

**QIBA fMRI Bias Work Group Call**  
Tuesday, May 27, 2014 at 10 AM CT  
Call Summary

**Participants**

James Voyvodic, PhD (Chair)  
Ted DeYoe, PhD  
David Soltysik, PhD

Daniel Sullivan, MD  
Zhiyue Jerry Wang, PhD  
Yuxiang Zhou, PhD

**RSNA**

Joe Koudelik  
Madeleine McCoy

**QIBA 2014 Annual Meeting Update**

- Dr. Wang updated the group regarding the presentation he gave on behalf of the fMRI Tech Ctte as well as his perspective on the overall meeting
- In addition to DROs, greater attention to physical phantom models may benefit the fMRI group re compliance testing

**Agenda for the ½ Day QIBA fMRI Tech Ctte T-Con on June 6<sup>th</sup>**

- Dr. Elsinger is working on updating the agenda—Drs. DeYoe and Voyvodic will provide additional feedback
- Potential agenda topics reviewed
  - Current status of the fMRI Tech Ctte - current and future groundwork projects
  - Continued Profile development by identifying technology gaps requiring groundwork (working from outline of current gaps in profile V.1 – assign sections to willing writers, note which sections are awaiting results of current DRO project)
  - Clarification of the Profile Claim focus (how should fMRI be done to be quantitative?) and how to achieve compliance; wording such as “recommendation” not deemed strong enough vs. “specification”; Profile wording deemed critical to engage the manufacturers
  - Strategic plan and “end-all” statement clarifying the overall fMRI Tech Ctte goal; a hard-stop needs to be identified
  - Relationship between fMRI, Resting State and DTI
- Profile goals were discussed:
  - Profile goal is to remove all subjective aspects of fMRI and identify criteria re objective results
  - Drs. Mohamed and DeYoe to work on a list of missing Profile components
  - The current Profile version (v1.0) focuses on the status quo, or currently accepted consensus fMRI protocols being used
  - Profile version 2.0 is to focus more on making fMRI quantitative

**DRO Update**

- The goal is to receive a set of DRO data from all imaging sites for analysis of any potential format issues
- Dr. Voyvodic received three different DRO maps from MCW containing different BOLD signal thresholds
  - Dr. DeYoe confirmed that there are no fixed thresholds
- Dr. DeYoe discussed BOLD reproducibility metrics

**Next calls:**

- QIBA fMRI Bias Working Group, *Tuesday, June 10, 2014 at 10am CT*
- QIBA fMRI Technical Committee, *Wednesday, June 4, 2014 at 11am CT*  
*It was decided that the fMRI Tech Ctte Update Call on Wednesday, June 4<sup>th</sup> will focus on finalizing the agenda for the June 6<sup>th</sup> t-con.*