

## DICOM Correction Item

Correction Number CP-435	
Log Summary: Dose Reference UID in RT Plan	
Type of Modification	Name of Standard
Omission	PS 3 2003
<p>Rationale for Correction:</p> <p>For a Record and Verify system or linear accelerators that accumulates dose at Dose References, there is a need to have continuity of accumulated dose with updates to the treatment plan. The DICOM Standard allows several ways to specify a Dose Reference and it would be possible for the R&amp;V/linac system to implement some checks to see if a Dose Reference received in an update matches a Dose Reference previously received in an earlier RT Plan - for example, comparison of Dose Reference Description (300A,0016), check of coordinates etc. However, in the case of a re-plan based on a new CT dataset the coordinates may change significantly, and relying on the user not to change text labels (description) is risky. It is not the responsibility of the R&amp;V/linac system to guess whether Dose References are equivalent. There should be a way for the TPS to assert that a Dose Reference is the same entity in two or more plans. Using a UID is the standard way to do this. Therefore Dose Reference Sequence Items (300A, 0010) should contain a type 3 element for a Dose Reference.</p>	
<p>Sections of documents affected</p> <p>PS 3.3, C.8.8.10 (RT Prescription Module); PS 3.6, Section 6 (Registry of DICOM Data Elements)</p>	
Correction Wording:	

*In PS 3.3, Section C.8.8.10, add the following elements to Table C.8-42 (RT Prescription Module Attributes) within the Dose Reference Sequence (300A, 0010), immediately preceding the Dose Reference Structure Type (300A, 0014) attribute:*

Attribute Name	Tag	Type	Attribute Description
<b>&gt;Dose Reference UID</b>	<b>(300A,0013)</b>	<b>3</b>	<b>A unique identifier for a Dose Reference that can be used to link the same entity across multiple RT Plan objects.</b>

*In PS 3.6, Section 6, add the following new attributes:*

Tag	Name	VR	VM
<b>(300A,0013)</b>	<b><u>Dose Reference UID</u></b>	<b><u>UI</u></b>	<b><u>1</u></b>