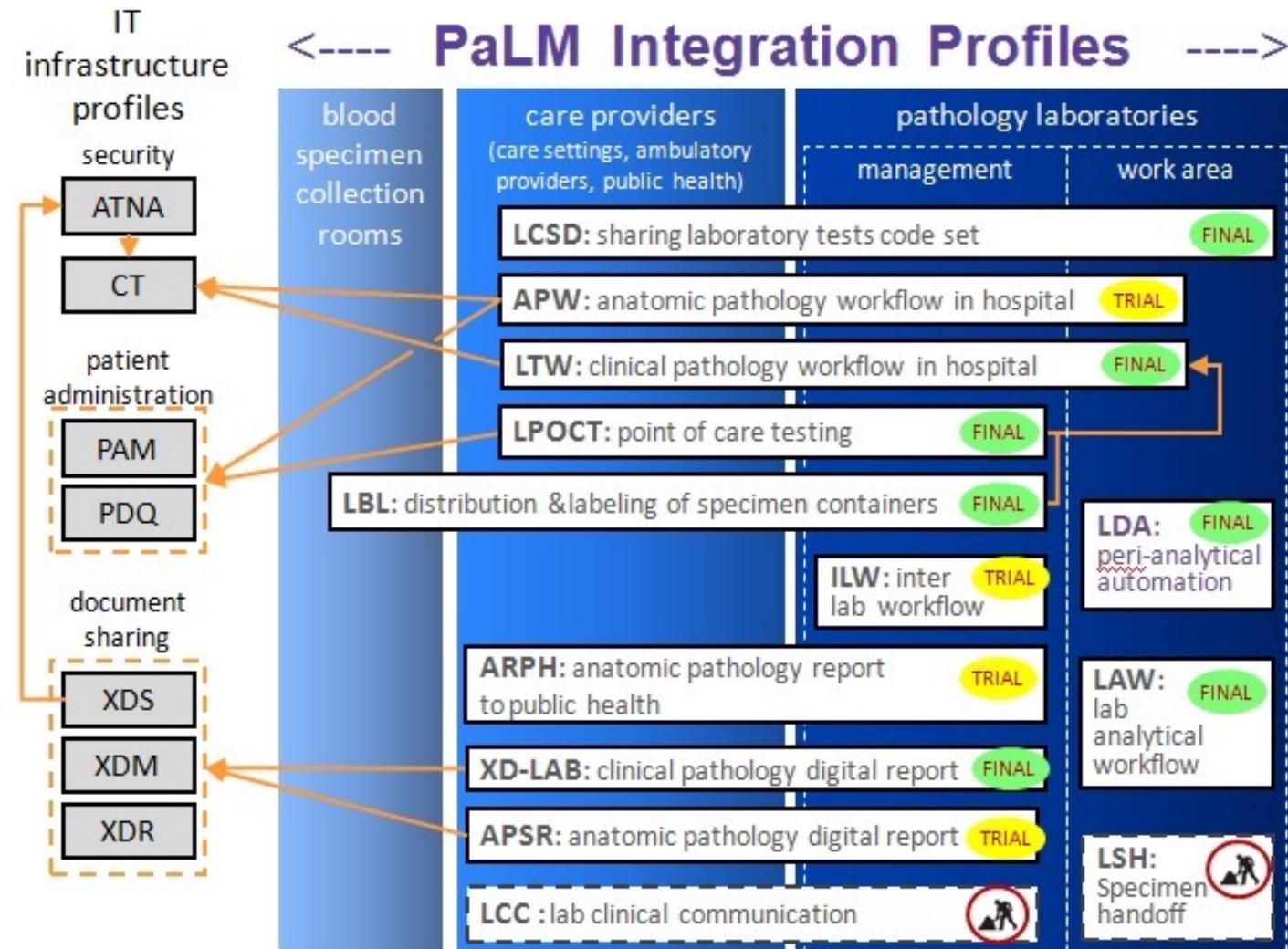


# Pathologiebefund und Krebsregister

Synergien nutzen, mehr denn je

Gunter Haroske, Dresden  
Tobias Hartz, Hannover

# IHE PaLM TF rev. 7.0 2016

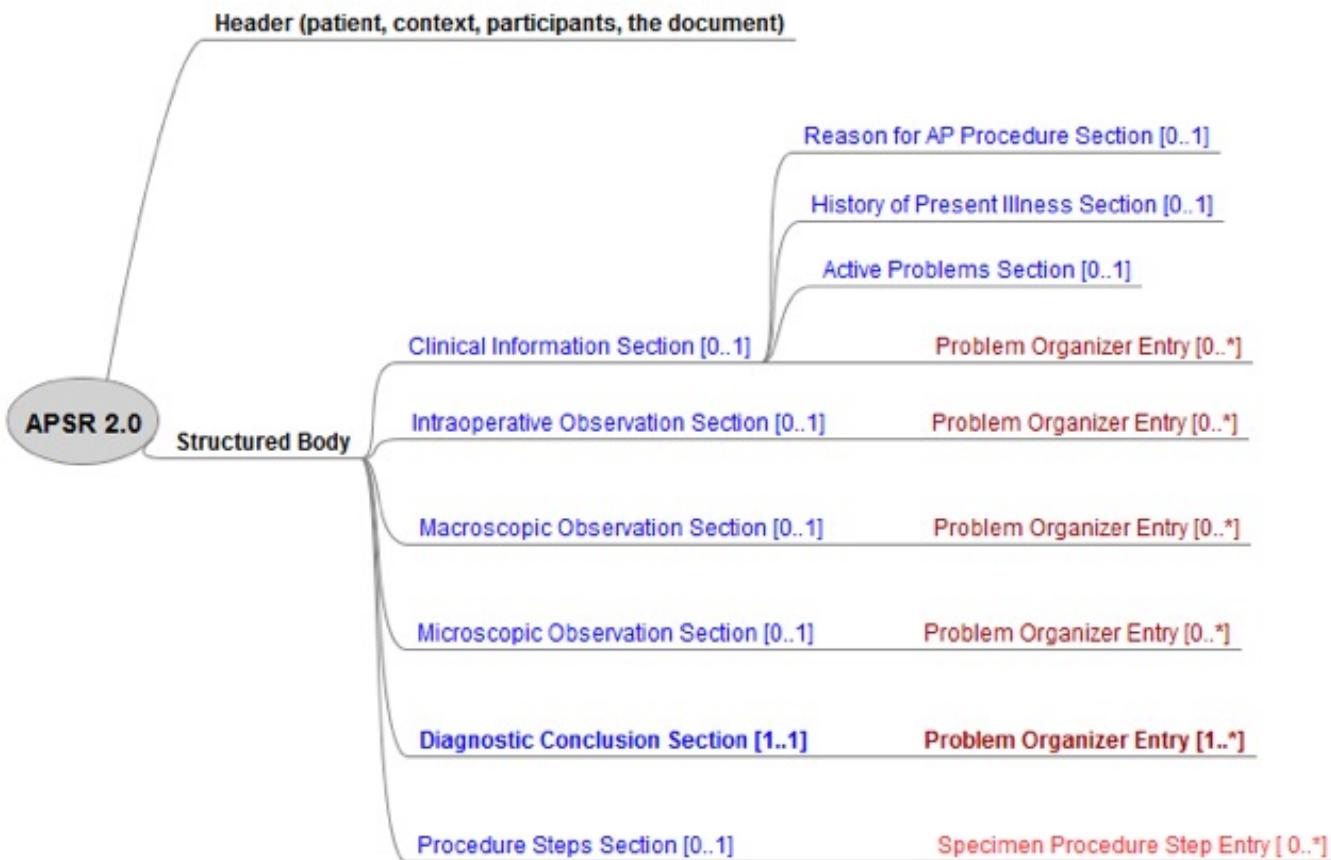


# IHE PaLM Suppl. APSR 2.0

## Aims

- **Anatomic pathology structured reports** document the **findings** on **specimens** removed from **patients** for diagnostic or therapeutic reasons.
- **Information** for
  - patient care,
  - **clinical research**
  - **epidemiology**.
- **improve** the quality of reporting
- **facilitate** the exchange and reuse of the content of these reports.
- **digital anatomic pathology report**
  - human-readable format
  - may include images
  - 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.
- **Scope**
  - all fields of anatomic pathology (cancers, benign neoplasms as well as non-neoplastic conditions) as well as cytopathology.

# IHE APSR 2.0



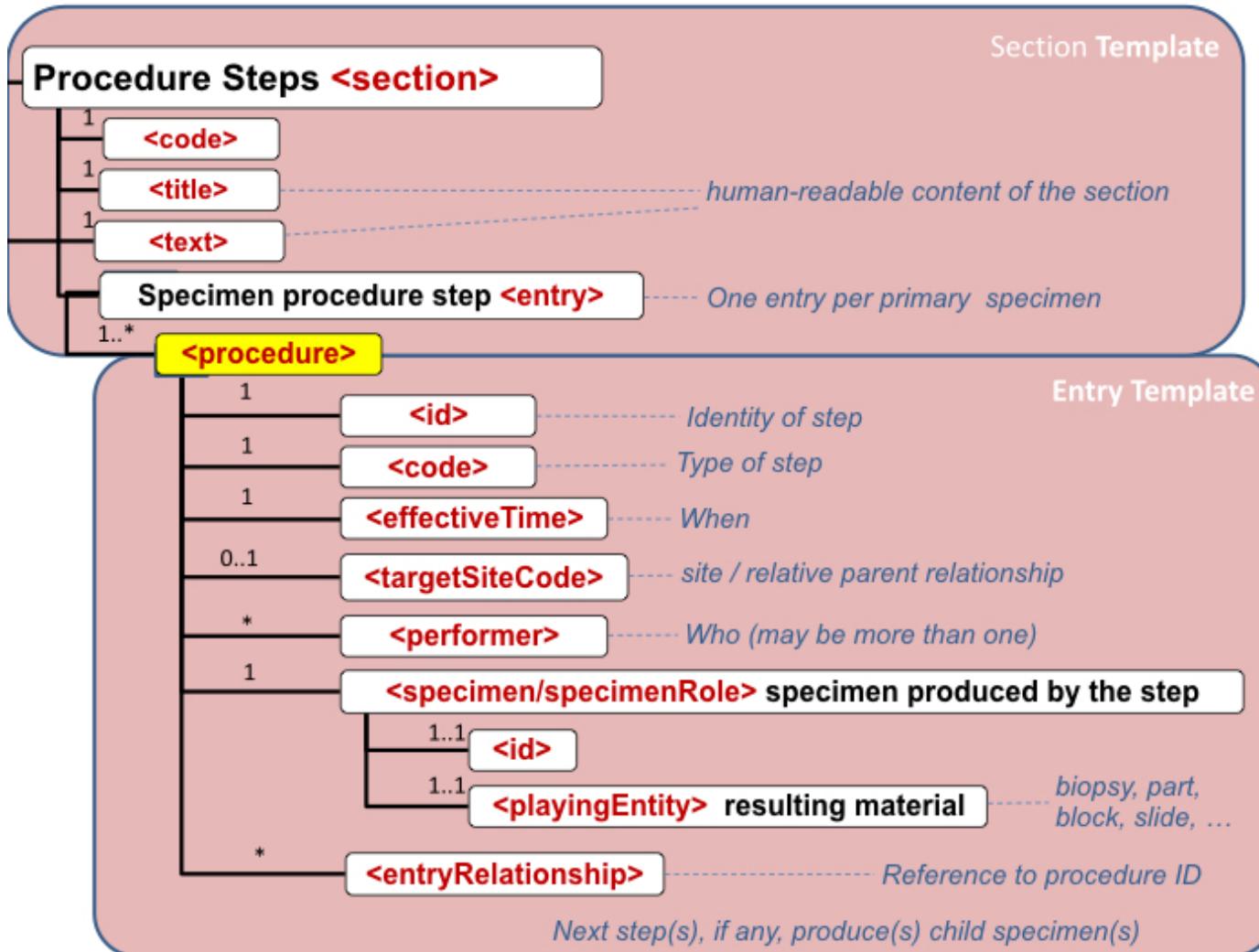
# Content modules

- 1 Document Module
- 6 Section Modules
- 2 primäre Entry Modules (Problem Organizer, Specimen Procedure Steps)
- 14 Child Element Modules

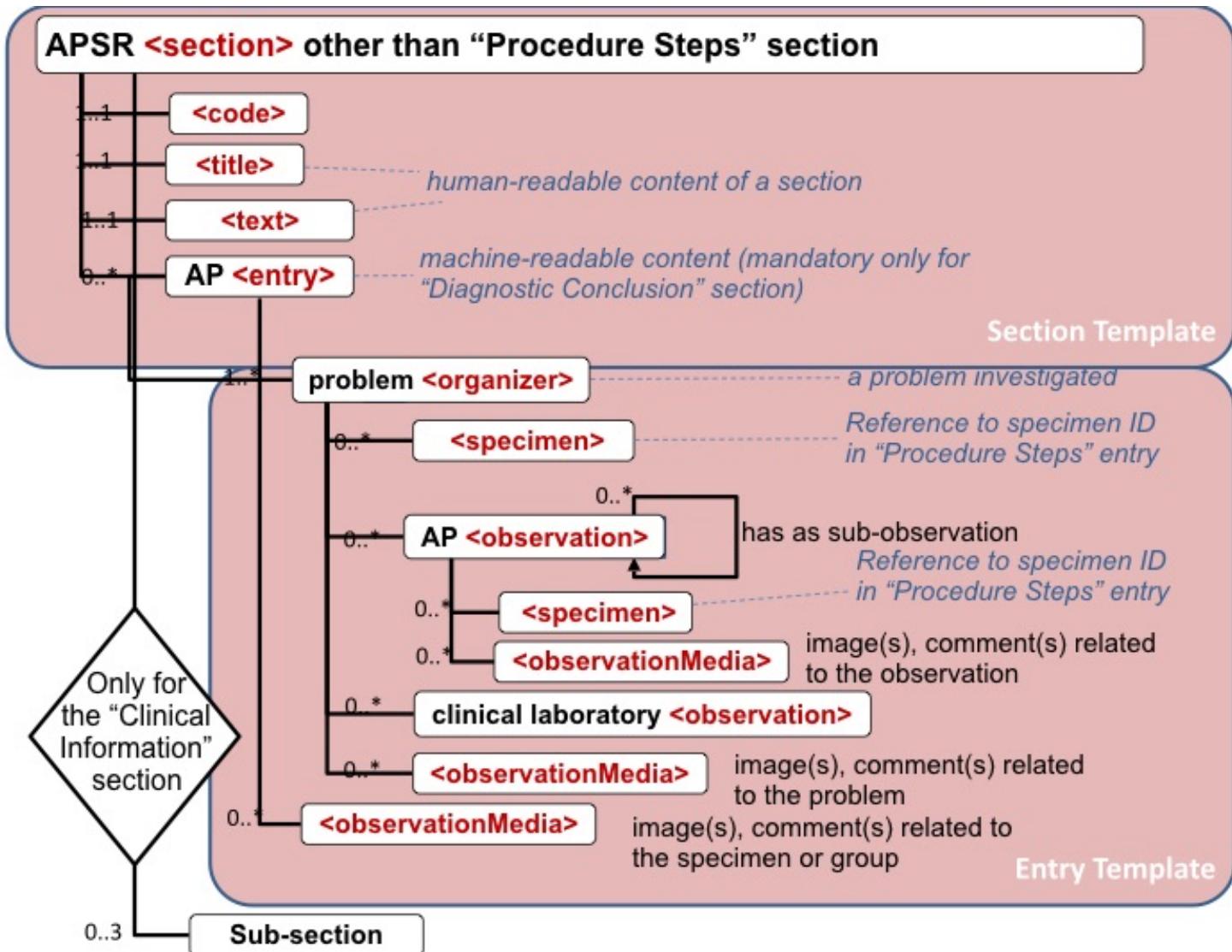
darunter neu:

- X Specimen Identified  
(gemeinsam mit XD-LAB)
- UICC/AJCC TNM
- ICD-O-3 Typing and Grading
- Assessment Scales for Scoring Systems  
(AP constrains einer CDA Observation)

# Struktur (i)



# Struktur (ii)



Organizer  
classCode <=  
moodCode <= EVN  
id: II [1..1]  
code: CE CWE [1..1] <= ActCode  
statusCode <= 'completed'  
effectiveTime: GTS [0..\*]

Observation  
classCode <= OBS  
moodCode <= EVN  
templatelId: II [1..1]  
id: II [1..1]  
code: CD CWE [1..1] <= ActCode  
text: ED [1..1]  
statusCode: CS CNE [0..1]  
effectiveTime: TS [0..1]  
methodeCode: CE CWE [0..1]  
value: CD CWE [1..1]

Organizer  
classCode <=  
moodCode <= EVN  
id: II [1..1]  
code: CE CWE [1..1] <= ActCode  
statusCode <= 'completed'  
effectiveTime: GTS [0..\*]

component

clinicalStatement: 0..1 assignedAuthor 0..1

representedOrganization: 0..1

Organization  
classCode <= ORG  
determinerCode <= INSTANCE  
name: ON [0..1]

assignedPerson 1..1

Person  
classCode <= PSN  
name: PN [0..1]

author  
typeCode <= AUT

AssignedAuthor  
classCode <= ASSIGNED  
id: SET<II> [1..1]

clinicalStatement: 0..1

entryRelationship

typeCode <= SPRT

Observation (a)  
code: CD CWE [1..1]  
value: CD CWE [1..1]

entryRelationship

typeCode <= SPRT

Observation (y)  
code: CD CWE [1..1]  
value: CD CWE [1..1]

entryRelationship

typeCode <= SPRT

Observation (r)  
code: CD CWE [1..1]  
value: CD CWE [1..1]

entryRelationship

typeCode <= SPRT

Observation (T)  
code: CD CWE [1..1]  
value: CD CWE [1..1]

entryRelationship

typeCode <= SPRT

Observation (N)  
code: CD CWE [1..1]  
value: CD CWE [1..1]

entryRelationship

typeCode <= SPRT

Observation (M)  
code: CD CWE [1..1]  
value: CD CWE [1..1]

entryRelationship

typeCode <= SPRT

Observation (S)  
code: CD CWE [1..1]  
value: CD CWE [1..1]

entryRelationship

typeCode <= SPRT

Observation (L)  
code: CD CWE [1..1]  
value: CD CWE [1..1]

entryRelationship

typeCode <= SPRT

Observation (V)  
code: CD CWE [1..1]  
value: CD CWE [1..1]

entryRelationship

typeCode <= SPRT

Observation (Pn)  
code: CD CWE [1..1]  
value: CD CWE [1..1]

entryRelationship

typeCode <= SPRT

Observation (G)  
code: CD CWE [1..1]  
value: CD CWE [1..1]

entryRelationship

typeCode <= SPRT

Observation (R)  
code: CD CWE [1..1]  
value: CD CWE [1..1]

Qualifier for (where)  
c or p: TNM (in front of)  
C: TNM (behind)  
m: T (behind)  
mi: TN (behind)  
sn: N (behind)  
m1/m2/m3: T (behind)  
sm1/sm2/sm3: T (behind)  
localizationCode: M (behind)

clinicalStatement: 0..1

entryRelationship

typeCode <= SPRT

Observation (multiplicity)  
code: CD CWE [1..1]  
value: CD CWE [1..1]

entryRelationship

typeCode <= SPRT

Observation (i)  
code: CD CWE [1..1]  
value: CD CWE [1..1]

entryRelationship

typeCode <= SPRT

Observation (mol)  
code: CD CWE [1..1]  
value: CD CWE [1..1]

entryRelationship

typeCode <= SPRT

Observation (NumberOfNodes)  
code: CD CWE [1..1]  
value: CD CWE [1..1]

entryRelationship

typeCode <= SPRT

Observation (I)  
code: CD CWE [1..1]  
value: CD CWE [1..1]

entryRelationship

typeCode <= SPRT

Observation (mol)  
code: CD CWE [1..1]  
value: CD CWE [1..1]

NumberOfNodes  
2 Physical Quantities for number of lymph nodes affected and number of lymph nodes investigated

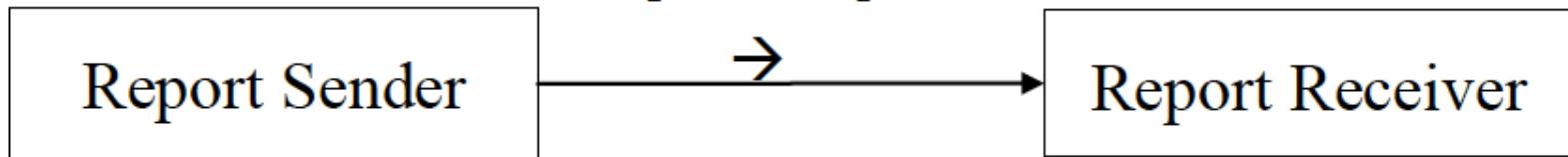
# Value sets

Value Sets		UICC T category – 1.3.6.1.4.1.19376.1.3.11.15					
		Name	UICC-t-value	Display Name	UICC T category		
	UICC clinical/pathological	Version	2015-11-11 14:05:36	Status	Draft		
	UICC Grade 2 tiered	Version Label		Id	1.3.6.1.4.1.19376.1.3.11.15		
	UICC Grade 3 tiered	Description					
	UICC Grade 4 tiered	Source Codesystems	2.16.840.1.113883.15.6	TNM Edition7 UICC			
Values							
0-L	Ta	Ta	TNM Edition7 UICC				
0-L	Tis	Tis	TNM Edition7 UICC				
1-L	Tis(DCIS)	Tis(DCIS)	TNM Edition7 UICC				
1-L	Tis(LCIS)	Tis(LCIS)	TNM Edition7 UICC				
1-L	Tis(Paget)	Tis(Paget)	TNM Edition7 UICC				
1-L	Tis(pu)	Tis(pu)	TNM Edition7 UICC				
1-L	Tis(pd)	Tis(pd)	TNM Edition7 UICC				
0-L	T0	T0	TNM Edition7 UICC				
0-L	T1	T1	TNM Edition7 UICC				
1-L	T1mi	T1mi	TNM Edition7 UICC				
1-I	T1a	T1a	TNM Edition7 UICC				

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

# IHE PaLM Suppl. Anatomic Pathology Reporting to Public Health (ARPH)

Public Health Reporting  
[PAT-10]



**Figure 3.2-1. ARPH Actor Diagram**

- **Transaction PAT-10**

- Use case 3.1.2 „Sending narrative or semi-structured or structured reports“
- Use case 3.1.5 „Sending the whole AP report or only a subset of relevant items“ This alternative only occurs when pathologists are using level 2 or level 3 AP report templates to produce structured or semi-structured reports.
- Common Message Segments (HL7 v2.7) aus IHE-PAT TF APW

# Was nun?

- **nutzen wir das IHE-Profil !**

- **Ablauf und Varianten der Meldung aus dem Pat-LIS**
- Use case 3.1.2 „Sending narrative or semi-structured or structured reports“
- Use case 3.1.5 „Sending the whole AP report or only a subset of relevant items“ This alternative only occurs when pathologists are using level 2 or level 3 AP report templates to produce structured or semi-structured reports.
- Common Message Segments (HL7 v2.7) aus IHE-PAT TF APW

- **nutzen wir die CDA-Entwicklungen?**