

QIBA fMRI Biomarker Committee (BC) Call

Wednesday, May 31, 2018 at 11 AM CT

Call Summary

In attendance

Feroze Mohamed, PhD (Co-chair)

Jay Pillai, MD (Co-chair)

David Soltysik, PhD (Co-chair)

Cathy Elsinger, PhD

Ping Hou, PhD

Nancy Obuchowski, PhD

Flavius Raslau, MD

Jim Voyvodic, PhD

RSNA

Joe Koudelik

Susan Stanfa

Review of Previous Call Summary

- The 05.02.18 call summary was approved as presented

2018 QIBA Annual Meeting

- fMRI representation included CC, BC and TF leaders: Drs. Elsinger, Mohamed, Soltysik, and Voyvodic
- As federal support from the NIBIB contract has ended, the 2018 QIBA Annual Meeting was scaled back, both in size and in the amount of travel support; funding support for eligible attendees for future QIBA Annual Meetings may be further reduced
- Discussion on QIBA Profiles and checklists
 - Both documents should contain only information that is essential for quantitative Claims being made
 - Profiles are not considered best practice manuals, but these details may be included in an appendix if deemed necessary
 - Steering and Coordinating Cmte members continue to remind Biomarker Cmte and other QIBA stakeholders that every Profile does not need to progress through all five stages to be declared successful
 - Technical Confirmation (Stage 3) is sufficient in some cases
 - Significant costs are associated with Stage 5: Clinically Confirmed, which is not practical in many cases and is not a required end point
 - Information regarding Profile stages can be found on the QIBA Wiki at:
http://qibawiki.rsna.org/index.php/QIBA_Profile_Stages
 - The fMRI Motor Mapping Profile is currently in Stage 1: Public Comment and will enter Stage 2: Consensus after:
 - All public comments have been addressed and issues are resolved as reflected in a consensus draft of the Profile or clearly listed in the open issues section of the Profile
 - A Vote-to-Publish ballot asking fMRI BC members to approve that the content of the Profile meets the criteria for consensus; majority affirmative vote needed
 - MR CC leadership asks voting MR CC members to approve the Consensus Profile for publication
 - The full review process is located on the QIBA Wiki at:
http://qibawiki.rsna.org/index.php/Review_Process
 - Further fMRI BC discussion on goal stage is needed; funding will be a significant consideration
- QIBA funding and sustainability was one of the main topics of discussion at the 2018 QIBA Annual Meeting
 - In absence of NIBIB funding, QIBA receives considerable support from RSNA

- The QIBA Sustainability Task Force, led by Dr. Annette Schmid, has made efforts to seek out funding resources
 - Modality or BC-specific alliances/collaboration with other organizations or foundations for groundwork support, e.g. ACR, QIN, EIBALL, clinical trial groups
 - QIBA products including Profiles, DROs phantoms, etc. are potential revenue streams, but new hurdles such as monitoring and managing revenue would be encountered
 - QIBA continues to discover its market and needs ways to convince clinical users that quantitation is necessary, eventually leading to QIBA performance accreditation

Future of fMRI BC

- Discussion on the need for fMRI BC to define, focus on and commit to goals and a plan
 - Improving patient care and reliability of technique; opportunities exist for fMRI as a clinical outcomes measure
 - Increase member engagement and recruitment for fMRI BC efforts
 - Each t-con needs to be productive and focused on making progress
- Promoting quantitation in MR imaging would benefit vendors in that:
 - Profiles provide valuable input on features, functions and capabilities that should be made available to the end user and
 - Steps required to increase precision and provide the best tool on the market are specified
- From an end user's standpoint, there is clinical application, but the value is in the standardization of acquisition and analysis methods for clinical trials and research
- Funding will become a significant issue at some point and fMRI BC members may not have time to devote to these efforts
- RSNA staff to continue administrative support of the fMRI BC regarding webinars (communication and information-sharing), but funding for groundwork projects will not be available
- Greater visibility of fMRI efforts is needed to illustrate value and acquire funding

Continued Review of QIBA Checklist: "fMRI Center of Mass Estimation for Pre-surgical Assessment (fMRI-CMA)"

- After Dr. Mohamed makes an adjustment to section b, the checklist will be distributed to the wider fMRI BC membership for internal review and feedback; a clean version of Profile to be included as a reference
- Staff to send BC leaders a list of BC members who have participated in one or more t-con over the last 3 – 4 months
- Reviewers to respond to all content based on their experience; comments are welcome
- Point person for collecting and compiling feedback needs to be designated
- Feedback may result in modifications of the checklist

Next Steps

- Profile 1.0 feedback received during the public comment phase needs to be resolved and incorporated into the next draft
- Once feedback is resolved, the fMRI BC & MR CC will need to vote to publish it as Stage 2: Consensus
- There will not be a call on June 13 due to reallocation of the time slot to the quarterly MR Coordinating Committee t-con

- fMRI BC to reconvene on June 27; Drs. Elsinger and Mohammed will not be available for this call, but will work offline in the meantime

Next calls:

- QIBA fMRI Bias TF call – Tuesday, June 5, 2018 at 1 PM CT
- QIBA fMRI Biomarker Committee call – Wednesday, June 27, 2018 at 11am CT [June 13 time slot reallocated to MR Coordinating Cmte]

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