

QIBA FDG-PET Biomarker Committee (BC) Call

06 October 2017 at 9 AM CT

Call Summary

In attendance:

Rathan Subramaniam, MD, PhD, MPH (Co-Chair)

John Sunderland, PhD (Co-Chair)

Scott Wollenweber, PhD (Co-Chair)

Ronald Boellaard, PhD

Jerry Froelich, MD

Howard Higley, PhD

Edward Jackson, PhD

Paul Kinahan, PhD

Martin Lodge, PhD

Jayant Narang, MD

Nancy Obuchowski, PhD

Amy Perkins, PhD

Eric Perlman, MD

Timothy Turkington, PhD

RSNA

Joe Koudelik

Julie Lisiecki

Moderator: Dr. Wollenweber

Radiology article update

- A special report article has been submitted to *Radiology* with the FDG-PET checklist
- The article was reviewed and is in the “under consideration” category
- Feedback was received from the editors on how to improve the article for possible publication
- More details are needed, keeping the viewpoint of the audience in mind
 - An introduction regarding quantitative imaging biomarkers across systems with practical details on how Profiles are used may be helpful
 - Basics of a Profile in general (shorter first section)
 - Need context and how / why Profiles matter
- Changes will be made as suggested
- Team deadlines are as follows:
 - Dr. Kinahan will work on literature/evidence grading (i.e., a formal assessment of paper quality) and send to BC for review (2 weeks) – Finalize by October 20th
 - Dr. Kinahan will work on responses to reviewers (one week) – Finalize by October 27th
 - Comments to be sent to Dr. Kinahan by November 3rd regarding the lit review
 - Comments to be sent to Dr. Kinahan by November 10th regarding the response to reviewers
 - Target date to return with edits to *Radiology* editors: November 17th
- If accepted, supplementary materials related to the Profile may be added

FDG-PET Poster for RSNA 2017

- The team discussed organization of poster content
- Panel sections to be edited are numbered/positioned as follows based on the 2016 template:
 - 1 3 5 7
 - 2 4 6 8
- Drs. Kinahan and Subramaniam are updating panel #5
 - Waiting for statistical analysis figures from 3 readers
- Dr. Turkington is adding content regarding noise measurements
- Dr. Higley provided a few PowerPoint slides related to QIBA/fNIH FDG-PET biomarker qualification efforts
 - He suggested streamlining graphics and details, noting that the stats core had been changed from Duke to Mayo for the Lymphoma study
 - Dr. Subramaniam to aid with editing of this content on panel #2
- Dr. Wollenweber reminded all editors to address the Profile impact and value added

- Dr. Perlman noted that this is a collaborative effort toward the biomarker qualification process, and lessons learned regarding development of the Profile, along with how the process will aid quantitative efforts, should be included
 - Absolute change is more reproducible and more reliable than the Deauville method, thereby demonstrating the impact
- Dr. Sunderland will be updating panel #4 and intends to illustrate with a flow chart
- Dr. Lodge provided a Point-spread function (PSF) update for panel #7
- Other details to be added include:
 - Confirmation details: 2 sites: 4 machines?
 - Test- re-test details
 - QIBA multi-center trial
- It was also agreed that the poster will have larger font size and fewer words, with an emphasis on graphics, similar to the [2016 poster](#)
- All were reminded of the guidelines from Drs. Jackson and Guimaraes:
 - Organizational Structure Updates
 - Profile Development Status
 - Profile Impact/Implications for Clinical Trials and Patient Care (new focus for 2017)
 - Conformance Procedure Update
 - Groundwork Project Status/Results (optional)
- Dr. Wollenweber volunteered to be the poster coordinator and to finalize the poster into a print-ready format **by the October 31 deadline**

Nuclear Medicine WebEx Schedule:

10/13 PET Amyloid BC
10/20 SPECT BC
10/27 NM Leadership (TBD)

11/03 FDG-PET BC
11/10 PET Amyloid BC
11/17 SPECT BC

SAVE-THE-DATE: QIBA Working Meeting at RSNA 2017 | Wednesday, November 29, 2:30-6 pm – Lakeside Center

