

IHE-RO Technical Committee  
Conference Call  
January 22, 2018  
10:30 am – 12:00 pm EST

Technical Committee Chairs:  
Scott Hadley, PhD, University of Michigan  
Chris Pauer, Sun Nuclear

**Mission Statement:** *The American Society for Radiology Oncology (ASTRO) has formed 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, American Association of Physicists in Medicine (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.*

**Attendees:**

Chris Pauer, Sun Nuclear  
Jill Moton, AAPM  
Walter Bosch, WashU/ATC  
Rishabh Kapoor, VCU  
Bruce Curran, VCU  
Parminder Basran, BC Cancer Agency, Canada  
Harold Beunk, ICT  
Bob Pekarek, Accuray  
Jim Percy, Elekta  
Koua Yang, Philips  
Neelu Soni, Mercy Springfield  
Howie Richmond, MIM Software  
Rickard Holmberg, Raysearch  
Stefan Pall Boman, Raysearch  
Sven Siekmann, Brainlab  
Thomas Schwere, Varian  
Scott Hadley, UMich

**Minutes:**

- I. Call to Order at 10:35am ET
  - a. Review Agenda – items added for discussion
  - b. Approve Minutes – Minutes from 12/18/2017 teleconference were approved without objections or abstentions.
  
- II. Check in on Connectathon Findings – Any actions before February? Actions for next Connectathon.
  - a. Walter is preparing test tool results from 2017 Connectathon for distribution to participants before the Feb 2018 face-to-face meeting.
  - b. ICT has released a beta version of Content Validation Tool – to be discussed at Feb. 2018 meeting.
  - c. Walter to submit application for IHE-RO 2018 Connectathon
  
- III. Update of ihe-ro.org supplement list.
  - a. The “RO History” Profile was discussed. There were several suggestions to name this Profile – Previous treatment history? Treatment history? RO Comprehensive treatment history? RO Patient History Transfer?
    - i. Use case includes moving treatment to another clinic

- ii. Scope is to be worked out: treatment record, plan, dose, etc. include diagnostic images?
    - iii. Catalog / manifest: Could use DICOM Key Object Selection to reference content.
  - b. Deformable Registration in RO (DRRO) – name update
- IV. Update on Prescription activity in various arenas.
  - a. To be discussed further in Feb 2018 TC meeting.
- V. BRTO-II – Sven reviewed issues related to this Profile
  - a. The “X” designation for presence of Type 2 and Type 3 attributes that shall be NULL, absent, respectively. Wording was updated in the
  - b. “Dose Comment” – Attribute Note: the condition for presence of this attribute was revised (conditioned on presence of the RT Plan Description).
  - c. “Image Orientation (Patient)” – Display orientations for patient images were discussed. Exceptions may include (a) Seated patients, (b) prone (e.g., Gamma Pod), (c) small animal scans (?). The direction of gravity could be denoted by the “bottom of the screen” or by an explicit indicator. This issue was tabled – to be discussed further at Feb TC meeting.
  - d. Inclusion of multiple setups in a plan is to be included in the Feb TC meeting agenda.
- VI. TPPC – Suggestion from DICOM WG-07 to remove requirement to include the Verification Control Point Sequence.
  - a. These data were included for the benefit of some QA systems. However, it appears that the QA systems now re-compute this information from images, RT Plan and RT Structure Set.
  - b. Sven will remove requirements for the Verification Control Point Sequence for review at the Feb meeting.
- VII. Discuss reformatting of QA Workflow supplement. – Chris reviewed the QA Workflow Use Cases. Two proposals have come from the PC: (a) Integration Patient QA Checker and (b) Quality Assurance Workflow.
  - a. The Use Cases address connectivity/workflow for patient-level QA.
  - b. Chris discussed a Basic RT QA Workflow Use Case to manage what data need to be communicated to support various steps of the planning and QA workflow.
- VIII. Administrative issues
  - a. There is no IHE-RO TC teleconference scheduled in Feb 2018.
  - b. Jill will distribute hotel information for the IHE-RO TC meeting following the AAPM Spring Clinical Meeting. The meeting is to start on Tuesday, April 10 at 2:00 pm PDT.
- IX. Meeting Adjourned at 12:05 pm ET