

# QIBA fMRI Biomarker Committee (BC) Call

Wednesday, July 25, 2018 at 11 AM CT

Call Summary

## In attendance

*Feroze Mohamed, PhD (Co-chair)*

*Jay Pillai, MD (Co-chair)*

*David Soltysik, PhD (Co-chair)*

Shruti Agarwal, PhD

Cathy Elsinger, PhD

Ping Hou, PhD

Andrew Kalnin, MD

Anthony Liu, PhD

Nancy Obuchowski, PhD

Uma Ranjan, MSc, PhD

Jim Voyvodic, PhD

Jerry Wang, PhD

Yuxiang Zhou, PhD, DABR

## RSNA staff

Joe Koudelik

Susan Stanfa

## Review of Previous Call Summary

- The 07.11.18 call summary was approved as presented

## Announcements

- New fMRI BC member, Dr. Anthony Liu from MD Anderson, introduced himself and explained his interest in fMRI for pre-surgical mapping

## fMRI Motor-Mapping Profile 1.0 Update

- Dr. Elsinger reviewed edits made to the Profile and explained the process used to address public comments
  - Many comments were simple suggestions or wording changes
  - It was proposed that more complex feedback be discussed as a group during a line-by-line comment review

## Distribution of the Checklist

- Staff first distributed the check list to core fMRI BC members on July 16 and distributed revised documents on July 17
  - “Core fMRI BC membership” includes those who have participated in one or more t-cons over the previous 6 months
- The September 19 fMRI BC t-con will be devoted to discussing checklist issues as reported by reviewers
- The October 15 deadline allows at least 3 months for feedback from core fMRI BC members

## fMRI Language-Mapping Profile 2.0 Planning

- First step is to establish specific Claims relating to quantifiability and reproducibility; focus and methodology to be determined
- The co-registration issue in both Profile 1.0 and 2.0 was discussed
  - Optimal and acceptable methods need to be specified in 1.0
  - Discussion occurred regarding Dr. Liu’s paper, which suggests verifying co-registration without recommending a procedure, as procedures themselves are not always completely reliable
    - Suggestion to use information in headers regarding where images will be used
    - Recommendation to visually inspect and manually realign to be included in Profiles 1.0 and 2.0
  - Dr. Elsinger volunteered to draft Profile text (section 3.8.2) re: an agnostic co-registration process
  - Suggestion to add discussion on different approaches to Section 3.8.1: Image Processing

- Tables to contain “Shall language” specifications for co-registration, geometrical distortion and susceptibility void
- After Dr. Mohamed reconvenes with Dr. Reuss to request ownership of the Google fMRI Drive, which serves as a repository for fMRI-related literature and Profiles, he will send out access invitations to core members
- Literature review volunteers are needed

**Next calls:**

- QIBA fMRI Bias TF call – Tuesday, July 31, 2018 at 1 PM CT
- QIBA fMRI Biomarker Committee call – Wednesday, August 8, 2018 at 11am CT

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