

QIBA fMRI Biomarker Committee Call Summary
Wednesday, August 26, 2015 at 11 AM CT
Call Summary

In attendance

Ted DeYoe, PhD (Co-Chair)

James Reuss, PhD (Co-Chair)

Thomas Chenevert, PhD

Cathy Elsinger, PhD

Dariya Malyarenko, PhD

Feroze Mohamed, PhD

David Soltysik, PhD

James Voyvodic, PhD

Zhiyue Jerry Wang, PhD

Kirk Welker, MD

RSNA

Fiona Miller

Susan Weinmann

Moderator: Dr. Reuss

Review of Previous Call Summary

- The August 12 call summary was approved as presented

Round 4 Project Status Update (Drs. DeYoe, Voyvodic and Pillai)

- Dr. DeYoe reported that each group of head-motion DROs is increasing maximum motion amplitude
 - The first set was modeled on existing data whose effects were mild
 - Subsequent sets were created to represent head motion > 4 mms of translation
 - The intention was to model real head offsets that were sustained for multiple TR
 - Translations and rotations were done with ramp speed that was full amplitude across entire TR
 - Motor cortex effects are dependent on type (direction) of translation
 - Motion was distributed across the scan to increase amplitude sufficiently for the profile claim to be negated
 - The profile claim was not negated until the amplitude was increased to above 2 voxel widths
 - Dr Voyvodic suggested that in the future, the data be displayed as plots over the course of time
- Dr. Soltysik created fMRI DROs with varying amounts of maximum cumulative motion and posted the datasets on the QIDW
- Project PIs should submit Round 4 progress reports this week (deadline: 8/31)

NIBIB Year 5 Proposal: Budget Feedback (Drs. Voyvodic and Pillai)

- Nothing new to report at this time

Profile Development (Dr. Mohamed)

- Dr. Mohamed displayed the current version of the profile
- Any updates that have not been already made will be done

- Group members discussed the table in Section 3.2.2.1
- Dr. Voyvodic will look up what parameters are used by the fBIRN (references listed below)
 - <http://www.birncommunity.org/resources/supplements/fbirn-recommendations-for-multi-center-fmri-studies/supplement-iv-fbirn-quality-assurance-program/>
 - <http://www.birncommunity.org/resources/supplements/fbirn-recommendations-for-multi-center-fmri-studies/supplement-iii-fbirn-scan-parameters/>
 - <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3349791/pdf/nihms342930.pdf>
- Dr. Wang will look into ACR guidelines
- Values that are needed in the profile will be derived from DROs

Other Business

- Dr. Soltysik encouraged group members to download the datasets that he uploaded to the QIDW
- Datasets will be discussed on the next call

Next calls:

- QIBA fMRI Bias TF call - Tuesday, September 1 at 10am CT
- QIBA fMRI Biomarker Committee call - Wednesday, September 9 at 11am CT