

1	STATUS	Letter Ballot
2	Date of Last Update	2014/09/08
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5	Submitter Name	WG 3
6	Submission Date	2014/02/24

7	Correction Number CP-1375	
8	Log Summary: Add Various PET Radionuclides and Radiotracers	
9	Name of Standard	
10	PS 3.16 2014b	
11	Rationale for Correction:	
12	Various new PET Radionuclides and Radiotracers have been developed. Add codes for them, using DCM codes if necessary for those not in SNOMED or UMLS.	
13		
14	Correction Wording:	

Amend DICOM PS 3.16 Content Mapping Resource - Context Groups as follows:

CID 4020 PET Radionuclide

Type: Extensible

Version: ~~20130207~~yyymmdd

Table CID 4020. PET Radionuclide

Coding Scheme Designator	Code Value	Code Meaning
SRT	C-105A1	¹¹ C
SRT	C-107A1	¹³ N
SRT	C-1018C	¹⁴ O
SRT	C-B1038	¹⁵ O
SRT	C-111A1	¹⁸ F
SRT	C-155A1	²² Na
SRT	C-135A4	³⁸ K
<u>DCM</u>	<u>dddd1</u>	<u>⁴³Sc</u>
<u>DCM</u>	<u>dddd2</u>	<u>⁴⁴Sc</u>
SRT	C-166A2	⁴⁵ Ti
<u>DCM</u>	<u>dddd3</u>	<u>⁵¹Mn</u>
<u>SRT</u>	<u>C-130A1</u>	<u>⁵²Fe</u>
SRT	C-149A1	⁵² Mn
SRT	C-127A4	⁶⁰ Cu
SRT	C-127A1	⁶¹ Cu
SRT	C-127A5	⁶² Cu
SRT	C-141A1	⁶² Zn
SRT	C-127A2	⁶⁴ Cu
SRT	C-131A1	⁶⁶ Ga
SRT	C-131A3	⁶⁸ Ga
SRT	C-128A2	⁶⁸ Ge
<u>DCM</u>	<u>dddd4</u>	<u>⁷⁰As</u>
<u>SRT</u>	<u>C-115A2</u>	<u>⁷²As</u>
<u>SRT</u>	<u>C-116A2</u>	<u>⁷³Se</u>
SRT	C-113A1	⁷⁵ Br
SRT	C-113A2	⁷⁶ Br
SRT	C-113A3	⁷⁷ Br
SRT	C-159A2	⁸² Rb
SRT	C-162A3	⁸⁶ Y
<u>DCM</u>	<u>dddd5</u>	<u>⁹⁰Nb</u>
SRT	C-162A7	⁹⁰ Y
SRT	C-163AA	^{94m} Tc
SRT	C-114A5	¹²⁴ I
		<u>¹⁵²Tb</u>

CID 4021 PET Radiopharmaceutical

Type: Extensible

Version: ~~20130207~~yyymmdd

Table CID 4021. PET Radiopharmaceutical

Coding Scheme Designator	Code Value	Code Meaning	Other Names
...
DCM	dddd10	ATSM Cu⁶⁰	
DCM	dddd11	ATSM Cu⁶¹	
DCM	dddd12	ATSM Cu⁶²	
SRT	C-B07DB	ATSM Cu ⁶⁴	
...
DCM	dddd13	Choline C¹¹	
DCM	dddd14	Fallypride C¹¹	
DCM	dddd15	Fallypride F¹⁸	
DCM	dddd16	FLB 457 C¹¹	
DCM	dddd17	Fluorotripride F¹⁸	
DCM	dddd18	Fluoromisonidazole (FMISO) F¹⁸	
DCM	dddd19	Glutamine C¹¹	
DCM	dddd20	Glutamine C¹⁴	
DCM	dddd21	Glutamine F¹⁸	
UMLS	C1742831	tyrosine-3-octreotate Ga⁶⁸	DOTATATE
UMLS	C2713594	Edotreotide Ga⁶⁸	DOTATOC, SMT487
UMLS	C2981788	ISO-1 F¹⁸	
UMLS	C1831937	Fluoroestradiol (FES) F¹⁸	
UMLS	C1541539	Fluoroetanidazole F¹⁸	EF5
DCM	dddd22	Flubatine F¹⁸	NCFHEB
DCM	dddd23	2FA F¹⁸	FA-85380
DCM	dddd24	Nifene F¹⁸	
DCM	dddd25	CLR1404 I¹²⁴	
DCM	dddd26	CLR1404 I¹³¹	
...

Amend DICOM PS 3.16 - Content Mapping Resource - Controlled Terminology Definitions to add the following new concepts:

Table D-1. DICOM Controlled Terminology Definitions

Code Value	Code Meaning	Definition	Notes
dddd1	⁴³ Scandium		
dddd2	⁴⁴ Scandium	⁴⁴ Scandium	
dddd3	⁵¹ Manganese	⁵¹ Manganese	
dddd4	⁷⁰ Arsenic	⁷⁰ Arsenic	

Code Value	Code Meaning	Definition	Notes
dddd5	⁹⁰ Niobium	⁹⁰ Niobium	
dddd10	ATSM Cu ⁶⁰	A Cu 60 ATSM PET radiotracer.	
dddd11	ATSM Cu ⁶¹	A Cu 61 ATSM PET radiotracer.	
dddd12	ATSM Cu ⁶²	A Cu 62 ATSM PET radiotracer.	
dddd13	Choline C ¹¹	A C 11 Choline PET radiotracer.	
dddd14	Fallypride C ¹¹	A C 11 Fallypride PET radiotracer.	
dddd15	Fallypride F ¹⁸	An F 18 Fallypride PET radiotracer.	
dddd16	FLB 457 C ¹¹	A C 11 FLB 457 PET radiotracer.	
dddd17	Fluorotriopride F ¹⁸	An F 18 Fluorotriopride PET radiotracer.	
dddd18	Fluoromisonidazole (FMISO) F ¹⁸	An F 18 Fluoromisonidazole PET radiotracer.	
dddd19	Glutamine C ¹¹	A C 11 Glutamine PET radiotracer.	
dddd20	Glutamine C ¹⁴	A C 14 Glutamine PET radiotracer.	
dddd21	Glutamine F ¹⁸	An F 18 Glutamine PET radiotracer.	
dddd22	Flubatine F ¹⁸	An F 18 Flubatine PET radiotracer.	
dddd23	2FA F ¹⁸	An F 18 2FA PET radiotracer.	
dddd24	Nifene F ¹⁸	An F 18 Nifene PET radiotracer.	
dddd25	CLR1404 I ¹²⁴	An I 124 cancer targeted phospholipid ether PET radiotracer.	
dddd26	CLR1404 I ¹³¹	An I 131 cancer targeted phospholipid ether PET radiotracer.	