DICOM Correction Proposal

STATUS	Letter Ballot
Date of Last Update	2025/03/30
Person Assigned	Christof Schadt
Submitter Name	Christof Schadt christof.schadt@brainlab.com
Submission Date	2024/06/14

Correction Number	CP-2445
Log Summary: Relaxing Type 1 RT Structure Set requirements	
Name of Standard PS3.3	
Rationale for Correction: Multiple RT systems already use the RT Structure Set IOD as a pure "inventory" container without defining any ROIs to address the clinical need to transport information in post-acquisition/pre-planning workflows. Prior attempts to address this issue by introducing new Concept Codes to be used in the Key Object Selection IOD (CP NNN) or the retired Supplement 238 "Assertion Collection" were either never implemented or did not even reach a final state. Therefore, this CP is addressing this non-conformity by changing existing type 1 attributes to type 3 attributes and thus making use of the Standard safer.	
Correction Wording:	

In PS3.3, section A.19.1

A.19.1 RT Structure Set IOD Description

The focus for this RT Structure Set IOD is to **primarily** address the requirements for transfer of ~~Patient~~ structures and related data defined on ~~CT~~ **image** scanners, virtual simulation workstations, treatment planning systems and similar devices.

When used without structures, the RT Structure Set can be used to transfer references to Image Series, Registration, Deformable Registration, Spatial Fiducial, Segmentation, or any other Instances that may contribute to the creation of structures.

In PS3.3, section C.8.8.5 Structure Set Module, perform the following modifications.

Table C.8-41. Structure Set Module Attributes

Attribute Name	Tag	Type	Attribute Description
Structure Set Label	(3006,0002)	1	User-defined label for Structure Set.
...			
Structure Set ROI Sequence	(3006,0020)	~~1~~**3**	ROIs for current Structure Set. One or more Items ~~shall be included~~ **are permitted** in this Sequence.

Attribute Name	Tag	Type	Attribute Description
>ROI Number	(3006,0022)	1	Identification number of the ROI. The value of ROI Number (3006,0022) shall be unique within the Structure Set in which it is created.
...			

Table C.8-42. ROI Contour Module Attributes

Attribute Name	Tag	Type	Attribute Description
ROI Contour Sequence	(3006,0039)	~~1~~**3**	Sequence of Contour Sequences defining ROIs. One or more Items ~~shall be included~~ **are permitted** in this Sequence.
...			

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

Attribute Name	Tag	Type	Attribute Description
RT ROI Observation Sequence	(3006,0039)	~~1~~**3**	Sequence of observations related to ROIs defined in the Structure Set ROI Sequence (3006,0020) of the Structure Set Module. One or more Items ~~shall be included~~ **are permitted** in this Sequence.
...			