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# *MINUTES*

## Motion Management Subgroup of
## DICOM WORKING GROUP SEVEN (Radiotherapy)

| | |
|---|---|
| **Date and time:** | July 7, 2021 \| 11:00am-12:30pm US ET |
| **Presiding Officer:** | Bob Pekarek, Accuray, Industry Co-Chair<br>Stuart Swerdloff, Elekta, Industry Co-Chair |
| **Secretariat**: | Shayna Knazik, DICOM/MITA |

| **Voting Members Present** | **Represented by:** |
|---|---|
| Accuray | Bob Pekarek |
| Brainlab | Christof Schadt |
| DICOM/MITA | Shayna Knazik |
| Mevion Medical Systems | Bruce Rakes |
| Varian Medical Systems | Thomas Schwere |

| **Voting Members Not Present** | **Represented by:** |
|---|---|
| AAPM | Bruce Curran |
| *Elekta | Stuart Swerdloff |
| *RaySearch Laboratories | Stefan Boman |
| Shanghai Proton and Heavy Ion Center | Michael Moyers |

| **Others Present** | **Represented by:** |
|---|---|
| AAPM | Yulong Yan, Alt. Voting |
| C-Rad | Mattias Nilsing, Observer |
| Elekta | Jim Percy, Alt. Voting |
| University of Michigan | Scott Hadley, Observer |
| Vision RT | Diego Lejarazu, Observer |

1. **Administrative**
   - The teleconference was called to order and a quorum was present.
   - DICOM antitrust and patent declaration rules were reviewed.
   - The agenda was reviewed and approved.

2. **Discuss possible introduction of Motion Management key objects into 1st Generation RT/Discuss how MM fits within 2nd Generation RT**
   - Discussed CyberKnife and its motion inputs for planning.

- Action: Bob will create a spreadsheet for the different types of motion management parameters. The group will fill in the parameters and discuss use cases and existing gaps on the next call. Individual assignments and items to be discussed on next call:
    - 4D-CT (input and possible output): Jim
    - Robotic: Bob
    - Varian private IOD: Thomas will present Varian waveform and motion management protocol
    - Gating: Michael
    - RT Vision: Yulong
    - RT Imaging (MR): not assigned
    - Tracking: not assigned
    - US Imaging (Ultrasound): not assigned
- Record in columns.
- Input (from plan or setup)
- Output (recording)
- Tmt Prep example--H/L; details in CIDs.
- Beacons; external markers (reflecting ball); anatomy; RT Vision
- Compensate; monitor without action or with action.
    - Terminate
    - Wait until back in tolerance
    - Replan
- Monitoring implementation possibilities
    - Existing with CID entry
    - Instruction
- Intra-fraction motion limitation
- RT Radiation Record can record stop and start for gating; gating is a reason code.
- Action: Ask Kari if this is being put into Gen 1 (reason code) associated with IEC.

**3. SupXXX Motion Management Objects – PPT preparation**

- Not discussed on this teleconference.

**4. Old/New Business**

- None at this time.

**5. Next Meetings**

- Action: Shayna will schedule the next call on August 18th at 11:00am-12:30pm US Eastern Time.

**6. Adjournment**

- The call was adjourned at 12:08pm US ET.

Prepared and submitted by Shayna Knazik
Reviewed by Counsel 8/2/21