

**QIBA fMRI Bias Work Group Call**  
Tuesday, April 30, 2013 at 10 AM CT  
Call Summary  
*Additional notes provided by Dr. Voyvodic*

**Participants**

*Jim Voyvodic, PhD (chair)*  
Ted DeYoe, PhD  
Erich Huang, PhD  
Feroze Mohamed, PhD  
Jeffrey Petrella, MD

Jay J. Pillai, MD  
Laura Rigolo, MS  
David Soltysik, PhD  
Daniel Sullivan, MD

**RSNA**

Joe Koudelik  
Julie Lisiecki

**Agenda:** Discussion of bias and linearity issues in the context of future QIBA fMRI projects. Goal to identify the problem with current fMRI variability and write a Profile based on what has been tested and proven to work.

**Discussion:**

- Finishing current Profile incorporating Metrology thinking is priority as the main “group project”
- Consideration of approaches to field testing:
  1. Field test on newly collected research data
    - Have sites test current Profile protocol to acquire reproducibility data
    - Test whether data collected according to the Profile satisfies the Claims
  2. Field test on existing data and synthetic data
    - We provide reproducibility (scan/rescan) human data sets
    - We provide realistic synthetic scan/rescan data sets, with known activations and variability
    - Have sites analyze data as per the Profile and test whether results satisfy Claims
    - Challenge sites to analyze the data using alternative procedures and test whether results satisfy Claims
    - Have sites do similar analyses on their own repeat scan data sets
- Dr. Pillai mentioned the limitations of adding Profile-recommended software procedures to commercial fMRI systems being used in clinical settings

**Next steps:**

- Continuation of discussion on May 8<sup>th</sup> Technical Committee call—Future planning for QIBA fMRI projects and next steps to be discussed at QIBA Annual Meeting

**Next calls:**

- QIBA fMRI Technical Committee, *Wednesday, May 8, 2013 at 11 am CT*
- QIBA fMRI Bias Working Group, *Tuesday, May 28, 2013 at 10 am CT*
- **Please note:** There will be **NO QIBA fMRI Bias Working Group call** on **Tuesday, May 14<sup>th</sup>** due to the QIBA Annual Meeting. Thank you.