

QIBA fMRI Biomarker Committee (BC) Meeting

Wednesday, April 20, 2022, at 11 a.m. (CT)

Meeting Summary

In attendance

Feroze Mohamed, PhD (Co-chair)

Jay Pillai, MD (Co-chair)

David Soltysik, PhD (Co-chair)

Shruti Agarwal, PhD

Ping Hou, PhD

Ichiro Ikuta, MD, MMSc

Anthony Liu, PhD

Nancy Obuchowski, PhD

James Voyvodic, PhD

Francisco Zamorano, PhD

Yuxiang Zhou, PhD, DABR

RSNA staff

Susan Stanfa

Review of Previous Meeting Summary

- The 03.16.2021 meeting summary was approved as presented

Topics Discussed:

- Proposed edits in Section 3.9: Image Analyst Checklists (continued)
- Dr. Voyvodic's quantitative data quality manuscript

Next Steps / Action Items:

- The plan is to continue to focus on edits to Section 3, then import requirements into appendix A
- fMRI BC members were encouraged to continue providing edits to the Profile distributed by staff
- Dr. Voyvodic aims to submit manuscript based on quantitative data quality study conducted in collaboration with Dr. Sánchez Domínguez to *JMRI* before Apr. 23
 - Subjective QA of all maps in standard format by two raters using 3-point scale
 - Included both language (silent sentence completion task presented with text on screen) and motor tasks (bilateral hand movement)
 - Majority of subjects were patients, but some healthy volunteers were also included
 - QC thresholds corresponding to subjective good/bad ratings were identified
 - With both language-mapping and motor-mapping, a t-value of half max of four (based on a peak t-value threshold of eight) was determined to be the best predictor of image quality and is the target level of reproducibility to meet the Claims
 - Suggestion to include a comparison of Dr. Voyvodic's and Dr. Domínguez's ratings
 - Once this QC-related manuscript is published, the manuscript on the reproducibility aspect will be submitted for publication
- Dr. Voyvodic's papers will be cited in the Profile once they are published
- Drs. Elsinger and Soltysik to attend [May 3 Process Cmte meeting](#) to discuss fMRI BC progress toward Public Comment (stage 1) and barriers to advancement

Next meeting: Wednesday, May 4, 2022, at 11 a.m. CT (1st & 3rd weeks of each month)

RSNA Staff attempt to capture all committee members participating in Zoom meetings. However, if attendees join only by phone, or do not use a recognizable name, identification is not possible. Participants are welcome to contact RSNA staff at giba@rsna.org if their attendance is not reflected in meeting summaries.