

DICOM Correction Proposal

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Correction Number	CP-1631
Log Summary:	Clarify Definitions for Types of Context Group References
Name of Standard	PS3.3, PS3.6, PS3.16 2017a
Rationale for Correction:	<p>During Reviews of DICOM 2nd Generation RT Supplement and Supplement 185, the rules implied by the terms Baseline Context Group Identifier (BCID) and Defined Context Group Identifier (DCID) have been revisited. It turned out that the definitions formulated in Part 16 alone do not sufficiently specify the behavior in the context of Extensible and Non-Extensible CIDs.</p> <p>Namely the use of a Defined Context Group Identifier (DCID) that is extensible in a code macro reference does not prohibit the use of additional codes, which are not included in the referenced CID. Rather than other codes may be used, but only when they are semantically in line with the CID referenced, since they become part of the extensible CID.</p> <p>To clarify those provisions, the definitions are extended accordingly.</p> <p>Baseline Non-Extensible invocations make no sense, so are deemed not applicable and any existing occurrences are corrected.</p>
Correction Wording:	

In Part 3, add the following section to Chapter 5:

5 Conventions

...

5.6 Invocation of Context Groups

The conventions used for Code Sequences are:

- **no Baseline Defined**
- **using the Context Group as Baseline Context Group**
- **using the Context Group as Defined Context Group**

See also PS 3.16, section 3.1.

In combination with the definition of the Context Group as Extensible or Non-extensible in PS3.16, the conventions in Table 5.6-1 apply.

Table 5.6-1. Conventions for Specification of Context Groups

	<u>Extensible Context Group</u>	<u>Non-Extensible Context Group</u>
<u>No Baseline or Defined CID specified</u>	<u>Any Code may be used if its meaning is applicable to the context of invocation.</u>	
<u>Baseline Context Group Identifier (BCID)</u>	<u>Codes in the Context Group may be used.</u> <u>Alternative Codes for the same Concept (i.e., with the same meaning) may be used instead of the Codes in the Context Group, since this can be construed as not using the Baseline Context Group.</u> <u>Codes not in the Context Group may be used as an extension when their meaning is within the scope of that Context Group.</u> <u>I.e., any Code may be used if its meaning is applicable to the context of invocation.</u> <u>See also PS 3.16, Section 7.2.3.</u>	<u>Non-extensible Context Groups are not used as Baseline Context Groups.</u>
<u>Defined Context Group Identifier (DCID)</u>	<u>Codes in the Context Group shall be used.</u> <u>Codes not in the Context Group may be used as an extension to the specified Context Group when their meaning is within the scope of that Context Group.</u> <u>See also PS 3.16, Section 7.2.3.</u>	<u>Codes in the Context Group shall be used.</u> <u>Codes not in the Context Group shall not be used.</u>

In Part 16, modify section 3.1 Codes and Controlled Terminology Definitions as follows:

3.1 Codes and Controlled Terminology Definitions:

The following definitions are commonly used in this Part of the DICOM Standard:

Baseline Context Group Identifier (BCID) Identifier that specifies the suggested Context Group for a Code Sequence Attribute. See PS3.3, Table 5.6-1. Use of Context Groups.

Defined Context Group Identifier (DCID) Identifier that specifies the Context Group for a Code Sequence Attribute that shall be used. See PS3.3, Table 5.6-1. Use of Context Groups.

Extensible Context Group Context Group that may be extended by a particular application by inclusion of additional concepts. See PS3.3, Table 5.6-1. Use of Context Groups.

Non-Extensible Context Group

Context Group whose defined set of concepts shall not be extended by an application. **See PS3.3, Table 5.6-1. Use of Context Groups.**

In PS3.3, PS3.6 and PS3.16, change the following usages of Non-extensible CIDs from Baseline CID to Defined CID, or make Extensible:

CID	CID Title	Part	Section	Resolution
244	Laterality	3	C.8.8.8 RT ROI Observations Module	Make DCID
244	Laterality	3	C.8.20.4.1 Segment Description Macro	Make DCID
244	Laterality	3	C.8.33.2 Tractography Results Module	Make DCID
7040	Broselow-Luten Pediatric Size Categories	3	C.2.3 Patient Demographic Module	Reference new parent extensible Context Group that includes non-extensible CID 7040, and leave reference BCID
7040	Broselow-Luten Pediatric Size Categories	3	C.7.2.2 Patient Study Module	Reference new parent extensible Context Group that includes non-extensible CID 7040, and leave reference BCID
7042	Calcium Scoring Patient Size Categories	3	C.7.2.2 Patient Study Module	Reference new parent extensible Context Group that includes non-extensible CID 7040, and leave reference BCID
8303	Display Device Type	3	C.32.1 Display System Module	Make DCID; remove other; make CID 8303 extensible
3015	Coronary Arteries	16	TID 3817 Coronary Arteriography Findings	Make extensible
3016	Major Coronary Arteries	16	TID 3317 Stress Imaging Summary	Make extensible
3463	Ventricle Identification	16	TID 3317 Stress Imaging Summary	Make extensible
3502	Hemodynamic Resistance Units	16	TID 3560 Derived Hemodynamic Measurements	Make DCID
3503	Indexed Hemodynamic Resistance Units	16	TID 3560 Derived Hemodynamic Measurements	Make DCID
3600	Relative Times	16	TID 3403 Catheterization Acquisition Context	Make extensible
3600	Relative Times	16	TID 3521 Relative Time	Make extensible
3717	Myocardial Wall Segments	16	TID 3307 NM/PET Perfusion Measurement Group	Make extensible

3717	Myocardial Wall Segments	16	TID 3814 Left Ventriculography Findings	Make extensible
3717	Myocardial Wall Segments	16	TID 5204 Wall Motion Analysis	Make extensible