

### DICOM Correction Item

Correction Number CP-787	
Log Summary: Add Procedure Phase to Arterial Analysis	
Type of Modification Modification	Name of Standard PS 3.16
Rationale for Correction: The SR Templates for Quantitative Arterial Analysis do not have a means of specifying whether the segment was analyzed prior to or after intervention. The invoked Template 3520 for Hemodynamic Clinical Context does not include that item, as is it specified at a higher level in the Hemodynamic SR.	
Sections of documents affected PS 3.16 Annex A	
Correction Wording:	

**TID 3214  
ANALYZED SEGMENT  
Type: Extensible**

NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1		CONTAINER	EV (121070, DCM, "Findings")	1	M		
2	>	HAS CONCEPT MOD	EV (G-C0E3, SRT, "Finding Site")	1	M		DCID (3604) Arterial lesion locations
3	>	CONTAINS	IMAGE EV (121112, DCM, "Source of Measurements")	1	M		
4	>	CONTAINS	INCLUDE DTID (3205) Calibration	1	M		
5	>	HAS ACQ CONTEXT	INCLUDE DTID (3520) Hemodynamic Clinical Context	1	U		
<del>6</del>	<del>&gt;</del>	<del>HAS ACQ CONTEXT</del>	<del>CODE</del> <del>EV (G-72BB, SRT, "Catheterization Procedure Phase")</del>	<del>1</del>	<del>U</del>		<del>DCID (3651) Hemodynamic Measurement phase</del>
<del>7</del>	<del>&gt;</del>	<del>CONTAINS</del>	<del>SCOORD</del> EV (122507, DCM, "Left Contour")	<del>1</del>	<del>M</del>		GRAPHIC TYPE = POLYLINE
<del>8</del>	<del>&gt;&gt;</del>	<del>R-SELECTED FROM</del>	<del>IMAGE</del>	<del>1</del>	<del>M</del>		Must reference Row 3
<del>9</del>	<del>&gt;</del>	<del>CONTAINS</del>	<del>SCOORD</del> EV (122508, DCM, "Right Contour")	<del>1</del>	<del>M</del>		GRAPHIC TYPE = POLYLINE
<del>10</del>	<del>&gt;&gt;</del>	<del>R-SELECTED FROM</del>	<del>IMAGE</del>	<del>1</del>	<del>M</del>		Must reference Row 3
<del>11</del>	<del>&gt;</del>	<del>CONTAINS</del>	<del>INCLUDE</del> DTID (3219) Segment Values	<del>1</del>	<del>M</del>		
<del>12</del>	<del>&gt;</del>	<del>CONTAINS</del>	<del>INCLUDE</del> DTID (300) Measurement	<del>1</del>	<del>M</del>		\$Measurement = EV (G-0364, SRT, "Vessel Luminal Diameter") \$Derivation = (R-404FB, SRT, "Minimum") \$Unit = DT (mm, UCUM, "mm")

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
<u>13</u> <u>42</u>	>	CONTAINS	INCLUDE	DTID (300) Measurement	1	M		\$Measurement = EV (G-0364, SRT, "Vessel Luminal Diameter") \$Derivation =(G-A437, SRT, "Maximum") \$Unit = DT (mm, UCUM, "mm")
<u>14</u> <u>43</u>	>	CONTAINS	CONTAINER	EV (122509, DCM, "Diameter Graph")	1	U		
<u>15</u> <u>44</u>	>>	CONTAINS	NUM	EV (122511, DCM, "Graph Increment")	1	M		Value = 1 Units = DT ({pixels}, UCUM, "pixels")
<u>16</u> <u>45</u>	>>	CONTAINS	INCLUDE	DTID (300) Measurement	1-n	M		\$Measurement = EV (G-0364, SRT, "Vessel Luminal Diameter") \$Unit = DT (mm, UCUM, "mm")
<u>17</u> <u>46</u>	>	CONTAINS	NUM	EV (122382, DCM, "Site of Luminal Minimum ")	1	U		Units = DT ({pixels}, UCUM, "pixels")
<u>18</u> <u>47</u>	>	CONTAINS	NUM	EV (122516, DCM, "Site of Luminal Maximum")	1	U		Units = DT ({pixels}, UCUM, "pixels")
<u>19</u> <u>48</u>	>	CONTAINS	INCLUDE	DTID (3215) Angiographic Lesion Analysis	1-n	U		
<u>20</u> <u>49</u>	>	CONTAINS	INCLUDE	DTID (3217) Sub-Segmental Data	1-n	U		
<u>21</u> <u>20</u>	>	CONTAINS	IMAGE	No purpose of reference	1	U		

### Content Item Descriptions

Row 1	Observation DateTime (0040,A032) of container needs to be flagged with the time of the analysis
Row 6	Numeric coordinates (x,y) identifying the contour points from proximal to distal of left contour. Left is relative to the direction of the blood flow.
Row <u>98</u>	Numeric coordinates (x,y) identifying the contour points from proximal to distal of right contour. Right is relative to the direction of the blood flow.
Row <u>44,12,13</u>	Positions are relative to the midpoint between the first left and right contour points and measured along the midline between the left and right contour.
Row <u>1413</u>	The X-axis represents the pixel points of the midline of the vessel from proximal to distal. The points on the midline are not necessarily equidistant.
Row <u>1645</u>	For each point of the midline of the vessel a measurement value for the diameter is calculated.
Row <u>46,17,18</u>	The positions in the graph are related to the points on the midline of the vessel.
Row <u>2120</u>	Secondary Capture image with Arterial Analysis contour.