

QIBA fMRI Biomarker Committee Call Summary
Wednesday, February 24, 2016 at 11 AM CST
Call Summary

In attendance

Edgar DeYoe, PhD (Co-Chair) Jay Pillai, MD
Thomas Chenevert, PhD David Soltysik, PhD
Edward Jackson, PhD James Voyvodic, PhD
Feroze Mohamed, PhD Zhiyue Jerry Wang, PhD

RSNA

Joe Koudelik
Susan Weinmann

Moderator: Dr. DeYoe

Review of Previous Call Summary

- The February 10 call summary was approved as written

Profile 1.0 status draft (Dr. Mohamed, et al.) – MEETING FOCUS

- Dr. DeYoe to add content to the Profile regarding DRO head motion results
- Dr. Soltysik to include his DRO analysis details
- Dr. Pillai to add content to the Profile regarding DRO language task results
- Drs. Elsinger, DeYoe and Mohamed to make all updates to Profile and distribute to group
- Polished draft to be ready for review and discussion at the QIBA Annual Meeting in April

NIBIB year 5 project status (Drs. Voyvodic & Pillai)

- Language scans were reprocessed and QA stats were obtained at Duke
- Subjective quality assessments were conducted for all of the scans
- Correlation of automated scans with subjective assessments is being examined
- 4 – 5 years of clinical data are being reviewed at JHU
- More than 50% of all data analysis has been completed at JHU
- QC metrics will be inspected and subset to be selected; over half of all cases studied were of high QC status
- The two most commonly-used language paradigms to be assessed for reproducibility
- Original target number of subjects was 30 – 60; approximately 50 subjects will be included
- Dr. Voyvodic preparing to submit his 3-month progress report to RSNA staff

Profile 2.0 general discussion of scope (all)

- While version 1.0 focused on motor-mapping, 2.0 will expand upon that and focus on language
- Dr. DeYoe encouraged fMRI BC members to send topics or ideas to him for Profile 2.0
- Dr. Jackson explained that the current Profile Template (January 2016), posted on the QIBA Wiki at: http://qibawiki.rsna.org/index.php?title=Main_Page is mature and significant changes are not expected any time soon
- The Profile Staging document can also be found on the wiki at: http://qibawiki.rsna.org/index.php?title=Main_Page
- The revised Profile template will be used for version 2.0 of the fMRI BC Profile; Profile version 1.0 will not be reformatted

QIDW

- As a new member, Dr. Voyvodic provided a brief update of the Feb 23rd QIDW Oversight Committee teleconference
- Based on Kitware infrastructure/software, the QIDW has three main uses:
 - Repository of uploaded data (phantom, DRO, etc.) for general public access -- to test vendor algorithms against, etc.
 - Repository of uploaded data used to supporting Profile claims – useful for FDA BM validation, etc.
 - Conformance use – to help demonstrate Profile conformance by uploading imaging results for semi/automated cloud computing
- The suggestion was made to have a thorough discussion regarding the following aspects of the QIDW:
 - The future of the QIDW
 - Current and past uses
 - Functionality
 - Usability
 - Accessibility
 - Usefulness
 - Assets/Challenges of the QIDW
 - Cloud-based computing on QIDW
 - Short-term and long-term goals for QIBA groups in regard to the QIDW
- A curation process is now in place for those who want to upload clinical subject data
- QIBA investigated NITRC's product after being approached by representatives

QIBA Annual Meeting: April 13 – 14, 2016 at the Hilton Alexandria Old Town in Alexandria, VA

- The suggestion was made to hold a discussion regarding QIDW use-cases
- The majority of breakout session time will be spent on the Profile
- The updated Profile and agenda for the fMRI breakout session will be distributed to fMRI BC members prior to the QIBA Annual Meeting

NIBIB round 6 – request for proposals

- The timeline for round 6 projects has been distributed
- Project topics should be submitted directly to BC leaders asap
- The deadline for first draft submissions is April 15

Next calls:

- QIBA fMRI Bias TF call - Tuesday, March 15 at 10am CST
- QIBA fMRI Biomarker Committee call - Wednesday, March 9 at 11am CST