

QIBA fMRI Biomarker Committee (BC) Meeting

Wednesday, September 21, 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)

Cathy Elsinger, PhD

Ichiro Ikuta, MD, MMSc

Andrew Kalnin, MD

Nancy Obuchowski, PhD

Judd Storrs, PhD

James Voyvodic, PhD

Yuxiang Zhou, PhD

RSNA staff

Susan Stanfa

Review of Previous Meeting Summary

- The 9.07.2022 meeting summary was approved as presented

Topics Discussed:

- Section 3.9: Image analysis checklist: Weighted Center of Mass of Activation (wCMA) or peak
- Neurosurgeon requirements for pre-surgical planning regarding various ROI approaches
- Lack of standardization in current post-processing and thresholding approaches
- Assessment Procedures

Next Steps / Action Items:

- Rationale needed regarding the benefits on precision of each method (ROI clusters vs. anatomical based approaches)
- Suggested focus on developing Claims based on reproducibility; new Profile Claim needed to support single peak cluster approach
- Once the Profile is completed, a publication focusing on how it addresses specific needs of the community was suggested, e.g., making fMRI reproducible addresses issues such as sensitivity and reliability
- Dr. Voyvodic to provide an explanation to Dr. Soltysik regarding the peak cluster algorithm/method for others to reproduce results for incorporation into the Profile
- Commercial software package for analysis procedure unavailable; means to do calculations needs to be provided to Profile users
 - Suggestion to provide a tool and DROs
- Additional detail related to the Section 3 activities requirements to be added to Appendix A
- Section 4: Assessment Procedures needs to be completed

Plan for completing Profile draft

- Dr. Soltysik to develop an outline of sections needing work for fMRI BC circulation
- Dr. Voyvodic to focus on data analysis aspects
- Dr. Elsinger to focus on methodology / procedural aspects; Drs. Pillai and Storrs volunteered to help
- The new deadline for a completed draft is the RSNA Annual Meeting; four fMRI BC meetings remain

Next meeting: Wednesday, October 5, 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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