

## QIBA fMRI Biomarker Committee (BC) Meeting

Wednesday, December 6, 2023, 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

Mai-Lan Ho, MD

Ichiro Ikuta, MD, MMSc

Andrew Kalnin, MD

Erin Kelly, PhD

Anthony Liu, PhD

Balu Rajagopalan, PhD

Judd Storrs, PhD

Kiran Talekar, MD

James Voyvodic, PhD

Yuxiang Zhou, PhD, DABR

#### RSNA staff

Susan Stanfa

#### Review of Previous Meeting Summary:

- The 11.15.2023 meeting summary was approved as presented

#### Discussion Topics

- Multisite analysis DRO project data and reproducibility study updates
- QIBA fMRI Language-Mapping Profile 2.0

#### Action Items

- Multisite analysis DRO project data and publication
  - Issues with data from a couple of sites were identified and fixed
  - Dr. Voyvodic analyzed activation maps, calculated statistics for the reactivations, and documented differences between sites
    - Laterality maps, locations of activations, cluster centers and peaks were similar across sites, but not identical; a final comparison will be done after registration
    - The author list of this paper will include those who have analyzed data and/or been involved in related discussions
- A bug in the reproducibility study cluster algorithm was identified and fixed; clusters will be regenerated for an improved result
- While the fMRI Profile will be refined and finalized, it will not be advanced past current Profile development (Stage 0), i.e., it will not be disseminated for public comment
  - Clarification was provided regarding an activation quality control specification
  - Duplication between Section 4 Assessment Procedures text and Section 3 tables was reduced

#### Next Steps

- Staff to ask fMRI BC members if they would like to opt in of receiving email communications following the Dec. 22 QIBA transition to QUIC
- Dr. Voyvodic to send multisite analysis DRO project data to Dr. Talekar for his review
- Dr. Voyvodic to consult Dr. Obuchowski regarding the confidence interval aspect of Reproducibility Claim 2
- Dr. Soltysik to send the latest version of Profile to Dr. Storrs who will finish edits by Dec. 11 and send to staff for circulation
- The Profile will be posted on the dedicated fMRI Committee page once it is finalized
- The last RSNA staff-supported meeting will be held on **Wednesday, December 20, at 11 a.m. CT**
  - fMRI efforts to continue as an independent Profile-writing group after Dec. 22; Dr. Mohamed to look into hosting bi-weekly calls through his institutional Zoom account
  - Call frequency may be reduced to a monthly basis once the Special Report has been completed