Status	Final Text
Date of Last Update	2024/09/13
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Submission Date	2022/02/19

Correction Number CP-2226

Log Summary: Add Breast Segmentation Types Context Group

Name of Standard

PS3.6, PS3.16

Rationale for Correction:

When segmenting breast tissue on MR, it was realized that there is no concept in DICOM for breast fibroglandular tissue, nor a Context Group specific to breast segmentation. Add these.

Note that these concepts represent what the tissue is, not how much of the breast is composed of such tissue (such as might be used in mammography reports and CAD, where there is a concern about how much tissue is present and breast density).

Also, they are added as Anatomic Structure category (7192), not Tissue category (7191), since they are intended for use for macroscopic images, though they could probably be used for microscopic images as well; the name of the Context Group is intentionally non-specific in this respect.

Since we are adding the concept for "skin of breast", add it to the context group for Dermatology Anatomic Sites as well.

[Ed.Note: SNOMED CRS RequestID#960586 to add existing concepts used 68192009, 314375000, 58549005, 89749009, 279009002, 82038008, and RequestID#960587 to add new concept for breast fibroglandular tissue 1342375003]

Correction Wording:

Add new Context Group to DICOM PS3.16 as follows:

CID 7163 Breast Segmentation Types

Resources: **HTML | FHIR JSON | FHIR XML | IHE SVS XML**
Type: **Extensible**
Version: **20240913**
UID: **1.2.840.10008.6.1.1492**

Table CID 7163. Breast Segmentation Types

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-RT ID	UMLS Concept Unique ID
SCT	1342375003	Breast fibroglandular tissue		C3831270
SCT	279009002	Glandular structure of breast	T-D05A1	C0929301
SCT	89749009	Fatty tissue of breast	T-04430	C0222621
SCT	58549005	Interlobular mammary connective tissue	T-04500	C0222623
SCT	314375000	Connective tissue of breast	T-D0601	C0222623
SCT	68192009	Areolar tissue of breast	T-04211	C0222610
SCT	82038008	Skin of breast	T-02430	C0149538

Amend DICOM PS3.16 as follows:

CID 7192 Anatomical Structure Segmentation Property Types

Resources: **HTML | FHIR JSON | FHIR XML | IHE SVS XML**
Type: **Extensible**
Version: **~~20170914~~20240913**
UID: **1.2.840.10008.6.1.1191**

Table CID 7192. Anatomical Structure Segmentation Property Types

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-RT ID	UMLS Concept Unique ID
...				
Include CID 7163 "Breast Segmentation Types"				

CID 4029 Dermatology Anatomic Sites

Resources: **HTML | FHIR JSON | FHIR XML | IHE SVS XML**
Type: **Extensible**
Version: **~~20200310~~20240913**
UID: **1.2.840.10008.6.1.1268**

Table CID 4029. Dermatology Anatomic Sites

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-RT ID	UMLS Concept Unique ID	FMA ID	ICD-11	NYU Code L	NYU Code M	NYU Code R	Mayo Code L	Mayo Code M	Mayo Code R
...												
SCT	244106003	Skin of anterior surface of thorax	T-02425	C0448821							521	

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-RT ID	UMLS Concept Unique ID	FMA ID	ICD-11	NYU Code L	NYU Code M	NYU Code R	Mayo Code L	Mayo Code M	Mayo Code R
...												
SCT	181491009	Skin of anterior trunk	T-02408	C3698018							521a	
...												
SCT	72005009	Skin of areola	T-02432	C0222151	50050	XA2JK3	207		206	207		206
...												
SCT	699893008	Skin of back of upper thoracic region	R-FB4DA	C3697168	23024	XA10L7	225		224	225		224
SCT	**82038008**	**Skin of breast**	**T-02430**	**C0149538**								
SCT	22180002	Skin of buttock	T-02471	C0222165	45285	XA3VA7	231		230	231	527a	230
...												
SCT	54468004	Skin of nipple	T-02431	C0222150	12828	XA5MC5	205		204	205		204
...												

Add new Context Group UID to DICOM PS3.6 as follows:

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

Table A-3. Context Group UID Values

Context Group UID	Context Group Identifier	Context Group Name	Comment
1.2.840.10008.6.1.1492	CID 7163	CID 7163	