

# QIBA fMRI Biomarker Committee (BC) Call

Wednesday, January 10, 2018 at 11 AM CT

Call Summary

## In attendance

*Feroze Mohamed, PhD (Co-chair)*

*Jay Pillai, MD (Co-chair)*

Ted DeYoe, PhD

Nancy Obuchowski, PhD

James Reuss, PhD

David Soltysik, PhD

James Voyvodic, PhD

Zhiyue Jerry Wang, PhD

Francisco Zamorano, PhD

## RSNA

Joe Koudelik

Susan Weinmann

## Review of Previous Call Summary

- The 12.13.2017 call summary was approved as presented

## fMRI Leadership Update (Dr. Pillai)

- Drs. Reuss and DeYoe stepped down as co-chairs in January 2018
- Dr. Mohammed, who has contributed considerable time and effort over the past several years was formally welcomed as a new fMRI BC co-chair

## Profile 1.0 Status Update

- On Dec. 15, RSNA staff sent out a “last chance to submit public comments” message to 1,000+ QIBA member list and 100+ sister association list
  - A few additional public comments were received before the Dec. 31 deadline
  - RSNA staff compiled all comments into a Google Sheet and provided the fMRI Gmail account with full editing privileges
- Address of public comments (consensus process) commenced
  - While there is no formal deadline for addressing comments, steady progress was encouraged
  - Focused on first comment, which suggested visual aids/screenshots/graphics of the process for calculating the weighted center-of-mass of a single focus of fMRI hand motor activation (wCMA)
    - The inclusion of a list of software packages was suggested
    - Clarification needed whether sites should perform assessment procedure (Section 4.5) before relying on their fMRI results or whether it is primarily meant for manufacturers to consider incorporating into their products
- Discussion ensued on 4.5.1 Assessment Procedure: fMRI Center-of-Mass Reproducibility (Claim)
  - Achievement of QIBA conformance will need to be demonstrated
  - Link to the Quantitative Imaging Data Warehouse (QIDW) at: <http://qidw.rsna.org/> included for data sets to help assess performance, or conformance to the Claims of this Profile
  - Dr. Voyvodic’s DROs are posted to the QIDW to help evaluate imaging site post-processing performance, but not to aid in Profile conformance assessment
  - Profile user needs to:
    - Be able to acquire data from the scanner that matches the QA measurement data within QIBA Profile specifications
    - Demonstrate that center-of-mass calculation is within QIBA Profile specifications

- Know what criteria to use to distinguish between good and bad scans
  - Assess bias and repeatability using the data provided
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- Profile conformance remains an issue to be addressed; real-world feasibility testing needed to determine if imaging sites would invest the extra time/effort outlined in the Profile
  - Discussion on fMRI Profile v1.0's usefulness for clinical practice
  - Suggestion to limit future fMRI BC agendas to a single topic to allow time for in-depth discussion
  - Update on Dr. Voyvodic's multisite DRO project & Round 5 project manuscripts in preparation to occur on January 24 fMRI BC call

**Next calls:**

- QIBA fMRI Bias TF call – Tuesday, January 16, 2018 at 1 PM CT
- QIBA fMRI Biomarker Committee call – Wednesday, January 24, 2018 at 11am CT

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