

## DICOM Change Item

<b>Change Proposal Number: CP-226</b>	
<b>Submission Abstract:</b> Enhance C.4-16 Radiation Dose Module Attributes to meet Japanese X-ray Radiation Dose Record Requirements.	
	<b>Type of Change Proposal:</b> Addition
<b>Name of Document:</b> Part 3: Information Object Definitions and Part 6: Data Dictionary	<b>Version Number:</b> PS 3.3-2000 and PS 3.6-2000
<b>Rationale for change:</b> JIRA and JAHIS (Japanese Association of Healthcare Information System Industry) have formed a joint committee to utilize the Modality Worklist and Modality Performed Procedure Step SOP Classes. In the discussions we realized that the Radiation Dose Module Attributes are not sufficient to electronically record the radiation exposures to patients in Japan. We would like to enhance the Radiation Dose Module as follows.	

**Sections of document affected/ Suggest Wording of Change:**

**Add following attributes to PS 3.3 Table C.4-16 Radiation Dose Module Attributes:**

Attribute Name	Tag	Attribute Description
Exposure Dose Sequence	(0040,030E)	Exposure Dose Sequence will contain Total Number of Exposures (0040, 0301) items plus an item for each fluoroscopy episode not already counted as an exposure.
>Radiation Mode	(0018,115A)	Specifies X-Ray radiation mode. Enumerated Values: CONTINUOUS PULSED
>KVp	(0018,0060)	Peak kilo voltage output of the x-ray generator used. An average in the case of fluoroscopy (continuous radiation mode).
>X-ray Tube Current in $\mu$ A	(0018,8151)	X-ray Tube Current in $\mu$ A. An average in the case of fluoroscopy (continuous radiation mode).
>Exposure Time	(0018,1150)	Time of x-ray exposure or fluoroscopy in msec.
>Filter Type	(0018,1160)	Type of filter(s) inserted into the X-Ray beam (e.g. wedges). See C.7.10 for Defined Terms.
>Filter Material	(0018,7050)	The X-Ray absorbing material used in the filter. May be multi-valued. See C.7.10 for Defined Terms.

No changes to PS 3.4 are necessary since the attributes of the Radiation Dose Module are include as “all other attributes” rather than being listed individually in the MPPS SOP Class definition.

**Add following data elements to PS 3.6 Section 6:**

Tag	Name	VR	VM
(0040,030E)	Exposure Dose Sequence	SQ	1