

# Caries

Modeling/implementation options

# Considerations

- What elements do you want to document by examination?
- What are the outputs(dx's)?
- What should be represented in SNOMED CT versus other standard?

Requirements for product functionality

Requirements for reporting, analytics, data sharing [interoperability]

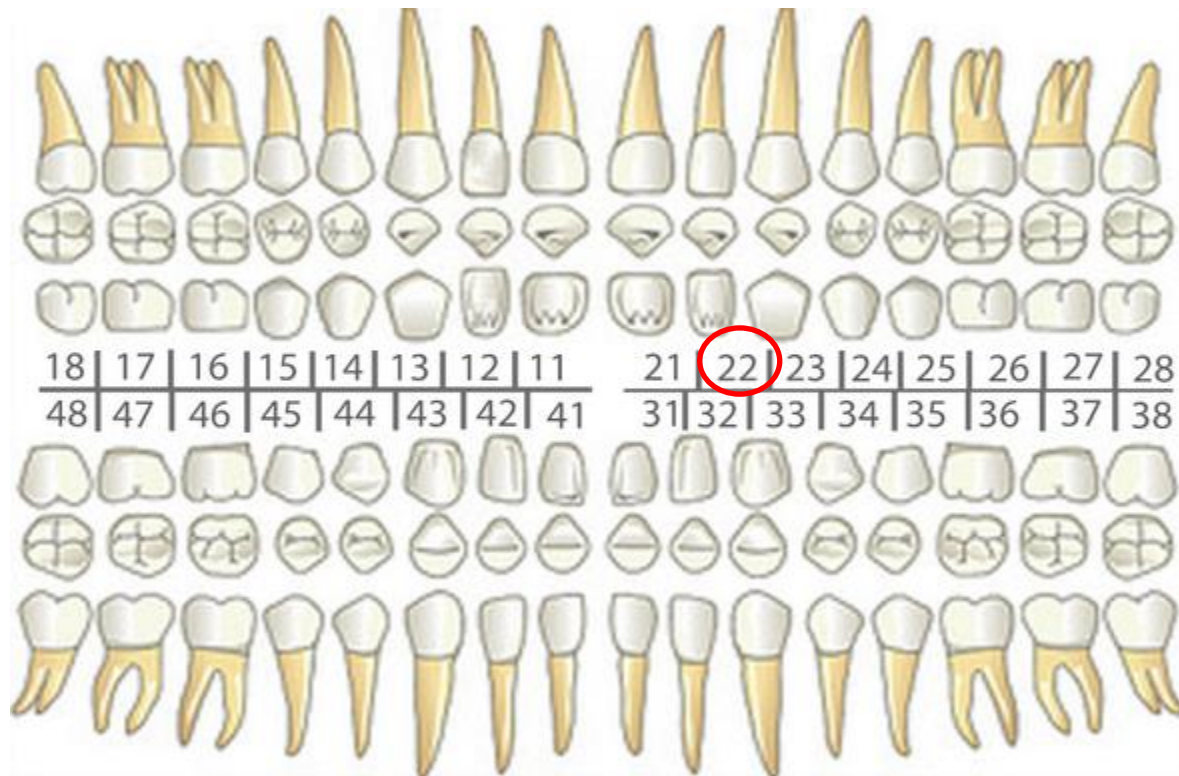
Interface terms: works with products [Front End]

Standards: used for reporting, analytics, data sharing [Back End]

# Components

- Tooth number
- Tooth type (deciduous or permanent)
- Tooth surface (lingual, mesial, etc)
- Affected part (enamel, dentin, root)
- Course (primary, recurrent)
- Origin
- Activity (active/inactive)
- Extent (depth and severity)
- Cavitated/non-cavitated
- Methods – inspection, radiographs, dyes

# Tooth number



**2400006 | structure of mandibular left first premolar tooth (body structure)**

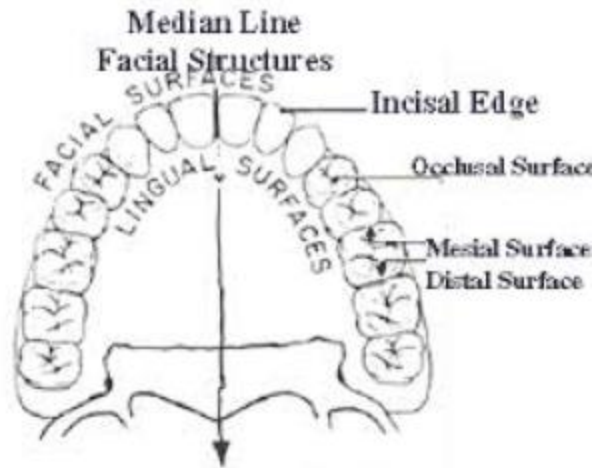
# Tooth type

Deciduous

✓ Permanent →

37977002 | structure of permanent tooth  
(body structure)

# Tooth surface



Occlusal

Mesial

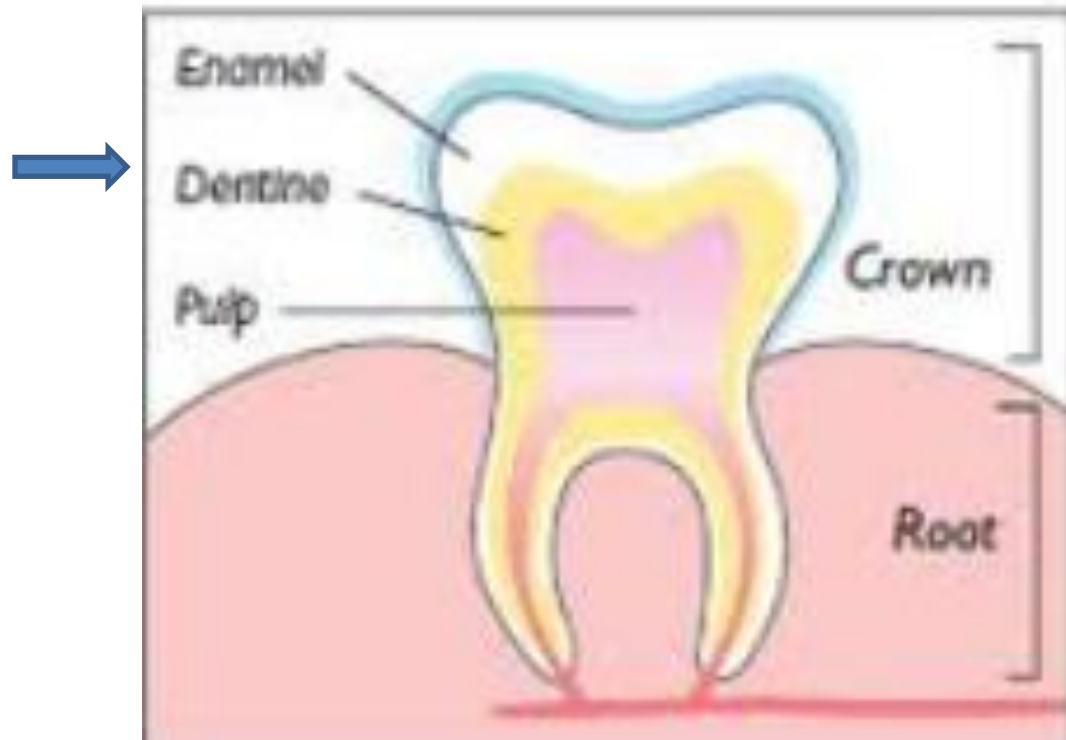
✓ Lingual

Facial



72203008 | structure of lingual surface of tooth (body structure)

# Affected part of caries



442551007 | dental caries extending into dentine (disorder)

# Course

Primary

✓ Recurrent →

255227004 | recurrent (qualifier value)



# Activity

✓ Active →

251330002 | caries active (finding)

Inactive

# Method

Inspection

✓ Radiographic →

118247008 | radiologic finding (finding)

251330002 | caries active | : 418775008 | finding method | = 363679005 | imaging |

251330002 | caries active | : 418775008 | finding method | = 32750006 | inspection |

# Extent

- Severity



Qualitative

Superficial  
✓ Moderate  
Extensive

6736007 | moderate (severity modifier)  
(qualifier value)

- Depth



Quantitative

quantitative/measurement

Depth in MM :

2mm



425170006 | depth of lesion (observable entity)

# Origin

A

Cariou lesion of interproximal origin, arising on any approximal smooth surface of the tooth contacting an adjacent tooth (disorder)

C&SS

Cariou lesion of any cervical (gingival) or other smooth surface area of tooth (disorder)

P&F

Cariou lesion of pit and fissure origin in occlusal areas and buccal or lingual pits (disorder)

R

109576008 | Primary dental caries, root surface origin (disorder)



# Diagnosis

442551007 | dental caries extending into dentine |

+

2400006 | structure of mandibular left first premolar tooth (body structure)

+

xxxxxx | Carious lesion of any cervical (gingival) or other smooth surface area of tooth (disorder)



K02.62 Dental caries on smooth surface penetrating into dentin

ICD10CM

521.02 DENTAL CARIES EXTENDING INTO DENTINE

ICD9CM