

## DICOM Correction Proposal

STATUS	Letter Ballot
Date of Last Update	2025/06/17
Person Assigned	Christof Schadt
Submitter Name	Kari Jyrkkälä <kari.jyrkkala@varian.com>
Submission Date	2024/12/04

Correction Number	CP-2502
Log Summary:	Add Clinical Fraction Number to RT Treatment Summary Record Module
Name of Standard	PS3.3, PS3.16
Rationale for Correction:	CP-2342 'Add Clinical Fraction Number to 1st Generation RT Objects' introduced the Clinical Fraction Number (300A,0705) to 1st Generation RT Objects. Unfortunately, it was forgotten from RT Treatment Summary Record Module as well as TID 15303 Radiotherapy Treatment Scheduled Processing Parameters (for the IHE-RO TDW-II integration profile). This CP adds Clinical Fraction Number (300A,0705) to the RT Treatment Summary Record Module and TID 15303.
Correction Wording:	

*Update PS3.3, C.8.8.23 RT Treatment Summary Record Module*

**Table C.8-59. RT Treatment Summary Record Module Attributes**

Attribute Name	Tag	Type	Attribute Description
Current Treatment Status	(3008,0200)	1	Status of the Treatment at the time the Treatment Summary was created.  Enumerated Values: <b>NOT_STARTED</b> <b>ON_TREATMENT</b> <b>ON_BREAK</b> <b>SUSPENDED</b> <b>STOPPED</b> <b>COMPLETED</b>  See Section C.8.8.23.1.
Treatment Status Comment	(3008,0202)	3	Comment on current treatment status.
First Treatment Date	(3008,0054)	2	Date of delivery of the first treatment.
Most Recent Treatment Date	(3008,0056)	2	Date of delivery of the most recent administration.
Fraction Group Summary Sequence	(3008,0220)	3	Sequence describing current state of planned vs. delivered fraction groups.  One or more Items are permitted in this Sequence.

Attribute Name	Tag	Type	Attribute Description
>Referenced Fraction Group Number	(300C,0022)	3	References Fraction Group Number (300A,0071) in Fraction Group Sequence (300A,0070) in the referenced RT Plan.
>Fraction Group Type	(3008,0224)	2	Indicates type of fraction group.  Enumerated Values: <b>EXTERNAL_BEAM</b> <b>BRACHY</b>
>Number of Fractions Planned	(300A,0078)	2	Number of fractions planned for this fraction group.
>Number of Fractions Delivered	(3008,005A)	2	Number of fractions delivered as of Treatment Summary Report.
>Fraction Status Summary Sequence	(3008,0240)	3	Sequence describing status of fractions in Fraction Group.  One or more Items are permitted in this Sequence.
>>Referenced Fraction Number	(3008,0223)	1	Identifies fraction.
<b><u>&gt;&gt;Clinical Fraction Number</u></b>	<b><u>(300A,0705)</u></b>	<b><u>3</u></b>	<b><u>Identifier of the RT Treatment Fraction for this beam administration.</u></b>  <b><u>See Section C.8.8.21.4.</u></b>
>>Treatment Date	(3008,0250)	2	Date when fraction was delivered.
>>Treatment Time	(3008,0251)	2	Time when fraction was delivered.
>>Treatment Termination Status	(3008,002A)	2	Conditions under which treatment was terminated.  Enumerated Values: <b>NORMAL</b> treatment terminated normally <b>OPERATOR</b> operator terminated treatment <b>MACHINE</b> machine terminated treatment for other than NORMAL condition <b>UNKNOWN</b> status at termination unknown
Treatment Summary Measured Dose Reference Sequence	(3008,00E0)	3	Sequence of references to Measured Dose References.  One or more Items are permitted in this Sequence.

Update PS3.16, TID 15303 Radiotherapy Treatment Scheduled Processing Parameters

**Table TID 15303. Radiotherapy Treatment Scheduled Processing Parameters**

	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1	TEXT	EV (121384, DCM, "RT Plan Label")	1	U		
2	NUMERIC	EV (121385, DCM, "Current Fraction Number")	1	U		UNIT = EV (1, UCUM, "no units")

	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
3	NUMERIC	EV (121386, DCM, "Number of Fractions Planned")	1	U		UNIT = EV (1, UCUM, "no units")
4	NUMERIC	EV (121387, DCM, "Number of Fractions Completed")	1	U		UNIT = EV (1, UCUM, "no units")
5	CODE	EV (121388, DCM, "Checked-In Status")	1	U		DCID 230 "Yes-No"
<b><u>6</u></b>	<b><u>NUMERIC</u></b>	<b><u>EV (vvvvv1, DCM, "Clinical Fraction Number")</u></b>	<b><u>1</u></b>	<b><u>U</u></b>		<b><u>UNIT = EV (1, UCUM, "no units")</u></b>

*Update PS3.16, Annex D DICOM Controlled Terminology Definitions (Normative)*

Code Value	Code Meaning	Definition	Notes
121385	Current Fraction Number	The index of the fraction of the radiotherapy plan to be delivered.	
<b><u>vvvvv1</u></b>	<b><u>Clinical Fraction Number</u></b>	<b><u>An index that represents an incremental count of deliveries of fractions within a radiotherapy treatment serving a given combination of prescriptions.</u></b>	<b><u>See PS 3.3, section C.8.8.21.4.</u></b>