

1	Status	Final Text
2	Date of Last Update	2016/01/19
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5	Submitter Name	WG 3, WG 30
6	Submission Date	2015/04/23

7	Correction Number CP-1494	
8	Log Summary: More Zr 89 monoclonal antibody and other targeted PET radiotracers	
9	Name of Standard	
10	PS3.16 2015c	
11	Rationale for Correction:	
12	More Zr 89 monoclonal antibody (mAb) and other targeted (e.g., peptide) PET radiotracers are in use in research, and these need	
13	to be coded for use in PET objects.	
14	See, for example, Van Dongen et al. 89Zr-immuno-PET for imaging of long circulating drugs and disease targets: why, how and	
15	when to be applied? Q J Nucl Med Mol Imaging. 2015 Mar;59(1):18-38. Epub 2014 Dec 17.	
16	http://www.minervamedica.it/en/journals/nuclear-med-molecular-imaging/article.php?cod=R39Y2015N01A0018	
17	Correction Wording:	

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

CID 4021 PET Radiopharmaceutical

Type: Extensible
Version: 2014444020160119

Table CID 4021. PET Radiopharmaceutical

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	Other Names
DCM	126752	28H1 ^89^Zr			
DCM	126713	2FA F^18^			FA-85380
DCM	126751	7D12 ^89^Zr			
DCM	126750	7E11 ^89^Zr			
SRT	C-B1043	Acetate C^11^	129513004	C1098488	
DCM	126729	AGN-150998 ^89^Zr			MP0112
SRT	C-B103C	Ammonia N^13^	129508003	C1268560	
DCM	126754	Anti-B220 ^89^Zr			Anti-CD45R
DCM	126700	ATSM Cu^60^			
DCM	126701	ATSM Cu^61^			
DCM	126702	ATSM Cu^62^			
SRT	C-B07DB	ATSM Cu^64^	422855001	C1828021	
DCM	126722	Benralizumab ^89^Zr			MEDI-563, KHK4563
DCM	126516	Bevacizumab ^89^Zr			Avastin™ ^89^Zr
DCM	126727	Blinatumomab ^89^Zr			AMG103, MT103
DCM	126735	Brentuximab ^89^Zr			Adcetris™
SRT	C-B07DC	Butanol O^15^	422540000	C1827030	
SRT	C-B103B	Carbon dioxide O^15^	129507008	C1268559	
SRT	C-B1045	Carbon monoxide C^11^	129515006	C1268564	
SRT	C-B103A	Carbon monoxide O^15^	129506004	C1268558	
SRT	C-B103F	Carfentanil C^11^	129511002	C1268562	
DCM	126513	Cetuximab ^89^Zr			Erbitux™ ^89^Zr
DCM	126517	cG250-F(ab')(2) ^89^Zr			
DCM	126703	Choline C^11^			
DCM	126715	CLR1404 I^124^			
DCM	126716	CLR1404 I^131^			
DCM	126746	cMAb U36 ^89^Zr			
DCM	126515	cU36 ^89^Zr			
DCM	126762	Df-[FK](2) ^89^Zr			
DCM	126763	Df-[FK](2)-3PEG(4) ^89^Zr			
DCM	126520	Df-CD45 ^89^Zr			
DCM	126760	Df-FK ^89^Zr			
DCM	126761	Df-FK-PEG(3) ^89^Zr			

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	Other Names
DCM	126747	DN30 ^89^Zr			
DCM	126519	E4G10 ^89^Zr			
DCM	126732	Ecromeximab ^89^Zr			KW-2871
UMLS	C2713594	Edotreotide Ga^68^		C2713594	DOTATOC, SMT487
SRT	C-B07DD	EDTA Ga^68^	423498000	C1828067	
DCM	126704	Fallypride C^11^			
DCM	126705	Fallypride F^18^			
DCM	126706	FLB 457 C^11^			
DCM	126501	Florbetaben F^18^			NeuroCeq™
SRT	C-E0269	Florbetapir F^18^	456995000	C3475363	AV-45, Amyvid™
DCM	126503	Flubatine F^18^			NCFHEB
DCM	126712	Flubatine F^18^			NCFHEB
SRT	C-E0265	Fluciclatide F^18^	456999006	C2987729	
SRT	C-E026A	Fluciclovine F^18^	457000009	C1311253	
SRT	C-B07DE	Flumazenil C^11^	423543007	C1827653	
SRT	C-B07DF	Flumazenil F^18^	422975006	C1828330	
SRT	C-B07E0	Fluorethyltyrosin F^18^	424708001	C1827913	
SRT	C-B07E4	Fluorobenzothiazole F^18^	423546004	C1827131	
SRT	C-E0273	Fluorocholine F^18^	456992002	C3531803	
SRT	C-B1031	Fluorodeoxyglucose F^18^	35321007	C0046056	
UMLS	C1831937	Fluoroestradiol (FES) F^18^		C1831937	
UMLS	C1541539	Fluoroetanidazole F^18^		C1541539	EF5
SRT	C-B1034	Fluoro-L-dopa F^18^	129500005	C1268553	
SRT	C-B07E2	Fluoromethane F^18^	422763008	C1827137	
SRT	C-B07E1	Fluoromisonidazole F^18^	422598008	C1827349	FMISO
UMLS	C2934038	Fluoropropyl-dihydrotetabenazine (DTBZ) F^18^		C2934038	AV-133
DCM	126707	Fluorotriopride F^18^			
SRT	C-B07E3	Fluorouracil F^18^	425236000	C1827690	
SRT	C-E0267	Flutemetamol F^18^	456997008	C2983948	Vizamyl™
DCM	126748	Fresolimumab ^89^Zr			GC1008
DCM	126731	GA201 ^89^Zr			RG1760, RO5083945
SRT	C-B1046	Germanium Ge^68^	129516007	C1268565	
DCM	126724	Glembatumumab vedotin ^89^Zr			CDX-011, CR011-vcMMAE
SRT	C-B103D	Glutamate N^13^	129509006	C1268561	
DCM	126709	Glutamine C^11^			
DCM	126710	Glutamine C^14^			
DCM	126711	Glutamine F^18^			
UMLS	C2981788	ISO-1 F^18^		C2981788	

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	Other Names
DCM	126514	J591 ^89^Zr			
DCM	126740	Margetuximab ^89^Zr			MGAH22
DCM	126730	MEDI-551 ^89^Zr			
SRT	C-B07E5	Mespiperone C^11^	424789007	C1828032	
SRT	C-B103E	Methionine C^11^	129510001	C0252667	
DCM	126738	Mogamulizumab ^89^Zr			AMG761, KW-0761, Poteligeo™
DCM	126510	Monoclonal Antibody (mAb) ^64^Cu			
DCM	126511	Monoclonal Antibody (mAb) ^89^Zr			
SRT	C-B07E6	Monoclonal antibody I^124^	424874008	C1827605	
DCM	126753	Nanocolloidal albumin ^89^Zr			Nanocoll
DCM	126714	Nifene F^18^			
DCM	126721	Obinituzimab ^89^Zr			Afutuzumab, Gazyva™
DCM	126723	Ocaratuzumab ^89^Zr			AME-133v, LY2469298
SRT	C-B1038	Oxygen O^15^	129504001	C1268556	
SRT	C-B1039	Oxygen-water O^15^	129505000	C1268557	
SRT	C-B1044	Palmitate C^11^	129514005	C1268563	
DCM	126736	Panitumumab ^89^Zr			ABX-EGF, Vectibix™
DCM	126728	Pegdinetanib ^89^Zr			BMS-844203, CT-322, Angiocept™
DCM	126725	Pinatuzumab vedotin ^89^Zr			RG7593, DCDT2980S
DCM	126500	Pittsburgh compound B C^11^			PIB
DCM	126726	Polatuzumab vedotin ^89^Zr			RG7596, DCDS4501A
SRT	C-B07E7	PTSM Cu^62^	422789008	C1827357	
DCM	126518	R1507 ^89^Zr			
SRT	C-B1042	Raclopride C^11^	129512009	C0752264	
DCM	126742	Ranibizumab ^89^Zr			Lucentis™
DCM	126737	Rituximab ^89^Zr			IDEC-C2B8, Rituxan™
DCM	126755	RO5323441 ^89^Zr			
DCM	126756	RO542908 ^89^Zr			
DCM	126733	Roledumab ^89^Zr			LFB-R593
SRT	C-B1037	Rubidium chloride Rb^82^	129503007	C1268555	
DCM	126741	SAR3419 ^89^Zr			
SRT	C-B1032	Sodium fluoride F^18^	129501009	C0304965	
SRT	C-B07E8	Sodium iodide I^124^	422980002	C1828393	
SRT	C-B1047	Sodium Na^22^	129517003	C1268566	

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	Other Names
SRT	C-B1033	Spiperone F ¹⁸ A	129499001	C1268552	
DCM	126502	T807 F ¹⁸ A			AV-1451
SRT	C-B1036	Thymidine (FLT) F ¹⁸ A	129502002	C1268554	
DCM	126512	Trastuzumab ⁸⁹ Zr			Herceptin™ ⁸⁹ Zr
DCM	126749	TRC105 ⁸⁹Zr			
UMLS	C1742831	tyrosine-3-octreotate Ga ⁶⁸ A		C1742831	DOTATATE
DCM	126739	Ublituximab ⁸⁹Zr			LFB-R603, TG-1101
DCM	126734	XmAb5574 ⁸⁹Zr			MOR208

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
126721	Obinituzimab ⁸⁹ Zr	A Zr 89 Obinituzimab PET Radiotracer..	
126722	Benralizumab ⁸⁹ Zr	A Zr 89 Benralizumab PET Radiotracer.	
126723	Ocaratuzumab ⁸⁹ Zr	A Zr 89 Ocaratuzumab PET Radiotracer.	
126724	Glembatumumab vedotin ⁸⁹ Zr	A Zr 89 Glembatumumab vedotin PET Radiotracer.	
126725	Pinatuzumab vedotin ⁸⁹ Zr	A Zr 89 Pinatuzumab vedotin PET Radiotracer.	
126726	Polatuzumab vedotin ⁸⁹ Zr	A Zr 89 Polatuzumab vedotin PET Radiotracer.	
126727	Blinatumomab ⁸⁹ Zr	A Zr 89 Blinatumomab PET Radiotracer.	
126728	Pegdinetanib ⁸⁹ Zr	A Zr 89 Pegdinetanib PET Radiotracer.	
126729	AGN-150998 ⁸⁹ Zr	A Zr 89 AGN-150998 PET Radiotracer.	
126730	MEDI-551 ⁸⁹ Zr	A Zr 89 MEDI-551 PET Radiotracer.	
126731	GA201 ⁸⁹ Zr	A Zr 89 GA201 PET Radiotracer.	
126732	Ecromeximab ⁸⁹ Zr	A Zr 89 Ecromeximab PET Radiotracer.	
126733	Roledumab ⁸⁹ Zr	A Zr 89 Roledumab PET Radiotracer.	
126734	XmAb5574 ⁸⁹ Zr	A Zr 89 XmAb5574 PET Radiotracer.	
126735	Brentuximab ⁸⁹ Zr	A Zr 89 Brentuximab PET Radiotracer.	
126736	Panitumumab ⁸⁹ Zr	A Zr 89 Panitumumab PET Radiotracer.	
126737	Rituximab ⁸⁹ Zr	A Zr 89 Rituximab PET Radiotracer.	
126738	Mogamulizumab ⁸⁹ Zr	A Zr 89 Mogamulizumab PET Radiotracer.	
126739	Ublituximab ⁸⁹ Zr	A Zr 89 Ublituximab PET Radiotracer.	
126740	Margetuximab ⁸⁹ Zr	A Zr 89 Margetuximab PET Radiotracer.	
126741	SAR3419 ⁸⁹ Zr	A Zr 89 SAR3419 PET Radiotracer.	
126742	Ranibizumab ⁸⁹ Zr	A Zr 89 Ranibizumab PET Radiotracer.	
126746	cMAb U36 ⁸⁹ Zr	A Zr 89 cMAb U36 PET Radiotracer.	
126747	DN30 ⁸⁹ Zr	A Zr 89 DN30 PET Radiotracer.	
126748	Fresolimumab ⁸⁹ Zr	A Zr 89 Fresolimumab PET Radiotracer.	
126749	TRC105 ⁸⁹ Zr	A Zr 89 TRC105 PET Radiotracer.	
126750	7E11 ⁸⁹ Zr	A Zr 89 7E11 PET Radiotracer.	

Code Value	Code Meaning	Definition	Notes
126751	7D12 ^89^Zr	A Zr 89 7D12 PET Radiotracer.	
126752	28H1 ^89^Zr	A Zr 89 28H1 PET Radiotracer.	
126753	Nanocolloidal albumin ^89^Zr	A Zr 89 nanocolloidal albumin PET Radiotracer. See Heuveling et al. Pilot Study on the Feasibility of PET/CT Lymphoscintigraphy with ⁸⁹ Zr-Nanocolloidal Albumin for Sentinel Node Identification in Oral Cancer Patients. J Nucl Med. 2013 Apr;54(4):585-9. doi:10.2967/jnumed.112.115188. http://jnm.snmjournals.org/content/54/4/585.long	
126754	Anti-B220 ^89^Zr	A Zr 89 Anti-B220 PET Radiotracer.	
126755	RO5323441 ^89^Zr	A Zr 89 RO5323441 PET Radiotracer.	
126756	RO542908 ^89^Zr	A Zr 89 RO542908 PET Radiotracer.	
126760	Df-FK ^89^Zr	A Zr 89 Df-FK peptide PET Radiotracer. See Jacobsen O et al. MicroPET Imaging of Integrin $\alpha_v\beta_3$ Expressing Tumors Using ⁸⁹ Zr-RGD Peptides. Mol Imaging Biol. 2011 Dec; 13(6): 1224–1233. doi:10.1007/s11307-010-0458-y http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3137711/	
126761	Df-FK-PEG(3) ^89^Zr	A Zr 89 Df-FK-PEG(3) peptide PET Radiotracer. See Jacobsen O et al. MicroPET Imaging of Integrin $\alpha_v\beta_3$ Expressing Tumors Using ⁸⁹ Zr-RGD Peptides. Mol Imaging Biol. 2011 Dec; 13(6): 1224–1233. doi:10.1007/s11307-010-0458-y http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3137711/	
126762	Df-[FK](2) ^89^Zr	A Zr 89 Df-[FK](2) peptide PET Radiotracer. See Jacobsen O et al. MicroPET Imaging of Integrin $\alpha_v\beta_3$ Expressing Tumors Using ⁸⁹ Zr-RGD Peptides. Mol Imaging Biol. 2011 Dec; 13(6): 1224–1233. doi:10.1007/s11307-010-0458-y http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3137711/	
126763	Df-[FK](2)-3PEG(4) ^89^Zr	A Zr 89 Df-[FK](2)-3PEG(4) peptide PET Radiotracer. See Jacobsen O et al. MicroPET Imaging of Integrin $\alpha_v\beta_3$ Expressing Tumors Using ⁸⁹ Zr-RGD Peptides. Mol Imaging Biol. 2011 Dec; 13(6): 1224–1233. doi:10.1007/s11307-010-0458-y http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3137711/	