

QIBA fMRI Biomarker Committee (BC) Call

Wednesday, October 18, 2017 at 11 AM CT

Call Summary

In attendance

Jay Pillai, MD (Co-chair)

James Reuss, PhD (Co-chair)

Ted DeYoe, PhD (Co-chair)

Shruti Agarwal, PhD

Cathy Elsinger, PhD

Feroze Mohamed, PhD

Nancy Obuchowski, PhD

David Soltysik, PhD

Nikolay Tzaribachev, MD

James Voyvodic, PhD

Zhiyue Jerry Wang, PhD

RSNA

Joe Koudelik

Susan Weinmann

Review of Previous Call Summary

- The 10.04.2017 call summary was approved as presented.

Profile v1.0 Motor Mapping Status

- In-person appeal made at ASFNR Oct 2017 (especially fMRI study group section)
 - Dr. Reuss brought attention to the need for Profile review/comment and answering questions
 - Speakers/moderators were asked to announce that the fMRI Profile v1.0 has been released for public comment
 - ASFNR is the best target audience for clinical aspect of fMRI
 - In addition to reaching out to ASFNR community with a request for review and comment, consideration will be given to posing questions regarding their assessment of fMRI as a biomarker
 - Image registration issues, a main source of variance, seen when comparing analysis software; this has not been addressed in v1.0 or v2.0
 - It was suggested that low interest in fMRI Profile v1.0 is due to motor-mapping being a universally-accepted standard of care with little need to quantitate for clinical applications
 - Dr. Voyvodic drafting a manuscript of issues identified when analyzing the DRO data across multiple sites, e.g., regarding data interpretation and protocols/methods used
 - As a result of recent ASFNR activity related to standardizing language paradigms in fMRI, greater interest in Profile v2.0 is expected
- Public comment period was extended to November 10 to allow for ASFNR membership feedback
 - RSNA Staff sent an announcement regarding the deadline extension to 1,000+ QIBA members, 100+ sister associations on September 26 and will send a reminder soon
 - Another extension may be considered
- After the public comment period ends and all feedback has been addressed, the fMRI BC and MR CC will vote to publish the Profile as Stage 2: Consensus, as specified on the QIBA Wiki at:
http://qibawiki.rsna.org/index.php/QIBA_Profile_Stages
- ASFNR meeting attendee, Dr. Raslau (University of Kentucky), to be added to the fMRI BC roster and receive a request for public comment

Assessment of DRO specifications and creation – update on Round-1 Project (Dr. Voyvodic)

- In the process of evaluating results from different sites, Dr. Voyvodic discovered issues in regard to methods different sites have used to create their data
- Significant amount of variability was found, particularly in center-of-mass measurements which are correctible using normalization
- Discussion needed with contributors on the interpretation of results across sites and comparison to ground truth
- Data to be reanalyzed when the best method for determining truth is established
- Results and findings will be drafted for publication

RSNA 2017 Annual Meeting Poster Planning

- Volunteers are needed to provide content for the fMRI poster; focus and assignments and timeline were discussed
- Dr. Voyvodic to submit Round-1 DRO project results; figures to be added to the poster next week
- Panel content and submitters confirmed for the 2017 poster
- Draft poster to be circulated to fMRI BC members
- RSNA staff will print, ship, and install posters if a print-ready PowerPoint file is received by October 31, 2017
- Agenda for breakout session at QIBA Working Meeting to be drafted; focus will be on Claim development for Profile v2.0

SAVE-THE-DATE:



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

RSVP at: <http://tinyurl.com/2017-QIBA-Working-Meeting!>

Sign up for Meet-the-Experts lunchtime sessions at: <http://tinyurl.com/QIBA-MTE-Sign-up>

Profile v2.0 Language Mapping Status

- Literature search is underway; searches can be annotated and articles posted at: <https://drive.google.com/drive/folders/0B6So9x1DSqdaZG1NbG5IbHNCU3c?usp=sharing>
 - To request editing privileges, contact: qiba.fmri@gmail.com
- There was brief discussion on Claims for this Profile

Next calls:

- QIBA fMRI Bias TF call – Tuesday, October 24 at 1 PM CT
- QIBA fMRI Biomarker Committee call – Wednesday, November 1 at 11am CT

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