DICOM Correction Item

Correction Number   CP-549

Log Summary: Additions to RT ROI Interpreted Type

Type of Modification	Name of Standard
Omission	PS 3 2004

Rationale for Correction:
Structure Sets may contain structures that are outside the body and not directly related for treatment, in particular: • "support" devices, such as the scanner couch, that need to be removed or replaced during the dose calculation. • "fixation" devices such as head frames, that may be contoured. In addition, some ROIs (especially points) may be specified in RT Structure Set objects as ROIs at which dose is to be calculated of measured. These ROIs do not necessarily correspond to anatomical structures. This Change Proposal adds defined terms to support these additional ROI types.

Sections of documents affected
PS 3.3, C.8.8.8 (RT ROI Observations Module)

Correction Wording:

In PS 3.3, Section C.8.8.8 (RT ROI Observations Module), Table C.8-44, add the following text (indicated in bold):

Attribute Name	Tag	Type	Attribute Description
>RT ROI Interpreted Type	(3006,00A4)	2	Type of ROI. See C.8.8.8.1. Defined Terms: EXTERNAL = external patient contour PTV = Planning Target Volume (as defined in ICRU50) CTV = Clinical Target Volume (as defined in ICRU50) GTV = Gross Tumor Volume (as defined in ICRU50) TREATED_VOLUME = Treated Volume (as defined in ICRU50) IRRAD_VOLUME = Irradiated Volume (as defined in ICRU50) BOLUS = patient bolus to be used for external beam therapy AVOIDANCE = region in which dose is to be minimized ORGAN = patient organ MARKER = patient marker **or marker on a localizer** REGISTRATION = registration ROI ISOCENTER = treatment isocenter to be used for external beam therapy CONTRAST_AGENT = volume into which a contrast

			agent has been injected
			CAVITY = patient anatomical cavity
			BRACHY_CHANNEL = brachytherapy channel
			BRACHY_ACCESSORY = brachytherapy accessory device
			BRACHY_SRC_APP = brachytherapy source applicator
			BRACHY_CHNL_SHLD = brachytherapy channel shield **SUPPORT = external patient support device** **FIXATION = external patient fixation or immobilisation device** **DOSE REGION = ROI to be used as a dose reference** **CONTROL = ROI to be used in control of dose optimization and calculation**