

## DICOM Correction Item

Correction Number		CP-518
Log Summary: Identifying CT and MR acquisitions by raw data references		
Type of Modification	Name of Standard	
Correction	PS 3.3 2004	
Rationale for Correction		
<p>The same raw data may be used to create several reconstructions, and it may be desirable to indicate that the images from the different reconstructions came from the same raw data. Since the descriptive acquisition parameters are not necessarily unique, the reference to the UID of the raw data can serve this purpose. Clarify that even though the raw data may never actually be separately stored or encoded in DICOM, it can be assigned a UID that may be referenced.</p>		
Sections of documents affected		
PS 3.3 C.8.13.2, C.8.15.2		
Correction Wording:		

### C.8.13.2 MR Image and Spectroscopy Instance Macro

Table C.8-81 specifies the common attributes Enhanced MR Image Module and MR Spectroscopy Module.

**Table C.8-81  
 MR IMAGE AND SPECTROSCOPY INSTANCE MACRO**

Attribute Name	Tag	Type	Attribute Description
Acquisition Number	(0020,0012)	3	<p>A number identifying the single continuous gathering of data over a period of time that resulted in this image.</p> <p><b>Note:</b> <u>This number is not required to be unique across SOP Instances in a series. See also the description of the Referenced Raw Data Sequence (0008,9121).</u></p>
Acquisition Datetime	(0008,002A)	1C	<p>The date and time that the acquisition of data started.</p> <p>Note: The synchronization of this time with an external clock is specified in the synchronization Module in Acquisition Time synchronized (0018,1800).</p> <p>Required if Image Type (0008,0008) Value 1 is ORIGINAL or MIXED. May be present otherwise.</p>
Acquisition Duration	(0018,9073)	1C	<p>The time in seconds needed to run the prescribed pulse sequence. See C.7.6.16.2.2.1 for further explanation.</p> <p>Required if Image Type (0008,0008)</p>

			Value 1 is ORIGINAL or MIXED. May be present otherwise.
Referenced Raw Data Sequence	(0008,9121)	3	A sequence that identifies the set of Raw Data SOP Class/Instance pairs of the Raw data which were used to derive this Image. One or more Items may be included in this Sequence. <b>Note:</b> <u>The items of in this sequence may identify raw data that has not been stored or encoded as a DICOM object. This allows recognition that images and spectra in different instances have been reconstructed from the same raw data.</u>
>Include 'SOP Instance Reference Macro' Table C.17-3			

### C.8.15.2 Enhanced CT Image Module

This section describes the Enhanced CT Image Module. Table C.8-114 specifies the attributes of the Enhanced CT Image Module.

**Table C.8-114**  
**ENHANCED CT IMAGE MODULE ATTRIBUTES**

Attribute Name	Tag	Type	Attribute Description
Image Type	(0008,0008)	1	Image characteristics. See sections C.8.16.1 and C.8.15.2.1.1.
<i>Include Common CT/MR Image Description Macro' Table C.8.16-5</i>			
Acquisition Number	(0020,0012)	3	A number identifying the single continuous gathering of data over a period of time that resulted in this image. <b>Note:</b> <u>This number is not required to be unique across SOP Instances in a series. See also the description of the Referenced Raw Data Sequence (0008,9121).</u>
Acquisition Datetime	(0008,002A)	1C	The date and time that the acquisition of data started. Notes: 1. The synchronization of this time with an external clock is specified in the synchronization Module in Acquisition Time synchronized (0018,1800) . 2. See C.7.6.16.2.2.1 for an overview of all acquisition related timing attributes.  Required if Image Type (0008,0008) Value 1 of this frame is ORIGINAL or MIXED, may be present otherwise.

Acquisition Duration	(0018,9073)	2C	<p>The time in seconds needed to complete the acquisition of data. See C.7.6.16.2.2.1 for further explanation.</p> <p>Required if Image Type (0008,0008) Value 1 of this frame is ORIGINAL or MIXED, may be present otherwise.</p>
Referenced Raw Data Sequence	(0008,9121)	3	<p>A sequence that identifies the set of Raw Data SOP Class/Instance pairs of the Raw data that were used to derive this Image.</p> <p>One or more Items may be included in this Sequence.</p> <p><b>Note:</b> <u>The items of in this sequence may identify raw data that has not been stored or encoded as a DICOM object. This allows recognition that images in different instances have been reconstructed from the same raw data.</u></p>
>Include 'SOP Instance Reference Macro' Table C.17-3			
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