QIBA fMRI Biomarker Committee (BC) Call
Wednesday, July 11, 2018 at 11 AM CT

Call Summary

In attendance
Feroze Mohamed, PhD (Co-chair)  Cathy Elsinger, PhD  Flavius Raslau, MD
David Soltysik, PhD (Co-chair)  Andrew Kalnin, 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
  o “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:
  o Reviewers to respond to all content based on their experience; comments are welcome
  o 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
  o 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
  o An August or September fMRI BC t-con will be devoted to discussion on issues with the checklist as reported by reviewers
  o 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
  o Submission portal to open: July 15, 2018
  o Deadline for submission: November 15, 2018
  o Acceptance date: April 1, 2019
  o 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:
  - 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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