

DICOM Correction Proposal

STATUS	Final Text
Date of Last Update	2020/01/17
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Submission Date	2019/02/01

Correction Number	CP-1937
Log Summary: Extend semantic of TID 11003 to be more flexible to the needs and correct node numbering in example	
Name of Standard PS3.16, PS3.17 2019e	
<p>Rationale for Correction:</p> <p>Within part 16, TID11008, Row 5 it may become possible that one has to describe a manual administered administration of agents e.g. Oral Administration.</p> <p>Although the Req. Type is MC and the Condition is IF TID 11007 Row 4 = (130173, DCM, "Automated Administration"), which leads to not include TID 11003, one would have to include TID 11003 for the reason of describing the used contrast agent. By this one is forced to code also the "Starting Flow Rate of Administration" in Row 4 of TID 11003, which makes no sense for manual actions.</p> <p>Main problems is:</p> <p>One does not originally have a true "Starting Flow Rate of Administration", if one does it manually. This value has to be calculated artificially and may not correspond to reality.</p> <p>Suggested Solution:</p> <p>Change TID 11003 Row 4, Req. Type from M to MC and add the same condition as in Row 9, so Starting Flow Rate is not needed to be included for manual Administration:</p> <p style="padding-left: 40px;">IF TID 11007 Row 4 =(130173, DCM, "Automated Administration") AND IFF root Concept Name Code Sequence = (130227, DCM, "Performed Imaging Agent Administration")</p> <p>Within PS3.17, Example MMMM.1, content tree structure table: node 1.13.7 has to be a child of 1.13.6 and therefore has to be assigned the number 1.13.6.1 (see part16 TID 10024 Row 10, which is indented by two chevrons with respect to one chevron of Row 9). In the following Nodes of Layer 1.13.x with x>7 has to be renumbered.</p> <p>PS3.17, MMMM.1, simplify Example by using the new feature of TID11008 (Starting Flow Rate of administration).</p>	

Correction Wording:

PS3.16, TID11003:

- Change Req. Type of Row 4 of TID 11003 to MC
- Add the following Condition to Row 4 of TID 11003:
IF TID 11007 Row 4 =(130173, DCM, "Automated Administration")
AND
IFF root Concept Name Code Sequence = (130227, DCM, "Performed Imaging Agent Administration")

PS3.17, Example MMMM.1:

- Change node number 1.13.7 to 1.13.6.1
- Change node number 1.13.8 to 1.13.7
- Change node number 1.13.9 to 1.13.8
- Change node number 1.13.9.1 to 1.13.8.1
- Change node number 1.13.9.2 to 1.13.8.2

PS3.17, Example MMMM.1:

- Remove line of Node 1.21.3.8.3.3
- Renumber Node 1.21.3.8.3.4 to 1.21.3.8.3.3
- Renumber Node 1.21.3.8.3.5 to 1.21.3.8.3.4

Amend DICOM PS3.16 TID11003 as follows

(since the original document text contains bold face typing, changes to existing text are bold, size 9 and underlined for additions and ~~struckthrough~~ for removals):

TID 11003 Imaging Agent Administration Syringe/Pump Phase Activity

This template describes a single Syringe/Pump activity as part of the single imaging administration phase. A phase activity is the lowest level of the Imaging Agent delivery model.

Type: Extensible
Order: Non-Significant
Root: No

Table TID 11003. Imaging Agent Administration Syringe/Pump Phase Activity

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
4	>	CONTAINS	NUM	EV (130208, DCM, "Starting Flow Rate of Administration")	1	MC	<u>IF TID 11007 Row 4 = (130173, DCM, "Automated Administration") AND IFF root Concept Name Code Sequence = (130227, DCM, "Performed Imaging Agent Administration")</u>	UNITS = EV (ml/s, UCUM "ml/s")

Amend DICOM PS3.17 as follows

(changes to existing text are bold and underlined for additions and ~~struckthrough~~ for removals):

Node	Code Meaning of Concept Name	Code Meaning or Example Value	Reference to TID/ CID/ Comments
1.13.6	Body Mass Index	21.23	TID 10024 UNITS=EV (kg/m2, UCUM, "kg/m2")
1.13.76.1	Equation	(122265, DCM, "BMI=Wt/Ht^2")	TID 10024
1.13.87	Serum Creatinine	2.7	TID 10024 UNITS=DT (mg/dl, UCUM, "mg/dl")
1.13.98	Glomerular Filtration Rate	38	TID 10024 UNITS=DT (ml/min{1.73_m2}, UCUM, "ml/min/1.73m2")
1.13.98.1	Measurement Method	(113570, DCM, "Cockroft-Gault Formula estimation of GFR")	TID 10024 CID 10047
1.13.98.2	Equivalent meaning of concept name	(LN,33914-3, "Glomerular Filtration Rate (MDRD) ")	TID 10024 CID 10046
1.14	Imaging Agent Information		TID 11002
...			
1.21.3.8.3.2	Volume Administered	1000	TID 11003 UNITS = EV (ml, UCUM, "ml") Same value as 1.21.3.8.4
1.21.3.8.3.3	Starting Flow Rate of administration	0.37	TID 11003 UNITS = EV (ml/s, UCUM "ml/s") Calculated value: 1000ml /2700s
1.21.3.8.3.34	DateTime Started	20181012101531	TID 11003 Since root Concept Name is "Performed Imaging Agent Administration"
1.21.3.8.3.45	Duration	2700	TID 11003 UNITS = EV (s, UCUM, "s") Since root Concept Name is "Performed Imaging Agent Administration"
1.21.3.8.4	Total Phase Volume	1000	TID 11008

Node	Code Meaning of Concept Name	Code Meaning or Example Value	Reference to TID/ CID/ Comments
	Administered		UNITS = EV (ml, UCUM, "ml") Same value as 1.21.3.8.3.2