

DICOM Correction Item

Correction Number		CP-447
Log Summary: MR Enhanced Contrast/Bolus Module		
Type of Modification	Name of Standard	
Clarification	PS 3.3 2003	
<p>Rationale for Correction</p> <p>Supplement 58 for Enhanced CT uses a new Enhanced Contrast/Bolus Module that allows for more precise coding of contrast agents, unambiguous definition of whether contrast was or was not applied, separation of contrast agents into various routes, as well as the ability to indicate whether or not contrast was used on a per-frame basis or not. It is expected that this new Module will also be used in the new XA objects.</p> <p>This proposal replaces the old Contrast/Bolus Module in the Enhanced MR objects with the same mechanism as is used in Enhanced CT, and adds the Contrast/Bolus Usage Functional Groups Macro.</p> <p>It is proposed to add this as a Conditional Module, since there are as yet no implementations.</p>		
Sections of documents affected		
PS 3.3 A.1, A.36		
Correction Wording:		

Replace Contrast/Bolus module with Enhanced Contrast/Bolus Module in PS 3.3 A.36.2 and A.36.3, and update table A.1-1 accordingly:

A.36.2.3 Enhanced MR Image IOD Module Table

**Table A.36-1
ENHANCED MR IMAGE IOD MODULES**

IE	Module	Reference	Usage
...
Image	Image Pixel	C.7.6.3	M
	Contrast/Bolus	C.7.6.4	C - Required if contrast media were applied.
	<u>Enhanced Contrast/Bolus</u>	<u>C.7.6.4b</u>	<u>C - Required if contrast media were applied.</u>
	Multi-frame Functional Groups	C.7.6.16	M
...

...

A.36.2.4 Enhanced MR Image Functional Group Macros

...

**Table A.36-2
ENHANCED MR IMAGE FUNCTIONAL GROUP MACROS**

Functional Group Macro	Section	Usage
...
Real World Value Mapping	C.7.6.16.2.11	U
<u>Contrast/Bolus Usage</u>	<u>C.7.6.16.2.12</u>	<u>C – Required if Contrast/Bolus Agent Sequence (0018,0012) is used. May not be used as a Shared Functional Group</u>
MR Image Frame Type	C.8.13.5.1	M
...

...

A.36.3.3 MR Spectroscopy IOD Module Table

**Table A.36-3
MR SPECTROSCOPY IOD MODULES**

IE	Module	Reference	Usage
...
MR Spectroscopy	<u>Contrast/Bolus</u>	<u>C.7.6.4</u>	<u>C – Required if contrast media were applied.</u>
	<u>Enhanced Contrast/Bolus</u>	<u>C.7.6.4b</u>	<u>C – Required if contrast media were applied.</u>
	Multi-frame Functional Groups	C.7.6.16	M

A.36.3.4 MR Spectroscopy Functional Group Macros

...

**Table A.36-4
MR SPECTROSCOPY FUNCTIONAL GROUP MACROS**

Functional Group Macro	Section	Usage
...
Frame Anatomy	C.7.6.16.2.8	M
<u>Contrast/Bolus Usage</u>	<u>C.7.6.16.2.12</u>	<u>C – Required if Contrast/Bolus Agent Sequence (0018,0012) is used. May not be used as a Shared Functional Group</u>

MR Spectroscopy Frame Type	C.8.14.5.1	M
...