

QIBA fMRI Biomarker Committee (BC) Call

Wednesday, August 23, 2017 at 11 AM CT

Call Summary

In attendance

Ted DeYoe, PhD (Co-chair)

Jay J. Pillai, MD (Co-chair)

Christopher Conklin, PhD

Feroze Mohamed, PhD

Nancy Obuchowski, PhD

James Voyvodic, PhD

Zhiyue Jerry Wang, PhD

RSNA

Joe Koudelik

Susan Weinmann

Review of Previous Call Summary

- Dr. Pillai started the call with a motion to approve the minutes from the 8.09.2017BC committee call, which was approved as presented.

Profile 1.0 Status

- Public comment progress
 - No comments received to date (~10 weeks since release)
 - RSNA Staff to send a reminder to 1,000+ QIBA members, 100+ sister associations with original Sept deadline
 - Dr. Pillai reached out to ASFNR Executive members as well as the lead author of the ASFNR white paper for additional feedback
 - Dr. Mohamed to reach out to key contacts at ISMRM and possibly OHBM
 - Suggestion to extend public comment period to mid-October to allow for ASFNR membership feedback (expected during and immediately after the ASFNR annual meeting on October 9-11)
 - Others were encouraged to reach out to additional members of the functional imaging community.
- Discussion on next steps
 - Profile conformance remains an issue to be addressed
 - After the deadline of the public comment period, comments will be addressed and a ballot will be sent to BC and then CC voters for a decision on whether this Profile can move to Stage 2: Consensus, as specified on the QIBA Wiki at: http://qibawiki.rsna.org/index.php/QIBA_Profile_Stages
 - Discussion on ways to publicize Profile once in Consensus stage; suggestion to include information on the RSNA Annual Meeting poster (QIBA Kiosk area)

RSNA 2017 Annual Meeting Posters

- On Friday, August 18, staff sent out poster focus, specific guidelines, and options for printing and installation to all QIBA BC Co-Chairs
- To maintain topic uniformity across all posters, content should address each of the following:
 - Organizational structure updates
 - Profile development status
 - Profile impact/implications for clinical trials and patient care (new content for 2017)
 - Conformance procedure update (if applicable)
 - Groundwork project status/results

- Each Biomarker Committee will have the opportunity to produce one poster
- After some discussion, a collective decision was made by the group that the fMRI BC would create a poster for RSNA 2017 in accordance with the above-mentioned guidelines, and mention was made of need to incorporate QIBA year 5 project results into the poster.
- Suggestion made to include poster development as agenda item on upcoming calls
- RSNA staff will print, ship, and install posters if a print-ready PowerPoint file is received by October 31, 2017

Profile 2.0 Language Mapping

- Literature search is underway; searches can be annotated and articles posted at: <https://drive.google.com/drive/folders/OB6So9x1DSqdaZG1NbG51bHNCU3c?usp=sharing>
 - To request editing privileges, contact: qiba.fmri@gmail.com
 - fMRI BC members were encouraged to add other search strategies to the fMRI Google Drive folder and to visit the fMRI Language Profile to add comments
- With a glut of literature, the focus of the literature search needs to be narrowed to articles most relevant to the Profile; discussion regarding the topics to be included in the literature search was conducted, but language reproducibility remains as the primary focus, at least for the initial language profile.
- Questions to be answered by the literature yet to be identified
- Groundwork projects will factor heavily into Profile 2.0 Claims
 - Claims to be built around center-of-mass in language areas, laterality measures and spatial extent of activation---issues of statistical thresholding as well as region of interest (ROI) determination need to be considered (issues of functional specificity and sensitivity were discussed)
 - The degree of measurement reproducibility will be the focus, but other issues were discussed as well
 - Suggestion to assess reproducibility of different tasks, as possible future groundwork projects to inform Profile 2.0, since the tasks utilized in the Year 5 projects by Drs. Voyvodic and Pillai may not necessarily be the only ones to consider.
- Dr. Pillai mentioned that the ASFNR white paper on language-mapping paradigms (for which Drs. Pillai and Welker are senior authors) was accepted by the AJNR for publication. A pdf containing the proofs for this accepted manuscript will be uploaded to the Profile 2.0 GoogleDrive folder this week.
- Profile may be modified as literature continues to emerge

fMRI Bias TF Update (Dr. Voyvodic)

- There has been minimal participation on fMRI Bias TF calls, and some issues need input from more members than those who have been thus far able to attend the separate bias calls.
- Analysis of Round-1 DROs is close to completion
- Dr. Pillai suggested that a detailed discussion by Dr. Voyvodic regarding gaps in data, meaning of analysis results, authorship and future steps should be included in the next fMRI BC call on September 6, in light of the need for input from the members from the various academic sites that have contributed to the DRO downloads and analysis.

➤ **If you plan to attend the 2017 RSNA Annual Meeting, the QIBA Working Meeting will be held on Wednesday, November 29, 2017, 2:30 – 6 PM**

Next calls:

- QIBA fMRI Bias TF call – Tuesday, August 29 at 1 PM CT
- QIBA fMRI Biomarker Committee call – Wednesday, September 6 at 11am CT

RSNA Staff attempt to identify and capture all committee members participating on WebEx calls. However, **if multiple callers join simultaneously or call in without logging on to the WebEx, identification is not possible.** Call participants are welcome to contact RSNA staff at QIBA@RSNA.org if their attendance is not reflected on the call summaries.