

QIBA fMRI Biomarker Committee (BC) Call

Wednesday, April 18, 2018 at 11 AM CT

Call Summary

In attendance

Feroze Mohamed, PhD (Co-chair)

Jay Pillai, MD (Co-chair)

David Soltysik, PhD (Co-chair)

Ping Hou, PhD

Andrew Kalnin, MD

Nancy Obuchowski, PhD

Jim Voyvodic, PhD

RSNA

Joe Koudelik

Susan Stanfa

Review of Previous Call Summary

- The 04.04.18 call summary was approved as presented

Discussion on BC Member Engagement

- Suggestion to poll fMRI BC members for ways to reengage and improve call attendance
 - Determine whether the fact that committee objectives have been met has resulted in decreased member interest
 - Determine what could make BC calls more appealing, e.g., is a change of direction needed?
 - Perhaps interest will increase with work on the more clinically relevant Profile 2.0 on language mapping
 - Dr. Mohamed to draft and send a message on behalf of the fMRI BC leadership to RSNA staff for BC distribution
- Strong recommendation that fMRI BC Co-Chairs have a purpose, plan and agenda for every fMRI BC call

QIBA Checklist: “fMRI Center of Mass Estimation for Pre-surgical Assessment (fMRI-CMA)”

- Dr. Elsinger has been working on a synopsis of comments received for Profile 1.0 on motor mapping
- Discussion on the process for addressing and resolving public comments
- The acquisition hardware checklist was reviewed
 - Discussion on remaining steps for completion of this document
 - Deliberation occurred regarding field-testing (with two DROs) vs. conformance-testing (with 30 DROs)
 - Suggestion to request feedback on the efforts of the fMRI BC with the distribution of the final checklist
 - Request that recipient describe their participation (e.g., observer-only)
 - Enquire whether recipient would participate more if the BC calls were to focus on certain topics/activities
 - Obtain input from the membership on Profile 2.0 either after an initial draft is formulated (this could be a year from now), or earlier on in the process
 - Profile 1.0 on motor-mapping was met with less than expected interest; discussion on ways to attract more involvement and spread the word regarding Profile 2.0 on language mapping
 - Discussion on whether efforts should be directed toward fostering more enthusiasm for the group’s current work or to change the focus to something that might be more interesting to members
 - Structure and call topics are needed and may be successful in increasing participation; the fMRI BC seeks to create the impression that they are working toward an applicable product

- Discussion regarding efforts on the fMRI Profiles 1.0 and 2.0
 - In the absence of groundwork funding, the fMRI BC may need to move beyond standardization issues and analyze existing data or collect new data
 - A Profile must include specific Claims about quantifiability and reproducibility
 - It was pointed out that language networks are highly complex and constantly evolving and that this is an area of considerable interest for Profile 2.0
 - fMRI BC to consider whether Profile 1.0 is behind us and to shift effort to Profile 2.0 instead
- To avoid having two different validation procedures in the same document, Drs. Soltysik and Voyvodic's validation checklists to be merged and any redundancies removed
- Dr. Soltysik to send the latest checklist version to Dr. Mohamed, then to Dr. Voyvodic for final edits
- After review and approval by fMRI BC core members, the checklist will be distributed to the wider fMRI BC membership
- Dr. Voyvodic to upload 2 DRO datasets (in NIFTY and DICOM format) to the QIDW and Dr. Soltysik to upload an additional 29 DRO datasets as needed

fMRI Language-Mapping Profile 2.0

- Discussion on ways to stimulate interest in Profile 2.0
- Initial work for 2.0 to begin:
 - Literature search and discussion of results needed; Dr. Reuss already has an initial collection of articles on Google drive
 - Timeline with topics for upcoming calls to be developed
 - Claims (goals) to be identified; focus and methodology to be determined
- Language groundwork data to be discussed during April 24 fMRI Bias TF call; Dr. Soltysik to discuss parameters for creating synthetic DROs as well

Next calls:

- QIBA fMRI Bias TF call – Tuesday, April 24, 2018 at 1 PM CT
- QIBA fMRI Biomarker Committee call – Wednesday, May 2, 2018 at 11am CT

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