

QIBA fMRI Biomarker Committee (BC) Meeting

Wednesday, November 2, 2022, at 11 a.m. (CT)

Meeting Summary

In attendance

Jay Pillai, MD (Co-chair)

David Soltysik, PhD (Co-chair)

Shruti Agarwal, PhD

Cathy Elsinger, PhD

Ichiro Ikuta, MD, MMSc

Andrew Kalnin, MD

Ho-Ling (Anthony) Liu, PhD

Judd Storrs, PhD

Kiran Talekar, MD

James Voyvodic, PhD

RSNA staff

Susan Stanfa

Review of Previous Meeting Summary:

- The 10.19.2022 meeting summary was approved as presented

Topics Discussed:

- Latest revisions to the Profile

Next Steps / Action Items:

- Procedures in Appendix A.9: Image Analysis
 - This activity includes image processing steps and procedures that constitute good practice for analyzing fMRI activation, but are not necessary for meeting the Profile Claim
 - Feedback was requested regarding the following subsections: Image Motion Correction, Anatomical Registration, Statistical Parametric Map Generation, ROI Identification, Activation Map Thresholding
 - Goal is to identify and indicate the minimum steps required for performance to meet the Claim, e.g., slice timing and using brain mask not mandatory but information will be made available to Profile user
 - Statistical parametric map generation: recommendation is to use the standard procedures in the software packages
 - Testing by Dr. Voyvodic determined that as long as site procedures for generating activation maps meet the QA criteria in the Profile, the Claim will hold
 - **Dr. Storrs will complete the A.9: Image Analysis subsections based on fMRI BC feedback**
- Minor changes were made to Section 3.9 Image Analyst Checklist items
- Redundant tables were removed from A.2
- A.9. Subsections were reordered and reformatted
- Dr. Voyvodic provided analysis procedures and examples of Laterality Index calculations as well as calculations for locations of activations in clusters to match the methods of his studies that support the reproducibility Claim; figures were also added
- Staff to send Dr. Pillai a list of fMRI BC members planning to attend the Nov. 30 Quantitative Imaging Symposium hosted by QIBA (formerly known as the QIBA Working Meeting) during the 2022 RSNA Annual Meeting

Next meeting: Wednesday, November 16, 2022, at 11 a.m. CT (1st & 3rd weeks of each month)

Join Zoom Meeting: <https://rsna-org.zoom.us/j/87552084926?pwd=eU9MWGV6a3JWRHlkZ0wzdEZsK3JoQT09>

Meeting ID: 875 5208 4926

Passcode: fMRI

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