

1	Status	Letter Ballot
2	Date of Last Update	2025/01/19
3	Person Assigned	David Clunie
4		mailto:dclunie@dclunie.com
5	Submitter Name	David Clunie
6		mailto:dclunie@dclunie.com
7	Submission Date	2024/08/09

8	Correction Number CP-2439	
9	Log Summary: Update DICOM to reflect changes in SNOMED Imaging Procedures	
10	Name of Standard	
11	PS3.6, PS3.16	
12	Rationale for Correction:	
13	SNOMED has updated various imaging procedures esp. wrt. use of intravenous (IV) contrast media	
14	"http://confluence.ihtsdotools.org/display/cmag/Proposed+update+to+content+in+the+Radiographic+imaging+procedure+%28procedure%28"	
15	Add high level concepts, and gather existing uses of with and without IV contrast into separate context groups.	
16	<i>[Ed.Note. Not within the scope of this CP, but CID 3820 is nominally "non-invasive" procedures, but contains two angiographic procedures, v</i>	
17	<i>definition invasive; this has been the case since the context group was added in Sup 97 CT/MR Cardiovascular Analysis Report.]</i>	
18	Correction Wording:	

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

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**TID 10013 CT Irradiation Event Data**

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**Table TID 10013. CT Irradiation Event Data**

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	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
5	>	CONTAINS	CODE	EV (408730004, SCT, "Procedure Context")	1	U		DCID 10014 "CT IV Contrast Imaging Technique"

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**Content Item Descriptions**

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Row 5	The acquisition was performed with or without contrast medium application.
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**CID 100 Quantitative Diagnostic Imaging Procedure**

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**Version:** 20230630

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**Table CID 100. Quantitative Diagnostic Imaging Procedure**

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Coding Scheme Designator	Code Value	Code Meaning	SNOMED-RT ID	UMLS Concept Unique ID
SCT	363679005	Imaging procedure	P0-0099A	C0011923
SCT	258177008	Magnetic resonance imaging guidance	P5-09051	C0442974
DCM	126020	Multiparametric MRI		
SCT	719178004	Multiparametric MRI of prostate		
DCM	126022	Multiparametric MRI of whole body		
SCT	433139009	Dynamic magnetic resonance imaging of knee	P5-0907F	C2315346
SCT	446315002	Dynamic magnetic resonance imaging of pelvis	P5-70694	C2960816
LN	25045-6	CT unspecified body region		C0882201
LN	25056-3	MRI unspecified body region		C0882563
LN	49118-3	NM unspecified body region		C1954874
LN	44136-0	PET unspecified body region		C1715406
LN	43468-8	XR unspecified body region		C1714805
SCT	77343006	Angiography		C0002978
LN	44139-4	PET whole body		C1715409
SCT	443271005	PET/CT FDG imaging of whole body	P5-080FF	C2732676
SCT	764704008	PET/CT MET imaging of whole body		C4707066
LN	39142-5	CT perfusion head with contrast IV		C1543263
LN	39632-5	SPECT brain		C1543694
RADLEX	RPID5427	NM head perfusion brain PET-CT AV-45		

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**CID 101 Imaging Procedure**

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**Version:** ~~20220415~~yyvymdd

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Table CID 101. Imaging Procedure

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Coding Scheme Designator	Code Value	Code Meaning	SNOMED-RT ID	UMLS Concept Unique ID
<u><b>Include CID 100 "Quantitative Diagnostic Imaging Procedure"</b></u>				
<i>Include CID 102 "LOINC-RSNA Radiology Imaging Procedure"</i>				
<i>Include CID 103 "NICIP Short Code Imaging Procedure"</i>				
<i>Include CID 104 "NICIP SNOMED Imaging Procedure"</i>				
<i>Include CID 105 "ICD-10-PCS Imaging Procedure"</i>				
<i>Include CID 106 "ICD-10-PCS Nuclear Medicine Procedure"</i>				
<i>Include CID 107 "ICD-10-PCS Radiation Therapy Procedure"</i>				
<u><b>Include CID 3820 "Non-invasive Vascular Procedure"</b></u>				
<u><b>Include CID ccc1 "Diagnostic Imaging Procedure without IV Contrast"</b></u>				
<u><b>Include CID ccc2 "Diagnostic Imaging Procedure with IV Contrast"</b></u>				

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CID 102 LOINC-RSNA Radiology Imaging Procedure

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Version: Not versioned

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Context Group ID 102 comprises the codes of the LOINC-RSNA Radiology Playbook.

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Coding Scheme Designator is specified as "LN".

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Note

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1. Equivalent to the LOINC Value Set "LOINC/RSNA Playbook" 1.3.6.1.4.1.12009.10.2.5.1.
2. The LOINC-RSNA Radiology Playbook is available at <http://loinc.org/download/loincrsna-radiology-playbook-file/> , or in FHIR ValueSet format through the LOINC FHIR server at <http://fhir.loinc.org/ValueSet/loinc-rsna-radiology-playbook/> .
3. Users may prefer to use the LOINC-RSNA Radiology Playbook Core subset, which may be a more tractable starting point for use of the LOINC/RSNA Radiology Playbook terms. The Core value set UID is 1.3.6.1.4.1.12009.10.2.5.1.1. It is available in FHIR ValueSet format through the LOINC FHIR server at <http://fhir.loinc.org/ValueSet/loinc-rsna-radiology-playbook-core/> .

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CID 103 NICIP Short Code Imaging Procedure

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Version: Not versioned

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Context Group ID 103 comprises the Short Codes of the UK National Health Service National Interim Codes for Imaging Procedures.

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Coding Scheme Designator is specified as "NICIP".

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CID 104 NICIP SNOMED Imaging Procedure

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Version: Not versioned

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Context Group ID 104 comprises the SNOMED CT Concept-ID codes of the UK National Health Service National Interim Codes for Imaging Procedures.

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Coding Scheme Designator is specified as "SCT".

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Note

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The NICIP SNOMED Subset of Imaging Procedures is not included in the licensing agreement described in ??? between NEMA and SNOMED International that allows the use within DICOM conformant applications without further license or payment of fee.

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**CID 105 ICD-10-PCS Imaging Procedure**

**Version:** Not versioned

Context Group ID 105 comprises the ICD-10-PCS Imaging section codes (codes beginning with "B").  
Coding Scheme Designator is specified as "I10P".

**CID 106 ICD-10-PCS Nuclear Medicine Procedure**

**Version:** Not versioned

Context Group ID 106 comprises the ICD-10-PCS Nuclear Medicine section codes (codes beginning with "C").  
Coding Scheme Designator is specified as "I10P".

**CID 107 ICD-10-PCS Radiation Therapy Procedure**

**Version:** Not versioned

Context Group ID 107 comprises the ICD-10-PCS Radiation Therapy section codes (codes beginning with "D").  
Coding Scheme Designator is specified as "I10P".

**CID 3820 Non-invasive Vascular Procedure**

**Version:** 20220922

**Table CID 3820. Non-invasive Vascular Procedure**

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-RT ID	UMLS Concept Unique ID
SCT	241663008	vascular MRI	P5-0903A	C0243032
SCT	241620005	cardiac MRI	P5-09011	C0412692
SCT	303680000	cardiovascular CT	P5-0807F	C0581427
SCT	241553009	CT of abdominal aorta	P5-0802B	C0412626
SCT	1187246003	CT of abdominal aorta without contrast		
SCT	444968003	CT arteriography of abdominal aorta with contrast	P5-08123	C2919359
SCT	303827001	trunk angiography	P5-00A0D	C0565173
SCT	271993009	peripheral angiography	P5-009BF	C0412290

**CID 10014 CT IV Contrast Imaging Technique**

**Resources:** HTML | FHIR JSON | FHIR XML | IHE SVS XML  
**Keyword:** CTIVContrastImagingTechnique  
**FHIR Keyword:** dicom-cid-10014-CTIVContrastImagingTechnique  
**Type:** Extensible  
**Version:** 20071031yyvymdd  
**UID:** 1.2.840.10008.6.1.546

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**Table CID 10014. Contrast Imaging Technique**

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Coding Scheme Designator	Code Value	Code Meaning	SNOMED-RT ID	UMLS Concept Unique ID
SCT	<del>27483000</del> 1331946003	<del>Diagnostic radiography with contrast media</del> CT with contrast	<del>P5-00400</del>	<del>G0542435</del> C0742919
SCT	399331006	CT without contrast	P5-0808E	C1275400

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Add new context groups to DICOM PS3.16:

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**CID ccc1 Diagnostic Imaging Procedure without IV Contrast**

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**Resources:** HTML | FHIR JSON | FHIR XML | IHE SVS XML  
**Keyword:** DiagnosticImagingProcedureWithoutIVContrast  
**FHIR Keyword:** dicom-cid-ccc1-DiagnosticImagingProcedureWithoutIVContrast  
**Type:** Extensible  
**Version:** yyyymmdd  
**UID:** 1.2.840.10008.6.1.nnnn1

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**Table CID ccc1. Diagnostic Imaging Procedure without Contrast**

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Coding Scheme Designator	Code Value	Code Meaning	SNOMED-RT ID	UMLS Concept Unique ID
SCT	399331006	CT without contrast	P5-0808E	C1275400
SCT	1187246003	CT of abdominal aorta without contrast		

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**CID ccc2 Diagnostic Imaging Procedure with IV Contrast**

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**Resources:** HTML | FHIR JSON | FHIR XML | IHE SVS XML  
**Keyword:** DiagnosticImagingProcedureWithIVContrast  
**FHIR Keyword:** dicom-cid-ccc2-DiagnosticImagingProcedureWithIVContrast  
**Type:** Extensible  
**Version:** yyyymmdd  
**UID:** 1.2.840.10008.6.1.nnnn2

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**Table CID ccc2. Diagnostic Imaging Procedure with Contrast**

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Coding Scheme Designator	Code Value	Code Meaning	SNOMED-RT ID	UMLS Concept Unique ID
SCT	1331946003	CT with contrast		C0742919
SCT	444968003	CT arteriography of abdominal aorta with contrast	P5-08123	C2919359
LN	39142-5	CT perfusion head with contrast IV		C1543263
SCT	1295466006	Plain X-ray with contrast		C3267101
SCT	763454007	Fluoroscopy using contrast		C4706464

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Add new retired concepts to DICOM PS3.16:

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## J SNOMED Retired Codes

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**Table J-1. SNOMED Codes Retired from DICOM Use**

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Retired Code Value	Code Meaning	Replacement Code	Notes
27483000	Diagnostic radiography with contrast media	1331946003	Replacement code has meaning of "Computed tomography with contrast (procedure)". Retired code is inactive in SNOMED CT.

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*Add new context groups to DICOM PS3.6:*

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## A Registry of DICOM Unique Identifiers (UIDs) (Normative)

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**Table A-3. Context Group UID Values**

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Context Group UID	Context Group Identifier	Context Group Name	Comment
1.2.840.10008.6.1.nnnn1	CID ccc1	Diagnostic Imaging Procedure without IV Contrast	
1.2.840.10008.6.1.nnnn2	CID ccc2	Diagnostic Imaging Procedure with IV Contrast	

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