

QIBA fMRI Biomarker Committee (BC) Meeting

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

Meeting Summary

In attendance

David Soltysik, PhD (Co-chair)

Ichiro Ikuta, MD, MMSc

Andrew Kalnin, MD

Erin Kelly, PhD

Anthony Liu, PhD

Nancy Obuchowski, PhD

Judd Storrs, PhD

Kiran Talekar, MD

James Voyvodic, PhD

Yuxiang Zhou, PhD, DABR

RSNA staff

Susan Stanfa

Review of Previous Meeting Summary

- The 01.19.2021 meeting summary was approved as presented

Topics Discussed:

- Update on Dr. Voyvodic's reproducibility study
- Section 4 Assessment Procedures

Next Steps / Action Items:

- Dr. Voyvodic's reproducibility study takeaways included the following:
 - Analysis indicated that Peak activation (t value) was the best indicator of good data quality, with stability across both language-mapping and motor-mapping scans
 - Number of active voxels (or size of activation) was an acceptable indicator of data quality
 - Whole brain at peak is the best parameter and is simple to calculate
- 3.7 Technologist scan parameters to be moved to "fMRI Specialist"
- 4.1 Assessment Procedure: "fMRI Center-of-Mass Reproducibility" was updated to "fMRI Location Reproducibility"
- DROs to be created for 4.1 and 4.2 Assessment Procedure: fMRI Laterality Index Reproducibility to help site to assess whether Claim is on target
 - DROs to be added to the QIDW and link to be added to Profile
 - When a Profile has not yet advanced to Claim-Confirmed (stage 4), sites will need to perform test-retest reproducibility scans to make sure that their data match the Claims
 - The BC will need to perform the assessment procedure to advance to stage 4 and demonstrate that their Claims are on target
 - fMRI BC members were invited to analyze DROs
- fMRI BC Co-chair to attend [Feb. 15 Process Cmte meeting](#) to provide feedback on experience using the new Profile template; Zoom details to be forwarded

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

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