

1	Status	June 2019 Voting Packet
2	Date of Last Update	2019/02/023
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7	Submission Date	2019/01/07

8	Correction Number CP-1884	
9	Log Summary: Procedure reported value set should be baseline not defined	
10	Name of Standard	
11	PS3.16	
12	Rationale for Correction:	
13	In a comment to CP-1838, questions were raised about repetition of concepts and use of laterality pre- or post-coordination in	
14	describing the mammography procedure reported.	
15	This raised the question of whether users are likely to want to use their own procedure codes (local or various standard schemes)	
16	in reports, rather than any choice dictated by the DICOM standard, and not want to have to map such codes to DICOM choices.	
17	Depending on the use case, there may or may not be value to the recipient in forcing a specific choice.	
18	Here it is proposed to change all context group invocations as values of (121058, DCM, "Procedure reported") to baseline rather	
19	than defined, except where a very specific code is used as a findings section heading or has behavioral/structural consequences	
20	(e.g., in RDSR).	
21	Correction Wording:	

Amend DICOM PS3.16 as follows (changes to existing text are bold and underlined for additions and ~~struckthrough~~ for removals):

TID 1500 Measurement Report

Table TID 1500. Measurement Report

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
4	>	HAS CONCEPT MOD	CODE	EV (121058, DCM, "Procedure reported")	1-n	M		BCID 100 "Quantitative Diagnostic Imaging Procedures"

TID 2000 Basic Diagnostic Imaging Report

Table TID 2000. Basic Diagnostic Imaging Report

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
2	>	HAS CONCEPT MOD	CODE	EV (121058, DCM, "Procedure reported")	1-n	U		

Content Item Descriptions

Rows 2, 3, 4	The content of rows 2, 3, and 4 shall not be inconsistent with the meaning of the report title of row 1. If the report title does not include the concepts of the procedure type, modality, or target site (e.g., the generic "Diagnostic Imaging Report"), these rows may provide post-coordination of those concepts. If the report title does include such concepts (e.g., "CT Head Report"), they may be encoded duplicatively to support report categorization and search.
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TID 2005 Transcribed Diagnostic Imaging Report

Table TID 2005. Transcribed Diagnostic Imaging Report

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
2	>	HAS CONCEPT MOD	CODE	EV (121058, DCM, "Procedure reported")	1-n	U		

Content Item Descriptions

Rows 2, 3, 4	The content of rows 2, 3, and 4 shall not be inconsistent with the meaning of the report title of row 1. If the report title does not include the concepts of the procedure type, modality, or target site (e.g., the generic "Diagnostic Imaging Report"), these rows may provide post-coordination of those concepts. If the report title does include such concepts (e.g., "CT Head Report"), they may be encoded duplicatively to support report categorization and search.
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TID 2006 Imaging Report With Conditional Radiation Exposure and Protection Information

Table TID 2006. Imaging Report With Conditional Radiation Exposure and Protection Information

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
2	>	HAS CONCEPT MOD	CODE	EV (121058, DCM, "Procedure reported")	1-n	U		

Content Item Descriptions

Row 2	Even though this information is related to the content of Row 6 in ???, it is present here for consistency with other report Templates.
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TID 3300 Stress Testing Report

Table TID 3300. Stress Testing Report

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
2	>	HAS CONCEPT MOD	CODE	EV (121058, DCM, "Procedure reported")	1	M		DE CID 3200 "Stress Test Procedure"

TID 3307 NM/PET Perfusion Measurement Group

Table TID 3307. NM/PET Perfusion Measurement Group

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
2	>	HAS CONCEPT MOD	CODE	EV (121058, DCM, "Procedure reported")	1	M		DE CID 3108 "NM/PET Procedures"
20	>	CONTAINS	INCLUDE	DTID 5204 "Wall Motion Analysis"	1	U		\$Procedure = DE CID 3108 "NM/PET Procedures"

TID 3309 Stress Echo Measurement Group

Table TID 3309. Stress Echo Measurement Group

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
2	>	HAS CONCEPT MOD	CODE	EV (121058, DCM, "Procedure reported")	1	M		DT (P5-B3000, SRT, "Echocardiography")
11	>	CONTAINS	INCLUDE	DTID 5204 "Wall Motion Analysis"	1	U		\$Procedure = DT (P5-B3121, SRT, "Echocardiography for Determining Ventricular Contraction")

TID 3318 Comparison to Prior Stress Exam

Table TID 3318. Comparison to Prior Stress Exam

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
2	>	CONTAINS	CODE	DT (121058, DCM, "Procedure Reported")	1	U		DE CID 3200 "Stress Test Procedure"

TID 3700 ECG Report

Table TID 3700. ECG Report

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
2	>	HAS CONCEPT MOD	CODE	EV (121058, DCM, "Procedure reported")	1	U		DE CID 3670 "ECG Procedure Types"

TID 3800 Cardiac Catheterization Report Root

Table TID 3800. Cardiac Catheterization Report Root

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
2	>	HAS CONCEPT MOD	CODE	EV (121058, DCM, "Procedure reported")	1	M		BCID 3739 "Cath Procedure Type"

TID 3807 Percutaneous Coronary Intervention Procedure

Table TID 3807. Percutaneous Coronary Intervention Procedure

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
2	>	HAS CONCEPT MOD	CODE	EV (121058, DCM, "Procedure reported")	1	M		DT (122061, DCM, "Percutaneous Coronary Intervention")

TID 3809 Other Interventional Procedures

Table TID 3809. Other Interventional Procedures

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
2	>	HAS CONCEPT MOD	CODE	EV (121058, DCM, "Procedure reported")	1	M		BCID 3406 "Non-coronary Transcatheter Interventions"

TID 3812 Hemodynamic Findings

Table TID 3812. Hemodynamic Findings

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
2	>	HAS CONCEPT MOD	CODE	EV (121058, DCM, "Procedure reported")	1	M		DT (PA-50030, SRT, "Hemodynamic measurements")

TID 3814 Left Ventriculography Findings

Table TID 3814. Left Ventriculography Findings

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
2	>	HAS CONCEPT MOD	CODE	EV (121058, DCM, "Procedure reported")	1	M		DT (P5-30041, SRT, "Left Ventriculography")

TID 3815 Right Ventriculography Findings

Table TID 3815. Right Ventriculography Findings

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
2	>	HAS CONCEPT MOD	CODE	EV (121058, DCM, "Procedure reported")	1	M		DT (P5-3003F, SRT, "Right Ventriculography")

TID 3817 Coronary Arteriography Findings

Table TID 3817. Coronary Arteriography Findings

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
2	>	HAS CONCEPT MOD	CODE	EV (121058, DCM, "Procedure reported")	1	M		DT (P5-30100, SRT, "Coronary Arteriography")

TID 3818 Other Cardiographic Findings

Table TID 3818. Other Cardiographic Findings

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
2	>	HAS CONCEPT MOD	CODE	EV (121058, DCM, "Procedure reported")	1	M		BCID 3428 "Imaging Procedures"

TID 3900 CT/MR Cardiovascular Analysis Report

Table TID 3900. CT/MR Cardiovascular Analysis Report

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
2	>	HAS CONCEPT MOD	CODE	EV (121058, DCM, "Procedure Reported")	1-n	M		BCID 3820 "Non-invasive Vascular Procedures"

TID 4201 Breast Imaging Procedure Reported

Table TID 4201. Breast Imaging Procedure Reported

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CODE	EV (121058, DCM, "Procedure reported")	1	M		BCID 6050 "Breast Procedure Reported"

TID 5200 Echocardiography Procedure Report

Table TID 5200. Echocardiography Procedure Report

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
24	>	CONTAINS	INCLUDE	DTID 5204 "Wall Motion Analysis"	1-n	U		\$Procedure = DT (P5-B3121, SRT, "Echocardiography for Determining Ventricular Contraction")

Content Item Descriptions

Row 24	The wall motion findings of stress stage. There may be multiple Template instances to report wall motion findings of multiple stages.
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TID 5204 Wall Motion Analysis

Table TID 5204. Parameters

Parameter Name	Parameter Usage
\$Procedure	The imaging procedure used for wall motion analysis.

Table TID 5204. Wall Motion Analysis

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
2	>	HAS CONCEPT MOD	CODE	EV (121058, DCM, "Procedure reported")	1	M		\$Procedure

TID 10001 Projection X-Ray Radiation Dose

Table TID 10001. Projection X-Ray Radiation Dose

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
2	>	HAS CONCEPT MOD	CODE	EV (121058, DCM, "Procedure reported")	1	M		DT (113704, DCM, "Projection X-Ray") DT (P5-40010, SRT, "Mammography")

Content Item Descriptions

Row 2	<p>"Projection X-Ray" refers to procedures performed on either integrated equipment (where information is passed between the X-Ray source (generator and tube), detector, and mechanical systems), or non-integrated equipment (where data might not be available for one or more components such as cassette-based systems). The data availability can be described in Rows 8, 9 and 10. The specific type of equipment can be described in Row 4.</p> <p>The coded term for "Mammography" is intended to encompass all types of projection X-Ray imaging of the breast.</p> <p>Note</p> <p>Mammography exams are distinguished by a different value in this attribute, Angiography exams are distinguished by the Irradiation Event Type attribute = Fluoroscopy, CR/DR exams are distinguished by one or more of the Data Availability Flags = No, and CT exams are distinguished by the use of a different Template.</p>							
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TID 10011 CT Radiation Dose

Table TID 10011. CT Radiation Dose

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
2	>	HAS CONCEPT MOD	CODE	EV (121058, DCM, "Procedure reported")	1	M		EV (P5-08000, SRT, "Computed Tomography X-Ray")

CID 3108 NM/PET Procedures

Resources:	HTML FHIR JSON FHIR XML IHE SVS XML
Type:	Extensible
Version:	20160314
UID:	1.2.840.10008.6.1.741

Table CID 3108. NM/PET Procedures

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	P5-D30F8	Nuclear medicine cardiovascular study	108294005	C0581579
SRT	P5-0A006	PET heart study	241439007	C0412498
SRT	P5-D6000	Radioisotope study of endocrine system	7562007	C0203777
SRT	P5-D6500	Radioisotope study of hematopoietic system	41842006	C0203797
SRT	P5-D5000	Radioisotope study of gastrointestinal system	53585008	C0412377
SRT	P5-D0063	Radionuclide study for localization of inflammatory disease	252680004	C0474787
SRT	P5-D1000	Radioisotope study of musculoskeletal system	68796002	C0412452
SRT	P5-D90F8	Nuclear medicine diagnostic procedure on nervous system	108300008	C0412330
SRT	P5-D0040	Radionuclide localization of tumor	45316007	C0203651
SRT	P5-D2000	Radioisotope study of respiratory system	19086005	C0203681
SRT	P5-D7000	Radioisotope study of genitourinary system	76927004	C0203833
SRT	P5-0A001	PET brain study	241434002	C0412493
SRT	P5-0A00D	PET breast study	416323006	C1562778
SRT	P5-0A00A	PET study for localization of tumor	241443006	C0473941

CID 100 Quantitative Diagnostic Imaging Procedures

Resources: HTML | FHIR JSON | FHIR XML | IHE SVS XML
Type: Extensible
Version: 20141110
UID: 1.2.840.10008.6.1.998

Table CID 100. Quantitative Diagnostic Imaging Procedures

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	P5-09051	Magnetic resonance imaging guidance	258177008	C0442974
DCM	126020	Multiparametric MRI		
DCM	126021	Multiparametric MRI of prostate		
DCM	126022	Multiparametric MRI of whole body		
SRT	P5-0907F	Dynamic magnetic resonance imaging of knee	433139009	C2315346
SRT	P5-70694	Dynamic magnetic resonance imaging of pelvis	446315002	C2960816
LN	44139-4	PET whole body		C1715409
SRT	P5-080FF	PET/CT FDG imaging of whole body	443271005	C2732676
SRT	P5-08118	PET/CT MET imaging of whole body	443844003	C2732956
RADLEX	RPID96	CT head perfusion with IV contrast		
RADLEX	RPID5258	NM head perfusion brain SPECT		

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
RADLEX	RPID5427	NM head perfusion brain PET-CT AV-45		

CID 3200 Stress Test Procedure

Resources: HTML | FHIR JSON | FHIR XML | IHE SVS XML
Type: Extensible
Version: 20080927
UID: 1.2.840.10008.6.1.755

Table CID 3200. Stress Test Procedure

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	P0-006E4	Exercise stress test	165079009	C0015260
SRT	P2-31107	Pharmacologic stress test	424064009	C1827946
SRT	P2-31011	Pharmacologic and exercise stress test	428813002	C1998158
SRT	P2-3110B	Paced stress test	428685003	C1997441

CID 3406 Non-coronary Transcatheter Interventions

Resources: HTML | FHIR JSON | FHIR XML | IHE SVS XML
Type: Extensible
Version: 20030327
UID: 1.2.840.10008.6.1.71

Table CID 3406. Non-coronary Transcatheter Interventions

Coding Scheme Designator	Code Value	Code Meaning
DCM	122053	Valvular Intervention
DCM	122054	Aortic Intervention
DCM	122055	Septal Defect Intervention
DCM	122056	Vascular Intervention
DCM	122057	Myocardial biopsy

CID 3428 Imaging Procedures

Resources: HTML | FHIR JSON | FHIR XML | IHE SVS XML
Type: Extensible
Version: 20180325
UID: 1.2.840.10008.6.1.90

Table CID 3428. Imaging Procedures

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	P5-009A0	Angiography	77343006	C0002978
SRT	P5-32130	Aortography	54640009	C0003515
SRT	P5-30100	Coronary Arteriography	33367005	C0085532
SRT	P5-3003A	Cardiac ventriculography	252426003	C0596683

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	P5-30041	Left Ventriculography	265484009	C0412219
SRT	P5-3003F	Right Ventriculography	265483003	C0412220
SRT	P5-30107	Bypass graft angiography	252427007	C0430469
DCM	122058	Arterial conduit angiography		
SRT	P5-B3002	Transesophageal echocardiography	105376000	C0206054
SRT	P5-B3012	Transthoracic echocardiography	433236007	C0430462
SRT	P0-05F95	Epicardial echocardiography	433232009	C0430465
SRT	P5-B001D	Intravascular ultrasound	241466007	C0412530
SRT	P5-B3006	Intracardiac echocardiography	252421008	C0430464

Note

In a prior version of this context group, Transthoracic echocardiography was assigned the code P5-B3003 and Epicardial echocardiography was assigned the code P5-B3004; these codes conflict with other SNOMED code assignments. Receiving applications should be aware of this change, and the possibility of misinterpretation of SOP Instances that may include the deprecated codes; see ???.

CID 3670 ECG Procedure Types

Resources: [HTML](#) | [FHIR JSON](#) | [FHIR XML](#) | [IHE SVS XML](#)
Type: Extensible
Version: 20110330
UID: 1.2.840.10008.6.1.185

Table CID 3670. ECG Procedure Types

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	P2-3120A	12-Lead ECG	268400002	C0430456
SRT	P2-3120E	15-Lead ECG	429163003	C1998169
SRT	P2-3120C	18-Lead ECG	425808002	C1961003

CID 3739 Cath Procedure Type

Resources: [HTML](#) | [FHIR JSON](#) | [FHIR XML](#) | [IHE SVS XML](#)
Type: Extensible
Version: 20030327
UID: 1.2.840.10008.6.1.236

Table CID 3739. Cath Procedure Type

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	NCDR Equivalent
SRT	P1-31602	Catheterization of right heart	40403005	C0189896	54-1
SRT	P1-31604	Catheterization of left heart	67629009	C0189897	54-2
SRT	P1-3160A	Catheterization of both left and right heart with graft	128952006	C1293383	
SRT	P1-3160B	Catheterization of both left and right heart without graft	128953001	C1293384	

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	NCDR Equivalent
DCM	122061	Percutaneous Coronary Intervention			54-3

CID 3820 Non-invasive Vascular Procedures

Resources: [HTML](#) | [FHIR JSON](#) | [FHIR XML](#) | [IHE SVS XML](#)
Type: Extensible
Version: 20051103
UID: 1.2.840.10008.6.1.276

Table CID 3820. Non-invasive Vascular Procedures

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	P5-0903A	vascular MRI	241663008	C0243032
SRT	P5-09011	cardiac MRI	241620005	C0412692
SRT	P5-0807F	cardiovascular CT	303680000	C0581427
SRT	P5-0802B	CT of abdominal aorta	241553009	C0412626
SRT	P5-00A0D	trunk angiography	303827001	C0565173
SRT	P5-009BF	peripheral angiography	271993009	C0412290

CID 6050 Breast Procedure Reported

Resources: [HTML](#) | [FHIR JSON](#) | [FHIR XML](#) | [IHE SVS XML](#)
Type: Extensible
Version: 20190125
UID: 1.2.840.10008.6.1.379

Table CID 6050. Breast Procedure Reported

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
DCM	111408	Film Screen Mammography		
DCM	111409	Digital Mammography		
SRT	P5-B8500	Ultrasonography of breast	47079000	C0080264
SRT	P5-0900D	MRI of breast	241615005	C0344104
SRT	P1-48011	Pre-biopsy localization of breast lesion	237380007	C0473515
SRT	P1-48145	Fine needle aspiration of breast	387736007	C0542415
SRT	P1-48142	Diagnostic aspiration of breast cyst	287572003	C0565162
SRT	P1-48304	Core needle biopsy of breast	44578009	C0191853
SRT	P1-4830F	Breast - surgical biopsy	274331003	C0585992
SRT	P5-40060	Mammary ductogram	18102001	C0203033
SRT	P5-0801C	CT of breast	241539009	C0412609
SRT	P5-D0042	Radionuclide localization of tumor, limited area	66377006	C0203652
SRT	P5-40030	Specimen radiography of breast	80865008	C0203031
SRT	P2-4A000	Examination of breast	46662001	C0199850
DCM	111410	Surgical consult		

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
DCM	111411	Mammography CAD		
SRT	P1-65359	Sentinel lymph node biopsy	396487001	C0796693
SRT	P5-D0061	Radioisotope scan of lymphatic system	169167001	C0412375
DCM	111123	Marker placement		
SRT	P1-05535	Insertion of catheter	45211000	C0007430
LN	36626-0	breast - bilateral mammogram		C1524974
LN	30795-9	breast - bilateral mr		C1114600
LN	36150-1	breast - bilateral mr w contrast iv		C1524494
LN	36277-2	breast - bilateral mr wo and w contrast iv		C1524125
LN	46342-2	breast ffd mammogram		C1830243
LN	36627-8	breast - left mammogram		C1524975
LN	35954-7	breast - left mr		C1524349
LN	36151-9	breast - left mr w contrast iv		C1524495
LN	36278-0	breast - left mr wo and w contrast iv		C1524126
LN	36149-3	breast mr w contrast iv		C1524493
LN	36276-4	breast mr wo and w contrast iv		C1524610
LN	37774-7	breast - right mammogram		C1525124
LN	35955-4	breast - right mr		C1524350
LN	36152-7	breast - right mr w contrast iv		C1524496
LN	36279-8	breast - right mr wo and w contrast iv		C1524127
LN	36279-8	breast - right mr wo and w contrast iv		C1524127
LN	46339-8	breast - unilateral mammogram		C1830240
LN	46299-4	breast - unilateral mr		C1830200
LN	46323-2	breast - unilateral mr w contrast iv		C1830224
LN	43528-9	breast - unilateral mr wo and w contrast iv		C1714927
LN	46333-1	breast - unilateral mr wo contrast		C1830234
LN	46305-9	whole body ct		C1830206
LN	44139-4	whole body pt w rnc iv		C1715409

Note

- (P5-0900D, SRT, "MRI of breast") is used historically in preference to (30794-2, LN, "breast mr") even though LOINC is used for more specific pre-coordinated concepts.
- (46342-2, LN, "breast ffd mammogram") is specific to full field digital mammography, which is not explicit in the definition of (111409, DCM, "Digital Mammography").