

DICOM Change Proposal

STATUS	In work
Date of Last Update	2026-05-29
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Change Number	CP-2607
Log Summary:	Inconsistencies of SNOMED CodeMeanings
Name of Standard	PS3.16

Rationale for Change:

1) The concept ([1185780006](#), SCT, "Relative Time") used in TID 3750 does not exist. It is 118578006.

2) There is an inconsistency in the DICOM Standard for the SNOMED Coded Concept, Designator "SCP", Code "77477000".

A) TID 10011. [CT Radiation Dose](#)

has text "Computed Tomography X-Ray". (CodeMeaning may be used to develop CT Dose SR).

Table TID 10011. CT Radiation Dose

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	EV (113701_DCM , "X-Ray Radiation Dose Report")	1	M		Root node
1b	>	HAS CONCEPT MOD	INCLUDE	D TID 1204 "Language of Content Item and Descendants"	1	U		
2	>	HAS CONCEPT MOD	CODE	EV (121058_DCM , "Procedure reported")	1	M		EV (77477000 , SCT, "Computed Tomography X-Ray")

B) O-1. [SNOMED Concept ID to SNOMED ID Mapping](#)

has text "Computed tomography". (CodeMeaning may be used in a SRT -> SCT migration)

77477000	P5-08000	Computerized axial tomography (procedure)
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C) [CID 10005. X-Ray Radiation Dose Procedure Type Reported](#)

has text "Computerized axial tomography (procedure)".

(CodeMeaning may be used in TID 10040 Enhanced X-Ray Radiation Report, incl. for CT.)

Table CID 10005. X-Ray Radiation Dose Procedure Type Reported

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-RT ID	UMLS Concept Unique ID
SCT	168537006	Plain radiography	P5-009FA	C1306645
SCT	71651007	Mammography	P5-40010	C0024671
SCT	44491008	Fluoroscopy	P5-06000	C0016356
SCT	169014003	Fluoroscopy and radiography	P5-0600F	
SCT	77477000	Computed tomography	P5-08000	C0040405
SCT	717193008	Cone beam computed tomography	R-FFB4A	C1956110
SCT	241686001	Dual energy X-Ray absorptiometry	P5-00027	C1510486
SCT	1290849002	Dental radiography		C0034575

That is: 3 positions – 3 different Texts.

SNOMED Standard

[SNOMED Concept 77477000](#) (as of 2026-01-08) has following texts in tab “details”:

- Computed tomography (procedure) Full-Text, Preferred (US/GB)
- Computed tomography Short Text, Preferred (US/GB)

Besides there are some synonyms marked as „Acceptable“ (US/GB):

- CAT - Computerized axial tomography
- CAT scan
- CT - Computerized tomography
- Computed axial tomography
- Computerized axial tomography
- Computerized tomograph scan
- Computerized tomography
- Computerized transaxial tomography

In the tab “history”, find dated 2002-07-31 (initial version) to 2017-07-31 (last version before changed):

- Computerized axial tomography (procedure) Full-Text, Preferred (US/UK)
- Computerized axial tomography Short Text, Preferred (US/UK)

Some of the above synonyms do not exist in the earlier versions of that Coded Concept.

Summary

A) The text in TID 10011 does not exist in SNOMED – and it never existed as term in SNOMED in the past.
→ wrong

B) The text in Table O-1 is the old term, from SNOMED history 2017-07-31. → Almost OK

C) The text in CID 10005 is the current SNOMED term, Preferred Short Text. → OK

Impact

There are many similar inconsistencies for SNOMED Concepts in DICOM PS3.16.

Such inconsistencies hinder efficient development of validation tools.

It is very narrow that a developer may use SNOMED 77477000 as "~~Computed Tomography~~ X-Ray".
Which then definitely would be wrong – but almost impossible to discover.

To Editor and the WG06:

This is the first version of this CP to get a CP number.

The submitter wants to add further SNOMED Concepts with similar issues into future in-work versions of this CP.

That is the reason for the generic title “Inconsistencies of SNOMED CodeMeanings”.

It may be discussed whether future updates of SNOMED CodeMeanings will be updated into DICOM.

The submitter is afraid of frequent updates to DICOM standard, same as to manufacturers’ SW code. Hopefully DICOM may try to avoid that.

Intention for this CP is “fix DICOM internal inconsistencies” – not to fix consistency to the SNOMED.

There may be many reasons to keep one of the current DICOM CodeMeanings – even if it is different in SNOMED.

If this results in a larger “cleanup”, then an editorial change as a “search-replace-by” may be useful. A replacement list may be provided for that purpose. Details to be discussed in WG06.

Change Wording:

5 **Modify PS3.16, TID 3750”, change CodeValue in Row 5 from 1185780006 to 118578006**
(breaking change, non-existing code is replaced by correct code)

TID 3750 Waveform Annotations

10 **Table TID 3750. Waveform Annotations**

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
		[...]						
5	>	HAS OBS CONTEXT	CODE	EV (1185780006 . SCT, "Relative Time")	1	U		DCID 12102 "Temporal Period Relating to Procedure or Therapy"

Modify PS3.16, TID 10011 to have text “Computed tomography”, as:

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Table TID 10011. CT Radiation Dose

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	EV (113701, DCM, "X-Ray Radiation Dose Report")	1	M		Root node
1b	>	HAS CONCEPT MOD	INCLUDE	DTID 1204 "Language of Content Item and Descendants"	1	U		
2	>	HAS CONCEPT MOD	CODE	EV (121058, DCM, "Procedure reported")	1	M		EV (77477000, SCT, "Computed Tomography-X-Ray")

Modify PS3.16, Table O-1 as:

Table O-1. SNOMED Concept ID to SNOMED ID Mapping

Concept ID (SCT)	SNOMED ID (SRT)	SNOMED Fully Specified Name
[...]		
77477000	P5-08000	Computed tomography Computerized axial tomography (procedure)
[...]		

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For reference only – no changes needed:

Table CID 10005. X-Ray Radiation Dose Procedure Type Reported

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-RT ID	UMLS Concept Unique ID
[...]				
SCT	77477000	Computed tomography	P5-08000	C0040405
[...]				

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Modify PS3.16, TID 3318 as:

TID 3318 Comparison to Prior Stress Study

30 [...]

Table TID 3318. Comparison to Prior Stress Study

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
		[...]						
9	>	CONTAINS	CODE	DT (250909007, SCT, "Left Ventricular Wall motion")	1-n	U		BCID 3237 "Wall Motion Comparison Finding"
	>>	[...]						

Modify PS3.16, TID 3314, Rows 6+11 as:

TID 3814 Left Ventriculography Findings

35 [...]

Table TID 3814. Left Ventriculography Findings

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
6	>	CONTAINS	CODE	EV (250909007, SCT, "Left Ventricular Contractility wall motion")	1	U		DCID 3706 "Overall Contractility"
		[...]						
11	>>	HAS CONCEPT MOD	CODE	EV (363698007, SCT, "Finding Site")	1	M		DT (272657006, SCT, "Myocardial Wall Cardiac wall structure")

Modify PS3.16, TID 3315, Row 5 as:

TID 3815 Right Ventriculography Findings

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Table TID 3815. Right Ventriculography Findings

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
5	>	CONTAINS	CODE	EV (250949004, SCT, "Right Ventricular Contractility wall motion")	1	U		DCID 3706 "Overall Contractility"

Modify PS3.16, TID 5204, Row 5 as:

TID 5204 Wall Motion Analysis

Table TID 5204. Wall Motion Analysis

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
9	>>	HAS CONCEPT MOD	CODE	EV (363698007, SCT, "Finding Site")	1	M		DT (272657006, SCT, "Myocardial Wall Cardiac wall structure")

For reference, unchanged: PS3.16, TID 3318 as:

Concept ID (SCT)	SNOMED ID (SRT)	SNOMED Fully Specified Name
250909007	F-02225	Left ventricular wall motion (observable entity)

Modify PS3.16, TID 3507 as:

50 TID 3507 Ventricular Pressure Measurement

[...]

Table TID 3507. Ventricular Pressure Measurement

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	EV (122122, DCM, "Ventricular pressure measurements")	1	M		
2	>		INCLUDE	DTID 3530 "Hemodynamic Acquisition Context"	1	M		\$LocationName = EV (363698007, SCT, "Finding Site") \$LocationValue = DCID 3609 "Ventricular Source Location"
3	>	CONTAINS	INCLUDE	DTID 300 "Measurement"	1	MC	IFF \$LocationValue selected in Row 2 = (87878005, SCT, "Left Ventricle") or subsite thereof	\$Measurement = EV (276780008, SCT, "Left Ventricular Systolic blood pressure") \$Units = DCID 3500 "Pressure Unit"
4	>	CONTAINS	INCLUDE	DTID 300 "Measurement"	1	MC	IFF \$LocationValue selected in Row 2 = (87878005, SCT, "Left Ventricle") or subsite thereof	\$Measurement = EV (276781007, SCT, "Left Ventricular End-Diastolic pressure") \$Units = DCID 3500 "Pressure Unit"
5	>	CONTAINS	INCLUDE	DTID 300 "Measurement"	1	MC	IFF \$LocationValue selected in Row 2 = (53085002, SCT, "Right Ventricle") or subsite thereof	\$Measurement = EV (276772001, SCT, "Right Ventricular Systolic blood pressure") \$Units = DCID 3500 "Pressure Unit"
6	>	CONTAINS	INCLUDE	DTID 300 "Measurement"	1	MC	IFF \$LocationValue selected in Row 2 = (53085002, SCT, "Right Ventricle") or subsite thereof	\$Measurement = EV (276774000, SCT, "Right Ventricular End-Diastolic pressure")

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
								\$Units = DCID 3500 "Pressure Unit"
7	>	CONTAINS	INCLUDE	DTID 300 "Measurement"	1	MC	IFF \$LocationValue selected in Row 2 = (45503006, SCT, "Common Ventricle")	\$Measurement = EV (122194, DCM, "Ventricular Systolic blood pressure") \$Units = DCID 3500 "Pressure Unit"
8	>	CONTAINS	INCLUDE	DTID 300 "Measurement"	1	MC	IFF \$LocationValue selected in Row 2 = (45503006, SCT, "Common Ventricle")	\$Measurement = EV (122191, DCM, "Ventricular End Diastolic pressure") \$Units = DCID 3500 "Pressure Unit"
9	>	CONTAINS	INCLUDE	DTID 3550 "Pressure Waveform Measurements"	1-n	U		

Modify PS3.16, TID 3105", as:

TID 3105 Lesion Identification and Properties

[...]

Table TID 3105. Lesion Identification and Properties

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
		[...]						
5	>	HAS PROPERTIES	NUM	EV (408715008, SCT, "Lumen Diameter Stenosis")	1	U		UNITS = EV (% , UCUM, "%")
6	>>	HAS CONCEPT MOD	CODE	EV (129085009, SCT, "Catheterization Procedure Phase")	1	M		EV (128955008, SCT, "Cardiac catheterisation baseline phase Baseline Phase")

Modify PS3.16, Table D-1", as:

122107	Baseline Stenosis Measurement	Lesion stenosis measured prior to any interventional procedure	Retired. Replaced by (408715008, SCT, "Lumen Diameter Stenosis"), post-coordinated with (128955008, SCT, "Cardiac catheterisation baseline phase Baseline Phase")
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For reference only – no changes needed:

Table CID 3250. Catheterization Procedure Phase

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-RT ID	UMLS Concept Unique ID
SCT	128961006	Cardiac catheterization bailout phase	G-7299	C1292438
SCT	128955008	Cardiac catheterization baseline phase	G-7293	C1292432

Table CID 3651. Hemodynamic Measurement Phase

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-RT ID	UMLS Concept Unique ID
SCT	128955008	Cardiac catheterization baseline phase	G-7293	C1292432

Table O-1. SNOMED Concept ID to SNOMED ID Mapping

128955008	G-7293	Cardiac catheterization baseline phase (qualifier value)
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Modify PS3.16, TID 3105”, as:

TID 3808 Lesion Intervention Information

[...]

Table TID 3808. Lesion Intervention Information

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condi tion	Value Set Constraint
		[...]						
12	>	CONTAINS	NUM	EV (408715008. SCT, "Lumen Diameter Stenosis")	1	M		UNITS = EV (% , UCUM, "%")
13	>>	HAS CONCEPT MOD	CODE	EV (129085009. SCT, "Catheterization Procedure Phase")	1	M		EV (128960007. SCT, "Post-intervention Phase Cardiac catheterization post-intervention phase")

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Modify PS3.16, Table D-1”, as:

122108	Post-Intervention Stenosis Measurement	Lesion stenosis measured after an interventional procedure	Retired. Replaced by (408715008. SCT, "Lumen Diameter Stenosis"), post-coordinated with (128960007. SCT, "Post-intervention Phase Cardiac catheterization post-intervention phase")
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For reference only – no changes needed:

Table CID 3480. IVUS Procedure Phase

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-RT ID	UMLS Concept Unique ID
SCT	128960007	Cardiac catheterization post-intervention phase	G-7298	C1292437

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Table CID 3250. Catheterization Procedure Phase

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-RT ID	UMLS Concept Unique ID
SCT	128960007	Cardiac catheterization post-intervention phase	G-7298	C1292437

Table CID 3651. Hemodynamic Measurement Phase

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-RT ID	UMLS Concept Unique ID
SCT	128960007	Cardiac catheterization post-intervention phase	G-7298	C1292437

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Table O-1. SNOMED Concept ID to SNOMED ID Mapping

Concept ID (SCT)	SNOMED ID (SRT)	SNOMED Fully Specified Name
128960007	G-7298	Cardiac catheterization post-intervention phase (qualifier value)

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Modify PS3.16, TID 9005 Risk Factor, Row 4, delete the “ – “ from “History of - premature delivery” to “History of premature delivery

TID 9005 Risk Factor

Table TID 9005. Risk Factor

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
		[...]						
4	>>	HAS PROPERTIES	NUM	EV (18185-9.LN. "Gestational Age")	1	UC	IFF value of Row 2 = (161765003.SCT. "History of - premature delivery")	

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Modify PS3.16, Table O-1 as:

To Editor: Using Meaning (preferred/synonym/acceptable) from SNOMED

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Table O-1. SNOMED Concept ID to SNOMED ID Mapping

Concept ID (SCT)	SNOMED ID (SRT)	SNOMED Fully Specified Name
[...]		
129788004	F-01791	Mammographic breast mass finding (finding)
129789007	F-01792	Focal asymmetric breast tissue finding (finding)
129790003	F-01793	Asymmetric breast tissue finding (finding)
[...]		
265483003	P5-3003F	Right ventriculogram mpy (procedure)
265484009	P5-30041	Left ventriculogram mpy (procedure)

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