

**QIBA fMRI Biomarker Committee Call Summary**  
**Wednesday, August 24, 2016 at 11 AM CDT**  
Call Summary

**In attendance**

*Ted DeYoe, PhD (Co-Chair)*  
Feroze Mohamed, PhD  
Nancy Obuchowski, PhD

Jay Pillai, MD  
David Soltysik, PhD

James Voyvodic, PhD  
Kirk Welker, MD

**RSNA**

Joe Koudelik  
Susan Weinmann

*Moderator: Dr. Mohamed*

**Review of Previous Call Summary**

- The 07.27.2016 call summary was approved as presented

**Profile 1.0 draft review (Dr. Mohamed et al.)**

- Drs. DeYoe, Elsinger and Mohamed have been working on Profile
- Outstanding issues/gaps and changes due to reproducibility study to be discussed
- DRO results demonstrating a quantitative index process to detect activation to be incorporated
- Profile v1.0 to focus on motor cortex and incorporate Dr. Voyvodic's DRO data and paradigms
- Table 3.8.2 Specification
  - Added table and crucial data
  - Image data processing, including image correction is addressed
  - BOLD Map Thresholding: if manual setting is being used, a peak threshold value in the vicinity of the motor cortex to be found (vicinity of the posterior frontal lobe and anterior parietal lobe), and 50% of this peak to be computed to determine the threshold
  - Clustering Identification or Region of Interest:
    - Single largest cluster in the vicinity of the posterior frontal lobe and anterior parietal lobe
    - The Claims in this Profile do not support situation in which multiple clusters appear in that region of the cortex
    - Dr. Voyvodic to add cluster definition criteria for motor cortex data
- Claim to be modified based on Dr. Voyvodic's DRO motor task data
  - Dr. Voyvodic to recalculate numbers to be more precise for Claim
  - Dr. Obuchowski advised that the Claim should be defined mathematically, e.g., the value needs to represent the following specific statistic: "The +/-5 mm precision value represents 1.96 x within-subject standard deviation"

- Table 3.5.2 Specification
  - Data from reproducibility study to be added
  - 200 sec., (20 sec. ON, 20 sec. OFF) x 5 should be the acceptable motor task timing used in the reproducibility studies supporting the Claim
  - 208 sec. should be the acceptable scan duration timing used in the reproducibility studies supporting the Claim
  
- Dr. Mohamed to send updated Profile to Drs. DeYoe and Voyvodic for values to be incorporated
- Present draft to be circulated for internal BC review, noting:
  - Specific issues to be addressed prior to 1.0 release for wider public comment
  - Areas for future development after 1.0 release

**General**

- Development of an fMRI poster for the RSNA 2016 Annual Meeting to be discussed at a later date

**Next calls:**

- QIBA fMRI Bias TF call - Tuesday, August 30 at 11am CDT
- QIBA fMRI Biomarker Committee call - Wednesday, September 7 at 11am CDT