

# DICOM Correction Proposal

STATUS	Final Text
Date of Last Update	2015/03/18
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Correction Number	CP-375
Log Summary: Correct Context Groups for Intra-oral anatomy	
Name of Standard PS 3.3, PS 3.6, PS 3.16 2015a	
Rationale for Correction:  CID 4017 does not use correct SNOMED codes for the intended concepts. Some codes do not exist in SNOMED, and some codes are used for entirely different concepts in SNOMED. A new, more accurate set of concepts is proposed, and "Occlusal projection" is moved to the DX View Context Group for appropriate use in the View Code Sequence (0054,0220).  A Context Group for supernumerary dentition is added, and a combining Context Group for all teeth is added and referenced in the Intraoral DX and XR-3D IODs.	
Correction Wording:	

*Update PS3.3 Section 2 Normative References*

ISO 3950-~~1984~~2010                      Dentistry - Designation system for teeth and areas of the oral cavity.

*Update PS3.3 Section C.8.11.9.1.1 ISO 3950 reference*

**C.8.11.9.1.1    Primary Anatomic Structure Sequence**

...

These Context Groups correspond to ISO 3950-~~1984~~2010 that describes a designation of permanent and deciduous dentition using a two digit code, the first digit of which designates a quadrant, and the second digit a tooth.

*Update PS3.3 Section A.54.4.1.1*

**A.54.4.1            X-Ray 3D Craniofacial Image Functional Group Macros Content Constraints**

**A.54.4.1.1        Frame Anatomy Functional Group Macro**

The Defined Context ID for the Anatomic Region Sequence (0008,2218) shall be CID 4028 or CID 4016.

In the case of CID 4016, the Defined Context ID for the Anatomic Region Modifier Sequence (0008,2220) shall be CID 4017, if present, and the Defined Context ID for the Primary Anatomic Structure Sequence (0008,2228) shall be ~~either~~ CID ~~4026~~~~4018~~ or CID ~~4019~~, if present.

Update PS3.3 Section C.8.11.9

### C.8.11.9 Intra-oral Image Module

Table C.8-76 contains IOD Attributes that describe a Digital Intra-oral X-Ray Image including its acquisition and positioning.

**Table C.8-76  
INTRA-ORAL IMAGE MODULE ATTRIBUTES**

Attribute Name	Tag	Type	Attribute Description
...			
Primary Anatomic Structure Sequence	(0008,2228)	1C	Sequence that describes the primary anatomic structures of interest in this image. See C.8.11.9.1.1 for further explanation. Required if Anatomic Region Modifier Sequence (0008,2220) is not sent. One or more Items shall be included in this Sequence.
>Include 'Code Sequence Macro' Table 8.8-1.		Defined Context ID <del>4026</del> <del>4018</del> or 4019. See C.8.11.9.1.1 for further explanation.	

### C.8.11.9.1 Intra-oral Image Attribute Descriptions

#### C.8.11.9.1.1 Primary Anatomic Structure Sequence

The Code Value (0008,0100) shall be drawn from the DICOM Content Mapping Resource, Context ID **4026**. **This Context Group includes CID 4018**, for permanent dentition, ~~or Context ID CID 4019~~ for deciduous dentition, **and CID 4025 for supernumerary dentition.**

These Context Groups **contain concepts that are mapped correspond** to ISO 3950-1984 ~~that, which~~ describes a designation of permanent and deciduous dentition using a two digit code, the first digit of which designates a quadrant, and the second digit a tooth.

The teeth imaged shall be listed as multiple Items in the Primary Anatomic Structure Sequence (0008,2228).

Update PS3.6 Annex A

**Table A-3  
CONTEXT GROUP UID VALUES**

Context UID	Context Identifier	Context Group Name
...		
<u>1.2.840.10008.6.1.1021</u>	<u>4025</u>	<b>Primary Anatomic Structure for Intra-oral Radiography (Supernumerary Dentition - Designation of Teeth)</b>
<u>1.2.840.10008.6.1.1022</u>	<u>4026</u>	<b>Primary Anatomic Structure for Intra-oral and Craniofacial Radiography - Teeth</b>

Update PS3.16 Context ID 4010 DX View to add Occlusal Projection

**CID 4010 DX View**

**Context ID 4010**

**DX View**

**Type: Extensible Version: 20090119 20150318**

<b>Coding Scheme Designator (0008,0102)</b>	<b>Code Value (0008,0100)</b>	<b>Code Meaning (0008,0104)</b>
SRT	R-10202	frontal
...		
<b>SRT</b>	<b>R-40810</b>	<b>Occlusal projection</b>

*For reference, PS 3.16 CID 4016 Anatomic Region for Intra-oral Radiography, which illustrates the use of Maxilla and Mandible as the underlying anatomic region, which can be modified by the concepts in CID 4017, which hence do not require the pre-coordination of maxilla or mandible with the more specific region, and do not require inclusion of Maxilla and Mandible in CID 4017 itself.*

**CID 4016 Anatomic Region for Intra-oral Radiography**

**Context ID 4016**

**Anatomic Region for Intra-oral Radiography**

**Type: Non-Extensible Version: 20020904**

<b>Coding Scheme Designator (0008,0102)</b>	<b>Code Value (0008,0100)</b>	<b>Code Meaning (0008,0104)</b>	<b>SNODENT Code</b>	<b>Equivalent SNOMED-CT Concept ID</b>
SRT	T-D1213	Jaw region	<b>100108D</b>	<b>661005</b>
SRT	T-11170	Maxilla	<b>108042D</b>	<b>70925003</b>
SRT	T-11180	Mandible	<b>144511D</b>	<b>91609006</b>
SRT	T-54000	Teeth, gums and supporting structures	<b>124191D</b>	<b>28035005</b>

Note: In a prior version of this table, the code T-D1217 was specified for the concept "Maxilla and mandible". The use of this code conflicts with its assignment to another concept in SNOMED, and its use in this context is deprecated. Although there is minimal possibility of misinterpretation with SOP Instances that may include the deprecated use, receiving applications should be aware of this change; see Annex J.

Update PS3.16 Context ID 4017 Anatomic Region Modifier for Intra-oral Radiography as follows:

**Context ID 4017**  
**Anatomic Region Modifier for Intra-oral Radiography**  
**Type: Non-Extensible      Version: 20020904 20150318**

<b>Coding Scheme Designator</b>	<b>Code Value</b>	<b>Code Meaning</b>	<b>SNODENT Code</b>	<b>Equivalent SNOMED-CT Concept ID</b>
SRT	<del>T-51005 R-FB322</del>	<del>Anterior 1 Central incisor region</del>	<del>178934D</del>	<del>699453001</del>
SRT	<del>T-51006 R-FB35C</del>	<del>Anterior 2 Lateral incisor region</del>	<del>178947D</del>	<del>699511000</del>
SRT	<del>T-51007 R-FB35B</del>	<del>Anterior 3 Canine region</del>	<del>178952D</del>	<del>699510004</del>
SRT	<del>T-51008 R-FB35A</del>	<del>Premolar 1 First premolar region</del>	<del>178968D</del>	<del>699509009</del>
SRT	<del>T-51009 R-FB359</del>	<del>Premolar 2 Second premolar region</del>	<del>178975D</del>	<del>699508001</del>
SRT	<del>T-5100A R-FB358</del>	<del>Molar 1 First molar region</del>	<del>178981D</del>	<del>699507006</del>
SRT	<del>T-5100B R-FB356</del>	<del>Molar 2 Second molar region</del>	<del>178999D</del>	<del>699505003</del>
SRT	<del>T-5100C R-FB354</del>	<del>Molar 3 Third molar region</del>	<del>179005D</del>	<del>699503005</del>
<del>SRT</del>	<del>T-5100D</del>	<del>Occlusal</del>		

**Note:** In a prior version of this table, SNOMED codes T-51005 through T-5100C were specified for various concepts. The use of these codes conflicts with their assignment to other concepts in SNOMED, and the set of concepts has been replaced. Also, SNOMED code T-5100D was specified for an Occlusal view; this code does not exist in SNOMED, and the concept is more properly considered as a view rather than an anatomic region, hence has been moved to CID 4010, and assigned the correct SNOMED code R-40810. Although there is minimal possibility of misinterpretation with SOP Instances that may include the deprecated use, receiving applications should be aware of this change; the deprecated codes are included in Annex J.

Update PS3.16 Context ID 4018 and 4019 Primary Anatomic Structure for Intra-oral Radiography adding equivalent SNOMED ConceptID codes

**CID 4018 Primary Anatomic Structure for Intra-oral Radiography (Permanent Dentition – Designation of Teeth)**

**Context ID 4018  
Primary Anatomic Structure for Intra-oral Radiography  
(Permanent Dentition - Designation of Teeth)  
Type: Non-Extensible Version: 20020904 20150318**

<b>Coding Scheme Designator</b>	<b>Code Value</b>	<b>Code Meaning</b>	<b>ISO 3950 Designation of Quadrant</b>	<b>ISO 3950 Designation of Tooth</b>	<b>SNODENT Code</b>	<b>Equivalent SNOMED-CT Concept ID</b>
SRT	T-54210	Maxillary right third molar tooth	1	8	<u>133248D</u>	<u>68085002</u>
SRT	T-54220	Maxillary right second molar tooth	1	7	<u>109449D</u>	<u>7121006</u>
SRT	T-54230	Maxillary right first molar tooth	1	6	<u>104587D</u>	<u>5140004</u>
SRT	T-54240	Maxillary right second premolar tooth	1	5	<u>128425D</u>	<u>36492000</u>
SRT	T-54250	Maxillary right first premolar tooth	1	4	<u>138890D</u>	<u>57826002</u>
SRT	T-54260	Maxillary right canine tooth	1	3	<u>145111D</u>	<u>80647007</u>
SRT	T-54270	Maxillary right lateral incisor tooth	1	2	<u>116770D</u>	<u>11712009</u>
SRT	T-54280	Maxillary right central incisor tooth	1	1	<u>106397D</u>	<u>22120004</u>
SRT	T-54290	Maxillary left central incisor tooth	2	1	<u>125190D</u>	<u>31982000</u>
SRT	T-54300	Maxillary left lateral incisor tooth	2	2	<u>103484D</u>	<u>25748002</u>
SRT	T-54310	Maxillary left canine tooth	2	3	<u>108821D</u>	<u>72876007</u>
SRT	T-54320	Maxillary left first premolar tooth	2	4	<u>119834D</u>	<u>61897005</u>
SRT	T-54330	Maxillary left second premolar tooth	2	5	<u>126921D</u>	<u>23226009</u>
SRT	T-54340	Maxillary left first molar tooth	2	6	<u>135665D</u>	<u>23427002</u>
SRT	T-54350	Maxillary left second molar tooth	2	7	<u>130330D</u>	<u>66303006</u>
SRT	T-54360	Maxillary left third molar tooth	2	8	<u>136609D</u>	<u>87704003</u>
SRT	T-54370	Mandibular left third molar tooth	3	8	<u>129534D</u>	<u>74344005</u>
SRT	T-54380	Mandibular left second molar tooth	3	7	<u>101391D</u>	<u>48402004</u>
SRT	T-54390	Mandibular left first molar tooth	3	6	<u>109790D</u>	<u>89625000</u>
SRT	T-54400	Mandibular left second premolar tooth	3	5	<u>117536D</u>	<u>24573005</u>
SRT	T-54410	Mandibular left first premolar tooth	3	4	<u>138336D</u>	<u>2400006</u>
SRT	T-54420	Mandibular left canine tooth	3	3	<u>119269D</u>	<u>39844006</u>
SRT	T-54430	Mandibular left lateral tooth	3	2	<u>119276D</u>	<u>77130001</u>
SRT	T-54440	Mandibular left central incisor tooth	3	1	<u>116581D</u>	<u>113278005</u>
SRT	T-54450	Mandibular right central incisor tooth	4	1	<u>139525D</u>	<u>15422005</u>
SRT	T-54460	Mandibular right lateral incisor tooth	4	2	<u>113091D</u>	<u>82628004</u>
SRT	T-54470	Mandibular right canine tooth	4	3	<u>107357D</u>	<u>47055002</u>
SRT	T-54480	Mandibular right first premolar tooth	4	4	<u>144507D</u>	<u>80140008</u>
SRT	T-54490	Mandibular right second premolar tooth	4	5	<u>110784D</u>	<u>8873007</u>
SRT	T-54500	Mandibular right first molar tooth	4	6	<u>143324D</u>	<u>28480000</u>
SRT	T-54510	Mandibular right second molar tooth	4	7	<u>145772D</u>	<u>40005008</u>

SRT	T-54520	Mandibular right third molar tooth	4	8	<u>100566D</u>	<u>38994002</u>
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**CID 4019 Primary Anatomic Structure for Intra-oral Radiography (Deciduous Dentition – Designation of Teeth)**

**Context ID 4019**

**Primary Anatomic Structure for Intra-oral Radiography  
(Deciduous Dentition - Designation of Teeth)**

**Type: Non-Extensible**

**Version: 20020904 20150318**

<b>Coding Scheme Designator</b>	<b>Code Value</b>	<b>Code Meaning</b>	<b>ISO 3950 Designation of Quadrant</b>	<b>ISO 3950 Designation of Tooth</b>	<b>SNODENT Code</b>	<b>Equivalent SNOMED-CT Concept ID</b>
SRT	T-54610	Deciduous maxillary right central incisor tooth	5	1	<u>162619D</u>	<u>245620002</u>
SRT	T-54620	Deciduous maxillary right lateral incisor tooth	5	2	<u>162494D</u>	<u>245619008</u>
SRT	T-54630	Deciduous maxillary right canine tooth	5	3	<u>124018D</u>	<u>30618001</u>
SRT	T-54640	Deciduous maxillary right first molar tooth	5	4	<u>162234D</u>	<u>245616001</u>
SRT	T-54650	Deciduous maxillary right second molar tooth	5	5	<u>130574D</u>	<u>27855007</u>
SRT	T-54660	Deciduous maxillary left central incisor tooth	6	1	<u>108911D</u>	<u>51678005</u>
SRT	T-54670	Deciduous maxillary left lateral incisor tooth	6	2	<u>123818D</u>	<u>43622005</u>
SRT	T-54680	Deciduous maxillary left canine tooth	6	3	<u>140711D</u>	<u>73937000</u>
SRT	T-54690	Deciduous maxillary left first molar tooth	6	4	<u>141712D</u>	<u>45234009</u>
SRT	T-54700	Deciduous maxillary left second molar tooth	6	5	<u>112992D</u>	<u>51943008</u>
SRT	T-54760	Deciduous mandibular left central incisor tooth	7	1	<u>150298D</u>	<u>89552004</u>
SRT	T-54770	Deciduous mandibular left lateral incisor tooth	7	2	<u>134816D</u>	<u>14770005</u>
SRT	T-54780	Deciduous mandibular left canine tooth	7	3	<u>162441D</u>	<u>245639007</u>
SRT	T-54790	Deciduous mandibular left first molar tooth	7	4	<u>118147D</u>	<u>38896004</u>
SRT	T-54800	Deciduous mandibular left second molar tooth	7	5	<u>144621D</u>	<u>49330006</u>
SRT	T-54710	Deciduous mandibular right central incisor tooth	8	1	<u>120236D</u>	<u>67834006</u>
SRT	T-54720	Deciduous mandibular right lateral incisor tooth	8	2	<u>113281D</u>	<u>22445006</u>
SRT	T-54730	Deciduous mandibular right canine tooth	8	3	<u>105720D</u>	<u>6062009</u>
SRT	T-54740	Deciduous mandibular right first molar tooth	8	4	<u>162206D</u>	<u>245631005</u>

SRT	T-54750	Deciduous mandibular right second molar tooth	8	5	<b>107031D</b>	<b>61868007</b>
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Add PS3.16 Context ID 4025

**CID 4025 Primary Anatomic Structure for Intra-oral Radiography (Supernumerary Dentition – Designation of Teeth)**

**Context ID 4025  
Primary Anatomic Structure for Intra-oral Radiography  
(Supernumerary Dentition - Designation of Teeth)  
Type: Non-Extensible Version: 20150318**

<b>Coding Scheme Designator</b>	<b>Code Value</b>	<b>Code Meaning</b>	<b>SNODENT Code</b>	<b>Equivalent SNOMED-CT Concept ID</b>
SRT	R-FC4E0	Supernumerary deciduous mandibular left canine tooth	177552D	707029006
SRT	R-FC4DD	Supernumerary deciduous mandibular left central incisor tooth	177292D	707026004
SRT	R-FC4E1	Supernumerary deciduous mandibular left first molar tooth	177421D	707030001
SRT	R-FC4DF	Supernumerary deciduous mandibular left lateral incisor tooth	177318D	707028003
SRT	R-FC4E2	Supernumerary deciduous mandibular left second molar tooth	177704D	707031002
SRT	R-FC4DA	Supernumerary deciduous mandibular right canine tooth	177387D	707023007
SRT	R-FC4DC	Supernumerary deciduous mandibular right central incisor tooth	177450D	707025000
SRT	R-FC4D9	Supernumerary deciduous mandibular right first molar tooth	177758D	707022002
SRT	R-FC4DB	Supernumerary deciduous mandibular right lateral incisor tooth	177466D	707024001
SRT	R-FC4D8	Supernumerary deciduous mandibular right second molar tooth	177302D	707021009
SRT	R-FC4D3	Supernumerary deciduous maxillary left canine tooth	177497D	707016006
SRT	R-FC4D1	Supernumerary deciduous maxillary left central incisor tooth	177736D	707014009
SRT	R-FC4D4	Supernumerary deciduous maxillary left first molar tooth	177715D	707017002
SRT	R-FC4D2	Supernumerary deciduous maxillary left lateral incisor tooth	177263D	707015005
SRT	R-FC4D5	Supernumerary deciduous maxillary left second molar tooth	177581D	707018007
SRT	R-FC4CE	Supernumerary deciduous maxillary right canine tooth	177575D	707011001
SRT	R-FC4D0	Supernumerary deciduous maxillary right central incisor tooth	177696D	707013003
SRT	R-FC4CD	Supernumerary deciduous maxillary right first molar tooth	177360D	707010000
SRT	R-FC4CF	Supernumerary deciduous maxillary right lateral incisor tooth	177620D	707012008
SRT	R-FC4CC	Supernumerary deciduous maxillary right second molar tooth	177665D	707009005
SRT	R-FC4FD	Supernumerary permanent mandibular left canine tooth	177523D	707058009
SRT	R-FC4FF	Supernumerary permanent mandibular left central incisor tooth	177510D	707060006
SRT	R-FC4FA	Supernumerary permanent mandibular left first molar tooth	177478D	707055007
SRT	R-FC4FC	Supernumerary permanent mandibular left first premolar tooth	177631D	707057004
SRT	R-FC4FE	Supernumerary permanent mandibular left lateral incisor tooth	177271D	707059001
SRT	R-FC4F9	Supernumerary permanent mandibular left second molar tooth	177677D	707054006
SRT	R-FC4FB	Supernumerary permanent mandibular left second premolar	177727D	707056008

		tooth		
SRT	R-FC4F7	Supernumerary permanent mandibular left third molar tooth	177743D	707052005
SRT	R-FC502	Supernumerary permanent mandibular right canine tooth	177341D	707063008
SRT	R-FC500	Supernumerary permanent mandibular right central incisor tooth	177285D	707061005
SRT	R-FC505	Supernumerary permanent mandibular right first molar tooth	177413D	707066000
SRT	R-FC503	Supernumerary permanent mandibular right first premolar tooth	177599D	707064002
SRT	R-FC501	Supernumerary permanent mandibular right lateral incisor tooth	177506D	707062003
SRT	R-FC506	Supernumerary permanent mandibular right second molar tooth	177432D	707067009
SRT	R-FC504	Supernumerary permanent mandibular right second premolar tooth	177409D	707065001
SRT	R-FC507	Supernumerary permanent mandibular right third molar tooth	177608D	707068004
SRT	R-FC4EF	Supernumerary permanent maxillary left canine tooth	177356D	707044007
SRT	R-FC4ED	Supernumerary permanent maxillary left central incisor tooth	177762D	707042006
SRT	R-FC4F2	Supernumerary permanent maxillary left first molar tooth	177654D	707047000
SRT	R-FC4F0	Supernumerary permanent maxillary left first premolar tooth	177445D	707045008
SRT	R-FC4EE	Supernumerary permanent maxillary left lateral incisor tooth	177683D	707043001
SRT	R-FC4F3	Supernumerary permanent maxillary left second molar tooth	177373D	707048005
SRT	R-FC4F1	Supernumerary permanent maxillary left second premolar tooth	177325D	707046009
SRT	R-FC4F4	Supernumerary permanent maxillary left third molar tooth	177568D	707049002
SRT	R-FC4E9	Supernumerary permanent maxillary right canine tooth	177339D	707038008
SRT	R-FC4EC	Supernumerary permanent maxillary right central incisor tooth	177259D	707041004
SRT	R-FC4E6	Supernumerary permanent maxillary right first molar tooth	177534D	707035006
SRT	R-FC4E8	Supernumerary permanent maxillary right first premolar tooth	177612D	707037003
SRT	R-FC4EA	Supernumerary permanent maxillary right lateral incisor tooth	177484D	707039000
SRT	R-FC4E4	Supernumerary permanent maxillary right second molar tooth	177649D	707033004
SRT	R-FC4E7	Supernumerary permanent maxillary right second premolar tooth	177547D	707036007
SRT	R-FC4E3	Supernumerary permanent maxillary right third molar tooth	177394D	707032009

Add PS3.16 Context ID 4026

**CID 4026 Primary Anatomic Structure for Intra-oral and Craniofacial Radiography - Teeth**

**Context ID 4026**

**Primary Anatomic Structure for Intra-oral and Craniofacial Radiography - Teeth**

**Type: Extensible**

**Version: 20150318**

<b>Coding Scheme Designator</b>	<b>Code Value</b>	<b>Code Meaning</b>
<i>Include CID 4018 Primary Anatomic Structure for Intra-oral Radiography (Permanent Dentition – Designation of Teeth)</i>		

*Include CID 4019 Primary Anatomic Structure for Intra-oral Radiography  
(Deciduous Dentition – Designation of Teeth)*

*Include CID 4025 Primary Anatomic Structure for Intra-oral Radiography  
(Supernumerary Dentition - Designation of Teeth)*

*Update PS3.16 Annex J SNOMED DICOM Microglossary Retired Codes*

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**SNOMED DICOM Microglossary Retired Codes**

<b>Retired Code Value</b>	<b>Code Meaning</b>	<b>Replacement Code (SNOMED)</b>	<b>Notes</b>
...			
<u>T-51005</u>	<u>Anterior 1</u>	<u>R-FB322</u>	<u>Central incisor region</u>
<u>T-51006</u>	<u>Anterior 2</u>	<u>R-FB35C</u>	<u>Lateral incisor region</u>
<u>T-51007</u>	<u>Anterior 3</u>	<u>R-FB35B</u>	<u>Canine region</u>
<u>T-51008</u>	<u>Premolar 1</u>	<u>R-FB35A</u>	<u>First premolar region</u>
<u>T-51009</u>	<u>Premolar 2</u>	<u>R-FB359</u>	<u>Second premolar region</u>
<u>T-5100A</u>	<u>Molar 1</u>	<u>R-FB358</u>	<u>First molar region</u>
<u>T-5100B</u>	<u>Molar 2</u>	<u>R-FB356</u>	<u>Second molar region</u>
<u>T-5100C</u>	<u>Molar 3</u>	<u>R-FB354</u>	<u>Third molar region</u>
<u>T-5100D</u>	<u>Occlusal</u>	<u>R-40810</u>	<u>Occlusal Projection</u>