

DICOM Correction Proposal

STATUS	Assigned
Date of Last Update	2019/01/10
Person Assigned	Ulrich Busch (ulrich.busch@varian.com)
Submitter Name	Sven Siekmann sven.siekmann@brainlab.com Christof Schadt christof.schadt@brainlab.com
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Correction Number	cp1864
Log Summary:	Add Anatomic Region Sequence to RT Structure Set
Name of Standard	PS 3 2018b
Rationale for Correction:	<p>With the adaption of the RT Structure Set so that it can represent the code triple Segmented Property Category, Segmented Property Type and Segmented Property Type Modifier with the attributes Segmented Property Category, RT ROI Identification and Segmented Property Type Modifier, it is possible to transcode from one geometric representation to the other.</p> <p>As the Segmentation IOD in addition utilizes the Anatomic Region Sequence, it is proposed to extend the RT ROI Observation Module within the RT Structure Set IOD accordingly.</p>
Correction Wording:	

PS 3, Part 3,

C.8.8.8 RT ROI Observations Module

The RT ROI Observations module specifies the identification and interpretation of an ROI specified in the Structure Set Module and ROI Contour Module.

Table C.8-44. RT ROI Observations Module Attributes

Attribute Name	Tag	Type	Attribute Description
RT ROI Observations Sequence	(3006,0080)	1	Sequence of observations related to ROIs defined in the ROI Module. One or more Items shall be included in this Sequence.
>Observation Number	(3006,0082)	1	Identification number of the Observation. The value of Observation Number (3006,0082) shall be unique within the RT ROI Observations Sequence (3006,0080).
>Referenced ROI Number	(3006,0084)	1	Uniquely identifies the referenced ROI described in the Structure Set ROI Sequence (3006,0020).
>ROI Observation Label	(3006,0085)	3	User-defined label for ROI Observation.

Attribute Name	Tag	Type	Attribute Description
>ROI Observation Description	(3006,0088)	3	User-defined description for ROI Observation.
>RT Related ROI Sequence	(3006,0030)	3	Sequence of significantly related ROIs, e.g., CTVs contained within a PTV. One or more Items are permitted in this Sequence.
>>Referenced ROI Number	(3006,0084)	1	Uniquely identifies the related ROI described in the Structure Set ROI Sequence (3006,0020).
>>RT ROI Relationship	(3006,0033)	3	Relationship of referenced ROI with respect to referencing ROI. Defined Terms: SAME ROIs represent the same entity ENCLOSED referenced ROI completely encloses referencing ROI ENCLOSING referencing ROI completely encloses referenced ROI
<u>>Include Table 10-7b "Multiple Site General Anatomy Optional Macro Attributes"</u>			<u>May not be necessary if the anatomy is implicit in the RT ROI Identification Code Sequence (3006,0086).</u> <u>More than one item in Anatomic Region Sequence (0008,2218) may be used when a region of interest spans multiple anatomical locations and there is not a single pre-coordinated code describing the combination of locations. There is no requirement that the multiple locations be contiguous.</u>
>Segmented Property Category Code Sequence	(0062,0003)	3	Sequence defining the general category of the property this ROI represents. Only a single Item is permitted in this Sequence. See Note 1.
<u>>>Include Table 8.8-1 "Code Sequence Macro Attributes"</u>			<i>No Baseline CID is defined.</i>
>RT ROI Identification Code Sequence	(3006,0086)	3	Sequence containing Code used to identify ROI. Only a single Item is permitted in this Sequence. See Note 2.
<u>>>Include Table 8.8-1 "Code Sequence Macro Attributes"</u>			<i>For dose measurement devices Baseline CID 7026 "Radiotherapeutic Dose Measurement Devices".</i> <i>No Baseline CID is defined otherwise.</i>
>>Segmented Property Type Modifier Code Sequence	(0062,0011)	3	Sequence defining the modifier of the property type of this segment. One or more Items are permitted in this Sequence.
<u>>>>Include Table 8.8-1 "Code Sequence Macro Attributes"</u>			<i>Defined CID 244 "Laterality".</i>