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| 1 | Status | Assigned |
| 2 | Date of Last Update | 2019/05/07 |
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| 7 | Submission Date | 2019/02/17 |

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| 8 | Correction Number CP-1894 | |
| 9 | Log Summary: Add translocator protein tracers | |
| 10 | Name of Standard | |
| 11 | PS3.16 | |
| 12 | Rationale for Correction: | |
| 13 | Increased expression of translocator protein (TSPO), formerly known as peripheral benzodiazepine (PK), is a feature of inflammation, | |
| 14 | and can be imaged with SPECT and PET tracers. | |
| 15 | Correction Wording: | |

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

CID 25 Radiopharmaceuticals

Version: ~~20190124~~yyymmdd

Table CID 25. Radiopharmaceuticals

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Trade name (Informative) |
|--------------------------|---------------|--|----------------------|------------------------|--------------------------|
| <u>DCM</u> | <u>ddd001</u> | <u>Iodinated I¹²⁵ DPA-713</u> | | | |

CID 4021 PET Radiopharmaceutical

Version: ~~20190124~~yyymmdd

Table CID 4021. PET Radiopharmaceutical

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Other Names |
|--------------------------|-----------------|----------------------|----------------------|------------------------|--|
| <u>DCM</u> | <u>ddd002</u> | <u>DPA-713 ^11^C</u> | | | |
| <u>DCM</u> | <u>ddd003</u> | <u>DPA-714 ^18^F</u> | | | |
| <u>UMLS</u> | <u>C1609883</u> | <u>PK11195 ^11^C</u> | | <u>C1609883</u> | <u>(11C)1-(2-chlorophenyl)-N-methyl-N-(1-methylpropyl)-3-isoquinolinecarboxamide</u> |

D DICOM Controlled Terminology Definitions (Normative)

Table D-1. DICOM Controlled Terminology Definitions (Coding Scheme Designator "DCM" Coding Scheme Version "01")

| Code Value | Code Meaning | Definition | Notes |
|---------------|--|--|-------|
| 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/ | |
| <u>ddd001</u> | <u>Iodinated I¹²⁵ DPA-713</u> | <u>An I125 translocator protein (TSPO) SPECT tracer.</u> <u>See Wang H, Pullambhatla M, Guilarte TR, Mease RC, Pomper MG. Synthesis of [¹²⁵I]IodoDPA-713, a New Probe for Imaging Inflammation. Biochem Biophys Res Commun. 2009 Nov 6;389(1):80–3. doi:10.1007/10.1016/j.bbrc.2009.08.102 http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2764231/</u> | |
| <u>ddd002</u> | <u>DPA-713 ^11^C</u> | <u>A C11 translocator protein (TSPO) PET tracer.</u> <u>See Endres CJ, Pomper MG, James M, Uzuner O, Hammoud DA, Watkins CC, et al. Initial Evaluation of 11C-DPA-713, a Novel TSPO PET Ligand, in Humans. J Nucl Med. 2009 Aug;50(8):1276–82. doi:10.2967/jnumed.109.062265 http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2883612/</u> | |

| Code Value | Code Meaning | Definition | Notes |
|---------------|----------------------|---|-------|
| <u>ddd003</u> | <u>DPA-714 ^18^F</u> | <u>An F18 translocator protein (TSPO) PET tracer.</u> <u>See Vicidomini C, Panico M, Greco A, Gargiulo S, Coda ARD, Zannetti A, et al. In vivo imaging and characterization of [18F]DPA-714, a potential new TSPO ligand, in mouse brain and peripheral tissues using small-animal PET. Nuclear Medicine and Biology. 2015 Mar 1;42(3):309–16. doi:10.1016/j.nucmedbio.2014.11.009</u> | |