

DICOM Correction Proposal

STATUS	Final Text
Date of Last Update	2020/01/17
Person Assigned	
Submitter Name	Uwe Tronnier, Sridhar Balasubramanian
Submission Date	2019/02/01

Correction Number	CP-1941
Log Summary: Change name of TID 11003 for better comprehensibility in context with changes of CP-1937 in the cases of non-automated administration	
Name of Standard	PS3.16, PS3.17 2019e
Rationale for Correction: Rename TID 11003 "Imaging Agent Administration Syringe/Pump Phase Activity" to "Imaging Agent Administration Activity", in order to better represent what is happening in cases of manual Administration. This applies to several changes in wording of other TIDs described below. Especially in changes of descriptive texts applying to "Syringe/Pump" to: "single unit of container used for delivery".	

Correction Wording:

PS 3.16:

- Figure A-19: Change Text of TID11003 to “Imaging Agent Administration Activity”
- Figure A-20: Change Text of TID11003 to “Imaging Agent Administration Activity”

PS 3.16, TID11003:

- Change Line of “TID 11003 Imaging Agent Administration Syringe/Pump Phase Activity” to “TID 11003 Imaging Agent Administration Activity”
- Remove words “Syringe/Pump” from the first sentence of TID 11003 description Text, just below header mentioned above.
- Change Line of “Table TID 11003. Imaging Agent Administration Syringe/Pump Phase Activity” to “Table TID 11003. Imaging Agent Administration Activity”
- Change Concept Name of Row 1 of TID 11003 to EV (130237, DCM, "Imaging Agent Administration Activity")
- For clarification, change the Text in the Content Item Descriptions of TID 11003 Row 3 to “Volume administered by this activity.”
- For clarification, change the Text in the Content Item Descriptions of TID 11003 Row 13 to “Datetime this individual activity actually started.”
- For clarification, change the Text in the Content Item Descriptions of TID 11003 Row 14 to “Duration of this individual activity.”

PS 3.16, Section D DICOM Controlled Terminology Definitions (Normative):

- Change text of Code Value 130237 in the column Code Meaning to “Imaging Agent Administration Activity” (Remove “Syringe/Pump Phase”).
- Change Definition of Code Value 130237 to “Information about the activity in an Imaging Agent administration phase. In an Automated Injection system this describes the activity of one of the pump or syringe units used.”

PS 3.16, TID11002:

- For clarification, change descriptive text paragraph below header of “TID 11002 “Imaging Agent Information” to “This template describes an Imaging Agent which may be a single component or a mix of multiple components used in a single Administration system (a Syringe or Pump in an automated device).”
- For clarification, change the Text in the Content Item Descriptions of TID 11002 Row 2 to “Uniquely, within the scope of the root container, identifies the Imaging Agent contained in the tank of a unit (which could correspond to a syringe or may be part of a pump).”
- For clarification, change the Text in the Content Item Descriptions of TID 11002 Row 4 to “A single Imaging Agent component, or a mixture of multiple Imaging Agent components, used to build a custom mixture of contrast agent, filled in a single tank (which could correspond to a syringe or may be part of a pump)”.

PS 3.16, TID11008, Row 5:

- Change Concept Name to DTID 11003 “Imaging Agent Administration Activity”
- For clarification, change the Text in the Content Item Descriptions of TID 11008 Row 5 to “There will be one item for each activity that is administering an agent during this phase.”

PS 3.17, MMMM.1:

- Change Code Meaning of Concept Name of Node 1.21.3.8.3 to “Imaging Agent Administration Activity”
- Change Code Meaning of Concept Name of Node 1.21.4.6.4 to “Imaging Agent Administration Activity”
- Change Code Meaning of Concept Name of Node 1.21.5.7.4 to “Imaging Agent Administration Activity”
- Change Code Meaning of Concept Name of Node 1.21.5.8.4 to “Imaging Agent Administration Activity”
- Change Code Meaning of Concept Name of Node 1.21.6.8.5 to “Imaging Agent Administration Activity”
- Change Code Meaning of Concept Name of Node 1.21.6.9.4 to “Imaging Agent Administration Activity”

Amend DICOM PS3.16 as follows

(changes to existing graphics are ~~struck through~~ for removals):

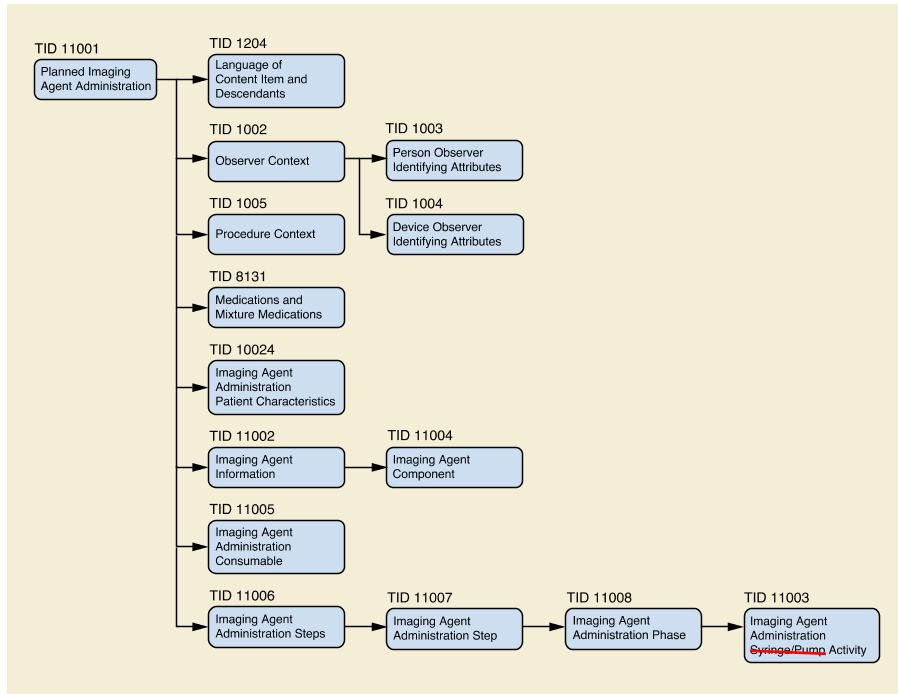


Figure A-19. Planned Imaging Agent Administration SR IOD Template Structure

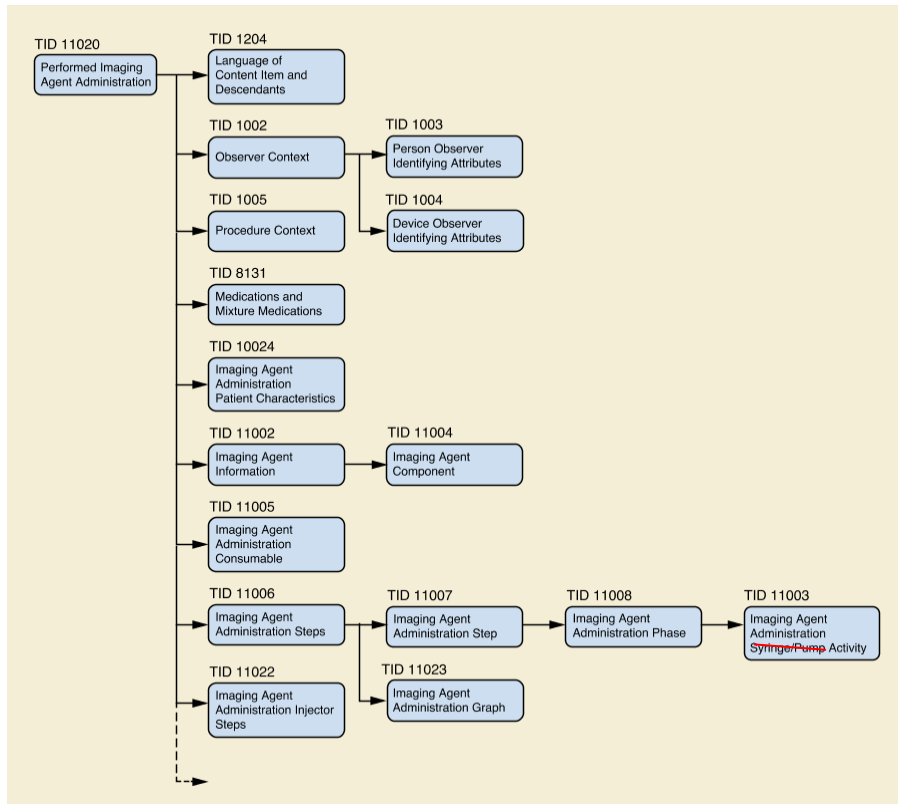


Figure A-20. Performed Imaging Agent Administration SR IOD Template Structure

Amend DICOM PS3.16 as follows
 (changes to existing text are bold 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
1			CONTAINER	EV (130237, DCM, "Imaging Agent Administration Syringe/Pump Phase Activity")	1	M		
...								

Content Item Descriptions

Row 3	Volume administered by this syringe or pump activity.
...	...
Row 13	Datetime this individual syringe or pump activity actually started.
Row 14	Duration of this individual syringe or pump activity.

Amend DICOM PS3.16 as follows
 (1. changes to existing text are bold and underlined for additions and ~~struckthrough~~ for removals
 2. Due to huge number of rows, most rows are left out and marked with three vertical ellipsis dots):

Table D-1. DICOM Controlled Terminology Definitions (Coding Scheme Designator "DCM" Coding Scheme Version "01")

Code Value	Code Meaning	Definition	Notes
		▪ ▪ ▪	
130236	Planned Imaging Agent Administration SOP Instance	Reference to a Planned Imaging Agent Administration SOP instance.	
130237	Imaging Agent Administration Syringe/Pump Phase Activity	Information about the activity of one of the pump or syringe units used in an Imaging Agent administration phase. <u>In an Automated Injection system this describes the activity of one of the pump or syringe units used.</u>	

Code Value	Code Meaning	Definition	Notes
130238	Imaging Agent Component	Information about a component of an Imaging Agent.	
		▪ ▪ ▪	

Amend DICOM PS3.16 as follows
(changes to existing text are bold and underlined for additions and ~~struckthrough~~ for removals):

TID 11002 Imaging Agent Information

This template describes an Imaging Agent which may be a single component or a mix of multiple components used in a single ~~syringe or pump~~ administration.

Type: Extensible
Order: Non-Significant
Root: No

Table TID 11002. Imaging Agent Information

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	EV (130183, DCM, "Imaging Agent Information")	1	M		
2	>	CONTAINS	TEXT	EV (130254, DCM, "Imaging Agent Identifier")	1	M		
3	>	CONTAINS	CODE	EV (130187, DCM, "Imaging Agent Warmed")	1	M		DCID 230 "Yes-No"
4	>	CONTAINS	CONTAINER	EV (130191, DCM, "Imaging Agent Component Usage")	1-n	M		
5	>>	CONTAINS	INCLUDE	DTID 11004 "Imaging Agent Component"	1	M		
6	>>	CONTAINS	NUM	EV (130239, DCM, "Component Volume")	1	MC	IF 2 or more items of Row 4 are present	UNITS (ml, UCUM, "ml")
7	>	CONTAINS	NUM	EV (130228, DCM, "Contrast Volume Limit")	1	UC	IFF root Concept Name Code Sequence (130226, DCM, "Planned Imaging Agent Administration")	UNITS EV (ml, UCUM, "ml")

Content Item Descriptions

Row 2	Uniquely, within the scope of the root container, identifies the Imaging Agent.
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Row 4	A single Imaging Agent component, or a mixture of multiple Imaging Agent components, used to build a custom mixture of contrast agent. For Imaging Agents that are not a mixture, a single instance of this row defines the Imaging Agent component.
Row 6	Estimated volume of the Imaging Agent component.

Amend DICOM PS3.16 as follows
(changes to existing text are bold and underlined for additions and ~~struckthrough~~ for removals):

TID 11008 Imaging Agent Administration Phase

This template provides detailed information on Imaging Agent Administration Phase. A phase is part of the administration step and is not interrupted except under abnormal conditions.

Type: Extensible
Order: Non-Significant
Root: No

Table TID 11008. Imaging Agent Administration Phase

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	EV (130202, DCM, "Imaging Agent Administration Phase")	1	M		
..								
5	>	CONTAINS	INCLUDE	DTID 11003 "Imaging Agent Administration Syringe/Pump Phase Activity"	1-n	MC	IF TID 11007 Row 4 = (130173, DCM, "Automated Administration")	
..	>	CONTAINS	NUM	EV (130240, DCM, "Total Phase Volume Administered")	1	M		UNITS = EV (ml, UCUM, "ml")
7	>	CONTAINS	DATETIME	EV (111526, DCM, "DateTime Started")	1	MC	IFF root Concept Name Code Sequence = (130227, DCM, "Performed Imaging Agent Administration")	
8	>	CONTAINS	NUM	EV (C0449238, UMLS, "Duration")	1	MC	IF root Concept Name Code Sequence = (130227, DCM, "Performed Imaging Agent Administration")	UNITS = EV (s, UCUM, "s")

Content Item Descriptions

Row 2	Imaging Agent Administration Phase Identifier is specified as numeric text string, and shall be treated as the ordinal of the recorded administration phase within an administration step (i.e., "1" for the first phase, "2" for the second, etc.).
Row 5	There will be one item for each syringe/pump activity that is administering an agent during this phase.

Row 7	Datetime that the earliest syringe/pump starts administering.
Row 8	Total duration of this phase starting from where the earliest syringe/pump starts administering until the last syringe/pump ends administering.

Amend DICOM PS3.17 after applying CP-1937, CP-1938, CP-1939 and CP-1940 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
...			
1.21.3.8.3	Imaging Agent Administration Syringe/Pump Phase Activity		TID 11003
...			
1.21.4.6.4	Imaging Agent Administration Syringe/Pump Phase Activity		TID 11003
...			
1.21.5.7.4	Imaging Agent Administration Syringe/Pump Phase Activity		TID 11003
...			
1.21.5.8.4	Imaging Agent Administration Syringe/Pump Phase Activity		TID 11003
...			
1.21.6.8.4	Imaging Agent Administration Syringe/Pump Phase Activity		TID 11003
...			
1.21.6.8.5	Imaging Agent Administration Syringe/Pump Phase Activity		TID 11003
...			
1.21.6.9.4	Imaging Agent Administration Syringe/Pump Phase		TID 11003

Node	Code Meaning of Concept Name	Code Meaning or Example Value	Reference to TID/ CID/ Comments
	Activity		
...			