

QIBA FDG-PET/CT Tech Ctte Update Call

15 August 2014 at 9 AM CT (GMT-5)

Call Summary

In attendance:

Richard Wahl, MD (Co-chair)

Kirk Frey, MD, PhD

Howard Higley, PhD

John Hoffman, MD

Paul Kinahan, PhD

Martin Lodge, PhD

Lawrence MacDonald, PhD

Eric Perlman, MD

Larry Pierce, PhD

Anne Smith, PhD

Timothy Turkington, PhD

Jean-Luc Vanderheyden, PhD

John Wolodzko, PhD

Brian Zimmerman, PhD

RSNA

Fiona Miller

Julie Lisiecki

Madeleine McCoy

Agenda

- 1) Steering Committee and adjacent committee updates
 - a) Past/Upcoming meeting update (None)
 - b) Adjacent committee updates (None)
- 2) Project Updates
 - a) Profile Field Testing (5 min)
 - b) DRO extensions and request for testing (15 min)
 - c) UPICT comments feedback and next steps (5 min)
- 3) Funding status of Round 4 Projects
- 4) Amyloid Writing Group Updates (5 min)
- 4) Others

General Discussion

- The next face-to-face meeting will be on Wednesday, December 3, during the 2014 RSNA Annual Meeting in Chicago
 - Proposed Plenary Session and Breakout Group topics for the QIBA Technical Committees will be discussed at a later date
- Modality Committee Co-Chairs discussed the status of Profiles
 - The CT Profile has been moved to the next level
 - MR Profiles will be using Clinical Trial data instead of Phantom data
 - PET CT Profiles have been publicly reviewed and the Field Test Group continues to make progress
 - All groups have similar documents and are driven by expediency and availability of data but use different approaches

PET Amyloid WG Update (Dr. Perlman)

- Main Working Group is discussing the Profile by section, focusing on subject preparation and site qualification
- Test/Retest Subgroup is converging the set-up of matrices
- Next step is to work with the full group to have representation from each radiotracer to collect published and unpublished data

QIBA FDG-PET Profile Field Testing Project Update (Dr. Lodge)

- Perspectives of three different field test sites, the specific data and the applicability of the workstations continues to be discussed
- Field test phase should be complete in the next few weeks and the project is on track to wrap up by the end of September
- Next phase is to see whether these areas may turn into more detailed phantom experiments
- There is an interest in assembling a short form of the checklist.

DRO Extensions and Request for Testing (Dr. Pierce)

- Dr, Pierce provided an overview of the PET/CT Digital Reference Object Extension (DROe)
 - The goal of the QIBA DROe project is to construct a common reference DICOM PET/CT test image in the same format generated by each vendor's PET/CT scanner
 - This will then be read on PET/CT display stations to check PET/CT fusion alignment, SUV-peak computation, and ROI fidelity
 - The DROe test object and analysis sheet (form) may be downloaded for Beta testing at:
<http://depts.washington.edu/petctdro>
 - The analysis form should be completed and returned to RSNA staff (jkoudelik@rsna.org) by Friday, September 19, 2014.
- RSNA to circulate this information to the entire Tech Ctte
- Dr. Smith to pass this information to Siemens reps
- Dr. Pierce to e-mail Dr. Perlman test objects for feedback
- Dr. Pierce also informed the group of a DRO which addresses lean body mass calculations

UPICT FDG-PET/CT Imaging Protocol (Dr. Kinahan)

- Dr. Kinahan to work with Dr. Yap as to the final decision to release the Protocol or to continue discussions of any discrepancies which may currently exist which can be addressed in the next version.

Funding Status of Round 4 Projects (Dr. Kinahan)

- The Steering Committee reviewed the Round- 4 Projects and the following two NM projects were approved, pending award of additional funding from NIBIB
 - FDG-PET/CT Profile Multi-Center Field Test (extension)-- *Dr. Turkington for \$90K*
 - Amyloid Profile Continued Support with Brain Phantom Development-- *Dr. Sunderland for \$63K*
 - Total budget for all projects is expected to be approximately \$620K (including indirect costs)

Single-Photon Emission Computed Tomography (SPECT) (Dr. Wahl)

- Dr. Wahl is proposing to form a writing group to explore the elements of a quantitative SPECT Profile, realizing there are no current financial resources for such a group
- To gauge interest , RSNA staff will circulate a survey to the entire Tech Ctte

Upcoming Calls:

QIBA PET Amyloid WG Subgroup T-Con, Friday, August 22nd at 8:30am (CT)

QIBA FDG-PET Tech Ctte Update T-Con, Friday, August 29th at 9am (CT)