

DICOM Correction Item

Correction Number CP 806	
Log Summary: RT ROI Derivation Sequence	
Type of Modification Modification	Name of Standard PS 3 2007
Rationale for Correction: During spatial registration, a region of interest (ROI) in an RT Structure Set can be created by re-sampling an existing ROI that is either (a) in an RT Structure Set in another frame of reference (FoR) that has been spatially registered, or (b) in the same FoR, but exists on a series with a different slice spacing. It is useful to recognize the origin of such resampled ROIs as being derived from a set of ROI contours drawn on a different image dataset from the one referenced by the current structure set.	
Sections of documents affected: PS 3.3	
Correction Wording:	

In Section C.8.8.5 Structure Set Module, Table C.8-41 Structure Set Module Attributes, add the following attribute immediately following the attribute ROI Generation Description (3006,0038):

>ROI Generation Description	(3006,0038)	3	User-defined description of technique used to generate ROI.
>Derivation Code Sequence	(0008,9215)	3	A coded description of how this ROI was derived. One or more items may be included in this Sequence. See C.8.8.5.3 for further explanation.
>>Include 'Code Sequence Macro' Table 8.8-1			<u>Enumerated Value (113085, DCM, "Spatial resampling").</u>

In Section C.8.8.5, add the following section immediately after paragraph C.8.8.5.2

C.8.8.5.3 ROI Derivation Sequence

If an ROI is created by re-sampling an existing ROI that is either (a) present in a different Frame of Reference (FoR) and has been resampled to align with the image series referenced by the current structure set, or (b) present in the same FoR, but its contours are referenced to a different image series, it is useful to be able to identify that the ROI is resampled. The Derivation Code Sequence (0008,9215) shall be used with code (113085, DCM, "Spatial resampling") to indicate the resampled ROI.