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Minutes-tcon

WG-07 Motion Management of
DICOM Working Group Seven
(Radiotherapy)
August 15, 2019

Voting Members Present	**Represented by**
AAPM	Bruce Curran
Accuray	Bob Pekarek
Mevion Medical Systems	Bruce Rakes
Varian	Thomas Schwere
Voting Members Not Present	**Represented by**
Brainlab	Christof Schadt
Elekta	Stuart Swerdloff
IBA	Frederic Dessy
Alternate Voting Members & Observers	**Represented by**
ICT	Harold Beunk
MITA/DICOM	Luiza Kowalczyk
Shanghai Proton and Heavy Ion Center	Michael Moyers
University of Michigan	Scott Hadley

Presiding Officers:	Stuart Swerdloff, Elekta, Industry Co-Chair
	Bob Pekarek, Accuray, Industry Co-Chair
DICOM Secretariat:	Luiza Kowalczyk, MITA, Secretary

1. Opening

1. The meeting started at 09:00 a.m. USA ET.
2. The agenda was reviewed and acknowledged.
3. The antitrust rules have been reminded.
4. The minutes of the previous meeting were reviewed and approved.

2. Sup XXX Motion Management Objects

- Continued reviewing SuppNN6. Motion management and monitoring has been factored out of Sup 160. Sup 160 addresses the positioning workflow.
- During today's call, there was more focus on defining a scope and field of application.
- Treatment reconstruction: instruction post-fraction-Take it to WG-07.
    - This topic requires further discussion.
- If there is enough content by November '19, Sup NN6 is going to be scheduled for the First Read with WG-06 Base Standard. It does not have a number yet.
- Please refer to the documents for any technical details.

Action Items:

1. Post an updated document on the ftp server-Bob Pekarek
2. Discuss treatment reconstruction with WG-07-WG-07 MM

3. Links

- ftp://medical.nema.org/MEDICAL/Private/Dicom/WORKGRPS/Wg07/Sup/OtherSup/SupNN6_MotionManagement
- ftp://medical.nema.org/MEDICAL/Private/Dicom/WORKGRPS/Wg07/Sup/
- ftp://medical.nema.org/MEDICAL/Private/Dicom/WORKGRPS/Wg07/WG07-MM/2019/2019-08-15/

4. Next Meetings

- Thursday, September 19, 2019, 9:00-10:00 US ET.

http://workspaces.nema.org/dicom/Lists/Calendar/calendar.aspx

5. Adjournment

The meeting adjourned at 10:00 US ET

Submitted by Luiza Kowalczyk, DICOM Secretariat

Reviewed by counsel: CRS, May 3, 2019.

Attachment

Use Cases for Motion Management

1. None

Actors: none
Type of signal: none
DICOM support required: no

2. Compression

Actors: compression plate or body mask
Type of signal: none
DICOM support required: no

3. Breath Hold

Actors: spirometer, timer
Type of signal: gating
DICOM support required: yes

Description: In automatic breath holding, the spirometer measures the volume of air inhaled and when the desired volume is reached, sends a signal to begin the breath hold. The time to hold the breath after the desired volume is reached is set by the operator. The enable gating signal during treatment delivery is from the breath hold timing system, not from the spirometer.

4. Gating

Actors: pressure sensor
Type of signal: amplitude surrogate
DICOM support required: yes

5. Rescanning

Actors: none

Type of signal: none
DICOM support required: no

6. Phase Rescanning

Actors: pressure sensor
Type of signal: amplitude surrogate
DICOM support required: yes

7. Implanted Fiducial and Fluoroscopy

Actors: flat panel imager, x ray tube,
Type of signal: gating
DICOM support required: yes

Note: Position is calculated based upon image of fiducial, gating signal