

QIBA fMRI Biomarker Committee (BC) Call

Wednesday, March 20, 2019 at 11 AM CT

Call Summary

In attendance

Feroze Mohamed, PhD (Co-chair)

Jay Pillai, MD (Co-chair)

Ping Hou, PhD

Andrew Kalnin, MD

James Voyvodic, PhD

Xue Wang, PhD

Yuxiang Zhou, PhD

RSNA staff

Joe Koudelik

Susan Stanfa

Review of Previous Call Summary

- The 03.06.2019 call summary was approved as presented

New Member

- Dr. Xue Wang, PhD, with Invicro, a Konica Minolta Company, was introduced
 - Conducts drug trials for neurodegenerative diseases
 - Performs pre- and post-treatment resting-state fMRI

Potential fMRI BC Groundwork Project

- The Sustainability Implementation Group (SIG) has requested that all QIBA modalities (CT, MR, NM, US CCs) provide up to 3 groundwork projects that would help advance the current Profiles
- The fMRI biomarker committee has been exploring potential projects to be submitted to the SIG group by April 15th
- As a possible focus, fMRI BC members discussed papers on quantitative aspects of resting state analysis, and how this could be applied to neurodegenerative disease and clinical trials
- Resting state on sensorimotor network to be used as a metric; in principle, it could be applied to any other network if reproducible
- Suggestion to focus on groundwork projects that improve measurement reproducibility (not standardization itself)
- Committee consensus was that resting state fMRI was the top choice for this submission; if accepted, a full proposal to be submitted at a later time
- Staff sent out a template for submitting project description (Project title, PI, rough budget, 3-4 sentence description will need to be submitted...a half page maximum)
- In preparation for continued discussion during the March 26 fMRI Bias TF call, fMRI BC members to be asked whether they have resting state and task-based data on the same patients (language or motor), and if they would be willing to share this data for the group projects
 - If centers cannot share data, it may be acceptable if individual institutional data analysis can be performed using such data or resting state fMRI data alone for reproducibility assessments
- Suggestion to break down project into separate functions (data analysis, etc.) to be performed by expert fMRI BC volunteers

Next calls:

- QIBA fMRI Biomarker Cmte call – **Wednesday, April 3, 2019** at 11am CT - 1st & 3rd weeks of the month
 - QIBA fMRI Bias TF call – **Tuesday, March 26, 2019** at 1 PM CT - 2nd & 4th weeks of the month
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