

IHE-RO Technical Committee Conference Call

January 19, 2023

10:30 am – 11:50 pm ET

Technical Committee Chairs:
Scott Hadley, PhD, University of Michigan
Jon Treffert, RaySearch

Mission Statement: *The American Association of Physicists in Medicine American Society for Radiology Oncology (AAPM) supports a multi-society Task Force to undertake an initiative to promote the Integration of the Healthcare Enterprise (IHE) – Radiation Oncology (RO), fostering seamless connectivity and integration of radiotherapy equipment and the patient health information systems. The Task Force will include members from ASTRO, RSNA, AAPM, the American College of Radiology (ACR) and the Medical Imaging and Technology Alliance (MITA). In addition, members of the international community have also been invited to participate in IHE-RO. The IHE-RO Task Force, in close collaboration with radiotherapy product manufacturers, will develop appropriate integration profiles for radiation therapy and setup a demonstration of seamless communication among the full array of radiotherapy products.*

Attendance

Jon Treffert (Raysearch)
Walter Bosch (Wash U)
Jill Moton (AAPM)
Bruce Rakes (Mevion)
Bruce Curran (VCU)
David Wikler (IBA)
Jim Percy (Elekta)
Bob Pekarek (Accuray)
Harold Beunk (Demcon)
Martin von Siebenthal (Varian)
Richard Vögele (Brainlab)
Sanjay Bari (Elekta)
Thomas Schwere (Varian)
Tucker Meyers (Epic)
Michael Owens (Reflexion)
Marcus Bergman (Raysearch)
Rishabh Kapoor (VCU)

Minutes

- I. Call to Order at 10:34am EST
- II. Review Agenda
- III. Review Minutes
 - a. Minutes from the Dec 15, 2022 TC teleconference were reviewed. Motion by Bob Pekarek to approve, seconded by Jim Percy. Approved by the TC without objection.
- IV. TDRC-Ion Update
 - a. Review for publication for Public Comment – David Wikler reviewed an updated revision (2022-11-04) of the TDRC-Ion Profile (ihe-ro_tdrc_ion_v1.0.docx) with the TC. Requirements for IHE-RO usage and content of RT Ion Beams Treatment Record attributes were discussed
 - i. Open Issue: Should Calculated Dose Reference Record Module be required?
 - ii. In the RT Ion Beams Session Record Module, content requirements are specified in separate tables for treatment beams and setup beams.
 - iii. Display requirements for recorded information were discussed. Consensus that the need to display information is application- and use-case dependent.
 - iv. Changes in the latest version
 1. Remove requirement to report on every action.

2. Remove requirement to report on kV exposure.
 3. Only report beam parameters for PROTON or ION beams.
 4. Only require positions for setup beams.
 - v. References to the 2022e DICOM standard were updated throughout.
 - vi. Added Section 7.4.1.4.2 (“RT Series Module with Treatment Session UID”) in volume 3 to include the Treatment Session UID (300A,0700) attribute in the RT Series Module.
 - vii. The Profile revision 1.0 date was changed to January 19, 2023. Copyright updated to 2023.
 - viii. The revised document (ihe_ro_tdrc_ion_v1.0_20230119TC.docx) has been uploaded to the TDRC-Ion folder in the IHERO TC share in Box.
- b. **DECISION**: Motion by David to approve TDRC-Ion for Public Comment, seconded by Jon Treffert. Approved without objection. (Date of publication and response deadline to be set by Mary Jungers.)

V. HDSS Update

- a. Richard Vögele presented the HDSS to the IHE-RO PC. Feedback from the PC was positive.
- b. A draft of the clinical impact statement, presentation and Profile have been prepared. Mary Feng to add RO-ILS content to the clinical impact statement.
- c. The TC decided to form a working group to develop the HDSS Profile.
- d. **ACTION 230101**: Jill setup email alias for the HDSS group and distribute the draft clinical impact statement and profile documents to the TC and solicit interest in an HDSS working group.

VI. BRTO-III Update

- a. Jim Percy presented an update on the BRTO-III Profile. A detailed discussion of BRTO-III is anticipated in April 2023.
- b. The relationship between BRTO-II and BRTO-III requirements needs to be clarified. What backward- and forward-compatibility is expected? What conversions are needed?

VII. TPPC-Brachy Update

- a. Jim Percy presented updates of the TPPC-Brachy Profile, highlighting display requirements for dwell times and total times. Actors must display dwell times and total times at the Referenced Date and Time, rather than Cumulative Time Weight (300A,02D6) and Final Cumulative Time Weight (300A,02C8) values.
- b. TPPC-Brachy adds requirements for Attributes already in the TF. The new requirements would need to be included either (1) as a new Module Definition section in Volume 3 or (2) as a Change Proposal modifying an existing section in the TF.

VIII. XRTS Update

IX. Connectathon Planning

- a. Venue
 - i. The second half of October or first half of November is expected to work for Brainlab to host the 2023 Connectathon in Munich. Approval by Brainlab is pending. Tentative dates are Oct 16-20, 2023 or Oct 23-27, 2023. Dates to be finalized at the April 2023 TC face-to-face meeting.
- b. Profiles/Participants
 - i. Walter Bosch requested vendors identify products they expect to test in October for discussion at the February 2023 TC teleconference.

X. TC Meeting Planning

- a. Face-to-Face Orlando (Apr 3-7, 2023)
 - i. Housing Arrangements – TC members are encouraged to make reservations early. If you are only attending the IHE-RO portion of the meeting, you do not need to register for the meeting. Please contact Jill Moton for questions or issues.
 - Venue: Hyatt Regency Grand Cypress, Orlando, FL
 - Meeting main page: <https://w4.aapm.org/meetings/2023SCM/index.php>

- Registration information and link:
<https://w4.aapm.org/meetings/2023SCM/registrationInfo/index.php>
- Housing information:
<https://w4.aapm.org/meetings/2023SCM/registrationInfo/housingInfo.php>

b. Table

- i. A table is available for IHE-RO, either in the show room or near registration.
- ii. Matt Schmidt is planning to attend the Spring Clinical Meeting. Jill will ask him if he is willing to help her man the IHE-RO table.

XI. Next PC Presentation

- a. 2023 TC Goals/Priorities

XII. Other Business

XIII. Adjournment at 12:06pm EST