

DICOM Correction Item

Correction Number CP-618	
Log Summary: RT Stopping Power Ratios	
Type of Modification Addition	Name of Standard PS 3.3 - 2006
Rationale for Correction: A new defined term is needed to account for regions that do not fall into the standard CT number to proton stopping power conversion range. Also, the definition of the of EFF_Z_PER_A is clarified.	
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 defined terms to the ROI Physical Property (3006,00B2) attribute:

Attribute Name	Tag	Type	Attribute Description
RT ROI Observations Sequence	(3006,0080)	1	Introduces sequence of observations related to ROIs defined in the ROI Module. One or more items may be included in this sequence.
...			
>ROI Physical Properties Sequence	(3006,00B0)	3	Introduces sequence describing physical properties associated with current ROI interpretation. One or more items may be included in this sequence.
...			
>>ROI Physical Property	(3006,00B2)	1C	Physical property specified by ROI Physical Property Value (3006,00B4). Required if ROI Physical Properties Sequence (3006,00B0) is sent. Defined Terms: REL_MASS_DENSITY = mass density relative to water REL_ELEC_DENSITY = electron density relative to water EFFECTIVE_Z = effective atomic number EFF_Z_PER_A = effective ratio of ratio of effective atomic number to mass (AMU ⁻¹) <u>REL_STOP_RATIO = linear stopping power ratio relative to water</u>