

## QIBA fMRI Biomarker Committee (BC) Call

Wednesday, August 4, 2021, at 11 a.m. (CT)

### Call Summary

#### In attendance

Jay Pillai, MD (Co-chair)

David Soltysik, PhD (Co-chair)

Shruti Agarwal, PhD

Cathy Elsinger, PhD

Ichiro Ikuta, MD, MMSc

Erin Kelly, PhD

James Voyvodic, PhD

Francisco Zamorano, PhD

Yuxiang Zhou, PhD, DABR

#### RSNA staff

Joe Koudelik

Susan Stanfa

#### Review of Previous Call Summary

- The 07.21.2021 call summary was approved as presented

#### fMRI Language-Mapping Profile v2.0 Profile-Writing

- Dr. Liu had completed the framework of the fMRI Language-Mapping Profile v2.0 in late 2019, based on boilerplate text copied from the Motor-Mapping Profile v1.0
- fMRI Co-chairs/Profile editor met with Process Committee Leaders, Mr. O'Donnell (Chair) and Dr. Boss (Vice chair) on July 30<sup>th</sup> to discuss Profile streamlining efforts
  - Drs. Liu, Mohamed, Pillai, and Soltysik have decided to adopt this new Profile structure and Dr. Liu volunteered to convert the fMRI v2.0 Profile framework to this updated format
- Section 2.1: Clinical Context and Claim assumptions concerning the application of BOLD fMRI were discussed; the first relates to fMRI neuro-vascular-coupling and the second assumption is concerning functional specificity
- Once the details of the Claims are finalized, the wording of the assumptions will be revisited
- Profile-writing tasks will be assigned when the new Profile template is ready; Drs. Elsinger and Mohamed had volunteered for assignments

#### Update on Language-Mapping Reproducibility Studies

- Dr. Voyvodic to submit two papers for publication based on the language-mapping reproducibility study; this work is informing the fMRI Language-Mapping Profile v2.0 and will support its Claims
- He had circulated his first paper focused on QC, the data quality constraints, and laterality Claims for achieving the target level of reproducibility; feedback that would not require lengthening the manuscript was welcomed
- Minor changes to facilitate understanding of the data have already been made
- The manuscript will be submitted to *Radiology* for publication within the next 1-2 weeks
- The fMRI BC will need to decide what data should be incorporated into the Profile and how to include the quality control procedures

**Next call:** Wednesday, August 18, 2021, at 11 a.m. CT (1<sup>st</sup> & 3<sup>rd</sup> weeks of each month)

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