| | Used by 0 transactions and 1 template, Uses 1 template | | |
| Used by / Uses | Used by | as | Name Version |
| | 1.3.6.1.4.1.19376.1.8.1.1.1 | Include |  Anatomic Pathology Structured Report Content Module (2.0) 2014-05-13 11:57:57 |
| | Uses | as | Name Version |
| | 2.16.840.1.113883.10.12.153 | Containment |  CDA AssignedEntity DYNAMIC |
| Relationship | Adaptation: template 2.16.840.1.113883.10.12.107 (2005-09-07) | | |
| Example | <p>Example</p> <pre><authenticator typeCode="AUTHEN"> <time value="20160711113450"/> <signatureCode code="I"/> <assignedEntity> <!-- template 2.16.840.1.113883.10.12.153 'CDA AssignedEntity' (dynamic) --></pre> | | |

| Item | DT | Card | Conf | Description | Label |
|----------------------|-----|---------|------|--|-------------|
| hl7:authenticator | | 0 ... * | R | | PaLM...ator |
| └ @typeCode | cs | 1 ... 1 | F | AUTHEN | |
| └ hl7:templateId | | 1 ... 1 | M | | PaLM...ator |
| └└ @root | uid | 1 ... 1 | F | 1.3.6.1.4.1.19376.1.8.1.4.3 | |
| └ hl7:time | TS | 1 ... 1 | R | Time of validation | PaLM...ator |
| └ hl7: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 (DYNAMIC) | PaLM...ator |

6.3.6.4 Specimen Container in Specimen Procedure Step - 1.3.6.1.4.1.19376.1.3.10.9.22

6.3.6.4.1 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 (http://www.hl7.org/implement/standards/product_brief.cfm?product_id=331).

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).

6.3.6.4.2 Specification and Example

| | | | |
|---------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.10.9.22 | Effective Date | valid from 2016-07-29 12:09:33 |
| Status |  Draft | Version Label | 2.0 |
| Name | CDASupplyContainerAPSR2 | Display Name | CDA Supply Container APSR2 |

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)

| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|--|--|------------------------|---------|------------------------------|-------------|-------------------------------|------------------------|-------------------------------|-------------|--|---------|------------------------------|-------------|-------------------------------|------------------------|-----------------------------|-------------|--|---------|-----------------------------|-------------|--|------------------------|-----------------------------|-------------|---|------------------------|
| Label | PaLM Suppl. APSR 2.0-3: 6.3.6.4 Specimen container | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Classification | CDA Entry Level Template | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Open/Closed | Open (other than defined elements are allowed) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Used by / Uses | Used by 0 transactions and 4 templates, Uses 6 templates | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Used by</th> <th>as</th> <th>Name</th> <th>Version</th> </tr> </thead> <tbody> <tr> <td>1.3.6.1.4.1.19376.1.3.10.4.1</td> <td>Containment</td> <td> Specimen Procedure Step (2.0)</td> <td>2016-07-08 13:20:59</td> </tr> <tr> <td></td> <td></td> <td colspan="2">Circular reference found with 1.3.6.1.4.1.19376.1.3.10.4.1, please check</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.3.10.4.1</td> <td></td> <td> Specimen Procedure Step (1.0)</td> <td>2014-07-29 16:02:02</td> </tr> <tr> <td></td> <td></td> <td colspan="2">Circular reference found with 1.3.6.1.4.1.19376.1.3.10.4.1, please check</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.8.1.2.6</td> <td></td> <td> Procedure Steps Section (2.0)</td> <td>2014-05-13 19:33:12</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.8.1.1.1</td> <td></td> <td> Anatomic Pathology Structured Report Content Module (2.0)</td> <td>2014-05-13 11:57:57</td> </tr> </tbody> </table> | Used by | as | Name | Version | 1.3.6.1.4.1.19376.1.3.10.4.1 | Containment | Specimen Procedure Step (2.0) | 2016-07-08 13:20:59 | | | Circular reference found with 1.3.6.1.4.1.19376.1.3.10.4.1, please check | | 1.3.6.1.4.1.19376.1.3.10.4.1 | | Specimen Procedure Step (1.0) | 2014-07-29 16:02:02 | | | Circular reference found with 1.3.6.1.4.1.19376.1.3.10.4.1, please check | | 1.3.6.1.4.1.19376.1.8.1.2.6 | | Procedure Steps Section (2.0) | 2014-05-13 19:33:12 | 1.3.6.1.4.1.19376.1.8.1.1.1 | | Anatomic Pathology Structured Report Content Module (2.0) | 2014-05-13 11:57:57 |
| | Used by | as | Name | Version | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.3.6.1.4.1.19376.1.3.10.4.1 | Containment | Specimen Procedure Step (2.0) | 2016-07-08 13:20:59 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Circular reference found with 1.3.6.1.4.1.19376.1.3.10.4.1, please check | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.3.6.1.4.1.19376.1.3.10.4.1 | | Specimen Procedure Step (1.0) | 2014-07-29 16:02:02 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Circular reference found with 1.3.6.1.4.1.19376.1.3.10.4.1, please check | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.3.6.1.4.1.19376.1.8.1.2.6 | | Procedure Steps Section (2.0) | 2014-05-13 19:33:12 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.3.6.1.4.1.19376.1.8.1.1.1 | | Anatomic Pathology Structured Report Content Module (2.0) | 2014-05-13 11:57:57 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <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</td> <td>DYNAMIC</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>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>1.3.6.1.4.1.19376.1.8.1.4.2</td> <td>Containment</td> <td> CDA author IHE</td> <td>DYNAMIC</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.8.1.4.6</td> <td>Containment</td> <td> CDA Informant(Header&Body) APSR2 (2.0)</td> <td>DYNAMIC</td> </tr> <tr> <td>2.16.840.1.113883.10.12.300</td> <td>Containment</td> <td> CDA Clinical Statement</td> <td>DYNAMIC</td> </tr> </tbody> </table> | Uses | as | Name | Version | 1.3.6.1.4.1.19376.1.3.10.9.1 | Include | X Specimen Identified | DYNAMIC | 1.3.6.1.4.1.19376.1.3.10.9.24 | Containment | CDA ManufacturedProduct APSR2 | DYNAMIC | 1.3.6.1.4.1.19376.1.3.3.1.7 | Containment | Laboratory Performer (2017) | DYNAMIC | 1.3.6.1.4.1.19376.1.8.1.4.2 | Containment | CDA author IHE | DYNAMIC | 1.3.6.1.4.1.19376.1.8.1.4.6 | Containment | CDA Informant(Header&Body) APSR2 (2.0) | DYNAMIC | 2.16.840.1.113883.10.12.300 | Containment | CDA Clinical Statement | DYNAMIC |
| Uses | as | Name | Version | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.3.6.1.4.1.19376.1.3.10.9.1 | Include | X Specimen Identified | DYNAMIC | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.3.6.1.4.1.19376.1.3.10.9.24 | Containment | CDA ManufacturedProduct APSR2 | DYNAMIC | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.3.6.1.4.1.19376.1.3.3.1.7 | Containment | Laboratory Performer (2017) | DYNAMIC | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.3.6.1.4.1.19376.1.8.1.4.2 | Containment | CDA author IHE | DYNAMIC | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.3.6.1.4.1.19376.1.8.1.4.6 | Containment | CDA Informant(Header&Body) APSR2 (2.0) | DYNAMIC | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.16.840.1.113883.10.12.300 | Containment | CDA Clinical Statement | DYNAMIC | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relationship | Specialization: template 2.16.840.1.113883.10.12.309 (2005-09-07) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Example | <p>example for use case #1, grossing and embedding</p> <pre><supply classCode="SPLY" moodCode="EVN"> <templateId root="1.3.6.1.4.1.19376.1.3.10.9.22"/> </supply></pre> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

```

<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/>
<priorityCode/>
<repeatNumber/>
<independentInd value="false"/>
<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' (dynamic) 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' (dynamic) -->
</product>
<performer>
  <!-- template 1.3.6.1.4.1.19376.1.3.3.1.7 'Laboratory Performer' (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(Header&Body) APSR2' (dynamic) -->
</informant>
<entryRelationship negationInd="false" typeCode="COMP" inversionInd="false" contextConductionInd="true">
  <sequenceNumber value="1"/>
  <seperatableInd value="false"/>
  <!-- template 2.16.840.1.113883.10.12.300 'CDA Clinical Statement' (dynamic) -->
</entryRelationship>
</supply>

```

| Item | DT | Card | Conf | Description | Label |
|------------------|-----|---------|------|-------------------------------|-------------|
| h17:supply | | 0 ... * | R | | PaLM...iner |
| └ @classCode | CS | 1 ... 1 | F | SPLY | |
| └ @moodCode | CS | 1 ... 1 | F | EVN | |
| └ h17:templateId | II | 1 ... 1 | M | | PaLM...iner |
| └└ @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...iner | |
| h17:code | CD | 0 ... 1 | R | | PaLM...iner | |
| @code | CONF | 1 ... 1 | F | 74384-9 | | |
| @codeSystem | | 1 ... 1 | F | 2.16.840.1.113883.6.1 (Logical Observation Identifier Names and Codes) | | |
| @codeSystemName | | 1 ... 1 | F | LOINC | | |
| @displayName | | 1 ... 1 | F | Specimen container | | |
| h17:text | ED | 0 ... 1 | R | Textual description of the container (plus container components) | PaLM...iner | |
| | 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 CNE | 1 ... 1 | M | | PaLM...iner | |
| | CONF | The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933 ActStatus (DYNAMIC) | | | | |
| h17:effectiveTime | SXCM_TS | 0 ... 1 | R | | PaLM...iner | |
| h17:quantity | PQ | 0 ... 1 | R | | PaLM...iner | |
| h17:expectedUseTime | IVL_TS | 0 ... 1 | | | PaLM...iner | |
| Included | | 0 ... * | R | from 1.3.6.1.4.1.19376.1.3.10.9.1 X Specimen Identified (DYNAMIC) | | |
| 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 2.0-3: 6.3.6.9 X Specimen identified | |
| @typeCode | cs | 0 ... 1 | F | SPC | | |

| | | | | | |
|--------------------------|-----|---------|---|---|---|
| h17:specimenRole | | 1 ... 1 | M | | PaLM Suppl. APSR 2.0-3: 6.3.6.9 X Specimen identified |
| @classCode | CS | 0 ... 1 | F | SPEC | |
| h17:id | II | 1 ... 1 | R | Specimen ID, coming from the LIS | PaLM Suppl. APSR 2.0-3: 6.3.6.9 X Specimen identified |
| h17:product | | 1 ... 1 | M | Contains 1.3.6.1.4.1.19376.1.3.10.9.24 CDA ManufacturedProduct APSR2 (DYNAMIC) | PaLM...iner |
| where [not(@nullFlavor)] | | | | | |
| @typeCode | CS | 1 ... 1 | F | PRD | |
| h17:performer | | 0 ... * | C | Contains 1.3.6.1.4.1.19376.1.3.3.1.7 Laboratory Performer (DYNAMIC) | PaLM...iner |
| h17:author | | 0 ... * | C | Contains 1.3.6.1.4.1.19376.1.8.1.4.2 CDA author IHE (DYNAMIC) | PaLM...iner |
| h17:informant | | 0 ... * | R | Contains 1.3.6.1.4.1.19376.1.8.1.4.6 CDA Informant(Header&Body) APSR2 (DYNAMIC) | PaLM...iner |
| h17:entryRelationship | | 0 ... * | R | Contains 2.16.840.1.113883.10.12.300 CDA Clinical Statement (DYNAMIC) | PaLM...iner |
| @typeCode | CS | 1 ... 1 | F | COMP | |
| @contextConductionInd | bl | 0 ... 1 | F | true | |
| @inversionInd | bl | 0 ... 1 | | | |
| @negationInd | bl | 0 ... 1 | | | |
| h17:sequenceNumber | INT | 0 ... 1 | | | PaLM...iner |

| | | | |
|--------------------|----|---------|-------------|
| h17:seperatableInd | BL | 0 ... 1 | PaLM...iner |
|--------------------|----|---------|-------------|

Supportive Template CDA ManufacturedProduct APSR2 - 1.3.6.1.4.1.19376.1.3.10.9.24

| | | | |
|-----------------------|---|-----------------------|--|
| Id | 1.3.6.1.4.1.19376.1.3.10.9.24 | Effective Date | valid from 2016-09-09 12:37:49 |
| Status | Draft | Version Label | |
| Name | CDAManufacturedProductAPSR2 | Display Name | CDA ManufacturedProduct APSR2 |
| Description | 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 | | |
| Classification | CDA Entry Level Template | | |
| Open/Closed | Open (other than defined elements are allowed) | | |
| Used by / Uses | Used by 0 transactions and 5 templates, Uses 2 templates | | |
| | Used by | as | Name |
| | 1.3.6.1.4.1.19376.1.3.10.9.22 | Containment | CDA Supply Container APSR2 (2.0) |
| | 1.3.6.1.4.1.19376.1.3.10.4.1 | | Specimen Procedure Step (2.0) |
| | | | Circular reference found with 1.3.6.1.4.1.19376.1.3.10.4.1, please check |
| | 1.3.6.1.4.1.19376.1.3.10.4.1 | | Specimen Procedure Step (1.0) |
| | | | Circular reference found with 1.3.6.1.4.1.19376.1.3.10.4.1, please check |
| | 1.3.6.1.4.1.19376.1.8.1.2.6 | | Procedure Steps Section (2.0) |
| | 1.3.6.1.4.1.19376.1.8.1.1.1 | | Anatomic Pathology Structured Report Content Module (2.0) |
| | | Uses | as |
| | 1.3.6.1.4.1.19376.1.3.10.9.23 | Include | CDA Material Container APSR2 |
| | 2.16.840.1.113883.10.12.151 | Containment | CDA Organization |
| Relationship | Adaptation: template 2.16.840.1.113883.10.12.312 (2005-09-07) | | |

Example

Example

















```

<manufacturedProduct classCode="MANU">
  <id root="1.2.3.999" extension="--example only--"/>
  <!-- include template 1.3.6.1.4.1.19376.1.3.10.9.23 'CDA Material Container APSR2' (dynamic) 0..1 R -->
  <manufacturerOrganization>
    <!-- template 2.16.840.1.113883.10.12.151 'CDA Organization' (dynamic) -->
  </manufacturerOrganization>
</manufacturedProduct>

```

| Item | DT | Card | Conf | Description | Label |
|--------------------------------|--------|---------|------|--|-------------|
| h17:manufacturedProduct | | 0 ... 1 | R | | (CDA...SR2) |
| └ @classCode | CS | 1 ... 1 | F | MANU | |
| └ h17:id | II | 0 ... * | R | | (CDA...SR2) |
| Included | | 1 ... 1 | M | from 1.3.6.1.4.1.19376.1.3.10.9.23 <i>CDA Material Container APSR2</i> (DYNAMIC) Material the specimen container consists of, e.g. Tissue cassette or Paraffin wax for a Paraffin Block, etc. | |
| └ h17:manufacturedMaterial | | 1 ... 1 | M | | (CDA...SR2) |
| └ @classCode | CS | 1 ... 1 | F | MMAT class code "MMAT" for container | |
| └ @determinerCode | CS | 0 ... 1 | F | KIND | |
| └ h17:code | CE CWE | 0 ... * | R | | (CDA...SR2) |
| | CONF | | | The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.16041 <i>MaterialEntityType</i> (DYNAMIC) or The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.8 <i>ContainerEntityType-PaLM</i> (DYNAMIC) | |
| └ h17:name | EN | 0 ... 1 | R | | (CDA...SR2) |
| └ h17:lotNumberText | ST | 0 ... 1 | | | (CDA...SR2) |
| └ h17:manufacturerOrganization | | 0 ... 1 | R | Contains 2.16.840.1.113883.10.12.151 <i>CDA Organization</i> (DYNAMIC) | (CDA...SR2) |

Supportive Template CDA Material Container APSR2 - 1.3.6.1.4.1.19376.1.3.10.9.23

| | | | |
|-----------------------------|--|--|--|
| Id | 1.3.6.1.4.1.19376.1.3.10.9.23 | Effective Date | valid from 2016-09-08 12:20:45 |
| Status |  Draft | Version Label | |
| Name | CDAMaterialContainerAPSR2 | Display Name | CDA Material Container APSR2 |
| Description | Template CDA Material (prototype, directly derived from POCD_RM000040 MIF) Entry describing the properties of a container in PaLM / PAT | | |
| Classification | CDA Entry Level Template | | |
| Open/Closed | Open (other than defined elements are allowed) | | |
| Used by / Uses | Used by 0 transactions and 6 templates, Uses 0 templates | | |
| | Used by | as | Name |
| | 1.3.6.1.4.1.19376.1.3.10.9.24 | Include |  CDA ManufacturedProduct APSR2 |
| | 1.3.6.1.4.1.19376.1.3.10.9.22 |  |  CDA Supply Container APSR2 (2.0) |
| | 1.3.6.1.4.1.19376.1.3.10.4.1 |  |  Specimen Procedure Step (2.0) |
| | 1.3.6.1.4.1.19376.1.3.10.4.1 |   | Circular reference found with 1.3.6.1.4.1.19376.1.3.10.4.1, please check |
| | 1.3.6.1.4.1.19376.1.3.10.4.1 |   | Specimen Procedure Step (1.0) |
| | 1.3.6.1.4.1.19376.1.3.10.4.1 |   | Circular reference found with 1.3.6.1.4.1.19376.1.3.10.4.1, please check |
| 1.3.6.1.4.1.19376.1.8.1.2.6 |  |  Procedure Steps Section (2.0) | |
| 1.3.6.1.4.1.19376.1.8.1.1.1 |  |  Anatomic Pathology Structured Report Content Module (2.0) | |
| Relationship | Adaptation: template 2.16.840.1.113883.10.12.311 (2005-09-07) | | |
| Example | generated example | | |
| | <pre><manufacturedMaterial classCode="MMAT" determinerCode="KIND"> <code code="PKG" displayName="Package" codeSystem="2.16.840.1.113883.5.1060"/> <name>name</name> <lotNumberText/> </manufacturedMaterial></pre> | | |
| Example | example for use case '1, specimen collection | | |
| | <pre><manufacturedMaterial classCode="MMAT" determinerCode="KIND"> <code code="TUBE" displayName="tube" codeSystem="2.16.840.1.113883.1.11.16041"/> <name>Plastic tube</name> </manufacturedMaterial></pre> | | |

| | |
|---------|---|
| Example | <p>example for use case '1, embedding</p> <pre><manufacturedMaterial classCode="MMAT" determinerCode="KIND"> <code code="434464009" displayName="Tissue cassette (physical object)" codeSystem="2.16.840.1.113883.6.96"/> <name>Block</name> </manufacturedMaterial></pre> |
| Example | <p>example for use case '1, sectioning and staining</p> <pre><manufacturedMaterial classCode="MMAT" determinerCode="KIND"> <code code="433466003" displayName="Microscope slide (physical object)" codeSystem="2.16.840.1.113883.6.96"/> <name>Slide</name> </manufacturedMaterial></pre> |

| Item | DT | Card | Conf | Description | Label |
|--------------------------|--------|---------|------|--|-------------|
| h17:manufacturedMaterial | | 0 ... 1 | R | | (CDA...SR2) |
| └ @classCode | CS | 1 ... 1 | F | MMAT class code "MMAT" for container | |
| └ @determinerCode | CS | 0 ... 1 | F | KIND | |
| └ h17:code | CE CWE | 0 ... * | R | | (CDA...SR2) |
| | CONF | | | The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.16041 <i>MaterialEntityType</i> (DYNAMIC) or The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.8 <i>ContainerEntityType-PaLM</i> (DYNAMIC) | |
| └ h17:name | EN | 0 ... 1 | R | | (CDA...SR2) |
| └ h17:lotNumberText | ST | 0 ... 1 | | | (CDA...SR2) |

6.3.6.5 Informant – 1.3.6.1.4.1.19376.1.8.1.4.6


6.3.6.5.1 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.

6.3.6.5.2 Specification and Example

| | | | |
|---------------|---|-----------------------|----------------------------------|
| Id | 1.3.6.1.4.1.19376.1.8.1.4.6 | Effective Date | valid from 2016-07-08 11:22:58 |
| Status |  Draft | Version Label | 2.0 |
| Name | CDAInformantHeaderBodyAPSR2 | Display Name | CDA Informant(Header&Body) APSR2 |










Description




















Template CDA Informant Body (prototype, directly derived from POCD_RM000040 MIF)

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.

| | |
|-----------------------|---|
| Context | Sibling nodes of template element with id 1.3.6.1.4.1.19376.1.8.1.4.6 |
| Label | PaLM Suppl. APSR 2.0-3: 6.3.6.5 Informant |
| Classification | Template type not specified |
| Open/Closed | Open (other than defined elements are allowed) |

Used by 0 transactions and 31 templates, Uses 2 templates

| Used by | as | Name | Version |
|-------------------------------|--|---|------------------------|
| 1.3.6.1.4.1.19376.1.3.10.4.2 | Containment |  TNM Stage Observation (2.0) | 2014-05-13 15:45:13 |
| 1.3.6.1.4.1.19376.1.3.10.4.1 |  |  Specimen Procedure Step (1.0) | 2014-07-29 16:02:02 |
| |  | Circular reference found with 1.3.6.1.4.1.19376.1.3.10.4.1, please check | |
| 1.3.6.1.4.1.19376.1.3.10.4.3 | Containment |  ICD-O-3 Typing and Grading Observation (2.0) | 2015-11-29 17:03:18 |
| 1.3.6.1.4.1.19376.1.3.10.4.4 | Containment |  Assessment Scales Observation for Scoring Systems APSR2 (2.0) | 2016-10-06 13:12:00 |
| 1.3.6.1.4.1.19376.1.3.10.9.22 | Containment |  CDA Supply Container APSR2 (2.0) | 2016-07-29 12:09:33 |
| 1.3.6.1.4.1.19376.1.3.10.4.1 |  |  Specimen Procedure Step (2.0) | 2016-07-08 13:20:59 |

| | | | |
|--|-------------------------------|--|------------------------|
| | |  Circular reference found with 1.3.6.1.4.1.19376.1.3.10.4.1, please check | |
| | 1.3.6.1.4.1.19376.1.8.1.2.6 |   Procedure Steps Section (2.0) | 2014-05-13 19:33:12 |
| | 1.3.6.1.4.1.19376.1.8.1.1.1 |   Anatomic Pathology Structured Report Content Module (2.0) | 2014-05-13 11:57:57 |
| | 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 |
| | 1.3.6.1.4.1.19376.1.3.10.9.28 | 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 |
| | 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 |
| | 1.3.6.1.4.1.19376.1.3.10.9.32 | Containment  TNM y (2.0) | 2015-06-22 17:28:17 |
| | 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 |
| | 1.3.6.1.4.1.19376.1.3.10.9.37 | Containment  TNM Number of nodes (2.0) | 2014-12-02 16:48:36 |
| | 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 |
| | 1.3.6.1.4.1.19376.1.3.10.9.42 |   Assessment Scoring System APSR 2.0 (2.0) | 2016-10-10 11:33:36 |

| 1.3.6.1.4.1.19376.1.8.1.3.6 | Containment | Problem Organizer (2.0) | 2015-08-13 10:24:55 |
|---|-------------|--|---------------------|
| 1.3.6.1.4.1.19376.1.3.10.3.1 | | Additional Specified Observation Section (2.0) | 2016-11-13 14:28:08 |
| 1.3.6.1.4.1.19376.1.8.1.2.1 | | Clinical Information Section (2.0) | 2014-05-13 14:38:08 |
| 1.3.6.1.4.1.19376.1.8.1.2.2 | | Intraoperative Observation Section (2.0) | 2014-05-13 19:29:16 |
| 1.3.6.1.4.1.19376.1.8.1.2.3 | | Macroscopic Observation Section (2.0) | 2014-05-13 11:57:09 |
| 1.3.6.1.4.1.19376.1.8.1.2.4 | | Microscopic Observation Section (2.0) | 2014-05-13 14:25:17 |
| 1.3.6.1.4.1.19376.1.8.1.2.5 | | Diagnostic Conclusion Section (2.0) | 2014-05-13 19:31:26 |
| 1.3.6.1.4.1.19376.1.8.1.4.9 | Containment | AP Observation Entry (2.0) | 2014-05-14 17:09:54 |
| Circular reference found with 1.3.6.1.4.1.19376.1.8.1.4.9, please check | | | |
| Uses | as | Name | Version |
| 2.16.840.1.113883.10.12.153 | Containment | CDA AssignedEntity | DYNAMIC |
| 2.16.840.1.113883.10.12.316 | Containment | CDA RelatedEntity | DYNAMIC |

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

Example

```

<art:placeholder typeCode="INF" contextControlCode="OP">
  <!-- choice: 1..1
  element hl7:assignedEntity containing template 2.16.840.1.113883.10.12.153 (dynamic)
  element hl7:relatedEntity containing template 2.16.840.1.113883.10.12.316 (dynamic)
  -->
</art:placeholder>
    
```

| Item | DT | Card | Conf | Description | Label |
|---------------------|----|---------|------|-------------|-------------|
| @typeCode | CS | 0 ... 1 | F | INF | |
| @contextControlCode | CS | 0 ... 1 | F | OP | |
| hl7:templateId | II | 1 ... 1 | M | | PaLM...mant |

| | | | | |
|----------------------|---------------|-----------------------------|---|--|
| └ @root | uid 1 ... 1 F | 1.3.6.1.4.1.19376.1.8.1.4.6 | | |
| | | | | The informant is either an assignedEntity (i.e. a person playing an identified role in the process of care) or a relatedEntity (a person related to the patient) Elements to choose from: |
| Choice | 0 ... 1 | | | <ul style="list-style-type: none"> ▪ hl7:assignedEntity containing template 2.16.840.1.113883.10.12.153 CDA AssignedEntity (DYNAMIC) ▪ hl7:relatedEntity containing template 2.16.840.1.113883.10.12.316 CDA RelatedEntity (DYNAMIC) |
| └ hl7:assignedEntity | 0 ... 1 C | | Contains 2.16.840.1.113883.10.12.153 CDA AssignedEntity (DYNAMIC) | PaLM...mant |
| └ hl7:relatedEntity | 0 ... 1 C | | Contains 2.16.840.1.113883.10.12.316 CDA RelatedEntity (DYNAMIC) | PaLM...mant |

6.3.6.6 Additional participant in an entry - 1.3.6.1.4.1.19376.1.8.1.4.7

6.3.6.6.1 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.

6.3.6.6.2 Specification and Example

| | | | |
|---------------|---|-----------------------|--|
| Id | 1.3.6.1.4.1.19376.1.8.1.4.7 | Effective Date | valid from 2016-07-12 18:44:06 |
| Status |  Draft | Version Label | |
| Name | AdditionalParticipantAPSR | Display Name | Additional participant in an entry APSR (Body) |

| | | | |
|-----------------------------|--|---|---|
| Description | Template CDA Participant (Body) (prototype, directly derived from POCD_RM000040 MIF) | | |
| Label | PaLM Suppl. APSR 2.0-3: 6.3.6.6 Additional participant | | |
| Classification | CDA Entry Level Template | | |
| Open/Closed | Open (other than defined elements are allowed) | | |
| Used by / Uses | Used by 0 transactions and 18 templates, Uses 2 templates | | |
| | Used by | as | Name |
| | 1.3.6.1.4.1.19376.1.3.10.4.2 | Containment | TNM Stage Observation (2.0) |
| | 1.3.6.1.4.1.19376.1.3.10.4.1 | | Specimen Procedure Step (1.0) |
| | 1.3.6.1.4.1.19376.1.3.10.4.3 | Containment | ICD-O-3 Typing and Grading Observation (2.0) |
| | 1.3.6.1.4.1.19376.1.3.10.4.4 | Containment | Assessment Scales Observation for Scoring Systems APSR2 (2.0) |
| | 1.3.6.1.4.1.19376.1.3.10.9.26 | Containment | TNM N-Observation (2.0) |
| | 1.3.6.1.4.1.19376.1.3.10.9.27 | Containment | TNM M-Observation (2.0) |
| | 1.3.6.1.4.1.19376.1.3.10.9.37 | Containment | TNM Number of nodes (2.0) |
| | 1.3.6.1.4.1.19376.1.3.10.9.43 | Containment | Assessment Scoring Item APSR 2.0 (2.0) |
| | 1.3.6.1.4.1.19376.1.3.10.9.42 | | Assessment Scoring System APSR 2.0 (2.0) |
| | 1.3.6.1.4.1.19376.1.8.1.3.6 | Containment | Problem Organizer (2.0) |
| | 1.3.6.1.4.1.19376.1.3.10.3.1 | | Additional Specified Observation Section (2.0) |
| | 1.3.6.1.4.1.19376.1.8.1.1.1 | | Anatomic Pathology Structured Report Content Module (2.0) |
| | 1.3.6.1.4.1.19376.1.8.1.2.1 | | Clinical Information Section (2.0) |
| | 1.3.6.1.4.1.19376.1.8.1.2.2 | | Intraoperative Observation Section (2.0) |
| | 1.3.6.1.4.1.19376.1.8.1.2.3 | | Macroscopic Observation Section (2.0) |
| | 1.3.6.1.4.1.19376.1.8.1.2.4 | | Microscopic Observation Section (2.0) |
| | 1.3.6.1.4.1.19376.1.8.1.2.5 | | Diagnostic Conclusion Section (2.0) |
| | 1.3.6.1.4.1.19376.1.8.1.4.9 | Containment | AP Observation Entry (2.0) |
| | | Circular reference found with 1.3.6.1.4.1.19376.1.8.1.4.9, please check | |
| Uses | as | Name | |
| 2.16.840.1.113883.10.12.315 | Containment | CDA Device | |
| 2.16.840.1.113883.10.12.313 | Containment | CDA PlayingEntity | |
| Relationship | Adaptation: template 2.16.840.1.113883.10.12.321 (2005-09-07) | | |

Example

generated example

```
<art:placeholder typeCode="PART" contextControlCode="OP">
  <templateId root="1.3.6.1.4.1.19376.1.8.1.4.7"/>
  <time/>
  <participantRole classCode="ROL">
    <id root="1.2.3.999" extension="--example only--"/>
    <addr>addr</addr>
    <telecom value="tel:+1-12345678"/>
    <!-- choice: 0..1
  element h17:playingDevice containing template 2.16.840.1.113883.10.12.315 (dynamic)
  element h17:playingEntity containing template 2.16.840.1.113883.10.12.313 (dynamic)
  -->
  </participantRole>
</art:placeholder>
```

| 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> (DYNAMIC) | |
| @contextControlCode | CS | 0 ... 1 | F | OP | |
| h17:templateId | II | 1 ... 1 | M | | PaLM...pant |
| └ @root | uid | 1 ... 1 | F | 1.3.6.1.4.1.19376.1.8.1.4.7 | |
| h17:time | TS | 0 ... 1 | R | | PaLM...pant |
| h17:participantRole | | 1 ... 1 | M | | PaLM...pant |
| └ @classCode | CS | 0 ... 1 | F | ROL | |
| └ h17:id | II | 0 ... * | R | | PaLM...pant |
| └ h17:addr | AD | 0 ... * | R | | PaLM...pant |
| └ h17:telecom | TEL | 0 ... * | R | | PaLM...pant |
| Choice | | 0 ... 1 | | Elements to choose from: | |

| | | | |
|---------------------|------------|---|---|
| | | | <ul style="list-style-type: none"> hl7:playingDevice containing template 2.16.840.1.113883.10.12.315 CDA Device (DYNAMIC) hl7:playingEntity containing template 2.16.840.1.113883.10.12.313 CDA PlayingEntity (DYNAMIC) |
| | 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. | |
| └ hl7:playingDevice | | 0 ... 1 C | Contains 2.16.840.1.113883.10.12.315 CDA Device (DYNAMIC) PaLM...pant |
| | Constraint | When the participant is a device at least one of the sub-elements code, softwareName and manufacturerModel-Name SHALL be present. | |
| └ hl7:playingEntity | | 0 ... 1 C | Contains 2.16.840.1.113883.10.12.313 CDA PlayingEntity (DYNAMIC) PaLM...pant |
| | Constraint | only name(s) SHALL be given | |

6.3.6.7 Anatomic Pathology Observation template – 1.3.6.1.4.1.19376.1.8.1.4.9

6.3.6.7.1 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"

6.3.6.7.2 Specification and Example

| | | | |
|---------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.8.1.4.9 | Effective Date | valid from 2014-05-14 17:09:54 |
| Status |  Draft | Version Label | 2.0 |
| Name | APObservationEntry | Display Name | 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.

| | |
|-----------------------|--|
| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.8.1.4.9 |
| Label | PaLM TF Suppl. APSR 2.0-3: 6.3.6.7 AP observation |
| Classification | CDA Entry Level Template |
| Open/Closed | Open (other than defined elements are allowed) |

Used by 0 transactions and 9 templates, Uses 9 templates

| Used by | as | Name | Version |
|---|-------------|---|------------------------|
| 1.3.6.1.4.1.19376.1.8.1.3.6 | Containment | Problem Organizer (2.0) | 2015-08-13 10:24:55 |
| 1.3.6.1.4.1.19376.1.3.10.3.1 | | Additional Specified Observation Section (2.0) | 2016-11-13 14:28:08 |
| 1.3.6.1.4.1.19376.1.8.1.1.1 | | Anatomic Pathology Structured Report Content Module (2.0) | 2014-05-13 11:57:57 |
| 1.3.6.1.4.1.19376.1.8.1.2.1 | | Clinical Information Section (2.0) | 2014-05-13 14:38:08 |
| 1.3.6.1.4.1.19376.1.8.1.2.2 | | Intraoperative Observation Section (2.0) | 2014-05-13 19:29:16 |
| 1.3.6.1.4.1.19376.1.8.1.2.3 | | Macroscopic Observation Section (2.0) | 2014-05-13 11:57:09 |
| 1.3.6.1.4.1.19376.1.8.1.2.4 | | Microscopic Observation Section (2.0) | 2014-05-13 14:25:17 |
| 1.3.6.1.4.1.19376.1.8.1.2.5 | | Diagnostic Conclusion Section (2.0) | 2014-05-13 19:31:26 |
| 1.3.6.1.4.1.19376.1.8.1.4.9 | Containment | AP Observation Entry (2.0) | 2014-05-14 17:09:54 |
| Circular reference found with 1.3.6.1.4.1.19376.1.8.1.4.9, please check | | | |
| Uses | as | Name | Version |

| | | | | |
|-------------------------------|-------------|--|--|------------|
| 1.3.6.1.4.1.19376.1.3.3.1.7 | Containment | | Laboratory Performer (2017) | DYNAMIC |
| 1.3.6.1.4.1.19376.1.8.1.4.2 | Containment | | CDA author IHE | DYNAMIC |
| 1.3.6.1.4.1.19376.1.8.1.4.6 | Containment | | CDA Informant(Header&Body) APSR2 (2.0) | DYNAMIC |
| 1.3.6.1.4.1.19376.1.8.1.4.7 | Containment | | Additional participant in an entry APSR (Body) | DYNAMIC |
| 1.3.6.1.4.1.19376.1.8.1.4.9 | Containment | | AP Observation Entry (2.0) | DYNAMIC |
| 1.3.6.1.4.1.19376.1.8.1.4.10 | Containment | | Embedded Image IHE | DYNAMIC |
| 2.16.840.1.113883.10.12.307 | Containment | | CDA RegionOfInterest | DYNAMIC |
| 1.3.6.1.4.1.19376.1.5.3.1.4.2 | Containment | | Annotation Comment (2017) | 2008-08-08 |
| 1.3.6.1.4.1.19376.1.3.10.9.1 | Include | | X Specimen Identified | DYNAMIC |

Relationship

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="1.2.3.999" extension="--example only--"/>
  <code code="16112-5" codeSystem="2.16.840.1.113883.6.1" displayName="Estrogen receptor [Interpretation] in Tissue"/>
  <text/>
  <statusCode code="completed"/>
  <effectiveTime>
    <low value="20161129162112"/>
  </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' (dynamic) -->
  </entryRelationship>
  <entryRelationship xsi:type="" typeCode="COMP">
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.10 'Embedded Image IHE' (dynamic) -->
  </entryRelationship>
  <entryRelationship xsi:type="" typeCode="COMP">
    <!-- template 2.16.840.1.113883.10.12.307 'CDA RegionOfInterest' (dynamic) -->
  </entryRelationship>

```

```
<!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (dynamic) 0..* O -->
</observation>
```

| Item | DT | Card | Conf | Description | Label |
|--------------------|--------|---|------|--|-------------|
| h17:observation | | 0 ... * | R | | PaLM...tion |
| └ @classCode | CS | 1 ... 1 | F | OBS | |
| └ @moodCode | CS | 1 ... 1 | F | EVN | |
| └ @negationInd | bl | 0 ... 1 | | | |
| └ h17:templateId | II | 1 ... 1 | M | | PaLM...tion |
| └└ @root | uid | 1 ... 1 | F | 1.3.6.1.4.1.19376.1.8.1.4.9 | |
| └ h17:id | II | 0 ... * | R | | PaLM...tion |
| └ h17:code | CE CWE | 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...tion |
| └└ @code | CONF | 1 ... 1 | F | each_code_for_observable_entities_or_a_specific_procedure | |
| └└ @codeSystem | | 1 ... 1 | F | 2.16.840.1.113883.6.1 (Logical Observation Identifier Names and Codes) | |
| └└ @codeSystemName | | 1 ... 1 | F | LOINC | |
| └└ @displayName | | 1 ... 1 | F | see_above | |
| Example | | <pre><code code="59847-4" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Histology and Behavior ICD-O-3"/></pre> | | | |
| └ h17:text | ED | 0 ... 1 | R | Narrative text about the observation | PaLM...tion |
| └ h17:statusCode | CS CNE | 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...tion |
| | CONF | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.2 (DYNAMIC)  Error: Cannot find value set "1.3.6.1.4.1.19376.1.3.11.2" | | | |

| | | | | | | | |
|----|--------------------------|------------|---|---|---|-------------|--|
| 02 | └ h17:effectiveTime | IVL_TS | 1 ... 1 | M | Date and time the observation has been made | PaLM...tion | |
| 03 | | | | | Observation values using the appropriate data type. | | |
| 04 | └ h17:value | ANY | 0 ... * | R | Numeric results use data type PQ, which includes the unit. The result is absent in case of 'aborted' observation. | PaLM...tion | |
| 05 | | | | | | | |
| 06 | | Constraint | The default data type, cardinalities and value set for the <value> element are dependant on the type of observation. | | | | |
| 07 | | CONF | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.11 <i>AP Observation</i> (DYNAMIC) | | | | |
| 08 | | Example | for observation on tumor type <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"/> | | | | |
| 09 | | | | | | | |
| 10 | └ h17:interpretationCode | CE CWE | 0 ... 1 | R | 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). | PaLM...tion | |
| 11 | | | | | | | |
| 12 | | CONF | The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.78 <i>ObservationInterpretation</i> (DYNAMIC) | | | | |
| 13 | | | | | | | |
| 14 | └ h17:methodCode | CE CWE | 0 ... 1 | R | | PaLM...tion | |
| 15 | | | | | | | |
| 16 | | CONF | The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.14079 <i>ObservationMethod</i> (DYNAMIC) | | | | |
| 17 | | | | | | | |
| 18 | └ 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> (DYNAMIC) | PaLM...tion | |
| 19 | | | | | | | |
| 20 | | Constraint | The performing laboratory is present at this level only if this particular observation was performed by a (sub-contractor) laboratory distinct from the one issuing the rest of the observations in this organizer. | | | | |
| 21 | └ h17:author | II | 0 ... * | C | Author Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.2 | PaLM...tion | |
| 22 | | | | | | | |

| | | | | | |
|-------------------------|----|---------|---|--|-------------|
| | | | | Contains 1.3.6.1.4.1.19376.1.8.1.4.2 <i>CDA author IHE</i> (DYNAMIC) | |
| L 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>CDA Informant(Header&Body) APSR2</i> (DYNAMIC) | PaLM...tion |
| 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 APSR (Body)</i> (DYNAMIC) | PaLM...tion |
| L h17:entryRelationship | | 0 ... * | R | Sub-Observation The result obtained for an observation may lead to an additional AP observation to refine this result. This sub-observation is again an Anatomic Pathology Observation. Source: Source: PaLM TF 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> (DYNAMIC) | PaLM...tion |
| L @typeCode | CS | 1 ... 1 | F | COMP | |
| L h17:entryRelationship | | 0 ... * | R | Embedded image. This observation may carry an illustrative image, either directly embedded or encapsulated within a region of interest. Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.8 Contains 1.3.6.1.4.1.19376.1.8.1.4.10 <i>Embedded Image IHE</i> (DYNAMIC) | PaLM...tion |
| L @typeCode | CS | 1 ... 1 | F | COMP | |
| L h17:entryRelationship | | 0 ... * | R | Region of Interest | PaLM...tion |

| | | | | | |
|-------------------------|------------|--|---|--|---|
| | | | | Contains 2.16.840.1.113883.10.12.307 CDA RegionOfInterest (DYNAMIC) | |
| └ @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" | | | |
| └ h17:entryRelationship | | 0 ... * | R | Annotation comment | PaLM...tion |
| | | Contains 1.3.6.1.4.1.19376.1.5.3.1.4.2 Annotation Comment (2008-08-08) | | | |
| └ @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 (DYNAMIC) Specimen identification | |
| | Example | Example for specimen referencing <pre> <specimen> <!-- which specimen is used for this observation --> <specimenRole> <id root="1.3.6.1.4.1.19376.1.8.1.4.999999" extension="slide_A_1_PR"/> </specimenRole> </specimen> </pre> | | | |
| └ 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 2.0-3: 6.3.6.9 X Specimen identified |
| └ @typeCode | cs | 0 ... 1 | F | SPC | |
| └ h17:specimenRole | | 1 ... 1 | M | | PaLM Suppl. APSR |

| | | | | | |
|--------------|----|---------|---|----------------------------------|--|
| | | | | | 2.0-3: 6.3.6.9 X Specimen identified |
| L @classCode | cs | 0 ... 1 | F | SPEC | |
| L h17:id | II | 1 ... 1 | R | Specimen ID, coming from the LIS | PaLM Sup- pl. APSR 2.0-3: 6.3.6.9 X Specimen identified |

6.3.6.8 Embedded Image – 1.3.6.1.4.1.19376.1.8.1.4.10

6.3.6.8.1 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 <render-Multimedia> 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.

6.3.6.8.2 Specification and Example

| | | | |
|---------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.8.1.4.10 | Effective Date | valid from 2016-06-22 16:08:01 |
| Status |  Draft | Version Label | |
| Name | EmbeddedImageIHE | Display Name | Embedded Image IHE |

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.

| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.8.1.4.10 | | | |
|-----------------------------|---|---|---|------------------------|
| Label | PaLM TF-3: 6.3.4.14 Embedded image | | | |
| Classification | CDA Entry Level Template | | | |
| Open/Closed | Open (other than defined elements are allowed) | | | |
| Used by / Uses | Used by 0 transactions and 9 templates, Uses 5 templates | | | |
| | Used by | as | Name | Version |
| | 1.3.6.1.4.1.19376.1.8.1.3.6 | Containment | Problem Organizer (2.0) | 2015-08-13 10:24:55 |
| | 1.3.6.1.4.1.19376.1.3.10.3.1 | | Additional Specified Observation Section (2.0) | 2016-11-13 14:28:08 |
| | 1.3.6.1.4.1.19376.1.8.1.1.1 | | Anatomic Pathology Structured Report Content Module (2.0) | 2014-05-13 11:57:57 |
| | 1.3.6.1.4.1.19376.1.8.1.2.1 | | Clinical Information Section (2.0) | 2014-05-13 14:38:08 |
| | 1.3.6.1.4.1.19376.1.8.1.2.2 | | Intraoperative Observation Section (2.0) | 2014-05-13 19:29:16 |
| | 1.3.6.1.4.1.19376.1.8.1.2.3 | | Macroscopic Observation Section (2.0) | 2014-05-13 11:57:09 |
| | 1.3.6.1.4.1.19376.1.8.1.2.4 | | Microscopic Observation Section (2.0) | 2014-05-13 14:25:17 |
| | 1.3.6.1.4.1.19376.1.8.1.2.5 | | Diagnostic Conclusion Section (2.0) | 2014-05-13 19:31:26 |
| 1.3.6.1.4.1.19376.1.8.1.4.9 | Containment | AP Observation Entry (2.0) | 2014-05-14 17:09:54 | |
| | | Circular reference found with 1.3.6.1.4.1.19376.1.8.1.4.9, please check | | |

| Uses | as | Name | Version |
|-------------------------------|-------------|-----------------------------|---------|
| 1.3.6.1.4.1.19376.1.3.10.9.1 | Include | X Specimen Identified | DYNAMIC |
| 1.3.6.1.4.1.19376.1.3.3.1.7 | Containment | Laboratory Performer (2017) | DYNAMIC |
| 1.3.6.1.4.1.19376.1.8.1.4.2 | Containment | CDA author IHE | DYNAMIC |
| 2.16.840.1.113883.10.12.319 | Containment | CDA Informant (Body) | DYNAMIC |
| 1.3.6.1.4.1.19376.1.5.3.1.4.2 | Containment | IHE Comment Entry (2014) | DYNAMIC |

Relationship Specialization: template 2.16.840.1.113883.10.12.304 (2005-09-07)

Example

```

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' (dynamic) 1..1 M -->
  <performer>
    <!-- template 1.3.6.1.4.1.19376.1.3.3.1.7 'Laboratory Performer' (dynamic) -->
  </performer>
  <author>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author' (dynamic) -->
  </author>
  <informant>
    <!-- template 2.16.840.1.113883.10.12.319 'CDA Informant (Body)' (dynamic) -->
  </informant>
  <entryRelationship negationInd="false" typeCode="SUBJ" inversionInd="true" contextConductionInd="true">
    <sequenceNumber value="1"/>
    <seperatableInd value="false"/>
    <!-- template 1.3.6.1.4.1.19376.1.5.3.1.4.2 'IHE Comment Entry' (dynamic) -->
  </entryRelationship>
</observationMedia>
    
```

| Item | DT | Card | Conf | Description | Label |
|----------------------|-----|---------|------|------------------------------|-------------|
| h17:observationMedia | | 0 ... * | R | Embedded Image | PaLM...mage |
| └ @classCode | cs | 1 ... 1 | F | OBS | |
| └ @moodCode | cs | 1 ... 1 | F | EVN | |
| └ h17:templateId | II | 1 ... 1 | M | | PaLM...mage |
| └└ @root | uid | 1 ... 1 | F | 1.3.6.1.4.1.19376.1.8.1.4.10 | |

| | | | | | |
|------------------|------------|---------|---|--|---|
| h17: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...mage |
| h17:value | | 1 ... 1 | R | | PaLM...mage |
| @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 <i>X Specimen Identified</i> (DYNAMIC) | |
| h17: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 2.0-3: 6.3.6.9 X Specimen identified |
| @typeCode | CS | 0 ... 1 | F | SPC | |
| h17:specimenRole | | 1 ... 1 | M | | PaLM Suppl. APSR 2.0-3: 6.3.6.9 X Specimen identified |
| @classCode | CS | 0 ... 1 | F | SPEC | |
| h17:id | II | 1 ... 1 | R | Specimen ID, coming from the LIS | PaLM Suppl. APSR 2.0-3: 6.3.6.9 X Specimen identified |
| h17:performer | | 0 ... * | C | Contains 1.3.6.1.4.1.19376.1.3.3.1.7 <i>Laboratory Performer</i> (DYNAMIC) | PaLM...mage |

| | | | | | |
|-----------------------|----|---------|---|---|-------------|
| h17:author | | 0 ... * | C | Contains 1.3.6.1.4.1.19376.1.8.1.4.2 CDA author IHE (DYNAMIC) | PaLM...mage |
| h17:informant | | 0 ... * | R | Contains 2.16.840.1.113883.10.12.319 CDA Informant (Body) (DYNAMIC) | PaLM...mage |
| 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 IHE Comment Entry (DYNAMIC) | PaLM...mage |
| @typeCode | cs | 1 ... 1 | F | SUBJ | |
| @inversionInd | bl | 0 ... 1 | F | true | |

6.3.6.9 X Specimen Identified - 1.3.6.1.4.1.19376.1.3.10.9.1

6.3.6.9.1 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.

6.3.6.9.2 Specification and Example

| | | | |
|---------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.10.9.1 | Effective Date | valid from 2014-12-22 15:54:30 |
| Status |  Draft | Version Label | |
| Name | SpecimenIdentified | Display Name | 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.

| | |
|-----------------------|---|
| Label | PaLM Suppl. APSR 2.0-3: 6.3.6.9 X Specimen identified |
| Classification | CDA Entry Level Template |

| Open/Closed | Closed (only defined elements are allowed) | | | |
|---|---|--|------------------------|--|
| Used by 0 transactions and 36 templates, Uses 0 templates | | | | |
| Used by | as | Name | Version | |
| 1.3.6.1.4.1.19376.1.3.10.4.1 | Include |  Specimen Procedure Step (2.0) | 2016-07-08 13:20:59 | |
| | |  Circular reference found with 1.3.6.1.4.1.19376.1.3.10.4.1, please check | | |
| 1.3.6.1.4.1.19376.1.3.10.4.1 |  |  Specimen Procedure Step (1.0) | 2014-07-29 16:02:02 | |
| | |  Circular reference found with 1.3.6.1.4.1.19376.1.3.10.4.1, please check | | |
| 1.3.6.1.4.1.19376.1.8.1.2.6 |  |  Procedure Steps Section (2.0) | 2014-05-13 19:33:12 | |
| 1.3.6.1.4.1.19376.1.8.1.1.1 |  |  Anatomic Pathology Structured Report Content Module (2.0) | 2014-05-13 11:57:57 | |
| 1.3.6.1.4.1.19376.1.3.10.4.2 | Include |  TNM Stage Observation (2.0) | 2014-05-13 15:45:13 | |
| 1.3.6.1.4.1.19376.1.3.10.4.3 | Include |  ICD-O-3 Typing and Grading Observation (2.0) | 2015-11-29 17:03:18 | |
| 1.3.6.1.4.1.19376.1.3.10.4.4 | Include |  Assessment Scales Observation for Scoring Systems APS-R2 (2.0) | 2016-10-06 13:12:00 | |
| 1.3.6.1.4.1.19376.1.3.10.9.22 | Include |  CDA Supply Container APSR2 (2.0) | 2016-07-29 12:09:33 | |
| 1.3.6.1.4.1.19376.1.3.10.9.25 | Include |  TNM T-Observation (2.0) | 2014-12-02 15:54:17 | |
| 1.3.6.1.4.1.19376.1.3.10.9.26 | Include |  TNM N-Observation (2.0) | 2014-12-02 16:34:50 | |
| 1.3.6.1.4.1.19376.1.3.10.9.27 | Include |  TNM M-Observation (2.0) | 2014-12-02 16:32:30 | |
| 1.3.6.1.4.1.19376.1.3.10.9.28 | Include |  TNM Grading (2.0) | 2015-11-15 13:01:18 | |
| 1.3.6.1.4.1.19376.1.3.10.9.29 | Include |  TNM R-status (2.0) | 2015-06-30 13:38:30 | |
| 1.3.6.1.4.1.19376.1.3.10.9.34 | Include |  TNM Lymphatic Invasion (2.0) | 2015-11-16 14:01:58 | |

| | | | |
|-------------------------------|---|--|------------------------|
| 1.3.6.1.4.1.19376.1.3.10.9.35 | Include |  TNM Venous Invasion (2.0) | 2015-11-16 13:40:28 |
| 1.3.6.1.4.1.19376.1.3.10.9.36 | Include |  TNM Perineural Invasion (2.0) | 2015-11-11 16:13:40 |
| 1.3.6.1.4.1.19376.1.3.10.9.37 | Include |  TNM Number of nodes (2.0) | 2014-12-02 16:48:36 |
| 1.3.6.1.4.1.19376.1.3.10.9.38 | Include |  ICD-O-3 Behavior (2.0) | 2015-12-03 09:11:54 |
| 1.3.6.1.4.1.19376.1.3.10.9.39 | Include |  ICD-O-3 Differentiation (2.0) | 2015-12-09 17:12:30 |
| 1.3.6.1.4.1.19376.1.3.10.9.40 | Include |  ICD-O-3 Morphology (1.0) | 2015-11-29 15:45:48 |
| 1.3.6.1.4.1.19376.1.3.10.9.41 | Include |  ICD-O-3 Topography (2.0) | 2015-11-16 18:38:07 |
| 1.3.6.1.4.1.19376.1.3.10.9.42 | Include |  Assessment Scoring System APSR 2.0 (2.0) | 2016-10-10 11:33:36 |
| 1.3.6.1.4.1.19376.1.3.10.9.43 | Include |  Assessment Scoring Item APSR 2.0 (2.0) | 2016-10-11 10:26:17 |
| 1.3.6.1.4.1.19376.1.8.1.3.6 | Include |  Problem Organizer (2.0) | 2015-08-13 10:24:55 |
| 1.3.6.1.4.1.19376.1.3.10.3.1 |  |  Additional Specified Observation Section (2.0) | 2016-11-13 14:28:08 |
| 1.3.6.1.4.1.19376.1.8.1.2.1 |  |  Clinical Information Section (2.0) | 2014-05-13 14:38:08 |
| 1.3.6.1.4.1.19376.1.8.1.2.2 |  |  Intraoperative Observation Section (2.0) | 2014-05-13 19:29:16 |
| 1.3.6.1.4.1.19376.1.8.1.2.3 |  |  Macroscopic Observation Section (2.0) | 2014-05-13 11:57:09 |
| 1.3.6.1.4.1.19376.1.8.1.2.4 |  |  Microscopic Observation Section (2.0) | 2014-05-13 14:25:17 |
| 1.3.6.1.4.1.19376.1.8.1.2.5 |  |  Diagnostic Conclusion Section (2.0) | 2014-05-13 19:31:26 |
| 1.3.6.1.4.1.19376.1.8.1.4.10 | Include |  Embedded Image IHE | 2016-06-22 16:08:01 |

| | | | |
|---|-------------|---|------------------------|
| 1.3.6.1.4.1.19376.1.8.1.4.9 | | AP Observation Entry (2.0) | 2014-05-14 17:09:54 |
| Circular reference found with 1.3.6.1.4.1.19376.1.8.1.4.9, please check | | | |
| 2.16.840.1.113883.2.6.60.6.10.46 | Containment | Elston-Ellis Tubule Formation | 2016-05-24 22:17:01 |
| 1.3.6.1.4.1.19376.1.3.10.4.4 | | Assessment Scales for Scoring Systems APSR2 (1.9) | 2016-10-06 12:36:29 |
| 2.16.840.1.113883.2.6.60.6.10.45 | | Elston-Ellis-Grading | 2016-05-24 21:55:39 |
| 2.16.840.1.113883.2.6.60.6.10.48 | Containment | Elston-Ellis Mitotic Count Score | 2016-05-25 11:18:02 |

Relationship

Specialization: template 2.16.840.1.113883.10.12.322 (2005-09-07)

Example

```

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...fied |
| └ @typeCode | cs | 0 ... 1 | F | SPC | |
| └ h17:specimenRole | | 1 ... 1 | M | | PaLM...fied |
| └ @classCode | cs | 0 ... 1 | F | SPEC | |
| └ h17:id | II | 1 ... 1 | R | Specimen ID, coming from the LIS | PaLM...fied |

6.3.6.10 UICC/AJCC TNM Staging and Grading - 1.3.6.1.4.1.19376.1.3.10.4.2

6.3.6.10.1 Definition and purpose

The UICC/AJCC TNM <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 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.

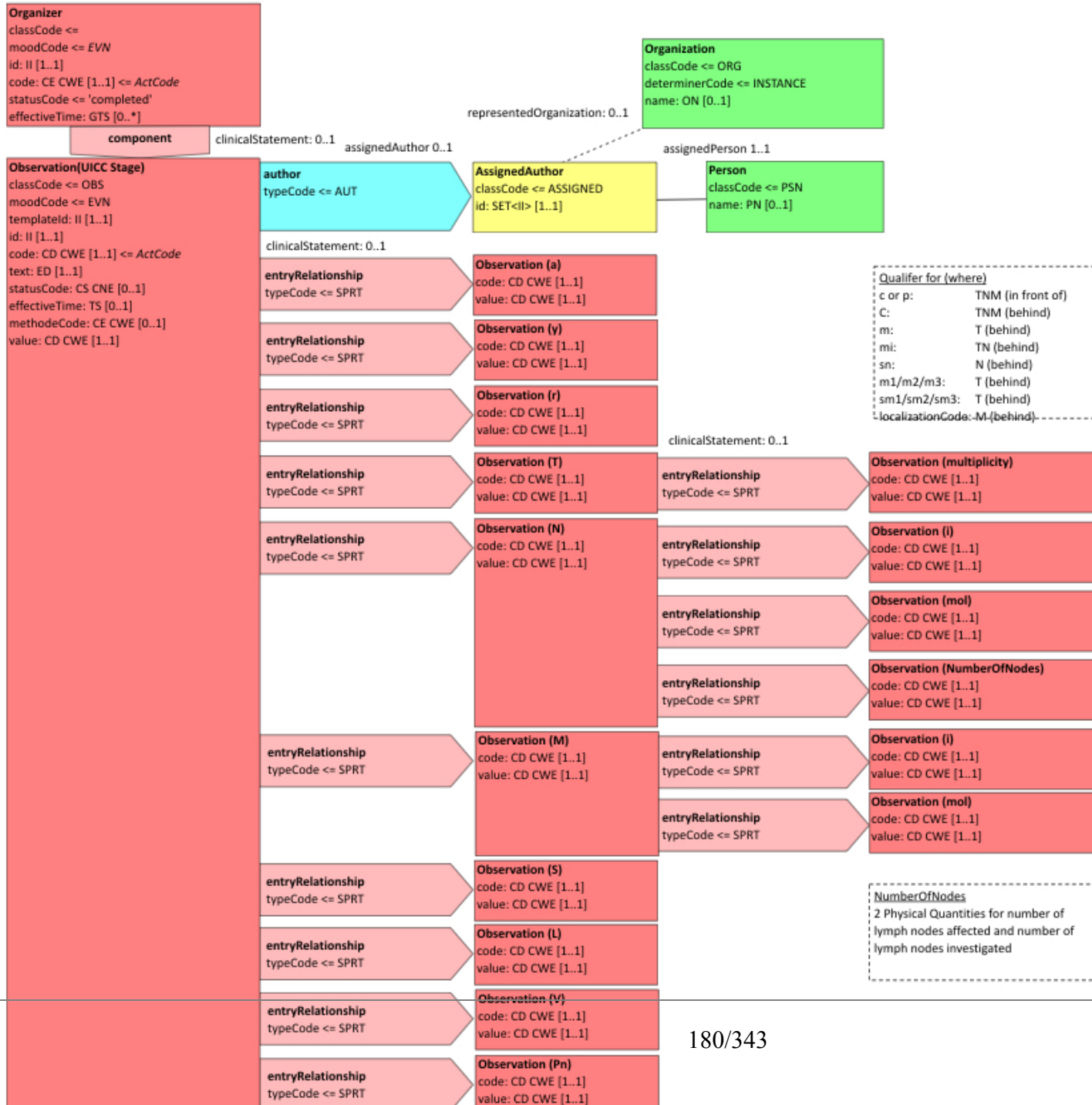













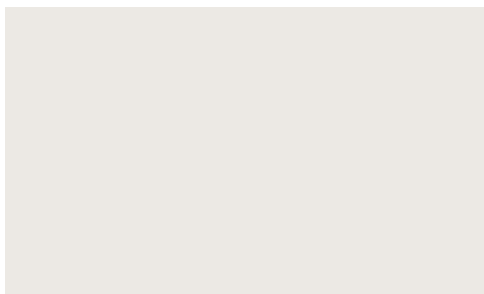


Figure 6.3.6.10.1-1 CDA-RMIM of the UICC/AJCC TNM <entry>

6.3.6.10.2 Specification and Example

| | | | |
|-------------------------------|---|---|--|
| Id | 1.3.6.1.4.1.19376.1.3.10.4.2 | Effective Date | valid from 2014-05-13 15:45:13 |
| Status |  Draft | Version Label | 2.0 |
| Name | TNMStageObservation | Display Name | TNM Stage Observation |
| Description | Template CDA Observation (prototype, directly derived from POCD_RM000040 MIF) TNM stage with supporting categories | | |
| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.4.2 | | |
| Label | PaLM Suppl. APSR 2.0-3: 6.3.6.10 TNM | | |
| Classification | CDA Entry Level Template | | |
| Open/Closed | Open (other than defined elements are allowed) | | |
| Used by / Uses | Used by 0 transactions and 1 template, Uses 17 templates | | |
| | Used by | as | Name |
| | 1.3.6.1.4.1.19376.1.3.10.4.1 | Containment |  Specimen Procedure Step (1.0) |
| | | | 2014-07-29 16:02:02 |
| | Uses | as | Name |
| | 1.3.6.1.4.1.19376.1.3.3.1.7 | Containment |  Laboratory Performer (2017) |
| | 1.3.6.1.4.1.19376.1.8.1.4.2 | Containment |  CDA author IHE |
| | 1.3.6.1.4.1.19376.1.8.1.4.6 | Containment |  CDA Informant(Header&Body) APSR2 (2.0) |
| | 1.3.6.1.4.1.19376.1.8.1.4.7 | Containment |  Additional participant in an entry APSR (Body) |
| | 1.3.6.1.4.1.19376.1.3.10.9.1 | Include |  X Specimen Identified |
| | 1.3.6.1.4.1.19376.1.3.10.9.32 | Containment |  TNM y (2.0) |
| | 1.3.6.1.4.1.19376.1.3.10.9.30 | Containment |  TNM a (2.0) |
| | 1.3.6.1.4.1.19376.1.3.10.9.31 | Containment |  TNM r (2.0) |
| 1.3.6.1.4.1.19376.1.3.10.9.25 | Containment |  TNM T-Observation (2.0) | |
| 1.3.6.1.4.1.19376.1.3.10.9.26 | Containment |  TNM N-Observation (2.0) | |
| 1.3.6.1.4.1.19376.1.3.10.9.27 | Containment |  TNM M-Observation (2.0) | |
| | | DYNAMIC | |

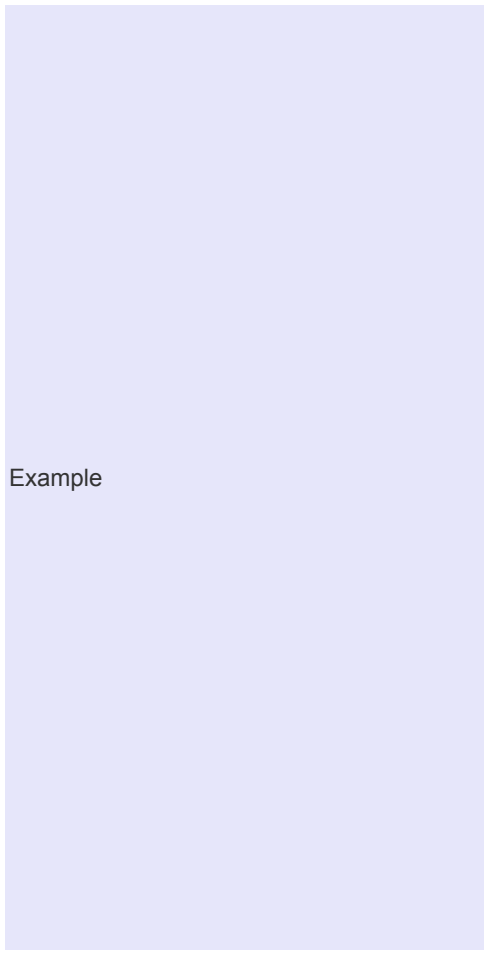
01
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| | | | | |
|-------------------------------|-------------|--|-------------------------------|---------|
| 1.3.6.1.4.1.19376.1.3.10.9.33 | Containment | | TNM Serum tumor markers (2.0) | DYNAMIC |
| 1.3.6.1.4.1.19376.1.3.10.9.34 | Containment | | TNM Lymphatic Invasion (2.0) | DYNAMIC |
| 1.3.6.1.4.1.19376.1.3.10.9.35 | Containment | | TNM Venous Invasion (2.0) | DYNAMIC |
| 1.3.6.1.4.1.19376.1.3.10.9.36 | Containment | | TNM Perineural Invasion (2.0) | DYNAMIC |
| 1.3.6.1.4.1.19376.1.3.10.9.28 | Containment | | TNM Grading (2.0) | DYNAMIC |
| 1.3.6.1.4.1.19376.1.3.10.9.29 | Containment | | TNM R-status (2.0) | DYNAMIC |

Relationship

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



```

Generated example
<observation classCode="OBS" moodCode="ENV" negationInd="false">
  <templateId root="1.3.6.1.4.1.19376.1.3.10.4.2"/>
  <id root="1.2.3.999" extension="--example only--"/>
  <code code="21902-2" codeSystem="2.16.840.1.113883.6.1"/>
  <text/>
  <statusCode code="completed"/>
  <effectiveTime>
    <low value="20170712152253"/>
  </effectiveTime>
  <value xsi:type="CD" code="IIA" displayName="stage IIA" codeSystem="2.16.840.1.113883.15.6"/>
  <performer>
    <!-- template 1.3.6.1.4.1.19376.1.3.3.1.7 'Laboratory Performer' (dynamic) -->
  </performer>
  <author>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author IHE' (dynamic) -->
  </author>
  <informant>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant(Header&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>
  <!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (dynamic) 1..* M -->
  <entryRelationship typeCode="SPRT">
    <!-- template 1.3.6.1.4.1.19376.1.3.10.9.32 'TNM y' (dynamic) -->
  </entryRelationship>
  <entryRelationship typeCode="SPRT">
    <!-- template 1.3.6.1.4.1.19376.1.3.10.9.30 'TNM a ' (dynamic) -->
  </entryRelationship>
  <entryRelationship typeCode="SPRT">
    <!-- template 1.3.6.1.4.1.19376.1.3.10.9.31 'TNM r' (dynamic) -->
  </entryRelationship>
  <entryRelationship typeCode="SPRT">
    <!-- template 1.3.6.1.4.1.19376.1.3.10.9.25 'TNM T-Observation' (dynamic) -->
  </entryRelationship>
  <entryRelationship typeCode="SPRT">
    <!-- template 1.3.6.1.4.1.19376.1.3.10.9.26 'TNM N-Observation' (dynamic) -->
  </entryRelationship>
  <entryRelationship typeCode="SPRT">

```

Example

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<!-- template 1.3.6.1.4.1.19376.1.3.10.9.27 'TNM M-Observation' (dynamic) -->
</entryRelationship>
<entryRelationship typeCode="SPRT">
  <!-- template 1.3.6.1.4.1.19376.1.3.10.9.33 'TNM Serum tumor markers' (dynamic) -->
</entryRelationship>
<entryRelationship typeCode="SPRT">
  <!-- template 1.3.6.1.4.1.19376.1.3.10.9.34 'TNM Lymphatic Invasion' (dynamic) -->
</entryRelationship>
<entryRelationship typeCode="SPRT">
  <!-- template 1.3.6.1.4.1.19376.1.3.10.9.35 'TNM Venous Invasion' (dynamic) -->
</entryRelationship>
<entryRelationship typeCode="SPRT">
  <!-- template 1.3.6.1.4.1.19376.1.3.10.9.36 'TNM Perineural Invasion' (dynamic) -->
</entryRelationship>
<entryRelationship typeCode="SPRT">
  <!-- template 1.3.6.1.4.1.19376.1.3.10.9.28 'TNM Grading' (dynamic) -->
</entryRelationship>
<entryRelationship typeCode="SPRT">
  <!-- template 1.3.6.1.4.1.19376.1.3.10.9.29 'TNM R-status' (dynamic) -->
</entryRelationship>
</observation>

```

| Item | DT | Card | Conf | Description | Label |
|------------------|--------|--------|------|--|----------------|
| hl7:observation | | 0 .. 1 | R | | PaLM... TNM |
| └ @classCode | CS | 1 .. 1 | F | OBS | |
| └ @moodCode | CS | 1 .. 1 | F | ENV | |
| └ @negationInd | bl | 0 .. 1 | | | |
| └ hl7:templateId | II | 1 .. 1 | M | | PaLM... TNM |
| └└ @root | uid | 1 .. 1 | F | 1.3.6.1.4.1.19376.1.3.10.4.2 | |
| └ hl7:id | II | 0 .. * | R | | PaLM... TNM |
| └ hl7:code | CE CWE | 1 .. 1 | M | | PaLM... TNM |
| | CONF | | | @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" | |
| h17:text | ED | 0 ... 1 R | | | PaLM... TNM |
| | Example | <text> PATHOLOGIC STAGE (AJCC 7th Edition): IIA </text> | | | |
| h17:statusCode | CS CNE | 1 ... 1 M | | | PaLM... TNM |
| | Constraint | 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. | | | |
| | CONF | The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933 <i>ActStatus</i> (DYNAMIC) or The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.2 (DYNAMIC) ❗ Error: Cannot find value set "1.3.6.1.4.1.19376.1.3.11.2" | | | |
| h17:effectiveTime | IVL_TS | 1 ... 1 M | | | PaLM... TNM |
| h17:value | CD CWE | 0 ... 1 R | | | PaLM... TNM |
| | CONF | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.46 <i>UICC Stage</i> (DYNAMIC) | | | |
| 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> (DYNAMIC) | PaLM... TNM |
| | Constraint | The performing laboratory is present at this level only if this particular observation was performed by a (sub-contractor) laboratory distinct from the one issuing the rest of the observations in this organizer. | | | |
| 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>CDA author IHE</i> (DYNAMIC) | PaLM... TNM |

| | | | | | |
|------------------|----|---------|---|---|---|
| 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>CDA Informant(Header&Body) APSR2 (DYNAMIC)</i> | PaLM... 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 APSR (Body) (DYNAMIC)</i> | PaLM... TNM |
| <i>Included</i> | | 1 ... * | M | from 1.3.6.1.4.1.19376.1.3.10.9.1 <i>X Specimen Identified (DYNAMIC)</i> | |
| 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 2.0-3: 6.3.6.9 X Specimen identified |
| @typeCode | CS | 0 ... 1 | F | SPC | |
| h17:specimenRole | | 1 ... 1 | M | | PaLM Suppl. APSR 2.0-3: 6.3.6.9 X Specimen identified |
| @classCode | CS | 0 ... 1 | F | SPEC | |
| h17:id | II | 1 ... 1 | R | Specimen ID, coming from the LIS | PaLM Suppl. APSR 2.0-3: 6.3.6.9 X Specimen identified |

| | | | | | |
|----|-------------------------|----|-----------|---|----------------|
| 02 | └ h17: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> (DYNAMIC) | PaLM... TNM |
| 04 | └ @typeCode | CS | 1 ... 1 F | SPRT | |
| 05 | └ h17: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> (DYNAMIC) | PaLM... TNM |
| 06 | └ @typeCode | CS | 1 ... 1 F | SPRT | |
| 07 | └ h17:entryRelationship | | 0 ... 1 R | staged after relapse Contains 1.3.6.1.4.1.19376.1.3.10.9.31 <i>TNM r</i> (DYNAMIC) | PaLM... TNM |
| 08 | └ @typeCode | CS | 1 ... 1 F | SPRT | |
| 10 | └ h17: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> (DYNAMIC) | PaLM... TNM |
| 11 | └ @typeCode | CS | 1 ... 1 F | SPRT | |
| 12 | └ h17: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> (DYNAMIC) | PaLM... TNM |
| 14 | └ @typeCode | CS | 1 ... 1 F | SPRT | |
| 15 | └ h17: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> (DYNAMIC) | PaLM... TNM |
| 17 | └ @typeCode | CS | 1 ... 1 F | SPRT | |
| 18 | └ h17: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> (DYNAMIC) | PaLM... TNM |
| 19 | └ @typeCode | CS | 1 ... 1 F | SPRT | |
| 20 | └ h17: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> (DYNAMIC) | PaLM... TNM |
| 21 | └ @typeCode | CS | 1 ... 1 F | SPRT | |

| | | | | | |
|-----------------------|----|---------|---|---|----------------|
| h17: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> (DYNAMIC) | PaLM... TNM |
| @typeCode | CS | 1 ... 1 | F | SPRT | |
| h17:entryRelationship | | 0 ... 1 | R | Descriptor for perineural invasion Contains 1.3.6.1.4.1.19376.1.3.10.9.36 <i>TNM Perineural Invasion</i> (DYNAMIC) | PaLM... TNM |
| @typeCode | CS | 1 ... 1 | F | SPRT | |
| h17:entryRelationship | | 1 ... 1 | R | TNM-Grading Contains 1.3.6.1.4.1.19376.1.3.10.9.28 <i>TNM Grading</i> (DYNAMIC) | PaLM... TNM |
| @typeCode | CS | 1 ... 1 | F | SPRT | |
| 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> (DYNAMIC) | PaLM... TNM |
| @typeCode | CS | 1 ... 1 | F | SPRT | |

Supportive Template TNM T-Observation - 1.3.6.1.4.1.19376.1.3.10.9.25

| | | | |
|---------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.10.9.25 | Effective Date | valid from 2014-12-02 15:54:17 |
| Status |  Draft | Version Label | 2.0 |
| Name | TNMTObservation | Display Name | 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 | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|--|-------------------------------|---------------------|---------|------------------------------|-------------|-----------------------------|---------------------|------------------------------|-------------|-------------------------------|---------------------|-----------------------------|-------------|--|---------|------------------------------|---------|-----------------------|---------|
| Classification | CDA Entry Level Template | | | | | | | | | | | | | | | | | | | | |
| Open/Closed | Open (other than defined elements are allowed) | | | | | | | | | | | | | | | | | | | | |
| | Used by 0 transactions and 2 templates, Uses 4 templates | | | | | | | | | | | | | | | | | | | | |
| Used by / Uses | <table border="1"> <thead> <tr> <th>Used by</th> <th>as</th> <th>Name</th> <th>Version</th> </tr> </thead> <tbody> <tr> <td>1.3.6.1.4.1.19376.1.3.10.4.2</td> <td>Containment</td> <td> TNM Stage Observation (2.0)</td> <td>2014-05-13 15:45:13</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.3.10.4.1</td> <td></td> <td> Specimen Procedure Step (1.0)</td> <td>2014-07-29 16:02:02</td> </tr> </tbody> </table> | Used by | as | Name | Version | 1.3.6.1.4.1.19376.1.3.10.4.2 | Containment | TNM Stage Observation (2.0) | 2014-05-13 15:45:13 | 1.3.6.1.4.1.19376.1.3.10.4.1 | | Specimen Procedure Step (1.0) | 2014-07-29 16:02:02 | | | | | | | | |
| | Used by | as | Name | Version | | | | | | | | | | | | | | | | | |
| | 1.3.6.1.4.1.19376.1.3.10.4.2 | Containment | TNM Stage Observation (2.0) | 2014-05-13 15:45:13 | | | | | | | | | | | | | | | | | |
| | 1.3.6.1.4.1.19376.1.3.10.4.1 | | Specimen Procedure Step (1.0) | 2014-07-29 16:02:02 | | | | | | | | | | | | | | | | | |
| | <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>DYNAMIC</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.8.1.4.2</td> <td>Containment</td> <td> CDA author IHE</td> <td>DYNAMIC</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.8.1.4.6</td> <td>Containment</td> <td> CDA Informant(Header&Body) APSR2 (2.0)</td> <td>DYNAMIC</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.3.10.9.1</td> <td>Include</td> <td> X Specimen Identified</td> <td>DYNAMIC</td> </tr> </tbody> </table> | Uses | as | Name | Version | 1.3.6.1.4.1.19376.1.3.3.1.7 | Containment | Laboratory Performer (2017) | DYNAMIC | 1.3.6.1.4.1.19376.1.8.1.4.2 | Containment | CDA author IHE | DYNAMIC | 1.3.6.1.4.1.19376.1.8.1.4.6 | Containment | CDA Informant(Header&Body) APSR2 (2.0) | DYNAMIC | 1.3.6.1.4.1.19376.1.3.10.9.1 | Include | X Specimen Identified | DYNAMIC |
| | Uses | as | Name | Version | | | | | | | | | | | | | | | | | |
| 1.3.6.1.4.1.19376.1.3.3.1.7 | Containment | Laboratory Performer (2017) | DYNAMIC | | | | | | | | | | | | | | | | | | |
| 1.3.6.1.4.1.19376.1.8.1.4.2 | Containment | CDA author IHE | DYNAMIC | | | | | | | | | | | | | | | | | | |
| 1.3.6.1.4.1.19376.1.8.1.4.6 | Containment | CDA Informant(Header&Body) APSR2 (2.0) | DYNAMIC | | | | | | | | | | | | | | | | | | |
| 1.3.6.1.4.1.19376.1.3.10.9.1 | Include | X Specimen Identified | DYNAMIC | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| 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><observation negationInd="false" classCode="OBS" moodCode="EVN"> <templateId root="1.3.6.1.4.1.19376.1.3.10.9.25"/> <id root="1.2.3.999" extension="--example only--"/> <code code="21899-0" codeSystem="2.16.840.1.113883.6.1"/> <text/> <statusCode code="completed"/> <effectiveTime> <low value="20170712152936"/> </effectiveTime> <value xsi:type="CD" code="261663004" displayName="Tumor stage Ta (tumor staging)" codeSystem="2.16.840.1.113883.6.96"> <qualifier> <name code="tnmCFactor" codeSystem="1.2.276.0.76.3.1.131.1.5.1"/> <value code="84068000" displayName="C1 - TNM certainty factor" codeSystem="2.16.840.1.113883.6.96"/> </qualifier> <qualifier> <name code="tnmCp" codeSystem="1.2.276.0.76.3.1.131.1.5.1"/> <value code="p" displayName="p" codeSystem="1.2.276.0.76.11.9"/> </qualifier> <qualifier> <name code="tnmMultiplicity" codeSystem="1.2.276.0.76.3.1.131.1.5.1"/> <value code="m" displayName="(m)" codeSystem="2.16.840.1.113883.15.6"/> </qualifier> <qualifier> <name code="tnmMucosaSymbol" codeSystem="1.2.276.0.76.3.1.131.1.5.1"/> </qualifier> </value> </observation></pre> | | | | | | | | | | | | | | | | | | | | |

```

<value code="m1" displayName="m1" codeSystem="2.16.840.1.113883.15.6"/>
</qualifier>
<qualifier>
  <name code="tnmSubmucosaSymbol" codeSystem="1.2.276.0.76.3.1.131.1.5.1"/>
  <value code="sm1" displayName="sm1" codeSystem="2.16.840.1.113883.15.6"/>
</qualifier>
</value>
<performer>
  <!-- template 1.3.6.1.4.1.19376.1.3.3.1.7 'Laboratory Performer' (dynamic) -->
</performer>
<author>
  <!-- template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author IHE' (dynamic) -->
</author>
<informant>
  <!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant(Header&Body) APSR2' (dynamic) -->
</informant>
<!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (dynamic) 1..* M -->
</observation>

```

| Item | DT | Card | Conf | Description | Label |
|------------------|--------|--------|------|--|-------------|
| h17:observation | | 0 .. 1 | R | | (TNM...ion) |
| └ @classCode | CS | 1 .. 1 | F | OBS | |
| └ @moodCode | CS | 1 .. 1 | F | EVN | |
| └ @negationInd | bl | 0 .. 1 | | | |
| └ h17:templateId | II | 1 .. 1 | M | | (TNM...ion) |
| └└ @root | uid | 1 .. 1 | F | 1.3.6.1.4.1.19376.1.3.10.9.25 | |
| └ h17:id | II | 0 .. * | R | | (TNM...ion) |
| └ h17:code | CE CWE | 1 .. 1 | M | the observation can be indicated either by a LOINC or Snomed code. | (TNM...ion) |
| | 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)" | |
| └ h17:text | ED | 0 ... 1 | R | | (TNM...ion) |
| └ h17:statusCode | CS CNE | 1 ... 1 | M | | (TNM...ion) |
| | CONF | | | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.2 (DYNAMIC) ❗ Error: Cannot find value set "1.3.6.1.4.1.19376.1.3.11.2" | |
| └ h17:effectiveTime | IVL_TS | 1 ... 1 | M | | (TNM...ion) |
| └ h17:value | CD CWE | 1 ... 1 | R | | (TNM...ion) |
| | CONF | | | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.12 <i>UICC T category (SCT)</i> (DYNAMIC) or The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.43 <i>UICC T category (DYNAMIC)</i> | |
| └ h17:qualifier | CR CWE | 0 ... 1 | R | C-Factor (Certainty) | (TNM...ion) |
| └ h17:name | CV CNE | 1 ... 1 | M | | (TNM...ion) |
| └ @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 CWE | 0 ... 1 | R | | (TNM...ion) |
| | Constraint | in APSR only C4 allowed | | | |
| | 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> (DYNAMIC) | |
| └ h17:qualifier | CR CWE | 0 ... 1 | R | how is the T-value determined: - clinically ("c") -- ultrasound -- CT -- MR - pathologically, postoperatively ("p") | (TNM...ion) |

| | | | | | |
|---------------|------------|--|---|---|-------------|
| h17:name | CV CNE | 1 ... 1 | M | clinical or pathological | (TNM...ion) |
| @codeSystem | oid | 1 ... 1 | F | 1.2.276.0.76.3.1.131.1.5.1 | |
| @code | cs | 1 ... 1 | F | tnmCp | |
| h17:value | CD CWE | 0 ... 1 | R | | (TNM...ion) |
| | Constraint | in APSR only "p" allowed | | | |
| | CONF | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.22 <i>UICC clinical/pathological</i> (DYNAMIC) | | | |
| h17:qualifier | CR CWE | 0 ... 1 | R | tnmMultiple : multiple, simultaneous tumors in one organ; here: a boolean indicator that there are multiple tumors ("m") without any numbers | (TNM...ion) |
| h17:name | CV CNE | 1 ... 1 | M | code for multiple tumors in one organ | (TNM...ion) |
| @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 CWE | 0 ... 1 | R | | (TNM...ion) |
| | CONF | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.37 <i>UICC Multiplicity</i> (DYNAMIC) | | | |
| h17:qualifier | CR CWE | 0 ... 1 | R | limited to mucosa | (TNM...ion) |
| h17:name | CV CNE | 1 ... 1 | M | | (TNM...ion) |
| @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 CWE | 0 ... 1 | R | | (TNM...ion) |
| | CONF | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.26 <i>UICC Mucosa</i> (DYNAMIC) | | | |
| h17:qualifier | CR CWE | 0 ... 1 | R | limited to mucosa and submucosa | (TNM...ion) |

| | | | | | |
|------------------|--------|--|---|---|---|
| h17:name | CV CNE | 1 ... 1 | M | | (TNM...ion) |
| @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 CWE | 0 ... 1 | R | | (TNM...ion) |
| | CONF | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.27 <i>UICC Submucosa</i> (DYNAMIC) | | | |
| 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> (DYNAMIC) | (TNM...ion) |
| 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>CDA author IHE</i> (DYNAMIC) | (TNM...ion) |
| 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>CDA Informant(Header&Body) APSR2</i> (DYNAMIC) | (TNM...ion) |
| Included | | 1 ... * | M | from 1.3.6.1.4.1.19376.1.3.10.9.1 X <i>Specimen Identified</i> (DYNAMIC) | |
| 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 2.0-3: 6.3.6.9 X Specimen identified |
| @typeCode | cs | 0 ... 1 | F | SPC | |
| h17:specimenRole | | 1 ... 1 | M | | PaLM Suppl. APSR 2.0-3: |

| | | | | | |
|--------------|----|---------|---|----------------------------------|--|
| | | | | | 6.3.6.9 X Specimen identified |
| L @classCode | cs | 0 ... 1 | F | SPEC | |
| L h17:id | II | 1 ... 1 | R | Specimen ID, coming from the LIS | PaLM Sup- pl. APSR 2.0-3: 6.3.6.9 X Specimen identified |

Supportive Template TNM N-Observation - 1.3.6.1.4.1.19376.1.3.10.9.26

| | | | |
|-----------------------------|---|--|--|
| Id | 1.3.6.1.4.1.19376.1.3.10.9.26 | Effective Date | valid from 2014-12-02 16:34:50 |
| Status | Draft | Version Label | 2.0 |
| Name | TNMNObservation | Display Name | TNM N-Observation |
| Description | Template CDA Observation (prototype, directly derived from POCD_RM000040 MIF) | | |
| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.26 | | |
| Classification | CDA Entry Level Template | | |
| Open/Closed | Open (other than defined elements are allowed) | | |
| Used by / Uses | Used by 0 transactions and 2 templates, Uses 5 templates | | |
| | Used by | as | Name |
| | 1.3.6.1.4.1.19376.1.3.10.4.2 | Containment | TNM Stage Observation (2.0) |
| | 1.3.6.1.4.1.19376.1.3.10.4.1 | | Specimen Procedure Step (1.0) |
| | Uses | as | Name |
| | 1.3.6.1.4.1.19376.1.8.1.4.2 | Containment | CDA author IHE |
| | 1.3.6.1.4.1.19376.1.8.1.4.6 | Containment | CDA Informant(Header&Body) APSR2 (2.0) |
| 1.3.6.1.4.1.19376.1.8.1.4.7 | Containment | Additional participant in an entry APSR (Body) | |

- 1.3.6.1.4.1.19376.1.3.10.9.1 Include ● X Specimen Identified DYNAMIC
- 1.3.6.1.4.1.19376.1.3.10.9.37 Containment ● TNM Number of nodes (2.0) DYNAMIC

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 classCode="OBS" moodCode="EVN" negationInd="false">
  <templateId root="1.3.6.1.4.1.19376.1.3.10.9.26"/>
  <id root="1.2.3.999" extension="--example only--"/>
  <code code="21900-6" codeSystem="2.16.840.1.113883.6.1" displayName="Regional lymph nodes.pathology [Class] Cancer"/>
  <statusCode code="completed"/>
  <value xsi:type="CD" code="62455006" displayName="N0 category (finding)" codeSystem="2.16.840.1.113883.6.96">
    <qualifier>
      <name code="tnmCFactor" codeSystem="1.2.276.0.76.3.1.131.1.5.1"/>
      <value code="C1" displayName="C1" codeSystem="2.16.840.1.113883.15.6"/>
    </qualifier>
    <qualifier>
      <name code="tnmCp" codeSystem="1.2.276.0.76.3.1.131.1.5.1"/>
      <value code="p" displayName="p" codeSystem="1.2.276.0.76.11.9"/>
    </qualifier>
    <qualifier>
      <name code="tnmI" codeSystem="1.2.276.0.76.3.1.131.1.5.1"/>
      <value code="i+" displayName="(i+)" codeSystem="2.16.840.1.113883.15.6"/>
    </qualifier>
    <qualifier>
      <name code="tnmMol" codeSystem="1.2.276.0.76.3.1.131.1.5.1"/>
      <value code="mol+" displayName="(mol+)" codeSystem="2.16.840.1.113883.15.6"/>
    </qualifier>
    <qualifier>
      <name code="396991001" codeSystem="2.16.840.1.113883.6.96" displayName="Biopsy site (observable entity)"/>
      <value code="373193000" codeSystem="2.16.840.1.113883.6.96" displayName="Lymph node from sentinel lymph node dissection (specimen)"/>
    </qualifier>
  </value>
  <!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (dynamic) 1..* R -->
  <entryRelationship typeCode="SPRT">
    <!-- template 1.3.6.1.4.1.19376.1.3.10.9.37 'TNM Number of nodes' (dynamic) -->
  </entryRelationship>
</observation>
```

| Item | DT | Card | Conf | Description | Label |
|-----------------|----|--------|------|-------------|-------------|
| h17:observation | | 0 .. 1 | R | | (TNM...ion) |
| └ @classCode | CS | 1 .. 1 | F | OBS | |
| └ @moodCode | CS | 1 .. 1 | F | EVN | |


| | | | | |
|------------------|------------|-----------|---|-------------|
| └ @negationInd | bl | 0 ... 1 | | |
| └ h17:templateId | II | 1 ... 1 M | | (TNM...ion) |
| └ @root | uid | 1 ... 1 F | 1.3.6.1.4.1.19376.1.3.10.9.26 | |
| └ h17:id | II | 0 ... * R | | (TNM...ion) |
| └ h17:code | CE CNE | 1 ... 1 M | | (TNM...ion) |
| | CONF | | <p>@code shall be "21900-6"</p> <p>@codeSystem shall be "2.16.840.1.113883.6.1"</p> <p>@codeSystemName shall be "LOINC"</p> <p>@displayName shall be "Regional lymph nodes.pathology [Class] Cancer"</p> <p>or</p> <p>@code shall be "277206009"</p> <p>@codeSystem shall be "2.16.840.1.113883.6.96"</p> <p>@codeSystemName shall be "SCT"</p> <p>@displayName shall be "N category (observable entity)"</p> | |
| └ h17:text | ED | 0 ... 1 R | | (TNM...ion) |
| └ h17:statusCode | CS CNE | 1 ... 1 M | | (TNM...ion) |
| | Constraint | | 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. | |
| | CONF | | <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>or</p> <p>The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.2 (DYNAMIC)</p> <p>❗ Error: Cannot find value set "1.3.6.1.4.1.19376.1.3.11.2"</p> | |
| └ h17:value | CD | 1 ... 1 R | | (TNM...ion) |
| | CONF | | 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> (DYNAMIC) | |










| | | | | | |
|---------------|--------|---------|----|--|-------------|
| | | | or | | |
| | | | | 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> (DYNAMIC) | |
| h17:qualifier | CR CNE | 0 ... 1 | R | C-Factor (Certainty) | (TNM...ion) |
| h17:name | CV CNE | 1 ... 1 | R | | (TNM...ion) |
| @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 CWE | 0 ... 1 | R | | (TNM...ion) |
| | CONF | | | 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> (DYNAMIC) | |
| h17:qualifier | CR CWE | 1 ... 1 | R | c/p/... | (TNM...ion) |
| h17:name | CV CNE | 1 ... 1 | R | | (TNM...ion) |
| @codeSystem | oid | 1 ... 1 | F | 1.2.276.0.76.3.1.131.1.5.1 | |
| @code | cs | 1 ... 1 | F | tnmCp | |
| h17:value | CD CWE | 1 ... 1 | R | | (TNM...ion) |
| | CONF | | | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.22 <i>UICC clinical/pathological</i> (DYNAMIC) | |
| h17:qualifier | CR CWE | 0 ... 1 | R | i (Suffix): ITC examined by Immunohistochemistry | (TNM...ion) |
| h17:name | CV CNE | 1 ... 1 | R | | (TNM...ion) |
| @codeSystem | oid | 1 ... 1 | F | 1.2.276.0.76.3.1.131.1.5.1 | |
| @code | cs | 1 ... 1 | F | tnml | |
| h17:value | CD CNE | 1 ... 1 | R | | (TNM...ion) |

| | | | | | |
|-------------------|--------|---------|---|--|-------------|
| | | 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> (DYNAMIC) | | |
| └ h17:qualifier | CR CWE | 0 ... 1 | R | mol (Suffix): ITC examined by Molecular pathology | (TNM...ion) |
| └ h17:name | CV CNE | 1 ... 1 | R | | (TNM...ion) |
| └ @code | cs | 1 ... 1 | F | tnmMol | |
| └ @codeSystem | oid | 1 ... 1 | F | 1.2.276.0.76.3.1.131.1.5.1 | |
| └ h17:value | CD CNE | 1 ... 1 | R | | (TNM...ion) |
| | | 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> (DYNAMIC) | | |
| └ h17:qualifier | CR CWE | 0 ... 1 | C | Qualifier for Sentinel node: sn (Suffix) | (TNM...ion) |
| └ h17:name | CV CNE | 1 ... 1 | R | | (TNM...ion) |
| └ @code | cs | 1 ... 1 | F | tnmSn | |
| └ @codeSystem | oid | 1 ... 1 | F | 1.2.276.0.76.3.1.131.1.5.1 | |
| └ h17:value | CV CWE | 1 ... 1 | R | | (TNM...ion) |
| | | CONF | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.42 <i>UICC Sentinel Node</i> (DYNAMIC) | | |
| └ 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>CDA author IHE</i> (DYNAMIC) | (TNM...ion) |
| └ h17:informant | II | 0 ... * | R | Contains 1.3.6.1.4.1.19376.1.8.1.4.6 <i>CDA Informant(Header&Body) APSR2</i> (DYNAMIC) | (TNM...ion) |
| └ h17:participant | II | 0 ... * | R | Additional participants Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.6 | (TNM...ion) |

| | | | | | | |
|-------------------------|----|--|----------------|--|--|---|
| | | | | Contains 1.3.6.1.4.1.19376.1.8.1.4.7 <i>Additional participant in an entry APSR (Body)</i> (DYNAMIC) | | |
| <i>Included</i> | | | 1 ... * | R | from 1.3.6.1.4.1.19376.1.3.10.9.1 X <i>Specimen Identified</i> (DYNAMIC) | |
| └ 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 2.0-3: 6.3.6.9 X Specimen identified |
| └ @typeCode | cs | | 0 ... 1 | F | SPC | |
| └ h17:specimenRole | | | 1 ... 1 | M | | PaLM Suppl. APSR 2.0-3: 6.3.6.9 X Specimen identified |
| └ @classCode | cs | | 0 ... 1 | F | SPEC | |
| └ h17:id | II | | 1 ... 1 | R | Specimen ID, coming from the LIS | PaLM Suppl. APSR 2.0-3: 6.3.6.9 X Specimen identified |
| └ h17:entryRelationship | | | 0 ... 2 | R | Contains 1.3.6.1.4.1.19376.1.3.10.9.37 <i>TNM Number of nodes</i> (DYNAMIC) | (TNM...ion) |
| └ @typeCode | cs | | 1 ... 1 | F | SPRT | |

Supportive Template TNM Number of Nodes - 1.3.6.1.4.1.19376.1.3.10.9.37

| | | | |
|--------------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.10.9.37 | Effective Date | valid from 2014-12-02 16:48:36 |
| Status |  Draft | Version Label | 2.0 |
| Name | TNMNumberOfNodes | Display Name | TNM Number of nodes |
| Description | Template CDA Observation (prototype, directly derived from POCD_RM000040 MIF) | | |


| | | | | | |
|------------------------------|---|--|---|------------------------|--------------|
| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.37 | | | | |
| Classification | CDA Entry Level Template | | | | |
| Open/Closed | Open (other than defined elements are allowed) | | | | |
| Used by / Uses | Used by 0 transactions and 3 templates, Uses 4 templates | | | | |
| | Used by | as | Name | Version | |
| | 1.3.6.1.4.1.19376.1.3.10.9.26 | Containment |  TNM N-Observation (2.0) | 2014-12-02 16:34:50 | |
| | 1.3.6.1.4.1.19376.1.3.10.4.2 |  |  TNM Stage Observation (2.0) | 2014-05-13 15:45:13 | |
| | 1.3.6.1.4.1.19376.1.3.10.4.1 |  |  Specimen Procedure Step (1.0) | 2014-07-29 16:02:02 | |
| | Uses | as | Name | Version | |
| | 1.3.6.1.4.1.19376.1.8.1.4.2 | Containment |  CDA author IHE | DYNAMIC | |
| 1.3.6.1.4.1.19376.1.8.1.4.6 | Containment |  CDA Informant(Header&Body) APSR2 (2.0) | DYNAMIC | | |
| 1.3.6.1.4.1.19376.1.8.1.4.7 | Containment |  Additional participant in an entry APSR (Body) | DYNAMIC | | |
| 1.3.6.1.4.1.19376.1.3.10.9.1 | Include |  X Specimen Identified | DYNAMIC | | |
| 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> <observation classCode="OBS" moodCode="EVN" negationInd="false"> <templateId root="1.3.6.1.4.1.19376.1.3.10.9.37"/> <id root="1.2.3.999" extension="--example only--"/> <code code="118553007" codeSystem="2.16.840.1.113883.6.96" displayName="Number ratio (attribute)"> <qualifier> <name code="396991001" codeSystem="2.16.840.1.113883.6.96" displayName="Biopsy site (observable entity)"/> <value code="373193000" codeSystem="2.16.840.1.113883.6.96" displayName="Lymph node from sentinel lymph node dissection (specimen)"/> </qualifier> </code> <statusCode code="normal"/> <value xsi:type="RTO_PQ_PQ"> <numerator value="3" unit="1"/> <denominator value="10" unit="1"/> </value> <!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (dynamic) 1..* R --> </observation> </pre> | | | | |
| Item | DT | Card | Conf | Description | Label |

| | | | | | |
|--------------------|--------|---------|---|---|-------------|
| h17:observation | | 0 ... * | R | | (TNM...des) |
| └ @classCode | cs | 1 ... 1 | F | OBS | |
| └ @moodCode | cs | 1 ... 1 | F | EVN | |
| └ @negationInd | bl | 0 ... 1 | | | |
| └ h17:templateId | II | 1 ... 1 | M | | (TNM...des) |
| └└ @root | uid | 1 ... 1 | F | 1.3.6.1.4.1.19376.1.3.10.9.37 | |
| └ h17:id | II | 0 ... * | R | | (TNM...des) |
| └ h17:code | CE CWE | 1 ... 1 | M | Structured number ratio for number of lymph nodes affected by tumor to number of lymph nodes examined | (TNM...des) |
| └└ @code | CONF | 1 ... 1 | F | 118553007 | |
| └└ @codeSystem | | 1 ... 1 | F | 2.16.840.1.113883.6.96 (SNOMED Clinical Terms) | |
| └└ @codeSystemName | | 1 ... 1 | F | SCT | |
| └└ @displayName | | 1 ... 1 | F | Number ratio (attribute) | |
| └ h17:qualifier | CR CNE | 0 ... 1 | C | Qualifier for Sentinel Node | (TNM...des) |
| └└ h17:name | CV CWE | 1 ... 1 | R | | (TNM...des) |
| └└└ @code | cs | 0 ... 1 | F | 396991001 | |
| └└└ @codeSystem | oid | 0 ... 1 | F | 2.16.840.1.113883.6.96 | |
| └└└ @displayName | st | 0 ... 1 | F | Biopsy site (observable entity) | |
| └ h17:value | CD CWE | 1 ... 1 | R | | (TNM...des) |
| └└ @code | CONF | 1 ... 1 | F | 373193000 | |

| | | | | | |
|-------------------|-----------------|--|-----------|--|-------------|
| | @codeSystem | | 1 ... 1 F | 2.16.840.1.113883.6.96 (SNOMED Clinical Terms) | |
| | @codeSystemName | | 1 ... 1 F | SCT | |
| | @displayName | | 1 ... 1 F | Lymph node from sentinel lymph node dissection (specimen) | |
| h17:text | ED | | 0 ... 1 R | | (TNM...des) |
| h17:statusCode | CS CNE | | 1 ... 1 M | | (TNM...des) |
| | Constraint | 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. | | | |
| | CONF | The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933 ActStatus (DYNAMIC) | | | |
| h17:effectiveTime | IVL_TS | | 1 ... 1 M | | (TNM...des) |
| h17:value | RTO_PQ_PQ | | 1 ... 1 R | | (TNM...des) |
| h17:numerator | PQ | | 0 ... 1 R | number of nodes affected | (TNM...des) |
| | CONF | @unit is "1" | | | |
| h17:denominator | PQ | | 0 ... 1 R | number of nodes examined | (TNM...des) |
| | 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 CDA author IHE (DYNAMIC) | (TNM...des) |
| 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 CDA Informant(Header&Body) APSR2 (DYNAMIC) | (TNM...des) |
| h17:participant | II | | 0 ... * R | Additional participants | (TNM...des) |

| | | | | | |
|----------------------------|----|----------------|----------|--|---|
| | | | | 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 APSR (Body)</i> (DYNAMIC) | |
| Included | | 1 ... * | R | from 1.3.6.1.4.1.19376.1.3.10.9.1 <i>X Specimen Identified</i> (DYNAMIC) | |
| └─ 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 2.0-3: 6.3.6.9 X Specimen identified |
| └─ @typeCode | cs | 0 ... 1 | F | SPC | |
| └─ h17:specimenRole | | 1 ... 1 | M | | PaLM Suppl. APSR 2.0-3: 6.3.6.9 X Specimen identified |
| └─ @classCode | cs | 0 ... 1 | F | SPEC | |
| └─ h17:id | II | 1 ... 1 | R | Specimen ID, coming from the LIS | PaLM Suppl. APSR 2.0-3: 6.3.6.9 X Specimen identified |

Supportive Template TNM M-Observation - 1.3.6.1.4.1.19376.1.3.10.9.27

| | | | |
|-----------------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.10.9.27 | Effective Date | valid from 2014-12-02 16:32:30 |
| Status |  Draft | Version Label | 2.0 |
| Name | TNMMObservation | Display Name | TNM M-Observation |
| Description | Template CDA Observation (prototype, directly derived from POCD_RM000040 MIF) | | |
| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.27 | | |
| Classification | CDA Entry Level Template | | |

| Open/Closed | Open (other than defined elements are allowed) | | | | | | | | | | | | | | | | | | | |
|---|---|--|---------------------|---------|-----------------------------|------------------------------|----------------|-----------------------------|-----------------------------|------------------------------|--|-------------------------------|-----------------------------|-------------|--|---------|------------------------------|---------|-----------------------|---------|
| Used by / Uses | Used by 0 transactions and 2 templates, Uses 4 templates | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Used by</th> <th>as</th> <th>Name</th> <th>Version</th> </tr> </thead> <tbody> <tr> <td>1.3.6.1.4.1.19376.1.3.10.4.2</td> <td>Containment</td> <td> TNM Stage Observation (2.0)</td> <td>2014-05-13 15:45:13</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.3.10.4.1</td> <td></td> <td> Specimen Procedure Step (1.0)</td> <td>2014-07-29 16:02:02</td> </tr> </tbody> </table> | Used by | as | Name | Version | 1.3.6.1.4.1.19376.1.3.10.4.2 | Containment | TNM Stage Observation (2.0) | 2014-05-13 15:45:13 | 1.3.6.1.4.1.19376.1.3.10.4.1 | | Specimen Procedure Step (1.0) | 2014-07-29 16:02:02 | | | | | | | |
| | Used by | as | Name | Version | | | | | | | | | | | | | | | | |
| 1.3.6.1.4.1.19376.1.3.10.4.2 | Containment | TNM Stage Observation (2.0) | 2014-05-13 15:45:13 | | | | | | | | | | | | | | | | | |
| 1.3.6.1.4.1.19376.1.3.10.4.1 | | Specimen Procedure Step (1.0) | 2014-07-29 16:02:02 | | | | | | | | | | | | | | | | | |
| <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> CDA author IHE</td> <td>DYNAMIC</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.8.1.4.6</td> <td>Containment</td> <td> CDA Informant(Header&Body) APSR2 (2.0)</td> <td>DYNAMIC</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 APSR (Body)</td> <td>DYNAMIC</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.3.10.9.1</td> <td>Include</td> <td> X Specimen Identified</td> <td>DYNAMIC</td> </tr> </tbody> </table> | Uses | as | Name | Version | 1.3.6.1.4.1.19376.1.8.1.4.2 | Containment | CDA author IHE | DYNAMIC | 1.3.6.1.4.1.19376.1.8.1.4.6 | Containment | CDA Informant(Header&Body) APSR2 (2.0) | DYNAMIC | 1.3.6.1.4.1.19376.1.8.1.4.7 | Containment | Additional participant in an entry APSR (Body) | DYNAMIC | 1.3.6.1.4.1.19376.1.3.10.9.1 | Include | X Specimen Identified | DYNAMIC |
| Uses | as | Name | Version | | | | | | | | | | | | | | | | | |
| 1.3.6.1.4.1.19376.1.8.1.4.2 | Containment | CDA author IHE | DYNAMIC | | | | | | | | | | | | | | | | | |
| 1.3.6.1.4.1.19376.1.8.1.4.6 | Containment | CDA Informant(Header&Body) APSR2 (2.0) | DYNAMIC | | | | | | | | | | | | | | | | | |
| 1.3.6.1.4.1.19376.1.8.1.4.7 | Containment | Additional participant in an entry APSR (Body) | DYNAMIC | | | | | | | | | | | | | | | | | |
| 1.3.6.1.4.1.19376.1.3.10.9.1 | Include | X Specimen Identified | DYNAMIC | | | | | | | | | | | | | | | | | |
| 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> <observation negationInd="false" classCode="OBS" moodCode="EVN"> <templateId root="1.3.6.1.4.1.19376.1.3.10.9.27"/> <id root="1.2.3.999" extension="--example only--"/> <code code="21901-4" codeSystem="2.16.840.1.113883.6.1"/> <text/> <statusCode code="completed"/> <effectiveTime> <low value="20170710111720"/> </effectiveTime> <value xsi:type="CD" code="30893008" displayName="M0 stage (tumor staging)" codeSystem="2.16.840.1.113883.6.96"> <qualifier> <name code="tnmCFactor" codeSystem="1.2.276.0.76.3.1.131.1.5.1"/> <value code="84068000" displayName="C1 - TNM certainty factor" codeSystem="2.16.840.1.113883.6.96"/> </qualifier> <qualifier> <name code="tnmCp" codeSystem="1.2.276.0.76.3.1.131.1.5.1"/> <value code="p" displayName="p" codeSystem="1.2.276.0.76.11.9"/> </qualifier> <qualifier> <name code="tnmI" codeSystem="1.2.276.0.76.3.1.131.1.5.1"/> <value code="i+" displayName="(i+)" codeSystem="2.16.840.1.113883.15.6"/> </qualifier> <qualifier> <name code="tnmMol" codeSystem="1.2.276.0.76.3.1.131.1.5.1"/> <value code="mol+" displayName="(mol+)" codeSystem="2.16.840.1.113883.15.6"/> </qualifier> <qualifier> <name code="tnmLoc" codeSystem="1.2.276.0.76.3.1.131.1.5.1"/> <value code="PUL" displayName="PUL" codeSystem="2.16.840.1.113883.15.6"/> </qualifier> </value> </observation> </pre> | | | | | | | | | | | | | | | | | | | |

```

<author>
  <!-- template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author IHE' (dynamic) -->
</author>
<informant>
  <!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant(Header&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>
<!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (dynamic) 0..* C -->
</observation>
  
```

| Item | DT | Card | Conf | Description | Label |
|------------------|--------|---------|------|---|-------------|
| h17:observation | | 0 ... 1 | R | | (TNM...ion) |
| └ @classCode | CS | 1 ... 1 | F | OBS | |
| └ @moodCode | CS | 1 ... 1 | F | EVN | |
| └ @negationInd | bl | 0 ... 1 | | | |
| └ h17:templateId | II | 1 ... 1 | M | | (TNM...ion) |
| └└ @root | uid | 1 ... 1 | F | 1.3.6.1.4.1.19376.1.3.10.9.27 | |
| └ h17:id | II | 0 ... * | R | | (TNM...ion) |
| └ h17:code | CE CWE | 1 ... 1 | M | | (TNM...ion) |
| | CONF | | | @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" | |
| └ h17:text | ED | 0 ... 1 | R | | (TNM...ion) |
| └ h17:statusCode | CS CNE | 1 ... 1 | R | | (TNM...ion) |

| | | | | |
|---------------------|--------|--|---|----------------------------------|
| | CONF | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.2 (DYNAMIC) | | |
| | | Error: Cannot find value set "1.3.6.1.4.1.19376.1.3.11.2" | | |
| └ h17:effectiveTime | IVL_TS | 1 ... 1 | M | (TNM...ion) |
| └ h17:value | CD CWE | 1 ... 1 | R | (TNM...ion) |
| | CONF | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.14 <i>UICC M category (SCT)</i> (DYNAMIC) or The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.45 <i>UICC M category (DYNAMIC)</i> | | |
| └ h17:qualifier | CR CNE | 0 ... 1 | R | C factor (certainty) (TNM...ion) |
| └ h17:name | CV CNE | 1 ... 1 | R | (TNM...ion) |
| └ @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 CNE | 0 ... 1 | R | (TNM...ion) |
| | 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> (DYNAMIC) | | |
| └ h17:qualifier | CR CNE | 0 ... 1 | R | c/p ... (TNM...ion) |
| └ h17:name | CV CNE | 1 ... 1 | R | (TNM...ion) |
| └ @codeSystem | oid | 1 ... 1 | F | 1.2.276.0.76.3.1.131.1.5.1 |
| └ @code | cs | 1 ... 1 | F | tnmCp |
| └ h17:value | CD CWE | 0 ... 1 | R | (TNM...ion) |
| | CONF | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.22 <i>UICC clinical/pathological (DYNAMIC)</i> | | |

| | | | | | |
|---------------|--------|---|---|--|-------------|
| h17:qualifier | CR CNE | 0 ... 1 | R | i (suffix): ITC (isolated tumor cells) detected by immunohistochemistry (qualifier) true: i+ false: i- | (TNM...ion) |
| h17:name | CV CNE | 1 ... 1 | R | | (TNM...ion) |
| @codeSystem | oid | 1 ... 1 | F | 1.2.276.0.76.3.1.131.1.5.1 | |
| @code | cs | 1 ... 1 | F | tnml | |
| h17:value | CD CWE | 0 ... 1 | R | | (TNM...ion) |
| | 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> (DYNAMIC) | | | |
| h17:qualifier | CR CNE | 0 ... 1 | R | mol (suffix): ITC (isolated tumor cells) detected by non-morphological (molecular) methods (qualifier) | (TNM...ion) |
| h17:name | CV CNE | 1 ... 1 | R | | (TNM...ion) |
| @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 CWE | 0 ... 1 | R | | (TNM...ion) |
| | 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> (DYNAMIC) | | | |
| h17:qualifier | CR CNE | 0 ... 11 | R | Suffix for localization of distant metastases in M1 | (TNM...ion) |
| h17:name | CV CNE | 1 ... 1 | R | | (TNM...ion) |
| @codeSystem | oid | 1 ... 1 | F | 1.2.276.0.76.3.1.131.1.5.1 | |
| @code | cs | 1 ... 1 | F | tnmLoc | |
| h17:value | CD CNE | 0 ... 1 | R | | (TNM...ion) |

| | | | | |
|--------------------|------|---|---|--|
| | 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> (DYNAMIC) | | |
| L 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>CDA author IHE</i> (DYNAMIC) (TNM...ion) |
| L h17:informant | II | 0 ... * | R | Contains 1.3.6.1.4.1.19376.1.8.1.4.6 <i>CDA Informant(Header&Body) APSR2</i> (DYNAMIC) (TNM...ion) |
| 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 APSR (Body)</i> (DYNAMIC) (TNM...ion) |
| Included | | 0 ... * | C | from 1.3.6.1.4.1.19376.1.3.10.9.1 <i>X Specimen Identified</i> (DYNAMIC) |
| L h17:specimen | | 0 ... * | C | Required in XD-LAB when more than one specimen is documented at this level. Always required in APSR. PaLM Suppl. APSR 2.0-3: 6.3.6.9 X Specimen identified |
| L @typeCode | CS | 0 ... 1 | F | SPC |
| L h17:specimenRole | | 1 ... 1 | M | PaLM Suppl. APSR 2.0-3: 6.3.6.9 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 2.0-3: 6.3.6.9 X Specimen identified |

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 | valid from 2015-11-15 13:01:18 |
| Status |  Draft | Version Label | 2.0 |
| Name | TNMGrading | Display Name | 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.

| | |
|-----------------------|--|
| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.28 |
| Classification | CDA Entry Level Template |
| Open/Closed | Open (other than defined elements are allowed) |

Used by 0 transactions and 2 templates, Uses 3 templates

| Used by | as | Name | Version |
|------------------------------|---|--|---------------------|
| 1.3.6.1.4.1.19376.1.3.10.4.2 | Containment  | TNM Stage Observation (2.0) | 2014-05-13 15:45:13 |
| 1.3.6.1.4.1.19376.1.3.10.4.1 |   | Specimen Procedure Step (1.0) | 2014-07-29 16:02:02 |
| Uses | as | Name | Version |
| 1.3.6.1.4.1.19376.1.8.1.4.2 | Containment  | CDA author IHE | DYNAMIC |
| 1.3.6.1.4.1.19376.1.8.1.4.6 | Containment  | CDA Informant(Header&Body) APSR2 (2.0) | DYNAMIC |
| 1.3.6.1.4.1.19376.1.3.10.9.1 | Include  | X Specimen Identified | DYNAMIC |


| | |
|---------------------|--|
| 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><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' (dynamic) --> </author> </observation></pre> |


```

</author>
<informant>
  <!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant(Header&Body) APSR2' (dynamic) -->
</informant>
<!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (dynamic) 1..* R -->
</observation>

```

| Item | DT | Card | Conf | Description | Label | |
|---------------------|--------|--|------|--|-------------|--|
| h17:observation | | 0 .. 1 | R | | (TNM...ing) | |
| └ @classCode | cs | 1 .. 1 | F | OBS | | |
| └ @moodCode | cs | 1 .. 1 | F | EVN | | |
| └ @negationInd | bl | 0 .. 1 | | | | |
| └ h17:templateId | II | 1 .. 1 | M | | (TNM...ing) | |
| └└ @root | uid | 1 .. 1 | F | 1.3.6.1.4.1.19376.1.3.10.9.28 | | |
| └ h17:id | II | 0 .. * | R | | (TNM...ing) | |
| └ h17:code | CE CWE | 1 .. 1 | M | | (TNM...ing) | |
| └└ @code | CONF | 1 .. 1 | F | 59541-3 | | |
| └└ @codeSystem | | 1 .. 1 | F | 2.16.840.1.113883.6.1 (Logical Observation Identifier Names and Codes) | | |
| └└ @codeSystemName | | 1 .. 1 | F | LOINC | | |
| └└ @displayName | | 1 .. 1 | F | Grade pathology system | | |
| └ h17:text | ED | 0 .. 1 | R | | (TNM...ing) | |
| └ h17:statusCode | CS CNE | 1 .. 1 | M | | (TNM...ing) | |
| | CONF | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.2 (DYNAMIC) | | | | |
| | |  Error: Cannot find value set "1.3.6.1.4.1.19376.1.3.11.2" | | | | |
| └ h17:effectiveTime | IVL_TS | 1 .. 1 | M | | (TNM...ing) | |

| | | | | | |
|--------------------|--------|--|---|--|---|
| L h17:value | CD CWE | 1 ... 1 | R | | (TNM...ing) |
| Constraint | | <p>- if grading system is not to recognize from sender, the value set for a 4 tiered grading has to be chosen.</p> <p>- 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.</p> | | | |
| CONF | | <p>The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.31 <i>UICC Grade 4 tiered</i> (DYNAMIC)</p> <p>or</p> <p>The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.29 <i>UICC Grade 3 tiered</i> (DYNAMIC)</p> <p>or</p> <p>The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.30 <i>UICC Grade 2 tiered</i> (DYNAMIC)</p> | | | |
| L h17:author | 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>CDA author IHE</i> (DYNAMIC)</p> | (TNM...ing) |
| L h17:informant | 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>CDA Informant(Header&Body) APSR2</i> (DYNAMIC)</p> | (TNM...ing) |
| <i>Included</i> | | 1 ... * | R | from 1.3.6.1.4.1.19376.1.3.10.9.1 X <i>Specimen Identified</i> (DYNAMIC) | |
| 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 2.0-3: 6.3.6.9 X Specimen identified |
| L @typeCode | cs | 0 ... 1 | F | SPC | |
| L h17:specimenRole | | 1 ... 1 | M | PaLM Suppl. APSR 2.0-3: | |

| | | | | | |
|--------------|----|-----------|----------------------------------|--|---|
| | | | | | 6.3.6.9 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 2.0-3: 6.3.6.9 X Specimen identified |

Supportive Template TNM R-Status - 1.3.6.1.4.1.19376.1.3.10.9.29

| | | | |
|------------------------------|--|--|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.10.9.29 | Effective Date | valid from 2015-06-30 13:38:30 |
| Status | Draft | Version Label | 2.0 |
| Name | TNMRstatus | Display Name | TNM R-status |
| Description | Template CDA Observation (prototype, directly derived from POCD_RM000040 MIF) Residual Tumor Status after any therapy | | |
| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.29 | | |
| Classification | CDA Entry Level Template | | |
| Open/Closed | Open (other than defined elements are allowed) | | |
| Used by / Uses | Used by 0 transactions and 2 templates, Uses 3 templates | | |
| | Used by | as | Name |
| | 1.3.6.1.4.1.19376.1.3.10.4.2 | Containment | TNM Stage Observation (2.0) |
| | 1.3.6.1.4.1.19376.1.3.10.4.1 | | Specimen Procedure Step (1.0) |
| | Uses | as | Name |
| 1.3.6.1.4.1.19376.1.8.1.4.2 | Containment | CDA author IHE | |
| 1.3.6.1.4.1.19376.1.8.1.4.6 | Containment | CDA Informant(Header&Body) APSR2 (2.0) | |
| 1.3.6.1.4.1.19376.1.3.10.9.1 | Include | X Specimen Identified | |
| Relationship | Specialization: template 1.3.6.1.4.1.19376.1.8.1.4.9 (2014-05-14 17:09:54) | | |

Example







Generated example for R0

```
<observation classCode="OBS" moodCode="EVN" negationInd="false">
  <templateId root="1.3.6.1.4.1.19376.1.3.10.9.29"/>
  <id root="1.2.3.999" extension="--example only--"/>
  <code code="445200009" codeSystem="2.16.840.1.113883.6.96"/>
  <text/>
  <statusCode code="completed"/>
  <effectiveTime>
    <low value="20170712150312"/>
  </effectiveTime>
  <value xsi:type="CD" code="258254000" displayName="Residual tumor stage R0 (finding)" codeSystem="2.16.840.1.113883.6.96"/>
  <author>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author IHE' (dynamic) -->
  </author>
  <informant>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant(Header&Body) APSR2' (dynamic) -->
  </informant>
  <!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (dynamic) 1..* M -->
</observation>
```

| Item | DT | Card | Conf | Description | Label |
|--------------------|--------|--------|------|--|-------------|
| h17:observation | | 0 .. 1 | R | | (TNM...tus) |
| └ @classCode | CS | 1 .. 1 | F | OBS | |
| └ @moodCode | CS | 1 .. 1 | F | EVN | |
| └ @negationInd | bl | 0 .. 1 | | | |
| └ h17:templateId | II | 1 .. 1 | M | | (TNM...tus) |
| └└ @root | uid | 1 .. 1 | F | 1.3.6.1.4.1.19376.1.3.10.9.29 | |
| └ h17:id | II | 0 .. * | R | | (TNM...tus) |
| └ h17:code | CD CWE | 1 .. 1 | M | | (TNM...tus) |
| └└ @code | | 1 .. 1 | F | 445200009 | |
| └└ @codeSystem | CONF | 1 .. 1 | F | 2.16.840.1.113883.6.96 (SNOMED Clinical Terms) | |
| └└ @codeSystemName | | 1 .. 1 | F | SCT | |

| | | | | | |
|-------------------|--------|---|---|--|---|
| h17:text | ED | 0 ... 1 | R | | (TNM...tus) |
| h17:statusCode | CS CNE | 1 ... 1 | M | | (TNM...tus) |
| | CONF | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.2 (DYNAMIC) ❗ Error: Cannot find value set "1.3.6.1.4.1.19376.1.3.11.2" | | | |
| h17:effectiveTime | IVL_TS | 1 ... 1 | M | | (TNM...tus) |
| h17:value | CD CWE | 1 ... 1 | R | | (TNM...tus) |
| | CONF | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.21 <i>UICC Residual tumor (R) classification</i> (DYNAMIC) | | | |
| h17:author | | 0 ... * | C | Contains 1.3.6.1.4.1.19376.1.8.1.4.2 <i>CDA author IHE</i> (DYNAMIC) | (TNM...tus) |
| h17:informant | | 0 ... * | R | Contains 1.3.6.1.4.1.19376.1.8.1.4.6 <i>CDA Informant(Header&Body) APSR2</i> (DYNAMIC) | (TNM...tus) |
| Included | | 1 ... * | M | from 1.3.6.1.4.1.19376.1.3.10.9.1 <i>X Specimen Identified</i> (DYNAMIC) | |
| 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 2.0-3: 6.3.6.9 X Specimen identified |
| @typeCode | cs | 0 ... 1 | F | SPC | |
| h17:specimenRole | | 1 ... 1 | M | | PaLM Suppl. APSR 2.0-3: 6.3.6.9 X Specimen identified |
| @classCode | cs | 0 ... 1 | F | SPEC | |
| h17:id | II | 1 ... 1 | R | Specimen ID, coming from the LIS | PaLM Suppl. APSR 2.0-3: 6.3.6.9 X |

Specimen
identified**Supportive Template TNM a - 1.3.6.1.4.1.19376.1.3.10.9.30**

| | | | |
|-----------------------------|--|---|---|
| Id | 1.3.6.1.4.1.19376.1.3.10.9.30 | Effective Date | valid from 2015-06-22 15:13:46 |
| Status |  Draft | Version Label | 2.0 |
| Name | TNMa | Display Name | TNM a |
| Description | Template CDA Observation (prototype, directly derived from POCD_RM000040 MIF) | | |
| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.30 | | |
| Classification | CDA Entry Level Template | | |
| Open/Closed | Open (other than defined elements are allowed) | | |
| Used by / Uses | Used by 0 transactions and 2 templates, Uses 2 templates | | |
| | Used by | as | Name |
| | 1.3.6.1.4.1.19376.1.3.10.4.2 | Containment  | TNM Stage Observation (2.0) |
| | 1.3.6.1.4.1.19376.1.3.10.4.1 |  |  Specimen Procedure Step (1.0) |
| Uses | as | Name | |
| 1.3.6.1.4.1.19376.1.8.1.4.2 | Containment  | CDA author IHE | |
| 1.3.6.1.4.1.19376.1.8.1.4.6 | Containment  | CDA Informant(Header&Body) APSR2 (2.0) | |
| 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> <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' (dynamic) --> </author> <informant> <!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant(Header&Body) APSR2' (dynamic) --> </informant> </observation> </pre> | | |

| Item | DT | Card | Conf | Description | Label |
|------------------|---------|---------|------|--|--------|
| h17:observation | | 0 ... 1 | R | | (TNMa) |
| └ @classCode | CS | 1 ... 1 | F | OBS | |
| └ @moodCode | CS | 1 ... 1 | F | EVN | |
| └ @negationInd | bl | 0 ... 1 | | | |
| └ h17:templateId | II | 1 ... 1 | M | | (TNMa) |
| └└ @root | uid | 1 ... 1 | F | 1.3.6.1.4.1.19376.1.3.10.9.30 | |
| └ h17:id | II | 0 ... * | R | | (TNMa) |
| └ h17:code | CE CWE | 1 ... 1 | M |  a - At autopsy (tumor staging) | (TNMa) |
| | CONF | | | @code shall be "277646006" @codeSystem shall be "2.16.840.1.113883.6.96" @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" | |
| └ h17:text | ED | 0 ... 1 | R |  The information can be optionally provided in textual form here. | (TNMa) |
| | Example | | | <text>a</text> | |
| └ h17:statusCode | CS CNE | 1 ... 1 | M | | (TNMa) |
| | CONF | | | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.2 (DYNAMIC)  Error: Cannot find value set "1.3.6.1.4.1.19376.1.3.11.2" | |


| | | | | | |
|-------------------|--------|--|---|--|--------|
| h17:effectiveTime | IVL_TS | 1 ... 1 | M | | (TNMa) |
| h17:value | CD CWE | 1 ... 1 | R | | (TNMa) |
| | CONF | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.41 <i>UICC Autopsy</i> (DYNAMIC) | | | |
| h17:author | II | 0 ... * | C | Contains 1.3.6.1.4.1.19376.1.8.1.4.2 <i>CDA author IHE</i> (DYNAMIC) | (TNMa) |
| h17:informant | II | 0 ... * | R | Contains 1.3.6.1.4.1.19376.1.8.1.4.6 <i>CDA Informant(Header&Body) APSR2</i> (DYNAMIC) | (TNMa) |


Supportive Template TNM r - 1.3.6.1.4.1.19376.1.3.10.9.31

| | | | |
|-----------------------------|--|--|---|
| Id | 1.3.6.1.4.1.19376.1.3.10.9.31 | Effective Date | valid from 2015-06-22 17:38:42 |
| Status | Draft | Version Label | 2.0 |
| Name | TNMr | Display Name | TNM r |
| Description | Template CDA Observation (prototype, directly derived from POCD_RM000040 MIF) | | |
| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.31 | | |
| Classification | CDA Entry Level Template | | |
| Open/Closed | Open (other than defined elements are allowed) | | |
| Used by / Uses | Used by 0 transactions and 2 templates, Uses 2 templates | | |
| | Used by | as | Name Version |
| | 1.3.6.1.4.1.19376.1.3.10.4.2 | Containment | TNM Stage Observation (2.0) 2014-05-13 15:45:13 |
| | 1.3.6.1.4.1.19376.1.3.10.4.1 | | Specimen Procedure Step (1.0) 2014-07-29 16:02:02 |
| | Uses | as | Name Version |
| 1.3.6.1.4.1.19376.1.8.1.4.2 | Containment | CDA author IHE DYNAMIC | |
| 1.3.6.1.4.1.19376.1.8.1.4.6 | Containment | CDA Informant(Header&Body) APSR2 (2.0) DYNAMIC | |
| 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><observation classCode="OBS" moodCode="EVN" negationInd="false"></pre> | | |



```

<templateId root="1.3.6.1.4.1.19376.1.3.10.9.31"/>
<id root="1.2.3.999" extension="--example only--"/>
<code code="277647002" codeSystem="2.16.840.1.113883.6.96" displayName="Tumor recurrence (tumor staging)"/>
<text/>
<statusCode code="completed"/>
<effectiveTime>
  <low value="20170712103938"/>
</effectiveTime>
<value xsi:type="CD" code="r" displayName="r" 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' (dynamic) -->
</author>
<informant>
  <!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant(Header&Body) APSR2' (dynamic) -->
</informant>
</observation>
  
```

| Item | DT | Card | Conf | Description | Label |
|--------------------|--------|---------|------|--|--------|
| h17:observation | | 0 ... 1 | R | | (TNMr) |
| └ @classCode | CS | 0 ... 1 | F | OBS | |
| └ @moodCode | CS | 1 ... 1 | F | EVN | |
| └ @negationInd | bl | 0 ... 1 | | | |
| └ h17:templateId | II | 1 ... 1 | M | | (TNMr) |
| └└ @root | uid | 1 ... 1 | F | 1.3.6.1.4.1.19376.1.3.10.9.31 | |
| └ h17:id | II | 0 ... * | R | | (TNMr) |
| └ h17:code | CE CWE | 1 ... 1 | R |  additional tumor descriptors: recurrence | (TNMr) |
| └└ @code | CONF | 1 ... 1 | F | 277647002 | |
| └└ @codeSystem | | 1 ... 1 | F | 2.16.840.1.113883.6.96 (SNOMED Clinical Terms) | |
| └└ @codeSystemName | | 1 ... 1 | F | Snomed CT | |
| └└ @displayName | | 1 ... 1 | F | Tumor recurrence (tumor staging) | |
| └ h17:text | ED | 0 ... 1 | R | | (TNMr) |

| | | | | |
|-------------------|--------|---|---|--------|
| h17:statusCode | CS CNE | 1 ... 1 M | | (TNMr) |
| | CONF | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.2 (DYNAMIC)  Error: Cannot find value set "1.3.6.1.4.1.19376.1.3.11.2" | | |
| h17:effectiveTime | IVL_TS | 0 ... 1 R | | (TNMr) |
| h17:value | CD CWE | 1 ... 1 R | | (TNMr) |
| | CONF | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.39 <i>UICC Recurrence</i> (DYNAMIC) | | |
| 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>CDA author IHE</i> (DYNAMIC) | (TNMr) |
| 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>CDA Informant(Header&Body) APSR2</i> (DYNAMIC) | (TNMr) |

Supportive Template TNM y - 1.3.6.1.4.1.19376.1.3.10.9.32

| | | | |
|-----------------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.10.9.32 | Effective Date | valid from 2015-06-22 17:28:17 |
| Status |  Draft | Version Label | 2.0 |
| Name | TNMy | Display Name | TNM y |
| Description | Template CDA Observation (prototype, directly derived from POCD_RM000040 MIF) | | |
| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.32 | | |
| Classification | CDA Entry Level Template | | |
| Open/Closed | Open (other than defined elements are allowed) | | |
| Used by / Uses | Used by 0 transactions and 2 templates, Uses 2 templates | | |

| Used by | as | Name | Version |
|------------------------------|-------------|--|---------------------|
| 1.3.6.1.4.1.19376.1.3.10.4.2 | Containment | TNM Stage Observation (2.0) | 2014-05-13 15:45:13 |
| 1.3.6.1.4.1.19376.1.3.10.4.1 | | Specimen Procedure Step (1.0) | 2014-07-29 16:02:02 |
| Uses | as | Name | Version |
| 1.3.6.1.4.1.19376.1.8.1.4.2 | Containment | CDA author IHE | DYNAMIC |
| 1.3.6.1.4.1.19376.1.8.1.4.6 | Containment | CDA Informant(Header&Body) APSR2 (2.0) | DYNAMIC |

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="1.3.6.1.4.1.19376.1.3.10.9.32"/>
  <id root="1.2.3.999" extension="--example only--"/>
  <code code="277649004" codeSystem="2.16.840.1.113883.6.96" displayName="y - During therapy/following treatment (tumor staging)"/>
  <text/>
  <statusCode code="completed"/>
  <effectiveTime>
    <low value="20170712105323"/>
  </effectiveTime>
  <value xsi:type="CD" code="y" displayName="y" 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' (dynamic) -->
  </author>
  <informant>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant(Header&Body) APSR2' (dynamic) -->
  </informant>
</observation>
    
```

| Item | DT | Card | Conf | Description | Label |
|------------------|-----|---------|------|-------------------------------|--------|
| h17:observation | | 0 ... 1 | R | | (TNMy) |
| └ @classCode | CS | 1 ... 1 | F | OBS | |
| └ @moodCode | CS | 1 ... 1 | F | EVN | |
| └ @negationInd | bl | 0 ... 1 | | | |
| └ h17:templateId | II | 1 ... 1 | M | | (TNMy) |
| └└ @root | uid | 1 ... 1 | F | 1.3.6.1.4.1.19376.1.3.10.9.32 | |




| | | | | | |
|-------------------|--------|--|---|---|--------|
| h17:id | II | 0 ... * | R | | (TNMy) |
| h17:code | CE CWE | 1 ... 1 | M | | (TNMy) |
| | 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 | | (TNMy) |
| h17:statusCode | CS CNE | 0 ... 1 | R | | (TNMy) |
| | CONF | <p>The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.2 (DYNAMIC)</p> <p>Error: Cannot find value set "1.3.6.1.4.1.19376.1.3.11.2"</p> | | | |
| h17:effectiveTime | IVL_TS | 0 ... 1 | R | | (TNMy) |
| h17:value | CD CWE | 1 ... 1 | R | | (TNMy) |
| | CONF | <p>The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.40 <i>UICC Posttherapeutic</i> (DYNAMIC)</p> | | | |
| h17:author | 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>CDA author IHE</i> (DYNAMIC)</p> | (TNMy) |
| h17:informant | II | 0 ... * | R | <p>Informant</p> <p>Source: PaLM TF Suppl. APSR 2.0-3: 6.3.6.5</p> | (TNMy) |




Contains 1.3.6.1.4.1.19376.1.8.1.4.6 CDA Informant(Header&Body) APSR2 (DYNAMIC)

Supportive Template TNM Serum Tumor Markers - 1.3.6.1.4.1.19376.1.3.10.9.33

| | | | |
|-----------------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.10.9.33 | Effective Date | valid from 2015-11-06 14:28:44 |
| Status |  Draft | Version Label | 2.0 |
| Name | TNMserumtumormarker | Display Name | TNM Serum tumor markers |
| Description | Template CDA Observation (prototype, directly derived from POCD_RM000040 MIF) | | |
| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.33 | | |
| Classification | CDA Entry Level Template | | |
| Open/Closed | Open (other than defined elements are allowed) | | |

Used by 0 transactions and 2 templates, Uses 3 templates

| Used by | as | Name | Version |
|------------------------------|--|---|------------------------|
| 1.3.6.1.4.1.19376.1.3.10.4.2 | Containment |  TNM Stage Observation (2.0) | 2014-05-13 15:45:13 |
| 1.3.6.1.4.1.19376.1.3.10.4.1 |  |  Specimen Procedure Step (1.0) | 2014-07-29 16:02:02 |

| Uses | as | Name | Version |
|-----------------------------|-------------|--|---------|
| 1.3.6.1.4.1.19376.1.8.1.4.2 | Containment |  CDA author IHE | DYNAMIC |
| 1.3.6.1.4.1.19376.1.8.1.4.6 | Containment |  CDA Informant(Header&Body) APSR2 (2.0) | DYNAMIC |
| 2.16.840.1.113883.10.12.300 | Containment |  CDA Clinical Statement | DYNAMIC |


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 classCode="OBS" moodCode="EVN" negationInd="false">
  <templateId root="1.3.6.1.4.1.19376.1.3.10.9.33"/>
  <Id root="1.2.3.999" extension="--example only--"/>
  <code code="tnmS" codeSystem="1.2.276.0.76.3.1.131.1.5.1"/>
  <text/>
  <statusCode code="completed"/>
  <effectiveTime>
    <low value="20170712150818"/>
  </effectiveTime>
</observation>
```

```

<value xsi:type="CD" code="S0" displayName="S0" 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' (dynamic) -->
</author>
<informant>
  <!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant(Header&Body) APSR2' (dynamic) -->
</informant>
<entryRelationship typeCode="COMP">
  <!-- template 2.16.840.1.113883.10.12.300 'CDA Clinical Statement' (dynamic) -->
</entryRelationship>
</observation>
  
```

| Item | DT | Card | Conf | Description | Label |
|------------------|------------|---|------|-------------------------------|-------------|
| h17:observation | | 0 ... 1 | C | | (TNM...ker) |
| └ @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). | | | |
| └ h17:templateId | II | 1 ... 1 | M | | (TNM...ker) |
| └└ @root | uid | 1 ... 1 | F | 1.3.6.1.4.1.19376.1.3.10.9.33 | |
| └ h17:Id | II | 0 ... * | R | | (TNM...ker) |
| └ h17:code | CE CWE | 1 ... 1 | M | | (TNM...ker) |
| └└ @codeSystem | oid | 1 ... 1 | F | 1.2.276.0.76.3.1.131.1.5.1 | |
| └└ @code | cs | 1 ... 1 | F | tnmS | |
| └ h17:text | ED | 0 ... 1 | R | | (TNM...ker) |
| └ h17:statusCode | CS CNE | 1 ... 1 | M | | (TNM...ker) |
| | CONF | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.2 (DYNAMIC)  Error: Cannot find value set "1.3.6.1.4.1.19376.1.3.11.2" | | | |

| | | | | | |
|-----------------------|--------|---|---|---|-------------|
| h17:effectiveTime | IVL_TS | 1 ... 1 | M | | (TNM...ker) |
| h17:value | CD CWE | 1 ... 1 | R | | (TNM...ker) |
| | CONF | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.32 UICC Serum Tumor Markers (DYNAMIC) | | | |
| h17:author | | 0 ... * | C | Contains 1.3.6.1.4.1.19376.1.8.1.4.2 CDA author IHE (DYNAMIC) | (TNM...ker) |
| h17:informant | | 0 ... * | R | Contains 1.3.6.1.4.1.19376.1.8.1.4.6 CDA Informant(Header&Body) APSR2 (DYNAMIC) | (TNM...ker) |
| h17:entryRelationship | | 0 ... * | C | Information about clinical laboratory values Contains 2.16.840.1.113883.10.12.300 CDA Clinical Statement (DYNAMIC) | (TNM...ker) |
| @typeCode | CS | 1 ... 1 | F | COMP | |

Supportive Template TNM Lymphatic Invasion - 1.3.6.1.4.1.19376.1.3.10.9.34

| | | | |
|-----------------------------|---|--|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.10.9.34 | Effective Date | valid from 2015-11-16 14:01:58 |
| Status | Draft | Version Label | 2.0 |
| Name | TNMLymphaticInvasion | Display Name | TNM Lymphatic Invasion |
| Description | Template CDA Observation (prototype, directly derived from POCD_RM000040 MIF) | | |
| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.34 | | |
| Classification | CDA Entry Level Template | | |
| Open/Closed | Open (other than defined elements are allowed) | | |
| Used by / Uses | Used by 0 transactions and 2 templates, Uses 3 templates | | |
| | Used by | as | Name |
| | 1.3.6.1.4.1.19376.1.3.10.4.2 | Containment | TNM Stage Observation (2.0) |
| | 1.3.6.1.4.1.19376.1.3.10.4.1 | | Specimen Procedure Step (1.0) |
| | Uses | as | Name |
| 1.3.6.1.4.1.19376.1.8.1.4.2 | Containment | CDA author IHE | |
| 1.3.6.1.4.1.19376.1.8.1.4.6 | Containment | CDA Informant(Header&Body) APSR2 (2.0) | |

1.3.6.1.4.1.19376.1.3.10.9.1 Include  X Specimen Identified

DYNAMIC

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 classCode="OBS" moodCode="EVN" negationInd="false">
  <templateId root="1.3.6.1.4.1.19376.1.3.10.9.34"/>
  <id root="1.2.3.999" extension="--example only--"/>
  <code code="395715009" codeSystem="2.16.840.1.113883.6.96" displayName="Status of lymphatic (small vessel) invasion by tumor (observable entity)"/>
  <statusCode code="completed"/>
  <effectiveTime>
    <low value="20170712144109"/>
  </effectiveTime>
  <value xsi:type="CD" code="L0" displayName="no lymphatic invasion" 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' (dynamic) -->
  </author>
  <informant>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant (Header&Body) APSR2' (dynamic) -->
  </informant>
  <!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (dynamic) 1.* R -->
</observation>
```

| Item | DT | Card | Conf | Description | Label |
|------------------|--------|---|------|-------------------------------|-------------|
| h17:observation | | 0 .. 1 | R | | (TNM...ion) |
| └ @classCode | CS | 1 .. 1 | F | OBS | |
| └ @moodCode | CS | 1 .. 1 | F | EVN | |
| └ @negationInd | bl | 0 .. 1 | | | |
| └ h17:templateId | II | 1 .. 1 | M | | (TNM...ion) |
| └└ @root | uid | 1 .. 1 | F | 1.3.6.1.4.1.19376.1.3.10.9.34 | |
| └ h17:id | II | 0 .. * | R | | (TNM...ion) |
| └ h17:code | CE CWE | 1 .. 1 | M | | (TNM...ion) |
| | CONF | @code shall be "395715009" @codeSystem shall be "2.16.840.1.113883.6.96" | | | |

| | | | | | |
|-------------------|--------|--|---|--|---|
| | | | | <p>@codeSystemName shall be "SNOMED CT"</p> <p>@displayName shall be "Status of lymphatic (small vessel) invasion by tumor (observable entity)"</p> <p>or</p> <p>@code shall be "33739-4"</p> <p>@codeSystem shall be "2.16.840.1.113883.6.1"</p> <p>@codeSystemName shall be "LOINC"</p> <p>@displayName shall be "Lymphatic.small vessel.invasion"</p> | |
| h17:statusCode | CS CNE | 1 ... 1 | M | | (TNM...ion) |
| | CONF | <p>The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.2 (DYNAMIC)</p> <p>❗ Error: Cannot find value set "1.3.6.1.4.1.19376.1.3.11.2"</p> | | | |
| h17:effectiveTime | IVL_TS | 1 ... 1 | M | | (TNM...ion) |
| h17:value | CD CWE | 1 ... 1 | R | | (TNM...ion) |
| | CONF | <p>The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.24 <i>UICC Lymphatic Invasion</i> (DYNAMIC)</p> | | | |
| h17:author | 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>CDA author IHE</i> (DYNAMIC)</p> | (TNM...ion) |
| h17:informant | 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>CDA Informant(Header&Body) APSR2</i> (DYNAMIC)</p> | (TNM...ion) |
| Included | | 1 ... * | R | from 1.3.6.1.4.1.19376.1.3.10.9.1 <i>X Specimen Identified</i> (DYNAMIC) | |
| h17:specimen | | 1 ... * | R | <p>Required in XD-LAB when more than one specimen is documented at this level. Always required in APSR.</p> | PaLM Suppl. APSR 2.0-3: 6.3.6.9 X Specimen identified |

| | | | | | |
|------------------|----|---------|---|----------------------------------|---|
| @typeCode | cs | 0 ... 1 | F | SPC | |
| h17:specimenRole | | 1 ... 1 | M | | PaLM Suppl. APSR 2.0-3: 6.3.6.9 X Specimen identified |
| @classCode | cs | 0 ... 1 | F | SPEC | |
| h17:id | II | 1 ... 1 | R | Specimen ID, coming from the LIS | PaLM Suppl. APSR 2.0-3: 6.3.6.9 X Specimen identified |

Supportive Template TNM Venous Invasion - 1.3.6.1.4.1.19376.1.3.10.9.35

| | | | |
|-----------------------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.10.9.35 | Effective Date | valid from 2015-11-16 13:40:28 |
| Status | Draft | Version Label | 2.0 |
| Name | TNMVenousInvasion | Display Name | TNM Venous Invasion |
| Description | Template CDA Observation (prototype, directly derived from POCD_RM000040 MIF) | | |
| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.35 | | |
| Classification | CDA Entry Level Template | | |
| Open/Closed | Open (other than defined elements are allowed) | | |
| Used by / Uses | Used by 0 transactions and 2 templates, Uses 3 templates | | |
| | Used by | as | Name |
| | 1.3.6.1.4.1.19376.1.3.10.4.2 | Containment | TNM Stage Observation (2.0) |
| | 1.3.6.1.4.1.19376.1.3.10.4.1 | | Specimen Procedure Step (1.0) |
| Uses | as | Name | Version |
| 1.3.6.1.4.1.19376.1.8.1.4.2 | Containment | CDA author IHE | DYNAMIC |

| | | | | |
|------------------------------|-------------|--|--|---------|
| 1.3.6.1.4.1.19376.1.8.1.4.6 | Containment | | CDA Informant(Header&Body) APSR2 (2.0) | DYNAMIC |
| 1.3.6.1.4.1.19376.1.3.10.9.1 | Include | | X Specimen Identified | DYNAMIC |

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 classCode="OBS" moodCode="EVN" negationInd="false">
  <templateId root="1.3.6.1.4.1.19376.1.3.10.9.35"/>
  <id root="1.2.3.999" extension="--example only--"/>
  <code code="371493002" codeSystem="2.16.840.1.113883.6.96" displayName="Status of venous (large vessel) invasion by tumor (observable entity)"/>
  <text/>
  <statusCode code="completed"/>
  <effectiveTime>
    <low value="20170712153454"/>
  </effectiveTime>
  <value xsi:type="CD" code="V0" displayName="no venous invasion" 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' (dynamic) -->
  </author>
  <informant>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant(Header&Body) APSR2' (dynamic) -->
  </informant>
  <!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (dynamic) 1..* R -->
</observation>
```

| Item | DT | Card | Conf | Description | Label |
|------------------|--------|--------|------|-------------------------------|-------------|
| h17:observation | | 0 .. 1 | R | | (TNM...ion) |
| └ @classCode | CS | 1 .. 1 | F | OBS | |
| └ @moodCode | CS | 1 .. 1 | F | EVN | |
| └ @negationInd | bl | 0 .. 1 | | | |
| └ h17:templateId | II | 1 .. 1 | M | | (TNM...ion) |
| └└ @root | uid | 1 .. 1 | F | 1.3.6.1.4.1.19376.1.3.10.9.35 | |
| └ h17:id | II | 0 .. * | R | | (TNM...ion) |
| └ h17:code | CE CWE | 1 .. 1 | M | | (TNM...ion) |

| | | | | | |
|---------------------|--------|---------|---|--|-------------|
| | CONF | | | @code shall be "371493002" @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" | |
| └ h17:text | ED | 0 ... 1 | R | | (TNM...ion) |
| └ h17:statusCode | CS CNE | 1 ... 1 | M | | (TNM...ion) |
| | CONF | | | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.2 (DYNAMIC) ❗ Error: Cannot find value set "1.3.6.1.4.1.19376.1.3.11.2" | |
| └ h17:effectiveTime | IVL_TS | 1 ... 1 | M | | (TNM...ion) |
| └ h17:value | CD CWE | 1 ... 1 | R | | (TNM...ion) |
| | CONF | | | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.23 <i>UICC Venous Invasion</i> (DYNAMIC) | |
| └ 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>CDA author IHE</i> (DYNAMIC) | (TNM...ion) |
| └ 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>CDA Informant(Header&Body) APSR2</i> (DYNAMIC) | (TNM...ion) |
| Included | | 1 ... * | R | from 1.3.6.1.4.1.19376.1.3.10.9.1 X <i>Specimen Identified</i> (DYNAMIC) | |

| | | | | | |
|------------------|----|---------|---|--|---|
| 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 2.0-3: 6.3.6.9 X Specimen identified |
| @typeCode | cs | 0 ... 1 | F | SPC | |
| h17:specimenRole | | 1 ... 1 | M | | PaLM Suppl. APSR 2.0-3: 6.3.6.9 X Specimen identified |
| @classCode | cs | 0 ... 1 | F | SPEC | |
| h17:id | II | 1 ... 1 | R | Specimen ID, coming from the LIS | PaLM Suppl. APSR 2.0-3: 6.3.6.9 X Specimen identified |

Supportive Template TNM Perineural Invasion - 1.3.6.1.4.1.19376.1.3.10.9.36

| | | | |
|-----------------------|---|-----------------------|---|
| Id | 1.3.6.1.4.1.19376.1.3.10.9.36 | Effective Date | valid from 2015-11-11 16:13:40 |
| Status |  Draft | Version Label | 2.0 |
| Name | TnmPerineuralInvasion | Display Name | TNM Perineural Invasion |
| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.36 | | |
| Classification | CDA Entry Level Template | | |
| Open/Closed | Open (other than defined elements are allowed) | | |
| Used by / Uses | Used by 0 transactions and 2 templates, Uses 3 templates | | |
| | Used by | as | Name |
| | 1.3.6.1.4.1.19376.1.3.10.4.2 | Containment |  TNM Stage Observation (2.0) |
| | | | Version |
| | | | 2014-05-13 15:45:13 |

| 1.3.6.1.4.1.19376.1.3.10.4.1 | | Specimen Procedure Step (1.0) | 2014-07-29 16:02:02 |
|------------------------------|-------------|--|---------------------|
| Uses | as | Name | Version |
| 1.3.6.1.4.1.19376.1.8.1.4.2 | Containment | CDA author IHE | DYNAMIC |
| 1.3.6.1.4.1.19376.1.8.1.4.6 | Containment | CDA Informant(Header&Body) APSR2 (2.0) | DYNAMIC |
| 1.3.6.1.4.1.19376.1.3.10.9.1 | Include | X Specimen Identified | DYNAMIC |

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 classCode="OBS" moodCode="EVN">
  <templateId root="1.3.6.1.4.1.19376.1.3.10.9.36"/>
  <id root="1.2.3.999" extension="--example only--"/>
  <code code="tnmPn" codeSystem="1.2.276.0.76.3.1.131.1.5.1"/>
  <originalText/>
  <statusCode code="completed"/>
  <value code="Pn0" displayName="Pn0" 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' (dynamic) -->
  </author>
  <informant>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant(Header&Body) APSR2' (dynamic) -->
  </informant>
  <!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (dynamic) 1..* R -->
</observation>
    
```

| Item | DT | Card | Conf | Description | Label |
|------------------|--------|---------|------|-------------------------------|-------------|
| h17:observation | | 0 ... 1 | R | | (Tnm...ion) |
| └ @moodCode | CS | 1 ... 1 | F | EVN | |
| └ @classCode | CS | 1 ... 1 | F | OBS | |
| └ h17:templateId | II | 1 ... 1 | M | | (Tnm...ion) |
| └└ @root | uid | 1 ... 1 | F | 1.3.6.1.4.1.19376.1.3.10.9.36 | |
| └ h17:id | II | 0 ... * | R | | (Tnm...ion) |
| └ h17:code | CD CWE | 1 ... 1 | M | | (Tnm...ion) |
| └└ @codeSystem | oid | 1 ... 1 | F | 1.2.276.0.76.3.1.131.1.5.1 | |

| | | | | | |
|--------------------|--------|---|---|--|---|
| └ @code | CS | 1 ... 1 | F | tnmPn | |
| └ hl7:originalText | ED | 0 ... 1 | R | | (Tnm...ion) |
| └ hl7:statusCode | CS CNE | 1 ... 1 | M | | (Tnm...ion) |
| | CONF | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.2 (DYNAMIC) ❗ Error: Cannot find value set "1.3.6.1.4.1.19376.1.3.11.2" | | | |
| └ hl7:value | CD CWE | 1 ... 1 | R | | (Tnm...ion) |
| | CONF | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.25 <i>UICC Perineural Invasion</i> (DYNAMIC) | | | |
| └ hl7:author | II | 0 ... * | C | Contains 1.3.6.1.4.1.19376.1.8.1.4.2 <i>CDA author IHE</i> (DYNAMIC) | (Tnm...ion) |
| └ hl7:informant | II | 0 ... * | R | Contains 1.3.6.1.4.1.19376.1.8.1.4.6 <i>CDA Informant(Header&Body) APSR2</i> (DYNAMIC) | (Tnm...ion) |
| <i>Included</i> | | 1 ... * | R | from 1.3.6.1.4.1.19376.1.3.10.9.1 <i>X Specimen Identified</i> (DYNAMIC) | |
| └ 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 2.0-3: 6.3.6.9 X Specimen identified |
| └ @typeCode | CS | 0 ... 1 | F | SPC | |
| └ hl7:specimenRole | | 1 ... 1 | M | | PaLM Suppl. APSR 2.0-3: 6.3.6.9 X Specimen identified |
| └ @classCode | CS | 0 ... 1 | F | SPEC | |
| └ hl7:id | II | 1 ... 1 | R | Specimen ID, coming from the LIS | PaLM Suppl. |

| |
|---|
| APSR 2.0-3: 6.3.6.9 X Specimen identified |
|---|

6.3.6.11 ICD-O-3 Typing and Grading - 1.3.6.1.4.1.19376.1.3.10.4.3

6.3.6.11.1 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-Differentiation is used for a more detailed descriptions of those elements of the ICD-O-3 system. The supporting template ICD-O-Behavior is only to use if the pathologists' behavior classification is (rarely) deviant from the 5th digit in morphology and behavior code list, and is therefore overriding that digit.

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 on 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.

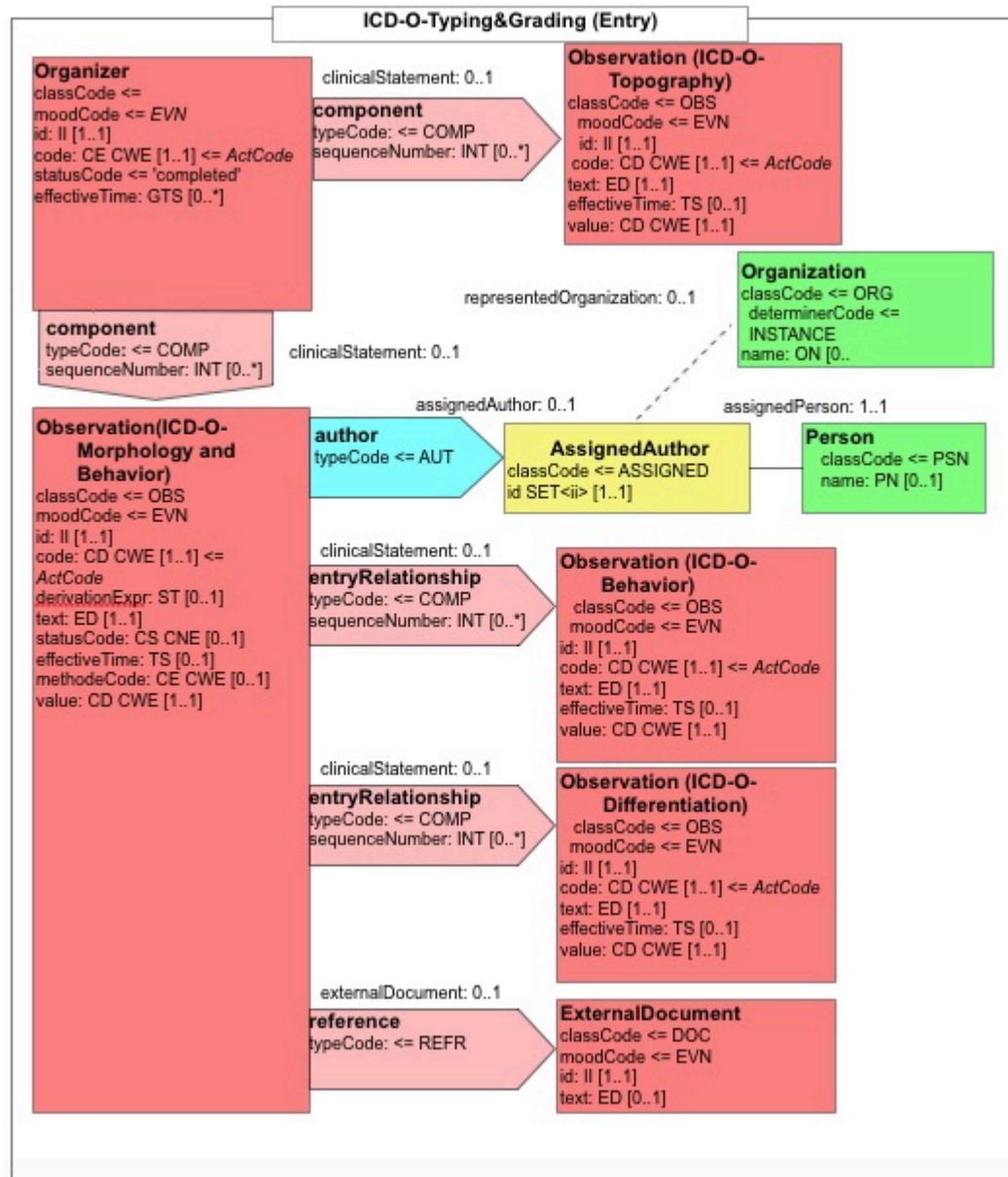











Figure 6.3.6.11.1-1 CDA-RMIM of the ICD-O-3 <entry>

6.3.6.11.2 Specification and Example

| | | | |
|-----------------------------|---|---|---|
| Id | 1.3.6.1.4.1.19376.1.3.10.4.3 | Effective Date | valid from 2015-11-29 17:03:18 |
| Status |  Draft | Version Label | 2.0 |
| Name | ICD-O-3TypingGrading | Display Name | ICD-O-3 Typing and Grading Observation |
| Description | Template CDA Observation (prototype, directly derived from POCD_RM000040 MIF) Entry template for observation on ICD-O-3 Typing and Grading | | |
| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.4.3 | | |
| Label | PaLM Suppl. APSR 2.0-3: 6.3.6.11 ICD-O-3 | | |
| Classification | CDA Entry Level Template | | |
| Open/Closed | Open (other than defined elements are allowed) | | |
| Used by / Uses | Used by 0 transactions and 0 templates, Uses 9 templates | | |
| | Uses | as | Name |
| | 1.3.6.1.4.1.19376.1.3.3.1.7 | Containment |  Laboratory Performer (2017) |
| | 1.3.6.1.4.1.19376.1.8.1.4.2 | Containment |  CDA author IHE |
| | 1.3.6.1.4.1.19376.1.8.1.4.6 | Containment |  CDA Informant(Header&Body) APSR2 (2.0) |
| | 1.3.6.1.4.1.19376.1.8.1.4.7 | Containment |  Additional participant in an entry APSR (Body) |
| | 1.3.6.1.4.1.19376.1.3.10.9.1 | Include |  X Specimen Identified |
| | 1.3.6.1.4.1.19376.1.3.10.9.38 | Containment |  ICD-O-3 Behavior (2.0) |
| | 1.3.6.1.4.1.19376.1.3.10.9.39 | Containment |  ICD-O-3 Differentiation (2.0) |
| | 1.3.6.1.4.1.19376.1.3.10.4.4 | Containment |  Assessment Scales Observation for Scoring Systems APSR2 (2.0) |
| 2.16.840.1.113883.10.12.324 | Containment |  CDA Reference | |
| Relationship | Specialization: template 1.3.6.1.4.1.19376.1.8.1.4.9 (2014-05-14 17:09:54) | | |
| Example | <p>example for use case #1</p> <pre><observation classCode="OBS" moodCode="EVN" negationInd="false"> <templateId root="1.3.6.1.4.1.19376.1.3.10.4.3"/> <id root="1.3.6.1.4.1.19376.1.8.9.1" extension="A7102400008_ICDO"/> <code code="59847-4" codeSystem="2.16.840.1.113883.6.1" displayName="Histology and behavior ICD-O-3"/> <originalText/> <statusCode code="completed"/> </observation></pre> | | |

```

<effectiveTime>
  <low value="201001041405-0500"/>
</effectiveTime>
<value xsi:type="CD" code="8500/3" codeSystem="2.16.840.1.113883.6.43.1"/>
<author>
  <!-- template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author' (dynamic) -->
</author>
<!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (dynamic) 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>
<entryRelationship typeCode="SPRT">
  <!-- template 1.3.6.1.4.1.19376.1.3.10.9.38 'ICD-O-3 Behavior' (dynamic), not used in use case #1 -->
</entryRelationship>
<entryRelationship typeCode="SPRT">
  <!-- template 1.3.6.1.4.1.19376.1.3.10.9.39 'ICD-O-3 Differentiation' (dynamic) -->
</entryRelationship>
<entryRelationship typeCode="COMP">
  <!-- template 1.3.6.1.4.1.19376.1.3.10.4.4 'Assessment Scales Observation for Scoring Systems APSR2' (dynamic) -->
</entryRelationship>
<reference>
  <!-- template 2.16.840.1.113883.10.12.324 'CDA Reference' (dynamic) -->
</reference>
</observation>

```


| Item | DT | Card | Conf | Description | Label |
|------------------|--------|--------------------------|------|---|-------------|
| h17:observation | | 0 ... 1 | R | Five digits of Morphology (and Behavior) code axis, supported by Differentiation code | PaLM...-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...-O-3 |
| └└ @root | uid | 1 ... 1 | F | 1.3.6.1.4.1.19376.1.3.10.4.3 | |
| └ h17:id | II | 0 ... 1 | R | | PaLM...-O-3 |
| └ h17:code | CD CWE | 1 ... 1 | M | | PaLM...-O-3 |
| | CONF | @code shall be "59847-4" | | | |

| | | | | | |
|---------------------|---------|---|--|--|-------------|
| | | | | <p>@codeSystem shall be "2.16.840.1.113883.6.1"</p> <p>@codeSystemName shall be "LOINC"</p> <p>@displayName shall be "Histology and behavior ICD-O-3"</p> <p>or</p> <p>@code shall be "397005006"</p> <p>@codeSystem shall be "2.16.840.1.113883.6.96"</p> <p>@codeSystemName shall be "SNOMED-CT"</p> <p>@displayName shall be "WHO tumor classification (observable entity)"</p> | |
| L h17:originalText | ED | 0 ... 1 R | | Original text of the Morphology (and Behavior) code with supporting Differentiation code | PaLM...-O-3 |
| | Example | for use case #1 <text>8500/31</text> | | | |
| L h17:statusCode | CS CNE | 1 ... 1 M | | | PaLM...-O-3 |
| | CONF | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.2 (DYNAMIC) ❗ Error: Cannot find value set "1.3.6.1.4.1.19376.1.3.11.2" | | | |
| L h17:effectiveTime | IVL_TS | 1 ... 1 M | | | PaLM...-O-3 |
| L h17:value | CD | 1 ... 1 R | | 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...-O-3 |
| | CONF | 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 and Behavior</i> (DYNAMIC) | | | |
| | Example | for use case #1: invasive breast cancer, NST, well differentiated <value xsi:type="CD" code="8500/3" codeSystem="2.16.840.1.113883.6.43.1"/> | | | |
| L 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> (DYNAMIC) | PaLM...-O-3 |
| L h17:author | II | 0 ... 1 C | | Contains 1.3.6.1.4.1.19376.1.8.1.4.2 <i>CDA author IHE</i> (DYNAMIC) | PaLM...-O-3 |

| | | | | | |
|-------------------------|-----------|----------------|----------|---|--|
| <p>h17: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 CDA Informant(Header&Body) APSR2 (DYNAMIC)</p> | <p>PaLM...-O-3</p> |
| <p>h17:participant</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 Additional participant in an entry APSR (Body) (DYNAMIC)</p> | <p>PaLM...-O-3</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 Specimen Identified (DYNAMIC)</p> | |
| <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 2.0-3: 6.3.6.9 X Specimen identified</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 2.0-3: 6.3.6.9 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 2.0-3: 6.3.6.9 X Specimen identified</p> |

| | | | | | |
|-----------------------|----|---------|---|--|-------------|
| h17:entryRelationship | | 0 ... 1 | C | 5th digit in the morphology code, used only if this digit is deviant from the code list in morphology axis Contains 1.3.6.1.4.1.19376.1.3.10.9.38 <i>ICD-O-3 Behavior</i> (DYNAMIC) | PaLM...-O-3 |
| @typeCode | cs | 1 ... 1 | F | SPRT | |
| h17:entryRelationship | | 0 ... 1 | R | 6th digit in the morphology code Contains 1.3.6.1.4.1.19376.1.3.10.9.39 <i>ICD-O-3 Differentiation</i> (DYNAMIC) | PaLM...-O-3 |
| @typeCode | cs | 1 ... 1 | F | SPRT | |
| h17:entryRelationship | | 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) Contains 1.3.6.1.4.1.19376.1.3.10.4.4 <i>Assessment Scales Observation for Scoring Systems APSR2</i> (DYNAMIC) | PaLM...-O-3 |
| @typeCode | cs | 1 ... 1 | F | COMP | |
| h17:reference | | 0 ... * | R | Contains 2.16.840.1.113883.10.12.324 <i>CDA Reference</i> (DYNAMIC) | PaLM...-O-3 |

Supportive Template ICD-O-Behavior - 1.3.6.1.4.1.19376.1.3.10.9.38

| | | | |
|-----------------------|--|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.10.9.38 | Effective Date | valid from 2015-12-03 09:11:54 |
| Status |  Draft | Version Label | 2.0 |
| Name | ICD-O-3Behavior | Display Name | ICD-O-3 Behavior |
| Description | Template CDA Observation (prototype, directly derived from POCD_RM000040 MIF) Behavior code | | |
| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.38 | | |
| Classification | CDA Entry Level Template | | |
| Open/Closed | Open (other than defined elements are allowed) | | |
| Used by / Uses | Used by 0 transactions and 1 template, Uses 1 template | | |
| | Used by | as | Name |
| | | | Version |

1.3.6.1.4.1.19376.1.3.10.4.3 Containment  ICD-O-3 Typing and Grading Observation (2.0) 2015-11-29 17:03:18

| Uses | as | Name | Version |
|------------------------------|---------|---|---------|
| 1.3.6.1.4.1.19376.1.3.10.9.1 | Include |  X Specimen Identified | DYNAMIC |

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 classCode="OBS" moodCode="EVN" negationInd="false">
  <templateId root="1.3.6.1.4.1.19376.1.3.10.9.38"/>
  <id root="1.2.3.999" extension="--example only--"/>
  <code code="246463000" codeSystem="2.16.840.1.113883.6.96" displayName="Behavior of tumor (attribute)"/>
  <statusCode code="completed"/>
  <effectiveTime>
    <low value="20170305122607"/>
  </effectiveTime>
  <value xsi:type="CV" code="3" displayName="/3" 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' (dynamic) 1..* R -->
</observation>
    
```

| Item | DT | Card | Conf | Description | Label |
|------------------|--------|--------|------|--|-------------|
| h17:observation | | 0 .. 1 | C | Behavior code from morphology axis, only used separately if it is deviant from the five digit morphology code | (ICD...ior) |
| └ @classCode | cs | 1 .. 1 | F | OBS | |
| └ @moodCode | cs | 1 .. 1 | F | EVN | |
| └ @negationInd | bl | 0 .. 1 | | | |
| └ h17:templateId | II | 1 .. 1 | M | | (ICD...ior) |
| └└ @root | uid | 1 .. 1 | F | 1.3.6.1.4.1.19376.1.3.10.9.38 | |
| └ h17:id | II | 0 .. * | R | | (ICD...ior) |
| └ h17:code | CD CNE | 1 .. 1 | M | | (ICD...ior) |
| | CONF | | | @code shall be "246463000" @codeSystem shall be "2.16.840.1.113883.6.96" @codeSystemName shall be "SNOMED CT" @displayName shall be "Behavior of tumor (attribute)" | |

| | | | | |
|-------------------|------------|--|---|---|
| | | | or | |
| | | | @code shall be "59847-4" | |
| | | | @codeSystem shall be "2.16.840.1.113883.6.1" | |
| | | | @codeSystemName shall be "LOINC" | |
| | | | @displayName shall be "Histology and Behavior ICD-O-3 Cancer" | |
| h17:text | ED | 0 ... 1 | R | (ICD...ior) |
| h17:statusCode | CS | 1 ... 1 | M | (ICD...ior) |
| | Constraint | 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. | | |
| | CONF | The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933 ActStatus (DYNAMIC) | | |
| h17:effectiveTime | IVL_TS | 0 ... 1 | R | (ICD...ior) |
| h17:value | CD | 1 ... 1 | R | (ICD...ior) |
| | 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 (DYNAMIC) | | |
| | 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 (DYNAMIC) |
| 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 2.0-3: 6.3.6.9 X Specimen identified |
| @typeCode | cs | 0 ... 1 | F | SPC |
| h17:specimenRole | | 1 ... 1 | M | PaLM Suppl. APSR 2.0-3: 6.3.6.9 X |

| | | | | | |
|------------|----|---------|---|----------------------------------|---|
| | | | | | Specimen identified |
| @classCode | cs | 0 ... 1 | F | SPEC | |
| h17:id | II | 1 ... 1 | R | Specimen ID, coming from the LIS | PaLM Suppl. APSR 2.0-3: 6.3.6.9 X Specimen identified |

Supportive Template ICD-O-Differentiation - 1.3.6.1.4.1.19376.1.3.10.9.39

| | | | |
|------------------------------|---|------------------------|--|
| Id | 1.3.6.1.4.1.19376.1.3.10.9.39 | Effective Date | valid from 2015-12-09 17:12:30 |
| Status | Draft | Version Label | 2.0 |
| Name | ICD-O-3Differentiation | Display Name | ICD-O-3 Differentiation |
| Description | Template CDA Observation (prototype, directly derived from POCD_RM000040 MIF) Differentiation, sive grading code | | |
| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.39 | | |
| Classification | CDA Entry Level Template | | |
| Open/Closed | Open (other than defined elements are allowed) | | |
| Used by / Uses | Used by 0 transactions and 1 template, Uses 2 templates | | |
| | Used by | as | Name |
| | 1.3.6.1.4.1.19376.1.3.10.4.3 | Containment | ICD-O-3 Typing and Grading Observation (2.0) |
| | Uses | as | Name |
| 1.3.6.1.4.1.19376.1.3.10.9.1 | Include | X Specimen Identified | |
| 2.16.840.1.113883.10.12.300 | Containment | CDA Clinical Statement | |
| 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



```
<observation classCode="OBS" moodCode="EVN" negationInd="false">
  <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="263522009" codeSystem="2.16.840.1.113883.6.96" displayName="Degree of differentiation (attribute)"/>
  <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' (dynamic) 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>
  <entryRelationship typeCode="EVN">
    <!-- template 2.16.840.1.113883.10.12.300 'CDA Clinical Statement' (dynamic) -->
  </entryRelationship>
</observation>
```

| Item | DT | Card | Conf | Description | Label |
|------------------|--------|---------|------|--|-------------|
| hl7:observation | | 0 ... 1 | R | | (ICD...ion) |
| └ @classCode | CS | 1 ... 1 | F | OBS | |
| └ @moodCode | CS | 1 ... 1 | F | EVN | |
| └ @negationInd | bl | 0 ... 1 | | | |
| └ hl7:templateId | II | 1 ... 1 | M | | (ICD...ion) |
| └└ @root | uid | 1 ... 1 | F | 1.3.6.1.4.1.19376.1.3.10.9.39 | |
| └ hl7:id | II | 0 ... * | R | | (ICD...ion) |
| └ hl7:code | CD CNE | 1 ... 1 | R | | (ICD...ion) |
| | CONF | | | @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 "59847-4" | |

| | | | | | |
|---------------------|---------|--|---|---|---|
| | | | | @codeSystem shall be "2.16.840.1.113883.6.1" @codeSystemName shall be "LOINC" @displayName shall be "Histology and Behavior ICD-O-3 Cancer" | |
| └ h17:statusCode | CS | 1 ... 1 | M | | (ICD...ion) |
| | CONF | | | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.2 (DYNAMIC) ❗ Error: Cannot find value set "1.3.6.1.4.1.19376.1.3.11.2" | |
| └ h17:effectiveTime | IVL_TS | 1 ... 1 | M | | (ICD...ion) |
| └ h17:value | CD | 1 ... 1 | R | | (ICD...ion) |
| | CONF | | | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.35 ICD-O-3 Differentiation (DYNAMIC) | |
| | 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 Specimen Identified (DYNAMIC) | |
| └ 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 2.0-3: 6.3.6.9 X Specimen identified |
| └ @typeCode | cs | 0 ... 1 | F | SPC | |
| └ h17:specimenRole | | 1 ... 1 | M | | PaLM Suppl. APSR 2.0-3: 6.3.6.9 X Specimen identified |
| └ @classCode | cs | 0 ... 1 | F | SPEC | |
| └ h17:id | II | 1 ... 1 | R | Specimen ID, coming from the LIS | PaLM Suppl. |

| | | | | | |
|-----------------------|----|-----------|-----|---|---|
| | | | | | APSR 2.0-3: 6.3.6.9 X Specimen identified |
| h17:entryRelationship | | 0 ... * R | | Contains 2.16.840.1.113883.10.12.300 CDA Clinical Statement (DYNAMIC) | (ICD...ion) |
| @typeCode | cs | 1 ... 1 F | EVN | | |

Supportive Template ICD-O-Topography - 1.3.6.1.4.1.19376.1.3.10.9.41

| | | | |
|-----------------------|---|---|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.10.9.41 | Effective Date | valid from 2015-11-16 18:38:07 |
| Status |  Draft | Version Label | 2.0 |
| Name | ICD-O-3Topography | Display Name | ICD-O-3 Topography |
| Description | Template CDA Observation (prototype, directly derived from POCD_RM000040 MIF) | | |
| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.41 | | |
| Classification | CDA Entry Level Template | | |
| Open/Closed | Open (other than defined elements are allowed) | | |
| Used by / Uses | Used by 0 transactions and 0 templates, Uses 1 template | | |
| | Uses | as | Name |
| | 1.3.6.1.4.1.19376.1.3.10.9.1 | Include  | X Specimen Identified |
| | | | Version |
| | | | DYNAMIC |
| Relationship | Specialization: template 1.3.6.1.4.1.19376.1.8.1.4.9 (2014-05-14 17:09:54) | | |
| Example | <p>example for use case #1</p> <pre><observation classCode="OBS" moodCode="EVN" negationInd="false"> <templateId root="1.3.6.1.4.1.19376.1.3.10.9.41"/> <id root="1.3.6.1.4.1.19376.1.8.9.1" extension="A7102400008_ICDO_T"/> <code code="42129-7" codeSystem="2.16.840.1.113883.6.1" displayName="Site coding system.current"/> <statusCode code="completed"/> <effectiveTime> <low value="201001041405-0500"/> </effectiveTime> <value xsi:type="CV" code="C50.4" displayName="Breast, upper outer quadrant" codeSystem="2.16.840.1.113883.6.43.1"/> </observation></pre> | | |

```

<qualifier>
  <name code="20228-3" codeSystem="2.16.840.1.113883.6.1" displayName="Anatomic part Laterality"/>
  <value value="L" codeSystem="2.16.840.1.113883.6.1" displayName="Left"/>
</qualifier>
</value>
<!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (dynamic) 1..* R -->
<specimen typeCode="SPC">
  <specimenRole classCode="SPEC">
    <id root="1.3.6.1.4.1.19376.1.8.9.1" extension="A7102400008_slide_AI_HE"/>
  </specimenRole>
</specimen>
</observation>

```

| Item | DT | Card | Conf | Description | Label |
|------------------|--------|--------|------|---|-------------|
| h17:observation | | 0 .. 1 | R | | (ICD...phy) |
| └ @classCode | CS | 0 .. 1 | F | OBS | |
| └ @moodCode | CS | 1 .. 1 | F | EVN | |
| └ @negationInd | bl | 0 .. 1 | | | |
| └ h17:templateId | II | 1 .. 1 | M | | (ICD...phy) |
| └└ @root | uid | 1 .. 1 | F | 1.3.6.1.4.1.19376.1.3.10.9.41 | |
| └ h17:id | II | 0 .. * | R | | (ICD...phy) |
| └ h17:code | CD CWE | 1 .. 1 | M | | (ICD...phy) |
| | CONF | | | @code shall be "42129-7" @codeSystem shall be "2.16.840.1.113883.6.1" @codeSystemName shall be "LOINC" @displayName shall be "Site coding system.current" or @code shall be "371480007" @codeSystem shall be "2.16.840.1.113883.6.96" @codeSystemName shall be "SNOMED CT" @displayName shall be "Tumor site (observable entity)" | |

| | | | | | |
|----|---------------------|------------|---|--|---|
| 02 | └ h17:statusCode | CS CNE | 1 ... 1 M | | (ICD...phy) |
| 03 | | CONF | The value of @code shall be drawn from value set 1.3.6.1.4.1.19376.1.3.11.2 (DYNAMIC) | | |
| 04 | | | ❗ Error: Cannot find value set "1.3.6.1.4.1.19376.1.3.11.2" | | |
| 05 | └ h17:effectiveTime | IVL_TS | 0 ... 1 R | | (ICD...phy) |
| 06 | └ h17:value | CV | 1 ... 1 R | Codes for topography axis (C-axis) of ICD-O-3 | (ICD...phy) |
| 07 | | 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 (DYNAMIC) | | |
| 08 | | Example | for use case #1 | | |
| 09 | | | <code><value xsi:type="CV" code="50.3" displayName="C50.3" codeSystem="2.16.840.1.113883.6.43.1"/></code> | | |
| 10 | └ h17:qualifier | CR CWE | 0 ... 1 C | Code system for laterality | (ICD...phy) |
| 11 | | Constraint | For reports to German cancer registries | | |
| 12 | └ h17:name | CV CNE | 1 ... 1 R | | (ICD...phy) |
| 13 | └ └ @code | CONF | 1 ... 1 F | 20228-3 | |
| 14 | └ └ @codeSystem | | 1 ... 1 F | 2.16.840.1.113883.6.1 (Logical Observation Identifier Names and Codes) | |
| 15 | └ └ @codeSystemName | | 1 ... 1 F | LOINC | |
| 16 | └ └ @displayName | | 1 ... 1 F | Anatomic part Laterality | |
| 17 | └ h17:value | CV CNE | 1 ... 1 R | | (ICD...phy) |
| 18 | | CONF | The value of @code shall be drawn from value set 1.2.276.0.76.11.412 Lateralität (DYNAMIC) | | |
| 19 | Included | | 1 ... * R | from 1.3.6.1.4.1.19376.1.3.10.9.1 X Specimen Identified (DYNAMIC) | |
| 20 | └ 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 2.0-3: 6.3.6.9 X Specimen identified |

| | | | | | |
|--------------------|----|---------|---|----------------------------------|---|
| L @typeCode | CS | 0 ... 1 | F | SPC | PaLM Suppl. APSR 2.0-3: 6.3.6.9 X Specimen identified |
| L h17:specimenRole | | 1 ... 1 | M | | |
| L @classCode | CS | 0 ... 1 | F | SPEC | PaLM Suppl. APSR 2.0-3: 6.3.6.9 X Specimen identified |
| L h17:id | II | 1 ... 1 | R | Specimen ID, coming from the LIS | |

6.3.6.12 Assessment Scales for Scoring systems - 1.3.6.1.4.1.19376.1.3.10.4.4

6.3.6.12.1 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.

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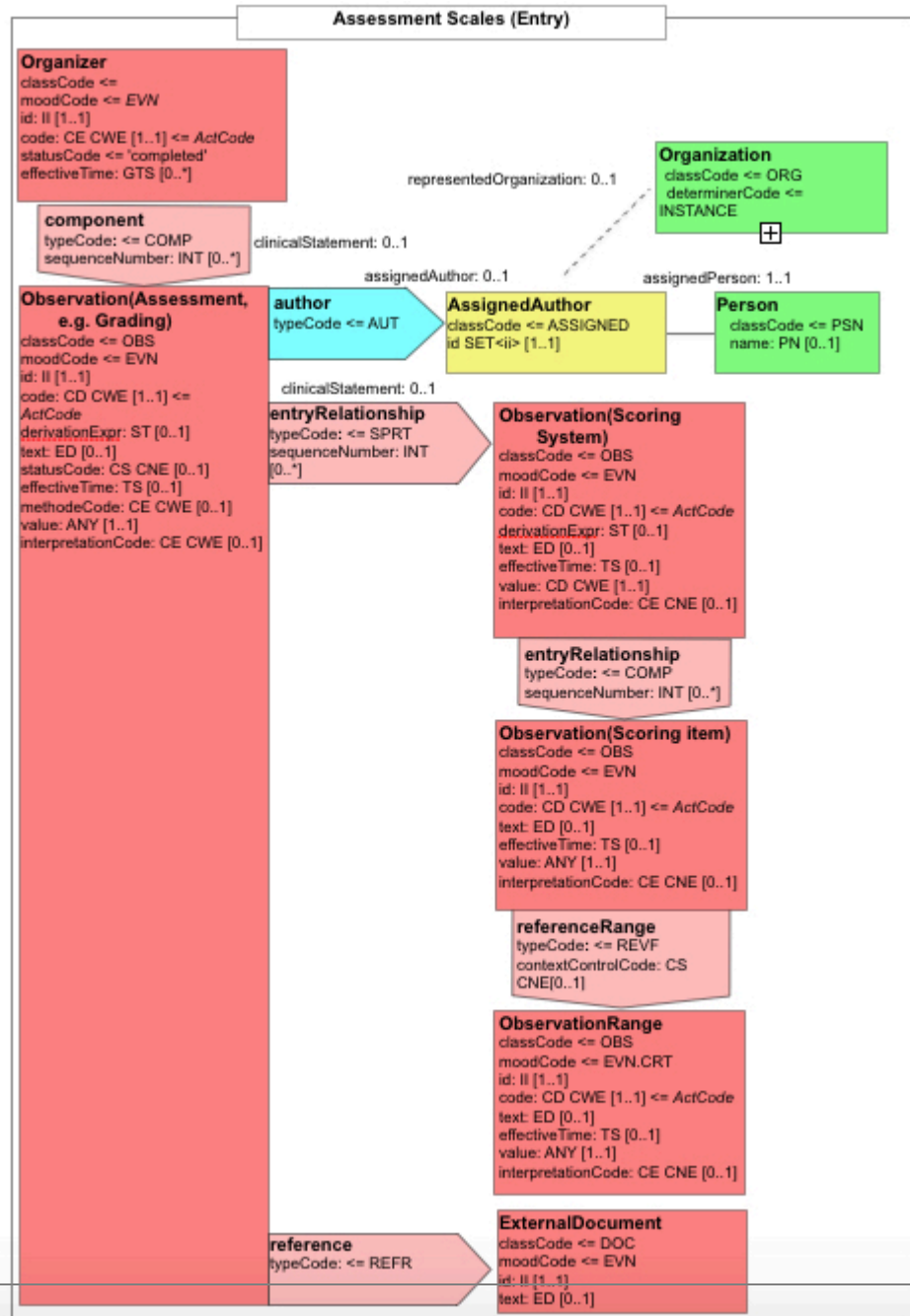






Figure 6.3.6.12.1-1 CDA-RMIM of an Assessment Scales <entry>

6.3.6.12.2 Specification and Example

Assessment Scales Observation for Scoring Systems APSR2 - 1.3.6.1.4.1.19376.1.3.10.4.4

| | | | |
|---|--|--|---|
| Id | 1.3.6.1.4.1.19376.1.3.10.4.4 | Effective Date | valid from 2016-10-06 13:12:00 There are versions of templates with this id: <ul style="list-style-type: none"> AssessmentScalesObservationScoringSystemsAPSR as of 2016-10-06 13:12:00 AssessmentScalesScoringSystemsAPSR as of 2016-10-06 12:36:29 CDASupplyContainerAPSR2 as of 2016-07-29 |
| Status |  Draft | Version Label | 2.0 |
| Name | AssessmentScalesObservationScoringSystemsAPSR | Display Name | Assessment Scales Observation for Scoring Systems APSR2 |
| Description | | | |
| 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 | | | |
| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.4.4 | | |
| Label | PaLM Suppl. APSR 2.0-3: 6.3.6.12 Assessment scales | | |
| Classification | CDA Entry Level Template | | |
| Open/Closed | Closed (only defined elements are allowed) | | |
| Used by 0 transactions and 1 template, Uses 7 templates | | | |
| Used by / Uses | Used by | as | Name |
| | 1.3.6.1.4.1.19376.1.3.10.4.3 | Containment  | ICD-O-3 Typing and Grading Observation (2.0) |
| | Uses | as | Name |
| 1.3.6.1.4.1.19376.1.3.3.1.7 | Containment  | Laboratory Performer (2017) | DYNAMIC |
| 1.3.6.1.4.1.19376.1.8.1.4.2 | Containment  | CDA author IHE | DYNAMIC |

| | | | |
|-------------------------------|-------------|--|---------|
| 1.3.6.1.4.1.19376.1.8.1.4.6 | Containment | ● CDA Informant(Header&Body) APSR2 (2.0) | DYNAMIC |
| 1.3.6.1.4.1.19376.1.8.1.4.7 | Containment | ● Additional participant in an entry APSR (Body) | DYNAMIC |
| 1.3.6.1.4.1.19376.1.3.10.9.1 | Include | ● X Specimen Identified | DYNAMIC |
| 1.3.6.1.4.1.19376.1.3.10.9.42 | Containment | ● Assessment Scoring System APSR 2.0 (2.0) | DYNAMIC |
| 2.16.840.1.113883.10.12.324 | Containment | ● CDA Reference | DYNAMIC |

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 Score

```

<observation classCode="OBS" moodCode="EVN" negationInd="false">
  <templateId root="1.3.6.1.4.1.19376.1.3.10.4.4"/>
  <id root="1.2.3.999" extension="--example only--"/>
  <code code="273249006" codeSystem="2.16.840.1.113883.6.96" displayName="Assessment scales"/>
  <derivationExpr text="sum"/>
  <text/>
  <statusCode code="completed"/>
  <effectiveTime>
    <low value="20170711113628"/>
  </effectiveTime>
  <priorityCode code="R" displayName="routine" codeSystem="2.16.840.1.113883.5.7"/>
  <repeatNumber/>
  <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' (dynamic) -->
  </performer>
  <author>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.2 'CDA author IHE' (dynamic) -->
  </author>
  <informant>
    <!-- template 1.3.6.1.4.1.19376.1.8.1.4.6 'CDA Informant(Header&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>
  <!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (dynamic) 0..* R -->
  <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' (dynamic) -->
  </entryRelationship>
  <reference>
    <!-- template 2.16.840.1.113883.10.12.324 'CDA Reference' (dynamic) -->
  </reference>
  <referenceRange typeCode="REFV">
    <observationRange classCode="OBS" moodCode="EVN.CRT">
      <code code="---code--" codeSystem="2.16.840.1.113883.5.4"/>
      <text/>
      <value xsi:type="ANY"/>
      <interpretationCode code="CAR" displayName="Carrier" codeSystem="2.16.840.1.113883.5.83"/>
    </observationRange>
  </referenceRange>

```

Example

```

</observationRange>
</referenceRange>
</observation>
    
```









| Item | DT | Card | Conf | Description | Label |
|----------------------|---------|---------|------|--|-------------|
| h17:observation | | 0 ... 1 | R | | PaLM...ales |
| └ @classCode | cs | 0 ... 1 | F | OBS | |
| └ @moodCode | cs | 1 ... 1 | F | EVN | |
| └ @negationInd | bl | 0 ... 1 | | | |
| └ h17:templateId | II | 1 ... 1 | M | | PaLM...ales |
| └└ @root | uid | 1 ... 1 | F | 1.3.6.1.4.1.19376.1.3.10.4.4 | |
| └ h17:id | II | 0 ... * | R | | PaLM...ales |
| └ h17:code | CE CWE | 1 ... 1 | M | Assessment scale, e.g. grading by scoring | PaLM...ales |
| | CONF | | | @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 shall be drawn from value set 2.16.840.1.113883.1.11.19918 <i>ActCoverageAssessmentObservationValue</i> (DYNAMIC) | |
| | Example | | | for use case #1 <pre><code code="273249006" codeSystem="2.16.840.1.113883.6.96" displayName="Assessment scales (assessment scale)"/></pre> | |
| └ h17: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...ales |
| └ h17:text | ED | 0 ... 1 | R | | PaLM...ales |
| | Example | | | for use case #1 <pre><text>Nottingham combined grad I (1 of 3)</text></pre> | |

| | | | | | |
|------------------------|------------|--|---|--|-------------|
| h17:statusCode | CS | 1 ... 1 | M | | PaLM...ales |
| | Constraint | 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. | | | |
| | CONF | The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933 <i>ActStatus</i> (DYNAMIC) | | | |
| h17:effectiveTime | IVL_TS | 1 ... 1 | M | | PaLM...ales |
| h17:priorityCode | CE | 0 ... 1 | | | PaLM...ales |
| | CONF | The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.16866 <i>ActPriority</i> (DYNAMIC) | | | |
| h17:repeatNumber | IVL_INT | 0 ... 1 | | | PaLM...ales |
| h17:value | ANY | 1 ... * | R | 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 | PaLM...ales |
| | Example | for use case #1, Nottingham combined grade I <value value="1"/> | | | |
| h17:interpretationCode | CE | 0 ... * | R | | PaLM...ales |
| | CONF | The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.78 <i>ObservationInterpretation</i> (DYNAMIC) | | | |
| h17:methodCode | CE | 0 ... * | R | | PaLM...ales |
| @code | CONF | 1 ... 1 | F | 0114 | |
| @codeSystem | | 1 ... 1 | F | 2.16.840.1.113883.1.11.14079 | |
| @codeSystemName | | 1 ... 1 | F | HL7 | |
| @displayName | | 1 ... 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> (DYNAMIC) | PaLM...ales |

| | Constraint | The performing laboratory is present at this level only if this particular observation was performed by a (sub-contractor) laboratory distinct from the one issuing the rest of the observations in this organizer. | | | |
|--------------------|------------|---|---|--|---|
| L 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 CDA author IHE (DYNAMIC) | PaLM...ales |
| L 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 CDA Informant(Header&Body) APSR2 (DYNAMIC) | PaLM...ales |
| 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 Additional participant in an entry APSR (Body) (DYNAMIC) | PaLM...ales |
| Included | | 0 ... * | R | from 1.3.6.1.4.1.19376.1.3.10.9.1 X Specimen Identified (DYNAMIC) | |
| L 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 2.0-3: 6.3.6.9 X Specimen identified |
| L @typeCode | cs | 0 ... 1 | F | SPC | |
| L h17:specimenRole | | 1 ... 1 | M | | PaLM Suppl. APSR 2.0-3: 6.3.6.9 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 2.0-3: |

| | | | | | |
|--------------------------|------|---------|---|---|-------------------------------------|
| | | | | | 6.3.6.9 X Specimen identified |
| └ h17:entryRelationship | | 0 ... * | R | Contains 1.3.6.1.4.1.19376.1.3.10.9.42 <i>Assessment Scoring System APSR 2.0</i> (DYNAMIC) | PaLM...ales |
| └ @typeCode | CS | 1 ... 1 | F | SPRT | |
| └ h17:sequenceNumber | INT | 0 ... 1 | | | PaLM...ales |
| └ h17:reference | | 0 ... * | R | Contains 2.16.840.1.113883.10.12.324 <i>CDA Reference</i> (DYNAMIC) | PaLM...ales |
| └ h17:referenceRange | | 0 ... * | R | | PaLM...ales |
| └ @typeCode | CS | 1 ... 1 | F | REFV | |
| └ h17:observationRange | | 1 ... 1 | R | | PaLM...ales |
| └ @classCode | CS | 0 ... 1 | F | OBS | |
| └ @moodCode | CS | 0 ... 1 | F | EVN.CRT | |
| └ h17:code | CD | 0 ... 1 | | | PaLM...ales |
| └ @codeSystem | CONF | 1 ... 1 | F | 2.16.840.1.113883.5.4 (Act Code) | |
| └ h17:text | ED | 0 ... 1 | | | PaLM...ales |
| └ h17:value | ANY | 0 ... 1 | | | PaLM...ales |
| └ h17:interpretationCode | CE | 0 ... 1 | | | PaLM...ales |
| | CONF | | | The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.78 <i>ObservationInterpretation</i> (DYNAMIC) | |

Supportive Template Assessment Scoring System - 1.3.6.1.4.1.19376.1.3.10.9.42

| | | | |
|-----------------------------|---|--|---|
| Id | 1.3.6.1.4.1.19376.1.3.10.9.42 | Effective Date | valid from 2016-10-10 11:33:36 |
| Status |  Draft | Version Label | 2.0 |
| Name | AssessmentScoringSystemAPSR2.0 | Display Name | Assessment Scoring System APSR 2.0 |
| Description | Supportive Observation entry for describing a scoring system | | |
| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.42 | | |
| Classification | CDA Entry Level Template | | |
| Open/Closed | Open (other than defined elements are allowed) | | |
| Used by / Uses | Used by 0 transactions and 2 templates, Uses 4 templates | | |
| | Used by | as | Name |
| | 1.3.6.1.4.1.19376.1.3.10.4.4 | Containment |  Assessment Scales Observation for Scoring Systems APSR2 (2.0) |
| | 1.3.6.1.4.1.19376.1.3.10.4.3 |  |  ICD-O-3 Typing and Grading Observation (2.0) |
| | Uses | as | Name |
| | 1.3.6.1.4.1.19376.1.3.10.9.1 | Include |  X Specimen Identified |
| | 1.3.6.1.4.1.19376.1.3.10.9.43 | Containment |  Assessment Scoring Item APSR 2.0 (2.0) |
| 2.16.840.1.113883.10.12.324 | Containment |  CDA Reference | |
| 2.16.840.1.113883.10.12.329 | Containment |  CDA Precondition | |
| Relationship | Specialization: template 1.3.6.1.4.1.19376.1.8.1.4.9 (2014-05-14 17:09:54) | | |
| Example | generated example for use case #1, ER-Allred Score | | |
| | <pre> <observation negationInd="false" classCode="OBS" moodCode="EVN"> <templateId root="1.3.6.1.4.1.19376.1.3.10.9.42"/> <id root="1.2.3.999" extension="--example only--"/> <code code="278061009 Scores (qualifier value) " codeSystem="2.16.840.1.113883.6.96" displayName="Score"/> <derivationExpr text="sum"/> <text/> <statusCode code="completed"/> <effectiveTime> <low value="20170224134516"/> </effectiveTime> <value code="445104009" codeSystem="2.16.840.1.113883.6.96" displayName="Sum of proportion of positive staining neoplastic cells 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"/> <!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (dynamic) 1..* R --> <entryRelationship negationInd="false" typeCode="COMP" inversionInd="false" contextConductionInd="true"> <sequenceNumber value="1"/> <seperatableInd value="false"/> <!-- template 1.3.6.1.4.1.19376.1.3.10.9.43 'Assessment Scoring Item APSR 2.0' (dynamic) --> </pre> | | |

```

</entryRelationship>
<reference>
  <!-- template 2.16.840.1.113883.10.12.324 'CDA Reference' (dynamic) -->
</reference>
<precondition>
  <!-- template 2.16.840.1.113883.10.12.329 'CDA Precondition' (dynamic) -->
</precondition>
<referenceRange typeCode="REFV">
  <observationRange classCode="OBS" moodCode="EVN.CRT">
    <code code="--code--" codeSystem="2.16.840.1.113883.5.4"/>
    <text/>
    <value xsi:type="ANY"/>
    <interpretationCode code="EXP" displayName="Expected" codeSystem="2.16.840.1.113883.5.83"/>
  </observationRange>
</referenceRange>
</observation>

```


| Item | DT | Card | Conf | Description | Label |
|-------------------|--------|---------|------|---|-------------|
| h17:observation | | 0 ... 1 | R | | (Ass...2.0) |
| └ @classCode | cs | 1 ... 1 | F | OBS | |
| └ @moodCode | cs | 1 ... 1 | F | EVN | |
| └ @negationInd | bl | 0 ... 1 | | | |
| └ h17:templateId | II | 1 ... 1 | M | | (Ass...2.0) |
| └ @root | uid | 1 ... 1 | F | 1.3.6.1.4.1.19376.1.3.10.9.42 | |
| └ h17:id | II | 0 ... * | R | | (Ass...2.0) |
| └ h17:code | CV CWE | 1 ... 1 | M | | (Ass...2.0) |
| └ @code | CONF | 1 ... 1 | | @code shall be out of choice: <ul style="list-style-type: none"> 246262008 Score (attribute) . | |
| └ @codeSystem | | 1 ... 1 | F | 2.16.840.1.113883.6.96 (SNOMED Clinical Terms) | |
| └ @codeSystemName | | 1 ... 1 | F | SCT | |
| | | | | | |

| | | | | |
|----------------------|------------|-----------|---|------------------------|
| └ @displayName | | 1 ... 1 F | Score | |
| └ h17: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. | (Ass...2.0) |
| └ h17:text | ED | 0 ... 1 R | Scoring system used | (Ass...2.0) |
| └ h17:statusCode | CS CNE | 1 ... 1 M | | (Ass...2.0) |
| | Constraint | | 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. | |
| | CONF | | The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933 <i>ActStatus</i> (DYNAMIC) | |
| └ h17:effectiveTime | IVL_TS | 0 ... 1 R | | (Ass...2.0) |
| └ h17:value | CE CWE | 1 ... * R | | (Ass...2.0) |
| | CONF | | @code shall be "any codes from 395531003 Tumor observable (observable entity) " @codeSystem shall be "2.16.840.1.113883.6.96" @codeSystemName shall be "SCT" @displayName shall be "any score systems from Tumor observables" or @code shall be "any codes from 273249006 Assessment scales" @codeSystem shall be "2.16.840.1.113883.6.96" @codeSystemName shall be "SCT" @displayName shall be "any score systems from Assessment scales" | |
| └ h17:methodCode | CE | 0 ... * R | | (Ass...2.0) |
| | CONF | | The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.14079 <i>ObservationMethod</i> (DYNAMIC) | |
| Included | | 1 ... * R | from 1.3.6.1.4.1.19376.1.3.10.9.1 <i>X Specimen Identified</i> (DYNAMIC) | |
| └ 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 |

| | | | | | |
|-------------------------|-----|---------|---|--|---|
| | | | | | 2.0-3: 6.3.6.9 X Specimen identified |
| └ @typeCode | cs | 0 ... 1 | F | SPC | |
| └ h17:specimenRole | | 1 ... 1 | M | | PaLM Suppl. APSR 2.0-3: 6.3.6.9 X Specimen identified |
| └ @classCode | cs | 0 ... 1 | F | SPEC | |
| └ h17:id | II | 1 ... 1 | R | Specimen ID, coming from the LIS | PaLM Suppl. APSR 2.0-3: 6.3.6.9 X Specimen identified |
| └ 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> (DYNAMIC) | (Ass...2.0) |
| └ @typeCode | cs | 1 ... 1 | F | COMP | |
| └ @contextConductionInd | bl | 0 ... 1 | F | true | |
| └ @inversionInd | bl | 0 ... 1 | | | |
| └ @negationInd | bl | 0 ... 1 | | | |
| └ h17:sequenceNumber | INT | 0 ... 1 | | | (Ass...2.0) |
| └ h17:seperatableInd | BL | 0 ... 1 | | | (Ass...2.0) |
| └ h17:reference | | 0 ... * | R | Contains 2.16.840.1.113883.10.12.324 <i>CDA Reference</i> (DYNAMIC) | (Ass...2.0) |

| | | | | | |
|------------------------|------|--|---|---|-------------|
| h17:precondition | | 0 ... * | R | Contains 2.16.840.1.113883.10.12.329 CDA Precondition (DYNAMIC) | (Ass...2.0) |
| h17:referenceRange | | 0 ... * | R | | (Ass...2.0) |
| @typeCode | CS | 1 ... 1 | F | REFV | |
| h17:observationRange | | 1 ... 1 | R | | (Ass...2.0) |
| @classCode | CS | 0 ... 1 | F | OBS | |
| @moodCode | CS | 0 ... 1 | F | EVN.CRT | |
| h17:code | CD | 0 ... 1 | R | | (Ass...2.0) |
| @codeSystem | CONF | 1 ... 1 | F | 2.16.840.1.113883.5.4 (Act Code) | |
| h17:text | ED | 0 ... 1 | R | | (Ass...2.0) |
| h17:value | ANY | 0 ... 1 | R | | (Ass...2.0) |
| h17:interpretationCode | CE | 0 ... 1 | R | | (Ass...2.0) |
| | CONF | The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.78 ObservationInterpretation (DYNAMIC) | | | |

Supportive Template Assessment Scoring Item - 1.3.6.1.4.1.19376.1.3.10.9.43

| | | | |
|---------------|---|-----------------------|----------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.10.9.43 | Effective Date | valid from 2016-10-11 10:26:17 |
| Status |  Draft | Version Label | 2.0 |
| Name | AssessmentScoringItemAPSR2.0 | Display Name | 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

| | |
|----------------|--|
| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.10.9.43 |
|----------------|--|

| Classification | CDA Entry Level Template | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|--|--|---|------------------------|---------|-------------------------------|-------------|--|------------------------|------------------------------|-------------|---|------------------------|------------------------------|-------------|--|------------------------|-----------------------------|-------------|--|---------|------------------------------|---------|-----------------------|
| Open/Closed | Open (other than defined elements are allowed) | | | | | | | | | | | | | | | | | | | | | | | |
| Used by / Uses | Used by 0 transactions and 3 templates, Uses 5 templates | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Used by</th> <th>as</th> <th>Name</th> <th>Version</th> </tr> </thead> <tbody> <tr> <td>1.3.6.1.4.1.19376.1.3.10.9.42</td> <td>Containment</td> <td> Assessment Scoring System APSR 2.0 (2.0)</td> <td>2016-10-10 11:33:36</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.3.10.4.4</td> <td></td> <td> Assessment Scales Observation for Scoring Systems APSR2 (2.0)</td> <td>2016-10-06 13:12:00</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.3.10.4.3</td> <td></td> <td> ICD-O-3 Typing and Grading Observation (2.0)</td> <td>2015-11-29 17:03:18</td> </tr> </tbody> </table> | Used by | as | Name | Version | 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 | 1.3.6.1.4.1.19376.1.3.10.4.4 | | Assessment Scales Observation for Scoring Systems APSR2 (2.0) | 2016-10-06 13:12:00 | 1.3.6.1.4.1.19376.1.3.10.4.3 | | ICD-O-3 Typing and Grading Observation (2.0) | 2015-11-29 17:03:18 | | | | | | | |
| | Used by | as | Name | Version | | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | | |
| | 1.3.6.1.4.1.19376.1.3.10.4.4 | | Assessment Scales Observation for Scoring Systems APSR2 (2.0) | 2016-10-06 13:12:00 | | | | | | | | | | | | | | | | | | | | |
| | 1.3.6.1.4.1.19376.1.3.10.4.3 | | ICD-O-3 Typing and Grading Observation (2.0) | 2015-11-29 17:03:18 | | | | | | | | | | | | | | | | | | | | |
| | <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>DYNAMIC</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.8.1.4.2</td> <td>Containment</td> <td> CDA author IHE</td> <td>DYNAMIC</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.8.1.4.6</td> <td>Containment</td> <td> CDA Informant(Header&Body) APSR2 (2.0)</td> <td>DYNAMIC</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 APSR (Body)</td> <td>DYNAMIC</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.3.10.9.1</td> <td>Include</td> <td> X Specimen Identified</td> <td>DYNAMIC</td> </tr> </tbody> </table> | Uses | as | Name | Version | 1.3.6.1.4.1.19376.1.3.3.1.7 | Containment | Laboratory Performer (2017) | DYNAMIC | 1.3.6.1.4.1.19376.1.8.1.4.2 | Containment | CDA author IHE | DYNAMIC | 1.3.6.1.4.1.19376.1.8.1.4.6 | Containment | CDA Informant(Header&Body) APSR2 (2.0) | DYNAMIC | 1.3.6.1.4.1.19376.1.8.1.4.7 | Containment | Additional participant in an entry APSR (Body) | DYNAMIC | 1.3.6.1.4.1.19376.1.3.10.9.1 | Include | X Specimen Identified |
| Uses | as | Name | Version | | | | | | | | | | | | | | | | | | | | | |
| 1.3.6.1.4.1.19376.1.3.3.1.7 | Containment | Laboratory Performer (2017) | DYNAMIC | | | | | | | | | | | | | | | | | | | | | |
| 1.3.6.1.4.1.19376.1.8.1.4.2 | Containment | CDA author IHE | DYNAMIC | | | | | | | | | | | | | | | | | | | | | |
| 1.3.6.1.4.1.19376.1.8.1.4.6 | Containment | CDA Informant(Header&Body) APSR2 (2.0) | DYNAMIC | | | | | | | | | | | | | | | | | | | | | |
| 1.3.6.1.4.1.19376.1.8.1.4.7 | Containment | Additional participant in an entry APSR (Body) | DYNAMIC | | | | | | | | | | | | | | | | | | | | | |
| 1.3.6.1.4.1.19376.1.3.10.9.1 | Include | X Specimen Identified | DYNAMIC | | | | | | | | | | | | | | | | | | | | | |
| Relationship | Specialization: template 1.3.6.1.4.1.19376.1.8.1.4.9 (2014-05-14 17:09:54) | | | | | | | | | | | | | | | | | | | | | | | |
| Example | <div style="background-color: #ffffcc; padding: 5px;">example for use case #1: ER-Allred Percentage Score Item</div> <pre> <observation classCode="OBS" moodCode="EVN" negationInd="false"> <templateId root="1.3.6.1.4.1.19376.1.3.10.9.43"/> <id root="1.2.3.999" extension="--example only--"/> <code code="444644009" displayName="Number fraction of estrogen receptors in neoplasm using immune stain (observable entity)" codeSystem="2.16.840.1.113883.6.96"/> <text/> <statusCode code="completed"/> <effectiveTime> <low value="20170224122203"/> </effectiveTime> <value xsi:type="PQ" value="85" unit=""/> <interpretationCode code="A" displayName="abnormal" codeSystem="2.16.840.1.113883.5.83"/> <referenceRange typeCode="REVF"> <observationRange classCode="OBS" moodCode="EVN.CRT"> <code code="" codeSystem="2.16.840.1.113883.5.4" displayName=""/> <text/> <effectiveTime value="20170224122203"/> <value/> <interpretation code="A" displayName="abnormal" codeSystem="2.16.840.1.113883.5.83"/> </observationRange> </referenceRange> </!-- include template 1.3.6.1.4.1.19376.1.3.10.9.1 'X Specimen Identified' (dynamic) 0..* R --> </pre> | | | | | | | | | | | | | | | | | | | | | | | |

```

<performer>
  <!-- template 1.3.6.1.4.1.19376.1.3.3.1.7 'Laboratory Performer' (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(Header&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>
</observation>
  
```

| Item | DT | Card | Conf | Description | Label |
|------------------|------------|--|------|-------------------------------|-------------|
| h17:observation | | 0 ... * | R | | (Ass...2.0) |
| └ @classCode | CS | 1 ... 1 | F | OBS | |
| └ @moodCode | CS | 1 ... 1 | F | EVN | |
| └ @negationInd | bl | 0 ... 1 | | | |
| └ h17:templateId | II | 1 ... 1 | M | | (Ass...2.0) |
| └└ @root | uid | 1 ... 1 | F | 1.3.6.1.4.1.19376.1.3.10.9.43 | |
| └ h17:id | II | 0 ... * | R | | (Ass...2.0) |
| └ h17:code | CE CWE | 1 ... 1 | M | | (Ass...2.0) |
| | 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 | | (Ass...2.0) |
| └ h17:statusCode | CS CNE | 1 ... 1 | M | | (Ass...2.0) |
| | Constraint | 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. | | | |

| | | | | |
|--------------------------|---------|---------------------------------------|---|---|
| | | CONF | The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.15933 <i>ActStatus</i> (DYNAMIC) | |
| └ h17:effectiveTime | IVL_TS | 0 ... 1 | R | (Ass...2.0) |
| └ h17:value | INT | 1 ... 1 | R | Single numerical score item of a scoring system, e.g. "2" for Breast tubule formation (Ass...2.0) |
| | Example | for use case #1 <value value="2"/> | | |
| └ h17:interpretationCode | CE CWE | 0 ... 1 | R | (Ass...2.0) |
| | | CONF | The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.78 <i>ObservationInterpretation</i> (DYNAMIC) | |
| └ h17:referenceRange | | 0 ... 1 | R | (Ass...2.0) |
| └ @typeCode | cs | 1 ... 1 | F | REVF |
| └ h17:observationRange | | 0 ... 1 | R | (Ass...2.0) |
| └ @classCode | cs | 1 ... 1 | F | OBS |
| └ @moodCode | cs | 1 ... 1 | F | EVN.CRT |
| └ h17:code | CD CWE | 1 ... 1 | R | (Ass...2.0) |
| └ @codeSystem | CONF | 1 ... 1 | F | 2.16.840.1.113883.5.4 (Act Code) |
| └ h17:text | ED | 0 ... 1 | R | (Ass...2.0) |
| └ h17:effectiveTime | TS | 0 ... 1 | R | (Ass...2.0) |
| └ h17:value | ANY | 1 ... 1 | R | (Ass...2.0) |
| └ h17:interpretation | CD CWE | 0 ... 1 | R | (Ass...2.0) |
| | | CONF | The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.78 <i>ObservationInterpretation</i> (DYNAMIC) | |
| └ h17:methodCode | CE CWE | 0 ... 1 | R | (Ass...2.0) |

| | | | | | |
|--------------------|----|---------|---|---|---|
| | | CONF | | The value of @code shall be drawn from value set 2.16.840.1.113883.1.11.14079 <i>ObservationMethod</i> (DYNAMIC) | |
| L h17:performer | 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> (DYNAMIC) | (Ass...2.0) |
| L 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>CDA author IHE</i> (DYNAMIC) | (Ass...2.0) |
| L 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>CDA Informant(Header&Body) APSR2</i> (DYNAMIC) | (Ass...2.0) |
| 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 APSR (Body)</i> (DYNAMIC) | (Ass...2.0) |
| Included | | 1 ... * | M | from 1.3.6.1.4.1.19376.1.3.10.9.1 X <i>Specimen Identified</i> (DYNAMIC) | |
| L 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 2.0-3: 6.3.6.9 X Specimen identified |
| L @typeCode | cs | 0 ... 1 | F | SPC | |
| L h17:specimenRole | | 1 ... 1 | M | | PaLM Suppl. APSR 2.0-3: 6.3.6.9 X |

| | | | | | |
|--------------|----|---------|---|----------------------------------|---|
| | | | | | Specimen identified |
| L @classCode | CS | 0 ... 1 | F | SPEC | |
| L hl7:id | II | 1 ... 1 | R | Specimen ID, coming from the LIS | PaLM Suppl. APSR 2.0-3: 6.3.6.9 X Specimen identified |

6.3.7 External Content Modules referenced by APSR 2.0

6.3.7.1 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.

6.3.7.2 Specifications and Examples

IHE Reason for Referral Sub-Section - 1.3.6.1.4.1.19376.1.5.3.1.3.1

| | | | |
|--------------------|---|-----------------------|---|
| Id | 1.3.6.1.4.1.19376.1.5.3.1.3.1 ref (from repository: IHE-PCC-) | Effective Date | valid from 2016-09-26 07:58:18 There are versions of templates with this id: <ul style="list-style-type: none"> IHEReasonForReferralSection as of 2016-09-26 07:58:18 ReasonforReferralSectionV2 as of 2014-06-09 ReasonforReferralSection as of 2013-01-31 |
| Status | Active | Version Label | 2014 |
| Name | IHEReasonForReferralSection | Display Name | IHE Reason for Referral Section |
| Description | The reason for referral section shall contain a narrative description of the reason that the patient is being referred. | | |

| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.5.3.1.3.1 | | | | | | | | | | | | |
|-----------------------------|--|---|---------------------|---------|---------|-----------------------------|-------------|------------------------------------|---------------------|-----------------------------|--|---|---------------------|
| Label | 6.3.3.1.1 | | | | | | | | | | | | |
| Classification | CDA Section Level Template | | | | | | | | | | | | |
| Open/Closed | Open (other than defined elements are allowed) | | | | | | | | | | | | |
| Used by / Uses | Used by 0 transactions and 2 templates, Uses 0 templates | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Used by</th> <th>as</th> <th>Name</th> <th>Version</th> </tr> </thead> <tbody> <tr> <td>1.3.6.1.4.1.19376.1.8.1.2.1</td> <td>Containment</td> <td> Clinical Information Section (2.0)</td> <td>2014-05-13 14:38:08</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.8.1.1.1</td> <td></td> <td> Anatomic Pathology Structured Report Content Module (2.0)</td> <td>2014-05-13 11:57:57</td> </tr> </tbody> </table> | Used by | as | Name | Version | 1.3.6.1.4.1.19376.1.8.1.2.1 | Containment | Clinical Information Section (2.0) | 2014-05-13 14:38:08 | 1.3.6.1.4.1.19376.1.8.1.1.1 | | Anatomic Pathology Structured Report Content Module (2.0) | 2014-05-13 11:57:57 |
| | Used by | as | Name | Version | | | | | | | | | |
| 1.3.6.1.4.1.19376.1.8.1.2.1 | Containment | Clinical Information Section (2.0) | 2014-05-13 14:38:08 | | | | | | | | | | |
| 1.3.6.1.4.1.19376.1.8.1.1.1 | | Anatomic Pathology Structured Report Content Module (2.0) | 2014-05-13 11:57:57 | | | | | | | | | | |
| Relationship | 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 (Logical Observation Identifier Names and Codes) | |
| └ └ @displayName | | 1 ... 1 | F | REASON FOR REFERRAL | |
| └ └ @codeSystemName | | 1 ... 1 | F | LOINC | |
| └ h17:text | | SD.TEXT | 1 ... 1 | M | |

History of Present Illness Sub-Section - 1.3.6.1.4.1.19376.1.5.3.1.3.4

| | | | |
|---------------|---|-----------------------|--|
| Id | 1.3.6.1.4.1.19376.1.5.3.1.3.4 ref (from repository: ccda-) | Effective Date | valid from 2015-08-13 There are versions of templates with this id: <ul style="list-style-type: none"> HistoryofPresentIllnessSection as of 2015-08-13 IHEHistoryofPresentIllnessSection as of 2013-01-31 |
| Status | Under pre-publication review | Version Label | 2.1 |
| Name | HistoryofPresentIllnessSection | Display Name | History of Present Illness Section |

Description

The History of Present Illness section describes the history related to the reason for the encounter. It contains the historical details leading up to and pertaining to the patient's current complaint or reason for seeking medical care.

| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.5.3.1.3.4 | | | | | | | | | | | | |
|-----------------------------|--|---|---------------------|------|---------|-----------------------------|-------------|------------------------------------|---------------------|-----------------------------|--|---|---------------------|
| Classification | CDA Section Level Template | | | | | | | | | | | | |
| Open/Closed | Open (other than defined elements are allowed) | | | | | | | | | | | | |
| Used by / Uses | Used by 0 transactions and 2 templates, Uses 0 templates | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Used by</th> <th>as</th> <th>Name</th> <th>Version</th> </tr> </thead> <tbody> <tr> <td>1.3.6.1.4.1.19376.1.8.1.2.1</td> <td>Containment</td> <td> Clinical Information Section (2.0)</td> <td>2014-05-13 14:38:08</td> </tr> <tr> <td>1.3.6.1.4.1.19376.1.8.1.1.1</td> <td></td> <td> Anatomic Pathology Structured Report Content Module (2.0)</td> <td>2014-05-13 11:57:57</td> </tr> </tbody> </table> | Used by | as | Name | Version | 1.3.6.1.4.1.19376.1.8.1.2.1 | Containment | Clinical Information Section (2.0) | 2014-05-13 14:38:08 | 1.3.6.1.4.1.19376.1.8.1.1.1 | | Anatomic Pathology Structured Report Content Module (2.0) | 2014-05-13 11:57:57 |
| Used by | as | Name | Version | | | | | | | | | | |
| 1.3.6.1.4.1.19376.1.8.1.2.1 | Containment | Clinical Information Section (2.0) | 2014-05-13 14:38:08 | | | | | | | | | | |
| 1.3.6.1.4.1.19376.1.8.1.1.1 | | Anatomic Pathology Structured Report Content Module (2.0) | 2014-05-13 11:57:57 | | | | | | | | | | |
| Relationship | Specialization: template 2.16.840.1.113883.10.12.201 (2005-09-07) | | | | | | | | | | | | |

| Item | DT | Card | Conf | Description | Label |
|------------------|------|---------|------|--|-------------|
| cda:section | | | | | (His...ion) |
| └ cda:templateId | II | 1 ... 1 | M | SHALL contain exactly one [1..1] templateId (CONF:81-7848) such that it | CONF...7848 |
| └└ @root | | 1 ... 1 | F | 1.3.6.1.4.1.19376.1.5.3.1.3.4 SHALL contain exactly one [1..1] @root="1.3.6.1.4.1.19376.1.5.3.1.3.4" (CONF:81-10458). | CONF...0458 |
| └ cda:code | CE | 1 ... 1 | M | SHALL contain exactly one [1..1] code (CONF:81-15477). | CONF...5477 |
| └└ @code | CONF | 1 ... 1 | F | 10164-2 | |

| | | | |
|--------------------|----------------|------------------|---|
| @codeSystem | | 1 ... 1 F | 2.16.840.1.113883.6.1 (Logical Observation Identifier Names and Codes) |
| oda:title | ST | 1 ... 1 | SHALL contain exactly one [1..1] title (CONF:81-7850). CONF...7850 |
| oda:text | SD.TEXT | 1 ... 1 M | SHALL contain exactly one [1..1] text (CONF:81-7851). CONF...7851 |

CDA Active Problems Sub-Section - 1.3.6.1.4.1.19376.1.5.3.1.3.6

| | | | |
|---------------|---|-----------------------|--|
| Id | 1.3.6.1.4.1.19376.1.5.3.1.3.6 <small>ref (from repository: IHE-PCC-)</small> | Effective Date | valid from 2015-10-05 16:02:07 There are versions of templates with this id: <ul style="list-style-type: none"> IHEActiveProblemsSection as of 2015-10-05 16:02:07 SectionActiveProblems as of 2013-12-20 |
| Status | ● Active | Version Label | 2014 |
| Name | IHEActiveProblemsSection | Display Name | 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.

| | | | |
|-----------------------|--|-------------|---|
| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.5.3.1.3.6 | | |
| Label | 6.3.3.2.3 | | |
| Classification | CDA Section Level Template | | |
| Open/Closed | Open (other than defined elements are allowed) | | |
| Used by / Uses | Used by 0 transactions and 2 templates, Uses 1 template | | |
| | Used by | as | Name Version |
| | 1.3.6.1.4.1.19376.1.8.1.2.1 | Containment | ● Clinical Information Section (2.0) 2014-05-13 14:38:08 |
| | 1.3.6.1.4.1.19376.1.8.1.1.1 | | ● Anatomic Pathology Structured Report Content Module (2.0) 2014-05-13 11:57:57 |

| 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 (Logical Observation Identifier Names and Codes) | |
| └ 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 |
| └└ @typeCode | cs | 1 ... 1 | R | | |

Specimen Received Child element - 1.3.6.1.4.1.19376.1.3.1.3

| | | | |
|--------------------|--|-----------------------|-----------------------|
| Id | 1.3.6.1.4.1.19376.1.3.1.3 (from repository: XDLAB-) | Effective Date | valid from 2008-08-08 |
| Status | Active | Version Label | 2017 |
| Name | SpecimenReceived | Display Name | 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.

| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.1.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---------------------|---------|---------------------------|-------------|--|------------|---------------------------|---|---|------------|-----------------------------|---|---|---------------------|------------------------------|---|--|---------------------|-----------------------------|---|---|---------------------|-----------------------------|---|--|---------------------|-----------------------------|---|--|---------------------|-----------------------------|---|---|---------------------|-----------------------------|---|---|---------------------|-----------------------------|---|---|---------------------|------------------------------|-------------|---|---------------------|--|---|--|--|------------------------------|---|---|---------------------|--|--|--|--|-----------------------------|---|---|---------------------|
| Classification | CDA Entry Level Template | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Open/Closed | Open (other than defined elements are allowed) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Used by / Uses | Used by 0 transactions and 13 templates, Uses 0 templates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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Laboratory Observation Child element - 1.3.6.1.4.1.19376.1.3.1.6

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| Status | ● Active | Version Label | 2017 |
| Name | LaboratoryObservation | Display Name | Laboratory Observation |

Description

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.

| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.1.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Open/Closed | Open (other than defined elements are allowed) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Used by / Uses | Used by 0 transactions and 8 templates, Uses 6 templates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1.3.6.1.4.1.19376.1.3.1.2 | Containment |  Specimen Collection (2017) | DYNAMIC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relationship | Generalization: template 2.16.840.1.113883.10.12.303 (2005-09-07) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Example | <p style="background-color: #ffffcc;">Example</p> <pre> <observation classCode="OBS" moodCode="EVN"> <templateId root="1.3.6.1.4.1.19376.1.3.1.6"/> <id root=" " extension=" "/> <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="20071108000000.0000-0500"/> <value xsi:type="PQ" unit="mg/dL" value="6.4"/> <interpretationCode code="H" codeSystem="2.16.840.1.113883.5.83"/> </pre> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

```

01
02 <methodCode code=" " codeSystem=" " codeSystemName=" " />
03 <specimen typeCode="SPC">
04   <specimenRole classCode="SPEC">
05     <id extension="555847399003" root="1.3.6.1.4.1.19376.1.3.4"/>
06     <specimenPlayingEntity>
07       <code code="BLD" codeSystem="2.16.840.1.113883.5.129" codeSystemName="HL7" displayName="Blood"/>
08     </specimenPlayingEntity>
09   </specimenRole>
10 </specimen>
11 <performer typeCode="PRF">
12   <templateId root="1.3.6.1.4.1.19376.1.3.3.1.7"/>
13   <!-- ... -->
14 </performer>
15 <author typeCode="AUT">
16   <!-- ... -->
17 </author>
18 <participant typeCode="AUTHEN">
19   <templateId root="1.3.6.1.4.1.19376.1.3.3.1.5"/>
20   <!-- ... -->
21 </participant>
22 <participant typeCode="RESP">
23   <!-- ... -->
24 </participant>
25 <participant typeCode="DEV">
26   <!-- ... -->
27 </participant>
28 <entryRelationship typeCode="COMP">
29   <act classCode="ACT" moodCode="EVN">
30     <templateId root="2.16.840.1.113883.10.20.1.40"/>
31     <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.2"/>
32     <code code="48767-8" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Annotation Comment"/>
33     <text>
34       <reference value="pbTestComment"/>
35     </text>
36     <statusCode code="completed"/>
37   </act>
38 </entryRelationship>
39 <entryRelationship typeCode="REFR">
40   <sequenceNumber value="1"/>
41   <observation classCode="OBS" moodCode="EVN">
42     <templateId root="1.3.6.1.4.1.19376.1.3.1.6"/>
43     <code code="10912-4" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Lead Measurement, Quantitati-
44 ve">
45       <originalText>
46         <reference value="pbTest"/>
47       </originalText>
48     </code>
49     <statusCode code="completed"/>
50     <effectiveTime value="20071101000000.0000-0500"/>
51     <value xsi:type="PQ" unit="mg/dL" value="8.7"/>
52     <interpretationCode code="H" codeSystem="2.16.840.1.113883.5.83"/>
53   </entryRelationship typeCode="COMP">
54     <act classCode="ACT" moodCode="EVN">
55       <templateId root="2.16.840.1.113883.10.20.1.40"/>
56       <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.2"/>
57       <code code="48767-8" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Annotation Comment"/>

```



```

        <text>
          <reference value="pbTestComment"/>
        </text>
      </act>
    </entryRelationship>
  </observation>
</entryRelationship>
<referenceRange typeCode="REFV">
  <observationRange classCode="OBS" moodCode="EVN.CRT">
    <value xsi:type="IVL_PQ">
      <low value="0.0" unit="mg/dL"/>
      <high value="5.0" unit="mg/dL"/>
    </value>
    <interpretationCode code="N" codeSystem="2.16.840.1.113883.5.83"/>
  </observationRange>
  <lab:precondition typeCode="PRCN">
    <lab:criterion classCode="COND">
      <lab:code code="AGE"/>
      <lab:value xsi:type="IVL_PQ">
        <lab:low value="35" unit="Y"/>
        <lab:high value="55" unit="Y"/>
      </lab:value>
    </lab:criterion>
  </lab:precondition>
</referenceRange>
</observation>

```

Example

```

<observation classCode="OBS" moodCode="EVN">
  <templateId root="1.3.6.1.4.1.19376.1.3.1.3"/>
  <code code="11273-0" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="ERYTHROCYTES"/>
  <statusCode code="completed"/>
  <effectiveTime value="20060321063000.0000-0500"/>
  <value xsi:type="PQ" value="4.95" unit="10*6/mm3"/>
  <interpretationCode code="N" codeSystem="2.16.840.1.113883.5.83"/>
  <entryRelationship typeCode="REFR">
    <!-- Previous result 4.85 from Mar 12, 2006 08:15 -->
    <observation classCode="OBS" moodCode="EVN">
      <code code="11273-0" codeSystem="2.16.840.1.113883.6.1"/>
      <statusCode code="completed"/>
      <effectiveTime value="20060312081500.0000-0500"/>
      <value xsi:type="PQ" value="4.85" unit="10*6/mm3"/>
    </observation>
  </entryRelationship>
  <!-- reference range given patient sex -->
  <referenceRange typeCode="REFV">
    <observationRange classCode="OBS" moodCode="EVN.CRT">
      <value xsi:type="IVL_PQ">
        <low value="4.50" unit="10*6/mm3"/>
        <high value="6.00" unit="10*6/mm3"/>
      </value>
    </observationRange>
  <lab:precondition typeCode="PRCN">

```

Example

```


<lab:criterion classCode="COND">
  <lab:code code="SEX"/>
  <lab:value xsi:type="CD" code="M" codeSystem="2.16.840.1.113883.5.1"/>
</lab:criterion>
</lab:precondition>
</referenceRange>
</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 a 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 | | | | Elements to choose from: <ul style="list-style-type: none"> h17:subject containing template 1.3.6.1.4.1.19376.1.3.3.1.2.1 <i>Non-Human Subject</i> (DYNAMIC) 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) | 0 ... 1 |
| 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) |
| @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) |
| @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) |
| @typeCode | CS | 0 ... 1 | F | PRF | |
| 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) |
| @typeCode | CS | 0 ... 1 | F | AUT | |
| h17:participant | | 0 ... 1 | | Other participants "AUTHEN", "RESP", and "DEV". <ul style="list-style-type: none"> 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 <participant> element. | (Lab...ion) |
| where [@typeCode='AUTHEN'] | | | | | |
| @typeCode | CS | 1 ... 1 | F | AUTHEN | |
| h17:participant | | 0 ... 1 | | Other participants "AUTHEN", "RESP", and "DEV". | (Lab...ion) |

| | | | | | | |
|-----------------------------------|------------------------------|----|---------|---|---|-------------|
| | | | | <ul style="list-style-type: none"> 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 <performer> element, whereas the Director of this subcontractor laboratory is carried by the <participant> element being attached to the same level as the <performer> element. | | |
| where [<i>@typeCode</i> ='RESP'] | | | | | | |
| └ | <i>@typeCode</i> | CS | 1 ... 1 | F | RESP | |
| └ | <i>h17:participant</i> | | 0 ... 1 | | Other participants "AUTHEN", "RESP", and "DEV". <ul style="list-style-type: none"> DEV: A device or equipment, which was used to produce this battery of results (e.g. an analyzer). | (Lab...ion) |
| where [<i>@typeCode</i> ='DEV'] | | | | | | |
| └ | <i>@typeCode</i> | CS | 1 ... 1 | F | DEV | |
| └ | <i>h17:entryRelationship</i> | | 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) |
| └ | <i>h17:entryRelationship</i> | | 0 ... * | R | Specimen Collection Contains 1.3.6.1.4.1.19376.1.3.1.2 <i>Specimen Collection</i> (DYNAMIC) | (Lab...ion) |
| └ | <i>h17:entryRelationship</i> | | 0 ... * | R | Previous observations obtained for the same patient, test, same method, same unit (1) | (Lab...ion) |
| where [<i>@typeCode</i> ='REFR'] | | | | | | |
| └ | <i>@typeCode</i> | CS | 1 ... 1 | F | REFR | |
| └ | <i>h17:observation</i> | | 1 ... 1 | R | | (Lab...ion) |
| └ | <i>@classCode</i> | CS | 1 ... 1 | F | OBS | |
| └ | <i>@moodCode</i> | CS | 1 ... 1 | F | EVN | |
| └ | <i>h17:code</i> | | 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 | 1 ... 1 | F | N | |
| @codeSystem | CONF | 1 ... 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 - 1.3.6.1.4.1.19376.1.3.3.1.1

| | | | |
|---------------|---|-----------------------|-----------------------|
| Id | 1.3.6.1.4.1.19376.1.3.3.1.1  (from repository: XDLAB-) | Effective Date | valid from 2017-06-07 |
| Status |  Active | Version Label | 2017 |
| Name | Humanpatientrecordtarget | Display Name | 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.

| | | | |
|-----------------------|---|-----------|---|
| Classification | CDA Header Level Template | | |
| Open/Closed | Open (other than defined elements are allowed) | | |
| Used by / Uses | Used by 0 transactions and 1 template, Uses 0 templates | | |
| | Used by | as | Name |
| | 1.3.6.1.4.1.19376.1.8.1.1.1 Include  | | Anatomic Pathology Structured Report Content Module (2.0) |
| | | | Version |
| | | | 2014-05-13 11:57:57 |
| Relationship | Specialization: template 2.16.840.1.113883.10.12.101 (2005-09-07) | | |

Human Patient Example a

```

<recordTarget typeCode="RCT">
  <patientRole classCode="PAT">
    <id extension="sw54321" root="1.3.6.1.4.1.19376.1.3.4"/>
    <addr>
      <streetAddressLine>1313 Mockingbird Lane</streetAddressLine>
      <city>Janesville</city>
      <state>WI</state>
      <postalCode>53545</postalCode>
      <country>USA</country>
    </addr>
    <telecom value="tel: 608-555-5555"/>
    <patient classCode="PSN">
      <name>
        <family>Winters</family>
        <given>Shelly</given>
      </name>
      <administrativeGenderCode code="F"/>
      <birthTime value="19401213000000.0000-0500"/>
    </patient>
  </patientRole>
</recordTarget>

```

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 null-Flavor is appropriate

```




<recordTarget typeCode="RCT">
  <patientRole classCode="PAT">
    <id extension="sw54321" root="1.3.6.1.4.1.19376.1.3.4"/>
    <addr>
      <streetAddressLine nullFlavor="MSK"/>
      <!-- masked value -->
      <city nullFlavor="MSK"/>
      <!-- masked value -->
      <state nullFlavor="MSK"/>
      <!-- masked value -->
      <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 |
|------------------|----|---------|------|-------------|-------------|
| hl7: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 - 1.3.6.1.4.1.19376.1.3.3.1.4

| | | | |
|-----------------------|---|---|---|
| Id | 1.3.6.1.4.1.19376.1.3.3.1.4 | Effective Date | valid from 2016-07-09 15:17:01 |
| Status |  Draft | Version Label | |
| Name | CDAinformationRecipientIHE | Display Name | CDA informationRecipient IHE |
| Description | Template CDA informationRecipient (prototype, directly derived from POCD_RM000040 MIF) | | |
| Classification | CDA Header Level Template | | |
| Open/Closed | Open (other than defined elements are allowed) | | |
| | Used by 1 template, Uses 2 templates | | |
| Used by / Uses | Used by Template id | as | Name |
| | 1.3.6.1.4.1.19376.1.8.1.1.1 |  | Anatomic Pathology Structured Report Content Module (2.0) 2014-05-13 11:57:57 |
| | Uses Template id | as | Name |
| | 2.16.840.1.113883.10.12.152 | Containment  | CDA Person DYNAMIC |



2.16.840.1.113883.10.12.151 Containment  CDA Organization

DYNAMIC

Relationship Adaptation: template 2.16.840.1.113883.10.12.105 (2005-09-07)

| Item | DT | Card | Conf | Description | Label |
|----------------------------|------|---|------|---|------------------------------|
| h17:informationRecipient | | 0 ... * | | | (CDAinformationRecipientIHE) |
| └ @typeCode | cs | 1 ... 1 | R | | |
| | CONF | The value of @typeCode shall be drawn from value set 2.16.840.1.113883.1.11.19366 x_InformationRecipient (DYNAMIC) | | | |
| └ h17:intendedRecipient | | 1 ... 1 | R | | (CDAinformationRecipientIHE) |
| └ @classCode | cs | 1 ... 1 | R | | |
| | CONF | The value of @classCode shall be drawn from value set 2.16.840.1.113883.1.11.16772 x_InformationRecipientRole (DYNAMIC) | | | |
| └ h17:id | II | 0 ... * | R | | (CDAinformationRecipientIHE) |
| └ h17:addr | AD | 0 ... * | | | (CDAinformationRecipientIHE) |
| └ h17:telecom | TEL | 0 ... * | | | (CDAinformationRecipientIHE) |
| └ h17:informationRecipient | | 0 ... 1 | | Contains 2.16.840.1.113883.10.12.152 CDA Person (DYNAMIC) | (CDAinformationRecipientIHE) |
| └ h17:receivedOrganization | | 0 ... 1 | | Contains 2.16.840.1.113883.10.12.151 CDA Organization (DYNAMIC) | (CDAinformationRecipientIHE) |

Ordering Provider Child element - 1.3.6.1.4.1.19376.1.3.3.1.6

| | | | |
|---------------|---|-----------------------|-----------------------|
| Id | 1.3.6.1.4.1.19376.1.3.3.1.6  (from repository: XDLAB-) | Effective Date | valid from 2008-08-08 |
| Status |  Active | Version Label | 2017 |
| Name | OrderingProvider | Display Name | 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:

- <templateId root="1.3.6.1.4.1.19376.1.3.3.1.6"/> - The templateId element identifies this participant as an ordering physician. The templateId SHALL have root="1.3.6.1.4.1.19376.1.3.3.1.6".

See also IHE PCC Wiki Content

| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.3.3.1.6 | | | | | | | | |
|-----------------------------|--|---|---------------------|------|---------|-----------------------------|---------|---|---------------------|
| Classification | CDA Header Level Template | | | | | | | | |
| Open/Closed | Open (other than defined elements are allowed) | | | | | | | | |
| Used by / Uses | Used by 0 transactions and 1 template, Uses 0 templates <table border="1"> <thead> <tr> <th>Used by</th> <th>as</th> <th>Name</th> <th>Version</th> </tr> </thead> <tbody> <tr> <td>1.3.6.1.4.1.19376.1.8.1.1.1</td> <td>Include</td> <td>Anatomic Pathology Structured Report Content Module (2.0)</td> <td>2014-05-13 11:57:57</td> </tr> </tbody> </table> | Used by | as | Name | Version | 1.3.6.1.4.1.19376.1.8.1.1.1 | Include | Anatomic Pathology Structured Report Content Module (2.0) | 2014-05-13 11:57:57 |
| Used by | as | Name | Version | | | | | | |
| 1.3.6.1.4.1.19376.1.8.1.1.1 | Include | Anatomic Pathology Structured Report Content Module (2.0) | 2014-05-13 11:57:57 | | | | | | |
| Relationship | Specialization: template 2.16.840.1.113883.10.12.108 (2005-09-07) | | | | | | | | |
| Example | <p>Ordering Provider Example</p> <pre> <participant typeCode="REF"> <time value="20080123211000.007-0500"/> <associatedEntity> <id extension="1" root="1.3.6.1.4.1.19376.1.3.4"/> <addr> <streetAddressLine>21 North Ave</streetAddressLine> <city>Burlington</city> </addr> <telecom value="tel:(999)555-1212" use="DIR"/> <associatedPerson> <name> <given>Good</given> <family>Orderer</family> </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> </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 |
|------------------------|-------------------|---------|---------|--|-------------|
| hl7:participant | | | | Referral Ordering Physician | (Ord...der) |
| └ @typeCode | CS | 1 ... 1 | F | REF | |
| └ hl7:templateId | II | 1 ... 1 | | | (Ord...der) |
| └└ @root | uid | 1 ... 1 | F | 1.3.6.1.4.1.19376.1.3.3.1.6 | |
| └ hl7:time | IVL_TS | 1 ... 1 | R | This element represents the date and time the order was placed. Time MAY be present. | (Ord...der) |
| └ hl7:associatedEntity | | 1 ... 1 | | | (Ord...der) |
| └└ hl7:addr | AD | 1 ... * | R | The address of this person (referral ordering physician) SHALL be present. | (Ord...der) |
| └└ hl7:telecom | TEL.AT | 1 ... * | R | The telecom of this person (referral ordering physician) SHALL be present. | (Ord...der) |
| | Schematron assert | role | ● error | | |
| | | test | | not(hl7:assignedPerson) or hl7:assignedPerson/hl7: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 - 1.3.6.1.4.1.19376.1.3.3.1.7

| | | | |
|---------------|--|-----------------------|-----------------------|
| Id | 1.3.6.1.4.1.19376.1.3.3.1.7 (from repository: XDLAB-) | Effective Date | valid from 2008-08-08 |
| Status | Active | Version Label | 2017 |
| Name | LaboratoryPerformer | Display Name | Laboratory Performer |

Description

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.

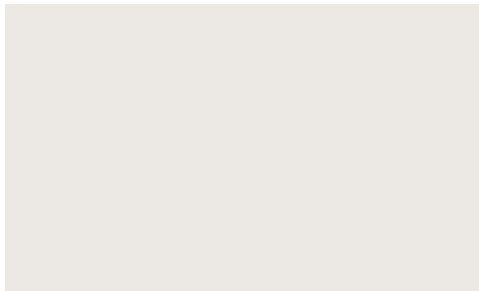
This module is out of the XDS-Lab Specification and documented there in a <performer> element. This module does not change requirements stated in that specification but is structured as a module to ensure consistent content representation and re-usability.

The figure below shows how the information for this element is coded, and further constraints are provided in the following sections.

| | | | | |
|-----------------------|---|-------------|-------------------------------|------------------------|
| Context | Sibling nodes of template element with id 1.3.6.1.4.1.19376.1.3.3.1.7 | | | |
| Classification | CDA Header Level Template CDA Entry Level Template | | | |
| Open/Closed | Open (other than defined elements are allowed) | | | |
| | Used by 0 transactions and 21 templates, Uses 0 templates | | | |
| Used by / Uses | Used by | as | Name | Version |
| | 1.3.6.1.4.1.19376.1.3.1.6 | Containment | Laboratory Observation (2017) | 2008-08-08 |
| | 1.3.6.1.4.1.19376.1.8.1.3.6 | | Problem Organizer (2.0) | 2015-08-13 10:24:55 |

| | | | | | |
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1.3.6.1.4.1.19376.1.3.10.9.42 Assessment Scoring System APSR 2.0 (2.0)

2016-10-10
11:33:36

1.3.6.1.4.1.19376.1.8.1.4.10 Containment Embedded Image IHE

2016-06-22
16:08:01

1.3.6.1.4.1.19376.1.8.1.4.9 AP Observation Entry (2.0)

2014-05-14
17:09:54

Circular reference found with 1.3.6.1.4.1.19376.1.8.1.4.9, please check

Relationship

Specialization: template 2.16.840.1.113883.10.12.320 (2005-09-07)

Example

Laboratory Performer at Service Event Level (Header)

```
<serviceEvent>
  <!-- .. -->
  <performer typeCode="PRF">
    <templateId root="1.3.6.1.4.1.19376.1.3.3.1.7"/>
    <assignedEntity>
      <id extension="kd83736" root="1.3.6.1.4.1.19376.1.3.4"/>
      <addr>
        <streetAddressLine>7000 Hosptial Drive</streetAddressLine>
        <city>Chicago</city>
        <state>IL</state>
        <postalCode>60622</postalCode>
        <country>USA</country>
      </addr>
      <telecom value="tel:312-555-5555"/>
      <assignedPerson>
        <name>
          <family>Dawson</family>
          <given>Kim</given>
          <prefix>Dr.</prefix>
        </name>
      </assignedPerson>
      <representedOrganization>
        <id extension="9875" root="1.3.6.1.4.1.19376.1.3.4"/>
        <name>PRF Hospital Laboratory</name>
        <telecom value="tel:312-555-5555"/>
        <addr>
          <streetAddressLine>7000 Hosptial Drive</streetAddressLine>
          <city>Chicago</city>
          <state>IL</state>
          <postalCode>60622</postalCode>
          <country>USA</country>
        </addr>
      </representedOrganization>
    </assignedEntity>
  </performer>
</serviceEvent>
```

Example

Laboratory Performer at Observation Level (Body)

```

<observation>
  <!-- .. -->
  <performer typeCode="PRF">
    <templateId root="1.3.6.1.4.1.19376.1.3.3.1.7"/>
    <assignedEntity>
      <id extension="rm83747" root="1.3.6.1.4.1.19376.1.3.4"/>
      <addr>
        <streetAddressLine>7000 Hosptial Drive</streetAddressLine>
        <city>Chicago</city>
        <state>IL</state>
        <postalCode>60622</postalCode>
        <country>USA</country>
      </addr>
      <telecom value="tel:312-555-5555"/>
      <assignedPerson>
        <name>
          <family>Trenton</family>
          <given>Douglas</given>
          <prefix>Dr.</prefix>
        </name>
      </assignedPerson>
      <representedOrganization>
        <id extension="rm83747" root="1.3.6.1.4.1.19376.1.3.4"/>
        <name>PRF Hosptial Laboratory</name>
        <telecom value="tel:312-555-5555"/>
        <addr>
          <streetAddressLine>7000 Hosptial Drive</streetAddressLine>
          <city>Chicago</city>
          <state>IL</state>
          <postalCode>60622</postalCode>
          <country>USA</country>
        </addr>
      </representedOrganization>
    </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 | 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. | | |

Annotation Comment Child element - 1.3.6.1.4.1.19376.1.5.3.1.4.2

| | | | |
|-----------------------|--|-----------------------|---|
| Id | 1.3.6.1.4.1.19376.1.5.3.1.4.2 | Effective Date | valid from 2016-06-23 14:21:01 |
| Status | Draft | Version Label | |
| Name | AnnotationCommentIHE | Display Name | Annotation Comment (IHE) |
| Description | This entry is used for Annotation Comments in APSR 2.0 | | |
| Context | Parent nodes of template element with id 1.3.6.1.4.1.19376.1.5.3.1.4.2 | | |
| Classification | CDA Entry Level Template | | |
| Open/Closed | Closed (only defined elements are allowed) | | |
| | Used by 12 templates, Uses 0 templates | | |
| Used by / Uses | Used by Template id | as | Name Version |
| | 1.3.6.1.4.1.19376.1.3.1.6 | Containment | Laboratory Observation (2016) 2016-07-05 |
| | 1.3.6.1.4.1.19376.1.3.1.6 | | Laboratory Observation (2008) 2008-08-08 |
| | 1.3.6.1.4.1.19376.1.8.1.3.6 | | Problem Organizer (2.0) 2015-08-13 10:24:55 |

| | | | | |
|------------------------------|-------------|--|--|---------------------|
| 1.3.6.1.4.1.19376.1.3.10.3.1 | | | Additional Specified Observation Section (2.0) | 2016-11-13 14:28:08 |
| 1.3.6.1.4.1.19376.1.8.1.1.1 | | | Anatomic Pathology Structured Report (2.0) | 2014-05-13 11:57:57 |
| 1.3.6.1.4.1.19376.1.8.1.2.1 | | | Clinical Information Section (2.0) | 2014-05-13 14:38:08 |
| 1.3.6.1.4.1.19376.1.8.1.2.2 | | | Intraoperative Observation Section (2.0) | 2014-05-13 19:29:16 |
| 1.3.6.1.4.1.19376.1.8.1.2.3 | | | Macroscopic Observation Section (2.0) | 2014-05-13 11:57:09 |
| 1.3.6.1.4.1.19376.1.8.1.2.4 | | | Microscopic Observation Section (2.0) | 2014-05-13 14:25:17 |
| 1.3.6.1.4.1.19376.1.8.1.2.5 | | | Diagnostic Conclusion Section (2.0) | 2014-05-13 19:31:26 |
| 1.3.6.1.4.1.19376.1.8.1.4.10 | Containment | | Embedded Image IHE | 2016-06-22 16:08:01 |
| 1.3.6.1.4.1.19376.1.8.1.4.9 | | | AP Observation Entry (2.0) | 2014-05-14 17:09:54 |

Relationship
Specialization: template 2.16.840.1.113883.10.12.303 (2005-09-07)
Specialization: template 2.16.840.1.113883.10.20.1.40 (DYNAMIC)
Specialization: template 1.3.6.1.4.1.19376.1.5.3.1.4.2 (2009-12-04)
Adaptation: template 1.2.276.0.76.10.4015 (2014-11-15)

| Item | DT | Card | Conf | Description | Label |
|------------------|------|---------|------|---|------------------------|
| h17:act | | | | The related statement is an event (moodCode='EVN') describing the act (classCode='ACT') of making an arbitrary comment or providing instruction on the related entry. | (AnnotationCommentIHE) |
| └ @classCode | CS | 1 ... 1 | F | ACT | |
| └ @moodCode | CS | 1 ... 1 | F | EVN | |
| └ h17:templateId | II | 1 ... 1 | M | | (AnnotationCommentIHE) |
| └└ @root | uid | 1 ... 1 | F | 1.3.6.1.4.1.19376.1.5.3.1.4.2 | |
| └ h17:templateId | II | 1 ... 1 | M | | (AnnotationCommentIHE) |
| └└ @root | uid | 1 ... 1 | F | 2.16.840.1.113883.2.6.60.6.10.50 | |
| └ h17:code | CD | 1 ... 1 | M | The <code> element indicates that this is a comment and shall be recorded as shown above. The codeSystem and code attributes shall use the values specified above. | (AnnotationCommentIHE) |
| └└ @code | CONF | 1 ... 1 | F | 48767-8 | |


| | | | | | |
|-----------------|------|-----------------------|---|---|------------------------|
| @codeSystem | | 1 ... 1 | F | 2.16.840.1.113883.6.1 (Logical Observation Identifier Names and Codes) | |
| @displayName | | 1 ... 1 | F | Annotation Comment | |
| @codeSystemName | | 1 ... 1 | F | LOINC | |
| h17:text | ED | 1 ... 1 | M | The <text> element provides a way to represent the <reference> to the text of the comment in the narrative portion of the document. For CDA, this SHALL be represented as a <reference> element that points to the narrative text section of the CDA. The comment itself is not the act being coded, so it appears in the <text> of the <observation>, not as part of the <code>. For HL7 Version 3 Messages, the <text> element SHALL contain the full narrative text. | (AnnotationCommentIHE) |
| h17:statusCode | CS | 1 ... 1 | M | The code attribute of <statusCode> for all comments must be completed. | (AnnotationCommentIHE) |
| | CONF | @value is "completed" | | | |

Appendix A - Value Sets

A. APSR Value Sets

There are both extensional and intensional value sets specifically used for APSR.

A.1 Generic AP Observation Codes 1.3.6.1.4.1.19376.1.3.11.11

| | | | |
|--------------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.11.11 | Effective Date | valid from 2015-11-22 12:20:34 |
| Status |  Draft | Version Label | |
| Name | AP-Observation | Display Name | AP Observation |
| Description | Generic codes for AP Observations of all kind, including results of ancillary techniques (immunohistochemistry, in-situ-hybridization, other molecular methods) | | |

A valid code from one of the 12 code systems:

| Code System Name | Code System Id | Code System Version | Flexibility |
|--|-----------------------|---------------------|-------------|
| Logical Observation Identifier Names and Codes | 2.16.840.1.113883.6.1 | | DYNAMIC |

| | | |
|---|----------------------------|---------|
| SNOMED Clinical Terms | 2.16.840.1.113883.6.96 | DYNAMIC |
| International Classification of Diseases for Oncology, version 3. | 2.16.840.1.113883.6.43.1 | DYNAMIC |
| ICD10 | 2.16.840.1.113883.6.3 | DYNAMIC |
| TNM 8th ed. | 2.16.840.1.113883.15.16 | DYNAMIC |
| TNM Edition7 UICC | 2.16.840.1.113883.15.6 | DYNAMIC |
| TNM Edition6 UICC | 2.16.840.1.113883.15.7 | DYNAMIC |
| TNM Edition5 UICC | 2.16.840.1.113883.15.8 | DYNAMIC |
| Unified Code for Units of Measure | 2.16.840.1.113883.6.8 | DYNAMIC |
| Online Mendelian Inheritance in Man 1993 | 2.16.840.1.113883.6.174 | DYNAMIC |
| DKG Coding scheme | 1.2.276.0.76.3.1.131.1.5.1 | DYNAMIC |
| localization codes for distant metastases | 1.2.276.0.76.5.401 | DYNAMIC |


Or one of the following:

| | |
|-------------------------------|--|
| 12 Source Code Systems | 2.16.840.1.113883.6.1 - Logical Observation Identifier Names and Codes |
| | 2.16.840.1.113883.6.96 - SNOMED Clinical Terms |
| | 2.16.840.1.113883.6.43.1 - International Classification of Diseases for Oncology, version 3. |
| | 2.16.840.1.113883.6.3 - ICD10 |
| | 2.16.840.1.113883.15.16 |
| | 2.16.840.1.113883.15.6 - TNM Edition7 UICC |
| | 2.16.840.1.113883.15.7 - TNM Edition6 UICC |
| | 2.16.840.1.113883.15.8 - TNM Edition5 UICC |
| | 2.16.840.1.113883.6.8 - Unified Code for Units of Measure |
| | 2.16.840.1.113883.6.174 - Online Mendelian Inheritance in Man 1993 |
| | 1.2.276.0.76.3.1.131.1.5.1 |
| | 1.2.276.0.76.5.401 |

| Level/ Type | Code | Code System |
|-------------|------|-------------|
|-------------|------|-------------|

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

A.2 Problem type 1.3.6.1.4.1.19376.1.3.11.7

| | | | |
|--------------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.11.7 | Effective Date | valid from 2016-07-11 09:52:19 |
| Status |  Draft | Version Label | |
| Name | ProblemType | Display Name | Problem Type |
| Description | Values for the problem under investigation | | |

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 |
| 2.16.840.1.113883.6.96 - SNOMED Clinical Terms |
| 2.16.840.1.113883.5.6 - ActClass |
| 2.16.840.1.113883.5.1008 - Null Flavor |

| 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 (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.

A.3 Container Entity Class Type 1.3.6.1.4.1.19376.1.3.11.8

| | | | |
|------------------------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.11.8 | Effective Date | valid from 2016-09-08 11:55:11 |
| Status |  Draft | Version Label | |
| Name | ContainerEntityTypePaLM | Display Name | ContainerEntityTypePaLM |
| Description | Types of Containers and their additives in Anatomic Pathology | | |
| 2 Source Code Systems | 2.16.840.1.113883.6.96 - <i>SNOMED Clinical Terms</i> 1.2.840.10008.2.16.4 - <i>DICOM Controlled Terminology</i> | | |

| Level/ Type | Code | Display Name | Code System | Designations |
|-------------|-----------|--|-----------------------|--|
| 0-L | 434746001 | Specimen vial (physical object) | SNOMED Clinical Terms | |
| 0-L | 434464009 | Tissue cassette (physical object) | SNOMED Clinical Terms |  Preferred: Tissue cassette (physical object)  Synonym: Tissue cassette |
| 0-L | 434708008 | Tissue cassette for microarray (physical object) | SNOMED Clinical Terms |  Preferred: Tissue cassette for microarray (physical object)  Synonym: Tissue cassette for microarray |
| 0-L | 433466003 | Microscope slide (physical object) | SNOMED Clinical Terms |  Preferred: Microscope slide (physical object)  Synonym: Microscope slide |
| 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 | Preferred: Microscope slide coverslip (physical object) |
| | | | | Synonym: Microscope slide coverslip |
| 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.

A.4 Procedure (target) site 1.3.6.1.4.1.19376.1.3.11.9


| | | | |
|------------------------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.11.9 | Effective Date | valid from 2016-06-01 18:46:15 |
| Status | Draft | Version Label | |
| Name | ProcedureSite | Display Name | Procedure Site |
| Description | Target sites of specimen processing procedures | | |
| 2 Source Code Systems | 2.16.840.1.113883.6.96 - SNOMED Clinical Terms 1.2.840.10008.2.16.4 - DICOM Controlled Terminology | | |

| 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 | 309051001 | 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.

A.5 Specimen collection and processing 1.3.6.1.4.1.19376.1.3.11.10

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|------------------------------|--|-----------------------|------------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.11.10 | Effective Date | valid from 2016-05-31 15:09:59 |
| Status |  Draft | Version Label | |
| Name | SpecimenCollectionAndProcessing | Display Name | Specimen Collection and Processing |
| Description | Mixed Value set for Specimen collection and Processing | | |
| 5 Source Code Systems | <ul style="list-style-type: none"> 2.16.840.1.113883.5.6 - <i>ActClass</i> 2.16.840.1.113883.6.96 - <i>SNOMED Clinical Terms</i> 1.2.276.0.76.5.464 1.2.840.10008.2.16.4 - <i>DICOM Controlled Terminology</i> 2.16.840.1.113883.6.4 - <i>International Classification of Diseases, 10th Revision, Procedure Coding System (ICD-10-PCS)</i> | | |

| Level/ Type | Code | Display Name | Code System | Designations |
|-------------|-------------|--|-----------------------|--------------|
| 0-S | SPECCOLLECT | Specimen collection | ActClass | |
| 1-S | 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 | |
| 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 | |

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| 01 | | | | |
| 02 | 3-L | 129249002 | Needle biopsy (procedure) | SNOMED Clinical Terms |
| 03 | 3-L | 119283008 | Open biopsy (procedure) | SNOMED Clinical Terms |
| 04 | 3-L | 68660007 | Punch biopsy (procedure) | SNOMED Clinical Terms |
| 05 | 3-L | 72342005 | Shave biopsy (procedure) | SNOMED Clinical Terms |
| 06 | 3-L | 274330002 | Surgical biopsy (procedure) | SNOMED Clinical Terms |
| 07 | 3-L | 50590007 | Trephine biopsy (procedure) | SNOMED Clinical Terms |
| 08 | | | | |
| 09 | 2-S | 65801008 | Excision (procedure) | SNOMED Clinical Terms |
| 10 | 3-L | 81723002 | Amputation (procedure) | SNOMED Clinical Terms |
| 11 | 3-L | 86743009 | Local excision (procedure) | SNOMED Clinical Terms |
| 12 | 3-L | 125571002 | Lobectomy (procedure) | SNOMED Clinical Terms |
| 13 | 3-L | 26007001 | Hemi-excision (procedure) | SNOMED Clinical Terms |
| 14 | 3-L | 38829003 | Partial excision (procedure) | SNOMED Clinical Terms |
| 15 | 3-L | 89540006 | Segmental excision and ligation (procedure) | SNOMED Clinical Terms |
| 16 | 3-L | 65854006 | Reexcision (procedure) | SNOMED Clinical Terms |
| 17 | 3-L | 62141006 | Radical excision (procedure) | SNOMED Clinical Terms |
| 18 | 3-S | 62141006 | Radical excision (procedure) | SNOMED Clinical Terms |
| 19 | 4-L | 88088007 | Radical excision with lymph node | SNOMED Clinical Terms |
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| | | dissection (procedure) | |
| 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 |

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| 01 | | | | |
| 02 | 2-L | 430854000 | Touch preparation of specimen (procedure) | SNOMED Clinical Terms |
| 03 | 2-L | 448938001 | Preparation of smear (procedure) | SNOMED Clinical Terms |
| 04 | 2-L | 77896007 | Cytopathology procedure, cell block and smear preparation (procedure) | SNOMED Clinical Terms |
| 05 | | | | |
| 06 | 2-L | 4064007 | Specimen aliquoting (procedure) | SNOMED Clinical Terms |
| 07 | | | | |
| 08 | 2-L | 8378006 | Trimming (procedure) | SNOMED Clinical Terms |
| 09 | 2-L | 73373003 | Specimen centrifugation (procedure) | SNOMED Clinical Terms |
| 10 | 2-L | 27872000 | Specimen freezing (procedure) | SNOMED Clinical Terms |
| 11 | 2-L | 104166004 | Nucleic acid molecular isolation or extraction method (procedure) | SNOMED Clinical Terms |
| 12 | | | | |
| 13 | 2-S | 13283003 | Tissue processing technique (procedure) | SNOMED Clinical Terms |
| 14 | 3-L | 27204007 | Tissue frozen section technique, complete (procedure) | SNOMED Clinical Terms |
| 15 | | | | |
| 16 | 3-L | 40923002 | Tissue processing technique, routine, embed, cut and stain, per surgical specimen (procedure) | SNOMED Clinical Terms |
| 17 | | | | |
| 18 | | | | |
| 19 | 4-L | 434472006 | Sectioning of tissue block (procedure) | SNOMED Clinical Terms |
| 20 | 4-L | 434475008 | Step sectioning of tissue block (procedure) | SNOMED Clinical Terms |
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| 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 method (procedure) | SNOMED Clinical Terms |
| 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 |

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| 01 | | | | |
| 02 | 3-L | 406907006 | Orange II stain method (procedure) | SNOMED Clinical Terms |
| 03 | 3-L | 406908001 | Page blue 83 stain method (procedure) | SNOMED Clinical Terms |
| 04 | | | | |
| 05 | 3-L | 406909009 | Page blue G-90 stain method (procedure) | SNOMED Clinical Terms |
| 06 | 3-L | 406910004 | Patent blue V sodium salt stain method (procedure) | SNOMED Clinical Terms |
| 07 | | | | |
| 08 | 3-L | 406911000 | Permethrin stain method (procedure) | SNOMED Clinical Terms |
| 09 | 3-L | 406912007 | Phloxin B stain method (procedure) | SNOMED Clinical Terms |
| 10 | 3-L | 406913002 | Ponceau 3R stain method (procedure) | SNOMED Clinical Terms |
| 11 | | | | |
| 12 | 3-L | 406914008 | Ponceau S stain method (procedure) | SNOMED Clinical Terms |
| 13 | 3-L | 406915009 | Ponceau xyloidine stain method (procedure) | SNOMED Clinical Terms |
| 14 | 3-L | 406916005 | Pontamine sky blue 5BX stain method (procedure) | SNOMED Clinical Terms |
| 15 | | | | |
| 16 | 3-L | 406900008 | Naphthol yellow S stain method (procedure) | SNOMED Clinical Terms |
| 17 | | | | |
| 18 | 3-L | 406899003 | Naphthol green B stain method (procedure) | SNOMED Clinical Terms |
| 19 | | | | |
| 20 | 3-L | 406898006 | Naphthalene black 12B stain method (procedure) | SNOMED Clinical Terms |
| 21 | 3-L | 117306005 | Lawson-Van Gieson stain method (procedure) | SNOMED Clinical Terms |
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| 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 |

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| 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 |

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| 01 | | | | |
| 02 | 3-L | 406944006 | Trypan blue stain method (procedure) | SNOMED Clinical Terms |
| 03 | 3-L | 406945007 | Vital new red stain method (procedure) | SNOMED Clinical Terms |
| 04 | | | | |
| 05 | 3-L | 104249006 | Vital stain method (procedure) | SNOMED Clinical Terms |
| 06 | 3-L | 406946008 | Water soluble aniline blue stain method (procedure) | SNOMED Clinical Terms |
| 07 | | | | |
| 08 | 3-L | 406948009 | Water soluble anthracene brown stain method (procedure) | SNOMED Clinical Terms |
| 09 | | | | |
| 10 | 3-L | 406947004 | Water soluble nigrosine stain method (procedure) | SNOMED Clinical Terms |
| 11 | 3-L | 406949001 | Waxoline blue stain method (procedure) | SNOMED Clinical Terms |
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| 13 | 3-L | 406950001 | Xylene cyanol FF stain method (procedure) | SNOMED Clinical Terms |
| 14 | | | | |
| 15 | 3-L | 406934009 | Sudan black stain method (procedure) | SNOMED Clinical Terms |
| 16 | 3-L | 406935005 | Sudan black B stain method (procedure) | SNOMED Clinical Terms |
| 17 | 3-L | 117030000 | Sudan IV stain method (procedure) | SNOMED Clinical Terms |
| 18 | 3-L | 406919003 | Romanowsky stain method (procedure) | SNOMED Clinical Terms |
| 19 | | | | |
| 20 | 3-L | 406920009 | Rose bengal stain method (procedure) | SNOMED Clinical Terms |
| 21 | 3-L | 406921008 | Rosolic acid sodium salt stain method (procedure) | SNOMED Clinical Terms |
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| 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 (procedure) | SNOMED Clinical Terms |
| 3-L | 406932008 | Spore stain method (procedure) | SNOMED Clinical Terms |
| 3-L | 406933003 | Sudan II stain method (procedure) | SNOMED Clinical Terms |

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| 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 |

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| 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 stain method (procedure) | SNOMED Clinical Terms |
| 3-L | 406797007 | Alizarin red S stain method (procedure) | SNOMED Clinical Terms |

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| 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 method (procedure) | SNOMED Clinical Terms |


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| 01 | | | | |
| 02 | 3-L | 406857004 | Flagellar stain method (procedure) | SNOMED Clinical Terms |
| 03 | 3-L | 406858009 | Fluorescent stain method (procedure) | SNOMED Clinical Terms |
| 04 | 3-L | 406863008 | Fuchsin acid stain method (procedure) | SNOMED Clinical Terms |
| 05 | 3-L | 117047004 | Fuchsin basic stain method (procedure) | SNOMED Clinical Terms |
| 06 | 3-L | 20543007 | Fungus stain method (procedure) | SNOMED Clinical Terms |
| 07 | 3-L | 406864002 | Gallocyanine stain method (procedure) | SNOMED Clinical Terms |
| 08 | 3-L | 422329009 | Hall's bilirubin stain (procedure) | SNOMED Clinical Terms |
| 09 | 3-L | 406865001 | Hematein stain method (procedure) | SNOMED Clinical Terms |
| 10 | 3-L | 108256005 | Hematology staining procedure (procedure) | SNOMED Clinical Terms |
| 11 | 3-L | 406867009 | Immunofluorescent stain method (procedure) | SNOMED Clinical Terms |
| 12 | 3-L | 406868004 | Indigo carmine stain method (procedure) | SNOMED Clinical Terms |
| 13 | 3-L | 406869007 | Indophenol from naphthol stain method (procedure) | SNOMED Clinical Terms |
| 14 | 3-L | 406870008 | Insoluble berlin blue stain method (procedure) | SNOMED Clinical Terms |
| 15 | 3-L | 406871007 | Janus green B stain method (procedure) | SNOMED Clinical Terms |
| 16 | 3-L | 406872000 | Jenner-Giemsa stain method (procedure) | SNOMED Clinical Terms |
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| 01 | | | | |
| 02 | 3-L | 406856008 | Field's stain method (procedure) | SNOMED Clinical Terms |
| 03 | 3-L | 406855007 | Feulgen reaction stain method (procedure) | SNOMED Clinical Terms |
| 04 | | | | |
| 05 | 3-L | 406854006 | Fat red 7B stain method (procedure) | SNOMED Clinical Terms |
| 06 | 3-L | 406837003 | Diamond black stain method (procedure) | SNOMED Clinical Terms |
| 07 | 3-L | 406838008 | Durazol red stain method (procedure) | SNOMED Clinical Terms |
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| 09 | 3-L | 406839000 | Erie garnet stain method (procedure) | SNOMED Clinical Terms |
| 10 | 3-L | 406840003 | Eriochrome blue black SE stain method (procedure) | SNOMED Clinical Terms |
| 11 | | | | |
| 12 | 3-L | 406841004 | Erythrosin B stain method (procedure) | SNOMED Clinical Terms |
| 13 | 3-L | 406842006 | Erythrosin Y stain method (procedure) | SNOMED Clinical Terms |
| 14 | 3-L | 406843001 | Evans blue stain method (procedure) | SNOMED Clinical Terms |
| 15 | | | | |
| 16 | 3-L | 406844007 | Fast blue B salt stain method (procedure) | SNOMED Clinical Terms |
| 17 | 3-L | 406845008 | Fast blue BB salt stain method (procedure) | SNOMED Clinical Terms |
| 18 | 3-L | 406846009 | Fast blue RR salt stain method (procedure) | SNOMED Clinical Terms |
| 19 | | | | |
| 20 | 3-L | 406847000 | Fast garnet GBC salt stain method (procedure) | SNOMED Clinical Terms |
| 21 | | | | |
| 22 | 3-L | 406848005 | Fast green FCF stain method (procedure) | SNOMED Clinical Terms |
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| 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.

A.6 UICC/AJCC stage 1.3.6.1.4.1.19376.1.3.11.46

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|------------------------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.11.46 | Effective Date | valid from 2017-07-21 10:43:31 |
| Status |  Draft | Version Label | |
| Name | UICCstage-8ed | Display Name | UICC Stage |
| Description | UICC Stages | | |
| 3 Source Code Systems | 2.16.840.1.113883.15.6 - <i>TNM Edition7 UICC</i> 2.16.840.1.113883.15.16 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> | | |


| 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 |
| 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 | 2.16.840.1.113883.15.16 | Tis N0 M0 |
| 1-L | 0a | stage 0a | 2.16.840.1.113883.15.16 | in C67 only |
| 1-L | 0is | stage 0is | 2.16.840.1.113883.15.16 | in C67 only |
| 0-S | I | stage I | 2.16.840.1.113883.15.16 | organ dependent |
| 1-S | IA | stage IA | 2.16.840.1.113883.15.16 | |
| 2-L | IA1 | stage IA1 | 2.16.840.1.113883.15.16 | organ dependent |
| 2-L | IA2 | stage IA2 | 2.16.840.1.113883.15.16 | organ dependent |
| 2-L | IA3 | stage IA3 | 2.16.840.1.113883.15.16 | |
| 1-S | IB | stage IB | 2.16.840.1.113883.15.16 | organ dependent |
| 2-L | IB1 | stage IB1 | 2.16.840.1.113883.15.16 | organ dependent |
| 2-L | IB2 | stage IB2 | 2.16.840.1.113883.15.16 | organ dependent |
| 1-L | IC | stage IC | 2.16.840.1.113883.15.16 | organ dependent |

| | | | | |
|-----|----------|--------------------|-------------------------|--------------------|
| 1-L | IS | stage IS | 2.16.840.1.113883.15.16 | in C62 only |
| 0-S | II | stage II | 2.16.840.1.113883.15.16 | organ dependent |
| 1-S | IIA | stage IIA | TNM Edition7 UICC | organ dependent |
| 2-L | IIA1 | stage IIA1 | 2.16.840.1.113883.15.16 | organ dependent |
| 2-L | IIA2 | stage IIA2 | 2.16.840.1.113883.15.16 | organ dependent |
| 1-L | IIB | stage IIB | 2.16.840.1.113883.15.16 | organ dependent |
| 1-L | IIC | stage IIC | 2.16.840.1.113883.15.16 | organ dependent |
| 0-S | III | stage III | 2.16.840.1.113883.15.16 | organ dependent |
| 1-S | IIIA | stage IIIA | 2.16.840.1.113883.15.16 | organ dependent |
| 2-L | IIIA1 | stage IIIA1 | 2.16.840.1.113883.15.16 | |
| 2-L | IIIA2 | stage IIIA2 | 2.16.840.1.113883.15.16 | |
| 1-L | IIIB | stage IIIB | 2.16.840.1.113883.15.16 | organ dependent |
| 1-S | IIIC | stage IIIC | 2.16.840.1.113883.15.16 | organ dependent |
| 2-L | IIIC1 | stage IIIC1 | 2.16.840.1.113883.15.16 | |
| 2-L | IIIC2 | stage IIIC2 | 2.16.840.1.113883.15.16 | |
| 0-S | IV | stage IV | 2.16.840.1.113883.15.16 | each T, each N, M1 |
| 1-L | IVA | stage IVA | 2.16.840.1.113883.15.16 | organ dependent |
| 1-L | IVB | stage IVB | 2.16.840.1.113883.15.16 | organ dependent |
| 1-L | IVC | stage IVC | 2.16.840.1.113883.15.16 | organ dependent |
| 0-L | BulkyIIA | stage Bulky IIA | 2.16.840.1.113883.15.16 | |
| 0-L | BulkyIIB | stage Bulky IIB | 2.16.840.1.113883.15.16 | |
| 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.

A.7 UICC/AJCC T category 1.3.6.1.4.1.19376.1.3.11.43

| | | | |
|------------------------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.11.43 | Effective Date | valid from 2017-07-07 15:06:39 |
| Status |  Draft | Version Label | |
| Name | UICC-t-value-8ed | Display Name | UICC T category |
| Description | T category in UICC/AJCC (TNM) 8th edition | | |
| 3 Source Code Systems | 2.16.840.1.113883.15.6 - <i>TNM Edition7 UICC</i> 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> 2.16.840.1.113883.15.16 | | |

| Level/ Type | Code | Display Name | Code System |
|-------------|------------|--------------|-------------------|
| 0-L | Ta | Ta | TNM Edition7 UICC |
| 0-S | 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-S | 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 |


| | | | | |
|----|-----|------|------|-------------------------|
| 02 | 2-L | T1b1 | T1b1 | TNM Edition7 UICC |
| 03 | 2-L | T1b2 | T1b2 | TNM Edition7 UICC |
| 04 | 0-L | T1c | T1c | TNM Edition7 UICC |
| 05 | 1-L | T1d | T1d | TNM Edition7 UICC |
| 06 | 0-S | T2 | T2 | TNM Edition7 UICC |
| 07 | 1-L | T2a | T2a | TNM Edition7 UICC |
| 08 | 2-L | T2a1 | T2a1 | TNM Edition7 UICC |
| 09 | 2-L | T2a2 | T2a2 | TNM Edition7 UICC |
| 10 | 1-L | T2b | T2b | TNM Edition7 UICC |
| 11 | 1-L | T2c | T2c | TNM Edition7 UICC |
| 12 | 1-L | T2d | T2d | TNM Edition7 UICC |
| 13 | 0-S | T3 | T3 | TNM Edition7 UICC |
| 14 | 1-L | T3a | T3a | TNM Edition7 UICC |
| 15 | 1-L | T3b | T3b | TNM Edition7 UICC |
| 16 | 1-L | T3c | T3c | TNM Edition7 UICC |
| 17 | 1-L | T3d | T3d | TNM Edition7 UICC |
| 18 | 0-S | T4 | T4 | TNM Edition7 UICC |
| 19 | 1-L | T4a | T4a | TNM Edition7 UICC |
| 20 | 1-L | T4b | T4b | TNM Edition7 UICC |
| 21 | 1-L | T4c | T4c | TNM Edition7 UICC |
| 22 | 1-L | T4d | T4d | TNM Edition7 UICC |
| 23 | 1-L | T4e | T4e | TNM Edition7 UICC |
| 24 | 0-L | Tx | TX | TNM Edition7 UICC |
| 25 | 0-L | Ta | Ta | 2.16.840.1.113883.15.16 |

| | | | | |
|----|-----|------------|------------|-------------------------|
| 02 | 0-S | Tis | Tis | 2.16.840.1.113883.15.16 |
| 03 | 1-L | Tis(LAMN) | Tis(LAMN) | 2.16.840.1.113883.15.16 |
| 04 | 1-L | Tis(DCIS) | Tis(DCIS) | 2.16.840.1.113883.15.16 |
| 05 | 1-L | Tis(LCIS) | Tis(LCIS) | 2.16.840.1.113883.15.16 |
| 06 | 1-L | Tis(Paget) | Tis(Paget) | 2.16.840.1.113883.15.16 |
| 07 | 1-L | Tis(pu) | Tis(pu) | 2.16.840.1.113883.15.16 |
| 08 | 1-L | Tis(pd) | Tis(pd) | 2.16.840.1.113883.15.16 |
| 09 | 0-L | T0 | T0 | 2.16.840.1.113883.15.16 |
| 10 | 0-S | T1 | T1 | 2.16.840.1.113883.15.16 |
| 11 | 1-L | T1mi | T1mi | 2.16.840.1.113883.15.16 |
| 12 | 1-L | T1a | T1a | 2.16.840.1.113883.15.16 |
| 13 | 2-L | T1a1 | T1a1 | 2.16.840.1.113883.15.16 |
| 14 | 2-L | T1a2 | T1a2 | 2.16.840.1.113883.15.16 |
| 15 | 1-L | T1b | T1b | 2.16.840.1.113883.15.16 |
| 16 | 2-L | T1b1 | T1b1 | 2.16.840.1.113883.15.16 |
| 17 | 2-L | T1b2 | T1b2 | 2.16.840.1.113883.15.16 |
| 18 | 1-L | T1c | T1c | 2.16.840.1.113883.15.16 |
| 19 | 2-L | T1c1 | T1c1 | 2.16.840.1.113883.15.16 |
| 20 | 2-L | T1c2 | T1c2 | 2.16.840.1.113883.15.16 |
| 21 | 2-L | T1c3 | T1c3 | 2.16.840.1.113883.15.16 |
| 22 | 1-L | T1d | T1d | 2.16.840.1.113883.15.16 |
| 23 | 0-S | T2 | T2 | 2.16.840.1.113883.15.16 |
| 24 | 1-L | T2a | T2a | 2.16.840.1.113883.15.16 |
| 25 | 2-L | T2a1 | T2a1 | 2.16.840.1.113883.15.16 |

| | | | |
|-----|------|--------------------|-------------------------|
| 2-L | T2a2 | T2a2 | 2.16.840.1.113883.15.16 |
| 1-L | T2b | T2b | 2.16.840.1.113883.15.16 |
| 1-L | T2c | T2c | 2.16.840.1.113883.15.16 |
| 1-L | T2d | T2d | 2.16.840.1.113883.15.16 |
| 0-S | T3 | T3 | 2.16.840.1.113883.15.16 |
| 1-L | T3a | T3a | 2.16.840.1.113883.15.16 |
| 1-L | T3b | T3b | 2.16.840.1.113883.15.16 |
| 1-L | T3c | T3c | 2.16.840.1.113883.15.16 |
| 1-L | T3d | T3d | 2.16.840.1.113883.15.16 |
| 1-L | T3e | T3e | 2.16.840.1.113883.15.16 |
| 0-S | T4 | T4 | 2.16.840.1.113883.15.16 |
| 1-L | T4a | T4a | 2.16.840.1.113883.15.16 |
| 1-L | T4b | T4b | 2.16.840.1.113883.15.16 |
| 1-L | T4c | T4c | 2.16.840.1.113883.15.16 |
| 1-L | T4d | T4d | 2.16.840.1.113883.15.16 |
| 1-L | T4e | T4e | 2.16.840.1.113883.15.16 |
| 0-L | TX | TX | 2.16.840.1.113883.15.16 |
| 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.

A.8 UICC/AJCC T category (SCT) 1.3.6.1.4.1.19376.1.3.11.12

| | | | |
|---------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.11.12 | Effective Date | valid from 2014-05-13 15:52:43 |
| Status |  Draft | Version Label | |
| Name | UICC-t-value5 | Display Name | UICC T category (SCT) |


| | |
|------------------------------|--|
| Description | T-Value from UICC classification |
| 2 Source Code Systems | 2.16.840.1.113883.6.96 - <i>SNOMED Clinical Terms</i> 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> |

| 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.

A.9 UICC/AJCC N category 1.3.6.1.4.1.19376.1.3.11.44

| | | | |
|------------------------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.11.44 | Effective Date | valid from 2017-07-21 10:00:53 |
| Status |  Draft | Version Label | |
| Name | UICC_n_value_8ed | Display Name | UICC N category |
| Description | UICC N category, 8th edition | | |
| 3 Source Code Systems | 2.16.840.1.113883.15.16 2.16.840.1.113883.15.6 - <i>TNM Edition7 UICC</i> 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> | | |


| Level/ Type | Code | Display Name | Code System |
|-------------|------|--------------|-------------------------|
| 0-L | N0 | N0 | 2.16.840.1.113883.15.16 |
| 0-S | N1 | N1 | 2.16.840.1.113883.15.16 |
| 1-L | N1mi | N1mi | 2.16.840.1.113883.15.16 |

| | | | | |
|----|-----|------|------|-------------------------|
| 01 | | | | |
| 02 | 1-L | N1a | N1a | 2.16.840.1.113883.15.16 |
| 03 | 1-L | N1b | N1b | 2.16.840.1.113883.15.16 |
| 04 | 1-L | N1c | N1c | 2.16.840.1.113883.15.16 |
| 05 | 0-S | N2 | N2 | 2.16.840.1.113883.15.16 |
| 06 | 1-L | N2a | N2a | 2.16.840.1.113883.15.16 |
| 07 | 1-L | N2b | N2b | 2.16.840.1.113883.15.16 |
| 08 | 1-L | N2c | N2c | 2.16.840.1.113883.15.16 |
| 09 | 0-S | N3 | N3 | 2.16.840.1.113883.15.16 |
| 10 | 1-L | N3a | N3a | 2.16.840.1.113883.15.16 |
| 11 | 1-L | N3b | N3b | 2.16.840.1.113883.15.16 |
| 12 | 1-L | N3c | N3c | 2.16.840.1.113883.15.16 |
| 13 | 0-L | NX | Nx | 2.16.840.1.113883.15.16 |
| 14 | 0-L | N0 | N0 | TNM Edition7 UICC |
| 15 | 0-S | N1 | N1 | TNM Edition7 UICC |
| 16 | 1-L | N1mi | N1mi | TNM Edition7 UICC |
| 17 | 1-L | N1a | N1a | TNM Edition7 UICC |
| 18 | 1-L | N1b | N1b | TNM Edition7 UICC |
| 19 | 1-L | N1c | N1c | TNM Edition7 UICC |
| 20 | 0-S | N2 | N2 | TNM Edition7 UICC |
| 21 | 1-L | N2a | N2a | TNM Edition7 UICC |
| 22 | 1-L | N2b | N2b | TNM Edition7 UICC |
| 23 | 1-L | N2c | N2c | TNM Edition7 UICC |
| 24 | 0-S | N3 | N3 | TNM Edition7 UICC |
| 25 | 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 |

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

A.10 UICC/AJCC N category (SCT) 1.3.6.1.4.1.19376.1.3.11.13


| | | | |
|------------------------------|--|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.11.13 | Effective Date | valid from 2014-10-27 14:47:35 |
| Status |  Draft | Version Label | |
| Name | UICC_N_values | Display Name | UICC N category (SCT) |
| Description | N-Value from UICC classification | | |
| 2 Source Code Systems | 2.16.840.1.113883.6.96 - <i>SNOMED Clinical Terms</i> 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> | | |

| 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 |
| 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.

A.11 UICC/AJCC M category 1.3.6.1.4.1.19376.1.3.11.45


| | | | |
|------------------------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.11.45 | Effective Date | valid from 2017-07-21 10:31:38 |
| Status |  Draft | Version Label | |
| Name | UICC-m-values-8ed | Display Name | UICC M category |
| 3 Source Code Systems | 2.16.840.1.113883.15.6 - <i>TNM Edition7 UICC</i> 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> 2.16.840.1.113883.15.16 | | |

| Level/ Type | Code | Display Name | Code System |
|-------------|------|--------------|-------------------|
| 0-L | M0 | M0 | TNM Edition7 UICC |
| 0-S | M1 | M1 | 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 |
| 0-L | MX | MX | TNM Edition7 UICC |
| 0-L | ASKU | Asked, but unknown | Null Flavor |
| 0-L | M0 | M0 | 2.16.840.1.113883.15.16 |
| 0-S | M1 | M1 | 2.16.840.1.113883.15.16 |
| 1-L | M1a | M1a | 2.16.840.1.113883.15.16 |
| 1-L | M1b | M1b | 2.16.840.1.113883.15.16 |
| 1-L | M1c | M1c | 2.16.840.1.113883.15.16 |
| 1-L | M1d | M1d | 2.16.840.1.113883.15.16 |
| 0-L | MX | MX | 2.16.840.1.113883.15.16 |

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

A.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 | valid from 2014-05-13 16:11:15 |
| Status |  Draft | Version Label | |
| Name | UICC-m-value | Display Name | UICC M category (SCT) |
| Description | M-Value from UICC classification | | |
| 2 Source Code Systems | 2.16.840.1.113883.6.96 - <i>SNOMED Clinical Terms</i> 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> | | |


| Level/ Type | Code | Display Name | Code System |
|-------------|-----------|--------------------------------------|-----------------------|
| 0-L | 30893008 | M0 stage (tumor staging) | SNOMED Clinical Terms |
| 0-S | 55440008 | M1 stage (tumor staging) | SNOMED Clinical Terms |
| 1-L | 261927002 | Metastasis stage M1a (tumor staging) | SNOMED Clinical Terms |
| 1-L | 261928007 | Metastasis stage M1b (tumor staging) | SNOMED Clinical Terms |

| | | | |
|-----|-----------|--------------------------------------|-----------------------|
| 1-L | 261929004 | Metastasis stage M1c (tumor staging) | SNOMED Clinical Terms |
| 0-L | 27167007 | MX stage (tumor staging) | 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.

A.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.


| | | | |
|---------------------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.11.19 | Effective Date | valid from 2015-11-13 13:56:23 |
| Status |  Draft | Version Label | |
| Name | uicc-c-factor-tnm | Display Name | UICC C-Factor |
| Description | Qualifier for any TNM category coding the certainty of classification by the methods used | | |
| Source Code System | 2.16.840.1.113883.15.6 - TNM Edition7 UICC | | |

| 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.

A.14 UICC/AJCC C-Factor (SCT) 1.3.6.1.4.1.19376.1.3.11.20


| | | | |
|-----------|-----------------------------|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.11.20 | Effective Date | valid from 2015-06-22 15:47:55 |
|-----------|-----------------------------|-----------------------|--------------------------------|

| | | | |
|---------------------------|---|----------------------|---------------------|
| Status |  Draft | Version Label | |
| Name | uicc-c-factor | Display Name | UICC C-Factor (SCT) |
| Description | Qualifier for any TNM category coding the certainty of classification by the methods used | | |
| Source Code System | 2.16.840.1.113883.6.96 - SNOMED Clinical Terms | | |

| Level/ Type | Code | Display Name | Code System |
|-------------|----------|---------------------------|-----------------------|
| 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.

A.15 UICC/AJCC Residual tumor (R) classification 1.3.6.1.4.1.19376.1.3.11.21

| | | | |
|------------------------------|---|-----------------------|--|
| Id | 1.3.6.1.4.1.19376.1.3.11.21 | Effective Date | valid from 2015-06-25 11:23:51 |
| Status |  Draft | Version Label | |
| Name | UICC-R-status | Display Name | UICC Residual tumor (R) classification |
| Description | Value set for Residual tumor state with values for extended R-Klassifikation (TNM Suppl. 4th ed.) | | |
| 5 Source Code Systems | 2.16.840.1.113883.6.96 - SNOMED Clinical Terms 2.16.840.1.113883.15.16 2.16.840.1.113883.15.6 - TNM Edition7 UICC 1.2.276.0.76.3.1.131.1.5.120 2.16.840.1.113883.5.1008 - Null Flavor | | |


| Level/ Type | Code | Display Name | Code System | Description |
|-------------|-----------|-----------------------------------|-----------------------|-------------|
| 0-S | 258254000 | Residual tumor stage R0 (finding) | SNOMED Clinical Terms | |

| | | | | |
|-----|-----------|--|------------------------------|---|
| 1-L | 415675004 | Surgical circumferential margin is closest uninvolved margin to malignant neoplasm (finding) | SNOMED Clinical Terms | No residual tumor: R0 > 1mm CRM negative |
| 0-S | 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 CRM) (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 | 2.16.840.1.113883.15.16 | |
| 0-L | R0>1mm | R0 > 1mm | TNM Edition7 UICC | |
| 0-L | R0<1mm | R0 < 1mm | TNM Edition7 UICC | |
| 0-S | R1 | R1 | 2.16.840.1.113883.15.16 | |
| 0-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 | 2.16.840.1.113883.15.16 | |
| 0-L | R2a | R2a | TNM Edition7 UICC | |
| 0-L | R2b | R2b | TNM Edition7 UICC | |
| 0-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.

A.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.


| | | | | | | |
|---|---|-----------------------|--------------------------------|-------------------------|---|---|
| Id | 1.3.6.1.4.1.19376.1.3.11.22 | Effective Date | valid from 2015-11-04 15:52:34 | | | |
| Status |  Draft | Version Label | | | | |
| Name | UICC-clinical-pathological | Display Name | UICC clinical/pathological | | | |
| Description | Qualifiers for each TNM category classifying the observation method and the time frame of observation in relation to treatment | | | | | |
| 3 Source Code Systems | <table border="1"> <tr> <td>2.16.840.1.113883.15.16</td> </tr> <tr> <td>1.2.276.0.76.11.9 - <i>hl7de-valueset-9</i></td> </tr> <tr> <td>2.16.840.1.113883.5.1008 - <i>Null Flavor</i></td> </tr> </table> | | | 2.16.840.1.113883.15.16 | 1.2.276.0.76.11.9 - <i>hl7de-valueset-9</i> | 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> |
| 2.16.840.1.113883.15.16 | | | | | | |
| 1.2.276.0.76.11.9 - <i>hl7de-valueset-9</i> | | | | | | |
| 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> | | | | | | |

| Level/ Type | Code | Display Name | Code System | Description |
|-------------|------|--------------------|-------------------------|--|
| 0-L | p | p | 2.16.840.1.113883.15.16 | 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-S | c | c | 2.16.840.1.113883.15.16 | The clinical classification is based on evidence acquired before treatment |
| 1-L | u | u | hl7de-valueset-9 | The clinical classification is based on ultrasound evidence acquired before treatment |
| 1-L | ct | ct | hl7de-valueset-9 | The clinical classification is based on CT imaging evidence acquired before treatment |
| 1-L | mr | mr | hl7de-valueset-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.

A.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.


| | | | |
|---------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.11.23 | Effective Date | valid from 2015-11-04 16:17:55 |
| Status |  Draft | Version Label | |

| Name | UICC-vene-invasion | Display Name | UICC Venous Invasion |
|------------------------------|--|---------------------|-------------------------|
| Description | Observation for tumor spread coding the degree of venous invasion | | |
| 2 Source Code Systems | 2.16.840.1.113883.15.16 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> | | |
| Level/ Type | Code | Display Name | Code System |
| 0-L | V0 | V0 | 2.16.840.1.113883.15.16 |
| 0-L | V1 | V1 | 2.16.840.1.113883.15.16 |
| 0-L | V2 | V2 | 2.16.840.1.113883.15.16 |
| 0-L | VX | VX | 2.16.840.1.113883.15.16 |
| 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.

A.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.


| Id | 1.3.6.1.4.1.19376.1.3.11.24 | Effective Date | valid from 2015-11-04 16:19:20 |
|------------------------------|--|-----------------------|--------------------------------|
| Status |  Draft | Version Label | |
| Name | UICC-lymphatic-invasion | Display Name | UICC Lymphatic Invasion |
| Description | Observation for tumor spread coding the degree of lymphatic invasion | | |
| 2 Source Code Systems | 2.16.840.1.113883.15.16 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> | | |
| Level/ Type | Code | Display Name | Code System |
| 0-L | L0 | L0 | 2.16.840.1.113883.15.16 |
| 0-L | L1 | L1 | 2.16.840.1.113883.15.16 |
| 0-L | LX | LX | 2.16.840.1.113883.15.16 |

| | | | |
|-----|------|-------------------|-------------|
| 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.

A.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.

| | | | | | |
|---|---|-----------------------|--------------------------------|-------------------------|---|
| Id | 1.3.6.1.4.1.19376.1.3.11.25 | Effective Date | valid from 2015-11-04 16:20:42 | | |
| Status |  Draft | Version Label | | | |
| Name | UICC-perineural-invasion | Display Name | UICC Perineural Invasion | | |
| Description | Observation for tumor spread coding the degree of perineural (lymphatic nerve sheet) invasion | | | | |
| 2 Source Code Systems | <table border="1"> <tr> <td>2.16.840.1.113883.15.16</td> </tr> <tr> <td>2.16.840.1.113883.5.1008 - <i>Null Flavor</i></td> </tr> </table> | | | 2.16.840.1.113883.15.16 | 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> |
| 2.16.840.1.113883.15.16 | | | | | |
| 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> | | | | | |

| Level/ Type | Code | Display Name | Code System | Description |
|-------------|------|--------------------|-------------------------|------------------------|
| 0-L | Pn0 | Pn0 | 2.16.840.1.113883.15.16 | no perineural invasion |
| 0-L | Pn1 | Pn1 | 2.16.840.1.113883.15.16 | Perineural invasion |
| 0-L | PnX | PnX | 2.16.840.1.113883.15.16 | 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.


A.20 UICC/AJCC Mucosa 1.3.6.1.4.1.19376.1.3.11.26

| | | | |
|---------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.11.26 | Effective Date | valid from 2015-11-04 16:22:04 |
| Status |  Draft | Version Label | |
| Name | UICC-mucosa | Display Name | UICC Mucosa |

| Source Code System | 1.2.276.0.76.3.1.131.1.5.1 | | | |
|---------------------------|----------------------------|--------------|----------------------------|---------------------------------|
| 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.


A.21 UICC/AJCC Submucosa 1.3.6.1.4.1.19376.1.3.11.27

| Id | 1.3.6.1.4.1.19376.1.3.11.27 | Effective Date | valid from 2015-11-04 16:23:24 | |
|---------------------------|---|-----------------------|--------------------------------|------------------------------------|
| Status |  Draft | Version Label | | |
| Name | UICC-submucosa | Display Name | UICC Submucosa | |
| Source Code System | 1.2.276.0.76.3.1.131.1.5.1 | | | |
| 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.

A.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.

| | | | |
|---------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.11.28 | Effective Date | valid from 2015-11-04 16:26:53 |
| Status |  Draft | Version Label | |


| | | | |
|---------------------------|--|---------------------|---|
| Name | UICC-distant-metastasis-localization | Display Name | UICC Localization of distant metastases |
| Description | Qualifier for M category coding the localization of distant metastasis in case of M1 or M2 | | |
| Source Code System | 2.16.840.1.113883.15.16 | | |

| Level/ Type | Code | Display Name | Code System |
|-------------|------|--------------|-------------------------|
| 0-L | PUL | PUL | 2.16.840.1.113883.15.16 |
| 0-L | OSS | OSS | 2.16.840.1.113883.15.16 |
| 0-L | HEP | HEP | 2.16.840.1.113883.15.16 |
| 0-L | BRA | BRA | 2.16.840.1.113883.15.16 |
| 0-L | LYM | LYM | 2.16.840.1.113883.15.16 |
| 0-L | OTH | OTH | 2.16.840.1.113883.15.16 |
| 0-L | MAR | MAR | 2.16.840.1.113883.15.16 |
| 0-L | PLE | PLE | 2.16.840.1.113883.15.16 |
| 0-L | PER | PER | 2.16.840.1.113883.15.16 |
| 0-L | ADR | ADR | 2.16.840.1.113883.15.16 |
| 0-L | SKI | SKI | 2.16.840.1.113883.15.16 |

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

A.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.


| | | | |
|--------------------|--|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.11.29 | Effective Date | valid from 2015-11-13 19:36:21 |
| Status |  Draft | Version Label | |
| Name | UICCgrade | Display Name | UICC Grade 3 tiered |
| Description | 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 | | |

| Level/ Type | Code | Display Name | Code System | Description |
|-------------|------|-------------------|-------------------------|---------------------------------------|
| 0-L | 1 | G1 | 2.16.840.1.113883.15.16 | grade 1, well (highly) differentiated |
| 0-L | 2 | G2 | 2.16.840.1.113883.15.16 | grade 2, moderately differentiated |
| 0-L | 3 | G3 | 2.16.840.1.113883.15.16 | grade 3, poorly differentiated |
| 0-L | X | GX | 2.16.840.1.113883.15.16 | cannot be assessed |
| 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.

A.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.

| Id | 1.3.6.1.4.1.19376.1.3.11.30 | Effective Date | valid from 2015-11-13 19:43:09 | |
|------------------------------|--|-----------------------|--------------------------------|--|
| Status |  Draft | Version Label | | |
| Name | UICCgrade-2 | Display Name | UICC Grade 2 tiered | |
| Description | 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 | | | |
| 2 Source Code Systems | 2.16.840.1.113883.15.16 2.16.840.1.113883.5.1008 - Null Flavor | | | |
| Level/ Type | Code | Display Name | Code System | Description |
| 0-L | L | IG | 2.16.840.1.113883.15.16 | low grade, combining grade 1 and 2 (except urothelial tumors: only grade 1) |
| 0-L | H | hG | 2.16.840.1.113883.15.16 | low grade, combining grade 3 and 4 (except urothelial tumors: grade 2 through 4) |
| 0-L | X | X | 2.16.840.1.113883.15.16 | cannot be assessed |
| 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.

A.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.

| | | | |
|------------------------------|--|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.11.31 | Effective Date | valid from 2015-11-13 19:46:53 |
| Status |  Draft | Version Label | |
| Name | UICCgrade-4 | Display Name | UICC Grade 4 tiered |
| Description | 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. | | |
| 3 Source Code Systems | 2.16.840.1.113883.15.16 1.2.276.0.76.5.336 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> | | |


| Level/ Type | Code | Display Name | Code System | Description |
|-------------|------|--------------|-------------------------|-----------------------------------|
| 0-L | 1 | G1 | 2.16.840.1.113883.15.16 | well (highly) differentiated |
| 0-L | 2 | G2 | 2.16.840.1.113883.15.16 | moderately differentiated |
| 0-L | 3 | G3 | 2.16.840.1.113883.15.16 | poorly differentiated |
| 0-L | 4 | G4 | 2.16.840.1.113883.15.16 | undifferentiated resp. anaplastic |
| 0-L | X | GX | 2.16.840.1.113883.15.16 | 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 |
| 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.

A.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.

| | | | |
|------------------------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.11.32 | Effective Date | valid from 2015-11-08 18:26:39 |
| Status |  Draft | Version Label | |
| Name | UICCSerumTumorMarkers | Display Name | UICC Serum Tumor Markers |
| Description | Observation of serum levels of tumor markers coded for germ cell tumors | | |
| 2 Source Code Systems | 2.16.840.1.113883.15.16 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> | | |

| Level/ Type | Code | Display Name | Code System | Description |
|-------------|------|--------------------|-------------------------|---|
| 0-L | S0 | S0 | 2.16.840.1.113883.15.16 | serum tumor markers within normal limits |
| 0-L | S1 | S1 | 2.16.840.1.113883.15.16 | LDH < 1,5* normal limit AND β HCG < 5000mIU/ml AND AFP <1000 ng/ml |
| 0-L | S2 | S2 | 2.16.840.1.113883.15.16 | LDH 1,5 - 10* normal limit OR β HCG 5000 - 50000 mIU/ml OR AFP 1000 - 10000 ng/ml |
| 0-L | S3 | S3 | 2.16.840.1.113883.15.16 | LDH >10* normal limit OR β HCG > 50000 mIU/ml OR AFP > 10000 ng/ml |
| 0-L | SX | SX | 2.16.840.1.113883.15.16 | 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.

A.27 ICD-O-3 Morphology and Behavior 1.3.6.1.4.1.19376.1.3.11.33

| | | | |
|--------------------|---|-----------------------|---------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.11.33 | Effective Date | valid from 2015-11-13 14:08:46 |
| Status |  Draft | Version Label | 1st rev. (2013) |
| Name | icd-o-3-m | Display Name | ICD-O-3 Morphology and Behavior |
| Description | International classification of diseases / oncology, morphological part for typing of benign and malignant tumors. The morphology axis provides five-digit codes ranging from 8000/0 to 9989/3. The first four digits indicate the specific histological term, i.e. morphology (8000 through 9989). The fifth digit after the slash (/) is the behavior code, which indicates whether a tumor is malignant, benign, in situ, or uncertain (whether benign or malignant). Deviations from the coding of the fifth digit are allowed, if the pathologist classifies a different behavior, not provided in the code list. A separate, 6th, one-digit code may also be given for histologic 4-tiered grading (differentiation) or for the cell type in lymphatic neoplasia. All new histological classifications have been made by the WHO / IARC in so-called "blue books" since 2011 are listed on-line: http://codes.iarc.fr/changes.php . 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 | | |

A valid code from the code system:

| Code System Name | Code System Id | Code System Version |
|--|--------------------------|---------------------|
| <i>International Classification of Diseases for Oncology, version 3.</i> | 2.16.840.1.113883.6.43.1 | |

Or one of the following:

| 2 Source Code Systems | 2.16.840.1.113883.6.43.1 - <i>International Classification of Diseases for Oncology, version 3.</i> | | |
|------------------------------|---|-------------------|-------------|
| | 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> | | |
| Level/ Type | Code | Display Name | 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.


A.28 ICD-O-3 Behavior 1.3.6.1.4.1.19376.1.3.11.34

| | | | |
|---------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.11.34 | Effective Date | valid from 2015-11-13 18:54:30 |
| Status |  Draft | Version Label | 1st rev. (2013) |
| Name | icd-o-3-behavior | Display Name | ICD-O-3 Behavior |

| Description | Coding of the behavior of a tumor, coded by the first digit after slash in ICD-O-Morphology code | | | |
|------------------------------|--|-------------------|---|---|
| 2 Source Code Systems | 2.16.840.1.113883.6.43.1 - <i>International Classification of Diseases for Oncology, version 3.</i> 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> | | | |
| 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.


A.29 ICD-O-3 Differentiation 1.3.6.1.4.1.19376.1.3.11.35

| Id | 1.3.6.1.4.1.19376.1.3.11.35 | Effective Date | valid from 2015-11-13 19:07:32 | |
|------------------------------|--|-----------------------|---|------------------------------|
| Status |  Draft | Version Label | 1st rev. (2013) | |
| Name | icd-o-3-differentiation | Display Name | ICD-O-3 Differentiation | |
| Description | 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 | | | |
| 2 Source Code Systems | 2.16.840.1.113883.6.43.1 - <i>International Classification of Diseases for Oncology, version 3.</i> 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> | | | |
| 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 |
| <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.

A.30 ICD-O-3 Topography 1.3.6.1.4.1.19376.1.3.11.36

| | | | |
|--------------------|--|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.11.36 | Effective Date | valid from 2015-11-13 19:16:23 |
| Status |  Draft | Version Label | 1st rev. (2013) |
| Name | icd-o-3-topography | Display Name | ICD-O-3 Topography |
| Description | 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 |
|--|--------------------------|---------------------|
| <i>International Classification of Diseases for Oncology, version 3.</i> | 2.16.840.1.113883.6.43.1 | |

Or one of the following:


| | |
|------------------------------|--|
| 2 Source Code Systems | 2.16.840.1.113883.6.43.1 - <i>International Classification of Diseases for Oncology, version 3.</i> 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> |
|------------------------------|--|

| 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.

A.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.


| | | | |
|---------------------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.11.37 | Effective Date | valid from 2015-11-06 10:44:54 |
| Status |  Draft | Version Label | |
| Name | UICC-Multiplicity | Display Name | UICC Multiplicity |
| Source Code System | 2.16.840.1.113883.15.16 | | |

| Level/ Type | Code | Display Name | Code System | Description |
|-------------|------|--------------|-------------------------|---|
| 0-L | m | (m) | 2.16.840.1.113883.15.16 | Qualifier for T-category: multiple simultaneous tumors in one organ |
| 0-L | 2 | (2) | 2.16.840.1.113883.15.16 | Qualifier for T-category: two simultaneous tumors in one organ |
| 0-L | 3 | (3) | 2.16.840.1.113883.15.16 | Qualifier for T-category: three simultaneous tumors in one organ |
| 0-L | 4 | (4) | 2.16.840.1.113883.15.16 | Qualifier for T-category: four simultaneous tumors in one organ |
| 0-L | 5 | (5) | 2.16.840.1.113883.15.16 | Qualifier for T-category: five simultaneous tumors in one organ |
| 0-L | 6 | (6) | 2.16.840.1.113883.15.16 | Qualifier for T-category: six simultaneous tumors in one organ |
| 0-L | 7 | (7) | 2.16.840.1.113883.15.16 | Qualifier for T-category: seven simultaneous tumors in one organ |
| 0-L | 8 | (8) | 2.16.840.1.113883.15.16 | Qualifier for T-category: eight simultaneous tumors in one organ |
| 0-L | 9 | (9) | 2.16.840.1.113883.15.16 | |

Legenda: Type L=leaf, S=specializable, A=abstract, D=deprecated. NullFlavors to appear in @nullFlavor attribute instead of @code.

A.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.


| | | | | | |
|---|--|-----------------------|--------------------------------|-------------------------|---|
| Id | 1.3.6.1.4.1.19376.1.3.11.38 | Effective Date | valid from 2017-03-13 09:48:35 | | |
| Status |  Draft | Version Label | | | |
| Name | UICCITC | Display Name | UICC Isolated Tumor Cells | | |
| Description | 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 | | | | |
| 2 Source Code Systems | <table border="1"> <tr> <td>2.16.840.1.113883.15.16</td> </tr> <tr> <td>2.16.840.1.113883.5.1008 - <i>Null Flavor</i></td> </tr> </table> | | | 2.16.840.1.113883.15.16 | 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> |
| 2.16.840.1.113883.15.16 | | | | | |
| 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> | | | | | |

| Level/ Type | Code | Display Name | Code System |
|-------------|------|-------------------|-------------------------|
| 0-L | i+ | (i+) | 2.16.840.1.113883.15.16 |
| 0-L | i- | (i-) | 2.16.840.1.113883.15.16 |
| 0-L | mol+ | (mol+) | 2.16.840.1.113883.15.16 |
| 0-L | mol- | (mol-) | 2.16.840.1.113883.15.16 |
| 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.

A.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.


| | | | |
|---------------|---|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.11.39 | Effective Date | valid from 2015-11-06 10:36:10 |
| Status |  Draft | Version Label | |
| Name | UICC-Relapse | Display Name | UICC Recurrence |

| | | | | |
|------------------------------|--|---------------------|-------------------------|--|
| Description | Symbol for TNM: recurrent tumor after a disease-free interval after a curative treatment | | | |
| 2 Source Code Systems | 2.16.840.1.113883.15.16 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> | | | |
| Level/ Type | Code | Display Name | Code System | Description |
| 0-L | r | r | 2.16.840.1.113883.15.16 | 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.

A.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.

| | | | | |
|------------------------------|---|-----------------------|--------------------------------|--|
| Id | 1.3.6.1.4.1.19376.1.3.11.40 | Effective Date | valid from 2015-11-06 10:39:53 | |
| Status |  Draft | Version Label | | |
| Name | UICC-Posttherapeutic | Display Name | UICC Posttherapeutic | |
| Description | Symbol for TNM: tumor after a multimodal (e.g. neo-adjuvant) therapy | | | |
| 2 Source Code Systems | 2.16.840.1.113883.15.16 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> | | | |
| Level/ Type | Code | Display Name | Code System | Description |
| 0-L | y | y | 2.16.840.1.113883.15.16 | 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.

A.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.

| | | | |
|------------------------------|--|-----------------------|--------------------------------|
| Id | 1.3.6.1.4.1.19376.1.3.11.41 | Effective Date | valid from 2015-11-18 15:55:17 |
| Status |  Draft | Version Label | |
| Name | UICC-Autopsy | Display Name | UICC Autopsy |
| Description | Symbol for TNM: Has this tumor formula been derived first at autopsy? | | |
| 2 Source Code Systems | 2.16.840.1.113883.15.6 - <i>TNM Edition7 UICC</i> 2.16.840.1.113883.5.1008 - <i>Null Flavor</i> | | |

| Level/ Type | Code | Display Name | Code System | Description |
|-------------|------|-------------------|-------------------|---|
| 0-L | a | a | TNM Edition7 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.

References

1. Goldsmith, J.D., et al., "Reporting guidelines for clinical laboratory reports in surgical pathology" Arch Pathol Lab Med, 2008. 132(10): p. 1608-16
2. http://www.cap.org/web/oracle/webcenter/portalapp/pagehierarchy/cancer_protocol_templates.jspx?_adf.ctrl-state=e1f4ltym4_4&_afLoop=275425457234715#!
3. <http://www.sopathol.org>
4. <http://www.e-cancer.fr>
5. DICOM controlled vocabulary <http://nema.org/dicom/dicm>
6. UICC TNM <http://www.uicc.org/resources/tnm>
7. OMIM Johns Hopkins University School of Medicine <http://www.omim.org>
8. Coding Schemes German Cancer Society <http://wiki.hl7.de/index.php?title=cdaonk:OID-Konzept>
9. HL7 DAM Specimen Release 1 http://www.hl7.org/implement/standards/product_brief.cfm?product_id=331