

1	Status	Letter Ballot
2	Date of Last Update	2018/11/11
3	Person Assigned	David Clunie
4		mailto:dclunie@dclunie.com
5	Submitter Name	David Clunie
6		mailto:dclunie@dclunie.com
7	Submission Date	2018/05/10

8	Correction Number CP-1823	
9	Log Summary: Add more PET Radiopharmaceuticals for Alzheimer's Disease	
10	Name of Standard	
11	PS3.16	
12	Rationale for Correction:	
13	Codes are needed for more PET Alzheimer's tau and synaptic density radiotracers.	
14	For UCB-J, see Chen M-K et al. Assessing Synaptic Density in Alzheimer Disease With Synaptic Vesicle Glycoprotein 2A Positron	
15	Emission Tomographic Imaging. JAMA Neurol. 2018 Jul 16. <a href="https://jamanetwork.com/journals/jamaneurology/fullarticle/2687472">https://jamanetwork.com/journals/jamaneurology/fullarticle/2687472</a>	
16	Correction Wording:	

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

## CID 4021 PET Radiopharmaceutical

Resources: HTML | FHIR JSON | FHIR XML | IHE SVS XML  
 Type: Extensible  
 Version: ~~20180327~~yyyymmdd  
 UID: 1.2.840.10008.6.1.305

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			Erbix™ ^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			

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	Other Names
DCM	126761	Df-FK-PEG(3) ^89^Zr			
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^			
SRT	C-D6858	Florbetaben F^18^	712736002	C3818757	NeuroCeq™
SRT	C-E0269	Florbetapir F^18^	456995000	C3475363	AV-45, Amyvid™
<b>UMLS</b>	<b>C4547429</b>	<b>Flortaucipir F^18^</b>		<b>C4547429</b>	<b>AV-1451, T807</b>
DCM	126503	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-dihydrotetrabenazine (DTBZ) F^18^		C2934038	AV-133
DCM	126707	Fluorotripride F^18^			
SRT	C-B07E3	Fluorouracil F^18^	425236000	C1827690	
DCM	126718	Flurpiridaz F^18^			BMS-747158-02
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	Glebatumumab 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^			

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	Other Names
UMLS	C2981788	ISO-1 F <sup>18</sup> ^		C2981788	
DCM	126514	J591 ^89^Zr			
DCM	126740	Margetuximab ^89^Zr			MGAH22
DCM	126730	MEDI-551 ^89^Zr			
SRT	C-B07E5	Mespiperone C <sup>11</sup> ^	424789007	C1828032	
SRT	C-B103E	Methionine C <sup>11</sup> ^	129510001	C0252667	
<b>UMLS</b>	<b>C4506764</b>	<b>MK-6240 F<sup>18</sup>^</b>		<b>C4506764</b>	
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 <sup>124</sup> ^	424874008	C1827605	
DCM	126753	Nanocolloidal albumin ^89^Zr			Nanocoll
DCM	126714	Nifene F <sup>18</sup> ^			
DCM	126721	Obinituzimab ^89^Zr			Afutuzumab, Gazyva™
DCM	126723	Ocaratuzumab ^89^Zr			AME-133v, LY2469298
SRT	C-B1038	Oxygen O <sup>15</sup> ^	129504001	C1268556	
SRT	C-B1039	Oxygen-water O <sup>15</sup> ^	129505000	C1268557	
SRT	C-B1044	Palmitate C <sup>11</sup> ^	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 <sup>11</sup> ^			PIB
DCM	126726	Polatuzumab vedotin ^89^Zr			RG7596, DCDS4501A
SRT	C-B07E7	PTSM Cu <sup>62</sup> ^	422789008	C1827357	
DCM	126518	R1507 ^89^Zr			
SRT	C-B1042	Raclopride C <sup>11</sup> ^	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			
<b>DCM</b>	<b>ddd001</b>	<b>RO6924963 ^11^C</b>			<b>RO-963</b>
<b>DCM</b>	<b>ddd002</b>	<b>RO6931643 ^11^C</b>			<b>RO-643</b>
<b>DCM</b>	<b>ddd003</b>	<b>RO6958948 ^18^F</b>			<b>RO-948</b>
DCM	126733	Roledumab ^89^Zr			LFB-R593
SRT	C-B1037	Rubidium chloride Rb <sup>82</sup> ^	129503007	C1268555	
DCM	126741	SAR3419 ^89^Zr			
SRT	C-B1032	Sodium fluoride F <sup>18</sup> ^	129501009	C0304965	
SRT	C-B07E8	Sodium iodide I <sup>124</sup> ^	422980002	C1828393	
SRT	C-B1047	Sodium Na <sup>22</sup> ^	129517003	C1268566	
SRT	C-B1033	Spiperone F <sup>18</sup> ^	129499001	C1268552	

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	Other Names
DCM	126502	T807 F <sup>18</sup> ^			AV-1451
<b>UMLS</b>	<b>C4550127</b>	<b>THK5317 F<sup>18</sup>^</b>		<b>C4550127</b>	
<del>DCM</del> <b>UMLS</b>	<del>126717</del> <b>C4279748</b>	THK5351 F <sup>18</sup> ^		<b>C4279748</b>	
SRT	C-B1036	Thymidine (FLT) F <sup>18</sup> ^	129502002	C1268554	
DCM	126512	Trastuzumab <sup>89</sup> Zr			Herceptin™ <sup>89</sup> Zr
DCM	126749	TRC105 <sup>89</sup> Zr			
UMLS	C1742831	tyrosine-3-octreotate Ga <sup>68</sup> ^		C1742831	DOTATATE
DCM	126739	Ublituximab <sup>89</sup> Zr			LFB-R603, TG-1101
<b>UMLS</b>	<b>C4506788</b>	<b>UCB-J C<sup>11</sup>^</b>		<b>C4506788</b>	
DCM	126734	XmAb5574 <sup>89</sup> Zr			MOR208
NCIt	C118961	PSMA Ga <sup>68</sup> ^		C3899042	Glu-NH-CO-NH-Lys(Ahx)-HBED-CC Ga <sup>68</sup> ^
NCIt	C122684	Sarcosine C <sup>11</sup> ^		C4055275	

Table D-1. DICOM Controlled Terminology Definitions

Code Value	Code Meaning	Definition	Notes
126717	THK5351 F <sup>18</sup> ^	A PET radiotracer used for tau brain imaging.  See Harada R, Okamura N, Furumoto S, Furukawa K, Ishiki A, Tomita N, et al. 18F-THK5351: A Novel PET Radiotracer for Imaging Neurofibrillary Pathology in Alzheimer Disease. <i>Journal of Nuclear Medicine</i> . 2016 Feb 1;57(2):208-14. doi:10.2967/jnumed.115.164848	<b>Retired.</b>  <b>Replaced with (C4279748, UMLS, "THK5351 F<sup>18</sup>^").</b>
<del>ddd001</del>	<del>RO6924963 ^11^C</del>	<del>A PET radiotracer used for tau brain imaging.</del>  <del>See Wong DF, Comley R, Kuwabara H, Rosenberg PB, Resnick SM, Ostrowitzki S, et al. First in-human PET study of 3 novel tau radiopharmaceuticals: [11C]RO6924963, [11C]RO6931643, and [18F]RO6958948. <i>J Nucl Med</i>. 2018 May 4; doi:10.2967/jnumed.118.209916. <a href="http://jnm.snmjournals.org/content/early/2018/05/03/jnumed.118.209916">http://jnm.snmjournals.org/content/early/2018/05/03/jnumed.118.209916</a></del>	
<del>ddd002</del>	<del>RO6931643 ^11^C</del>	<del>A PET radiotracer used for tau brain imaging.</del>  <del>See Wong DF, Comley R, Kuwabara H, Rosenberg PB, Resnick SM, Ostrowitzki S, et al. First in-human PET study of 3 novel tau radiopharmaceuticals: [11C]RO6924963, [11C]RO6931643, and [18F]RO6958948. <i>J Nucl Med</i>. 2018 May 4; doi:10.2967/jnumed.118.209916. <a href="http://jnm.snmjournals.org/content/early/2018/05/03/jnumed.118.209916">http://jnm.snmjournals.org/content/early/2018/05/03/jnumed.118.209916</a></del>	
<del>ddd003</del>	<del>RO6958948 ^18^F</del>	<del>A PET radiotracer used for tau brain imaging.</del>  <del>See Wong DF, Comley R, Kuwabara H, Rosenberg PB, Resnick SM, Ostrowitzki S, et al. First in-human PET study of 3 novel tau radiopharmaceuticals: [11C]RO6924963, [11C]RO6931643, and [18F]RO6958948. <i>J Nucl Med</i>. 2018 May 4; doi:10.2967/jnumed.118.209916. <a href="http://jnm.snmjournals.org/content/early/2018/05/03/jnumed.118.209916">http://jnm.snmjournals.org/content/early/2018/05/03/jnumed.118.209916</a></del>	