

## QIBA fMRI Biomarker Committee (BC) Meeting

Wednesday, January 4, 2023, at 11 a.m. (CT)

### Meeting Summary

#### In attendance

Jay Pillai, MD (Co-chair)

David Soltysik, PhD (Co-chair)

Cathy Elsinger, PhD

Erin Kelly, PhD

Anthony Liu, PhD

Kiran Talekar, MD

James Voyvodic, PhD

Yuxiang Zhou, PhD, DABR

#### RSNA staff

Susan Stanfa

#### Review of Previous Meeting Summary:

- The 12.07.2022 meeting summary was approved as presented

#### Topics Discussed:

- Timeline for first Profile draft
- Remaining open Profile issues

#### Next Steps / Action Items:

- Discussion on Fig 1 in Section 1.1 Clinical Context: mapping the primary language areas for use in planning and guiding brain surgery or radiation treatment
  - Focus is on reproducible data in only the critical language areas in this first Profile iteration; supplemental language areas may be included in a future version
  - This figure is based on Dr. Voyvodic's data reanalysis and should be considered final
  - Linking to DICOM or NIFTI files that could be downloaded for a clearer view of the image was suggested
- **Dr. Voyvodic to check values in Reproducibility Claim 1 and examine confidence intervals for the activation peak**
- Section 3.4 Image Analysis Tool Checklist: while not required for meeting Claim, discussion about visible inspection and threshold adjustment best practices to be added
- Section 3.10 Conformance Testing Checklist: discussion re: DROs and tools for performing conformance testing
  - 10 DROs are available for download in the QIDW, but 30 pairs of scans from the same session are needed
  - Links to DROs and atlas as well as software tools, e.g., SPM scripts, Nordic plugins, or a standalone tool, etc. would need to be made available
  - **Dr. Talekar to discuss with his team, performing image analysis steps, including computing specific locations of peaks or centers of mass values, using an SPM standalone tool; Dr. Voyvodic will make the DROs available for download on his website**
- Work is still needed on Section 4: Assessment Procedures
- **Dr. Storrs to edit text in Appendix A.9 and Dr. Soltysik to reformat references**
- **Dr. Pillai made edits to Appendix B and staff will distribute latest version of the Profile for fMRI BC review**
- The first Profile draft deadline has been extended; later steps include:
  - Release Profile to BC subgroup to evaluate checklists
  - Circulation for full BC review and a vote-to-release for Stage 1: Public Comment
  - MR CC vote-to-release will follow

**Next meeting:** Wednesday, January 18, 2023, at 11 a.m. CT (1<sup>st</sup> & 3<sup>rd</sup> weeks of each month)

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

Meeting ID: 875 5208 4926 | Passcode: fMRI