

QIBA fMRI Biomarker Committee (BC) Call

Wednesday, July 11, 2018 at 11 AM CT

Call Summary

In attendance

Feroze Mohamed, PhD (Co-chair)

David Soltysik, PhD (Co-chair)

Cathy Elsinger, PhD

Andrew Kalnin, MD

Flavius Raslau, MD

Jim Voyvodic, PhD

RSNA staff

Susan Stanfa

Review of Previous Call Summary

- The 06.27.18 call summary was approved as presented

Distribution of Profile 1.0 and the Checklist

- Discussion regarding the procedure for checklist distribution continued
- Dr. Mohammed to forward the latest drafts of the checklist and Profile to BC leaders for revision, prior to distribution to core fMRI BC membership
 - “Core fMRI BC membership” includes those who have participated in one or more t-con over the previous 6 months
- Discussion on content of instructional text to be sent with checklist:
 - Reviewers to respond to all content based on their experience; comments are welcome
 - It is crucial for reviewers to try to perform tasks outlined in the Profile they may not presently do routinely in order to report whether they are feasible
 - It is also critical for reviewers to report the reason when they have difficulty performing a task or are unwilling to do it so that the fMRI BC leadership can address the issue
 - An August or September fMRI BC t-con will be devoted to discussion on issues with the checklist as reported by reviewers
 - Due to the summer holiday season, at least 2 months will be allowed for feedback from core fMRI BC members
- Feedback from core fMRI BC members may result in modifications of the checklist prior to distribution to a broader audience
- Dr. Elsinger reported that Dr. Anthony Liu from MD Anderson has been added to fMRI BC roster and that he would make valuable contributions to the group’s efforts
- Dr. Elsinger to finish collating Profile 1.0 public comments and will discuss this during the July 25 fMRI BC t-con

Neuroimage Special Issue on Reproducibility

- Call for papers located at: <https://www.journals.elsevier.com/neuroimage/call-for-papers/reproducibility-in-neuroimaging>
 - Submission portal to open: July 15, 2018
 - Deadline for submission: November 15, 2018
 - Acceptance date: April 1, 2019
 - Expected publication: June/July 2019

- fMRI BC members considering possible submission
 - Dr. Voyvodic’s study revealed issues with reproducibility in a multicenter context; perhaps an article presenting methods to remedy this could be submitted
 - Suggestion to submit an abstract regardless of whether work is completed by November 15

- Discussion regarding a reproducibility study by Gorgolewski KJ, et al. using public test-retest data sets with motor, language and spatial attention functions, located at:
 - <https://gigascience.biomedcentral.com/articles/10.1186/2047-217X-2-6>
 - <https://www.sciencedirect.com/science/article/pii/S1053811912010890>
 - Dr. Voyvodic continues his work with motion DROs, adding task-correlated motion to DRO motion repertoire to see its impact on activation maps; discussion to continue during the next fMRI Bias TF call scheduled for 7/17

- PLOS one paper by Leuthardt was provided by Dr. Soltysik and distributed by RSNA Staff, “Integration of resting state functional MRI into clinical practice - A large single institution experience” by Leuthardt et al.:
 - <http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0198349>
 - This paper made strong claims about resting state functional MRI; links to additional literature on this topic can be found in the “References” section
 - Discussion was had over the unexpectedly large failure rate of 39% reported in the paper for task-based fMRI used in presurgical planning

- Dr. Pillai will be unavailable to attend/moderate calls through mid-July

Next calls:

- QIBA fMRI Bias TF call – Tuesday, July 17, 2018 at 1 PM CT
- QIBA fMRI Biomarker Committee call – Wednesday, July 25, 2018 at 11am CT

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