DICOM Correction Item

<table>
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<tr>
<th>STATUS</th>
<th>Final Text</th>
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<tbody>
<tr>
<td>Date of Last Update</td>
<td>2012/01/24</td>
</tr>
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<td>Person Assigned</td>
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| Submission Date         | 2011/05/31 |

Correction Number CP-1169

Log Summary: Breast Tomosynthesis is missing X-Ray Receptor Type so condition on Field of View Origin is incomplete

Name of Standard PS 3.3 2011

Rationale for Correction:
Supplement 125 Breast Tomosynthesis re-factored the Field of View Shape and X-Ray Receptor Type out of the X-Ray 3D General Shared Acquisition Macro, and added them instead to the X-Ray 3D Angiographic Acquisition Module and X-Ray 3D Craniofacial Acquisition Module specific acquisition modules, but then did not include X-Ray Receptor Type in the Breast Tomosynthesis Acquisition Module.

X-Ray Receptor Type needs to be present, for consistency, and because there is another attribute that is conditional upon it (Field of View Origin in X-Ray 3D General Shared Acquisition Macro).

Correction Wording:

Modify PS3.3 Annex C Section C.8.21.3.4

C.8.21.3.4 Breast Tomosynthesis Acquisition Module
This section describes the Breast Tomosynthesis Acquisition Module.

Table C.8.21.3.4-1
BREAST TOMOSYNTHESIS ACQUISITION MODULE ATTRIBUTES

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Tag</th>
<th>Type</th>
<th>Attribute Description</th>
</tr>
</thead>
</table>
| X-Ray 3D Acquisition Sequence   | (0018, 9507) | 1    | Each Item represents an acquisition context related to one or more reconstructions.  
The values of the Acquisition Index (0020,9518) attribute may be used as index in this sequence.  
One or more Items shall be present. |
| >Field of View Shape            | (0018,1147) | 1    | Shape of the Field of View in the source projection images.  
Enumerated Values:  
RECTANGLE |
**X-Ray Receptor Type**  
(0018,9420)  
1  
Identifies the type of X-Ray receptor used.  
**Enumerated Values:**  
- DIGITAL_DETECTOR

Include ‘X-Ray 3D General Shared Acquisition Macro’ Table C.8.21.3.1.1-1

Include ‘X-Ray 3D General Positioner Movement Macro’ Table C.8.21.3.1.3-1

**Distance Source to Detector**  
(0018,1110)  
1  
Distance in mm from source to detector center on the chest wall line.  
Notes:  
1. This value is traditionally referred to as Source Image Distance (SID).  
2. See C.8.11.7.1.1.

Unchanged, for reference, PS3.3 Annex C Section C.8.21.3.1.1, which contains the condition in question:

### C.8.21.3.1.1 X-Ray 3D General Shared Acquisition Macro

Table C.8.21.3.1.1-1  
X-RAY 3D GENERAL SHARED ACQUISITION MACRO

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Tag</th>
<th>Type</th>
<th>Attribute Description</th>
</tr>
</thead>
</table>
| Field of View Origin        | (0018,7030)  | 1C   | Offset of the TLHC of a rectangle circumscribing the Field of View in the referenced images, before rotation or flipping, from the TLHC of the physical detector area measured in physical detector pixels as a row offset followed by a column offset.  
See C.8.11.4.1.1 for further explanation.  
Required if X-Ray Receptor Type (0018,9420) is present and equals DIGITAL_DETECTOR. |
| ...                         | ...          | ...  | ...                                                                                                                                                 |