

QIBA fMRI Biomarker Committee Call Summary
Wednesday, May 18, 2016 at 11 AM CDT
Call Summary

In attendance

James Reuss, PhD (Co-Chair)

Andrew Kalnin, MD

Feroze Mohamed, PhD

Nancy Obuchowski, PhD

Jay Pillai, MD

David Soltysik, PhD

James Voyvodic, PhD

Kirk Welker, MD

RSNA

Joe Koudelik

Susan Weinmann

Moderator: Dr. Reuss

Review of Previous Call Summary

- The 05.04.2016 call summary was approved as presented

Profile 1.0 draft review – work to date addressing comments

- Dr. Mohamed to follow up with Drs. Elsinger & DeYoe regarding progress on updates
- When final updates are made, Profile is to undergo internal fMRI BC review/comment period
- Once internal review is completed, the next step is to distribute the Profile for public comment (to the entire QIBA cross-modality membership)
- Dr. Pillai has collaborated with groups outside of QIBA in efforts for standardization in fMRI
- Groups other than QIBA have focused on quality-control recommendations as one aspect of standardization, while QIBA groups are concerned with setting guidelines for quantitative data acquisition, processing and analysis
- The goal of the fMRI Profile is to raise the performance bar and describe how to do fMRI quantitatively
- Gaps in the Profile and what is needed to make it quantitative will be determined
 - Extent of motion allowable to get reproducible results to be provided
 - Guidelines or range of values to be identified
 - DRO results demonstrating a quantitative index process to detect activation to be incorporated
 - Signal thresholding detail needed (e.g., AMPLE normalization, etc.)
- While there is much advice in the literature on how to do clinical fMRI, people will turn to QIBA to learn how to do fMRI *quantitatively*
- The Profile may be useful for research, especially clinical research; but numerous other organizations (e.g. fBIRN, COBIDAS) have formalized 'standards' or recommendations for fMRI research
- The use of fMRI is growing, and guidance from QIBA would benefit anyone new to this technology
- Unresolved issues can be addressed in the next version of the fMRI Profile (v2.0)

Old Business

- The MR Coordinating Committee met on Thursday, May 5 to discuss Round-6 proposals
- Dr. Voyvodic to submit progress report for Round 5 project and incorporate feedback into an updated draft of his Round 6 project proposal

New Business

- Updates are being made to the QIBA wiki
- Feedback on the QIBA wiki can be submitted to giba@rsna.org
- The fMRI Bias TF call scheduled for June 7 will need to be moved to a different time slot, due to a conflicting mandatory RSNA staff meeting – RSNA staff to send out Doodle poll

Next calls:

- QIBA fMRI Bias TF call - Tuesday, May 24 at 10am CDT
- QIBA fMRI Biomarker Committee call - Wednesday, June 1 at 11am CDT