**QIBA fMRI Technical Committee Update**  
**December 7, 2010**  
**11 am CST**

**Call Summary**

**In attendance:**
- Cathy Elsinger, PhD (Co-chair)
- Feroze Mohamed, PhD
- Joe Koudelik
- Jeffrey Petrella, MD (Co-chair)
- Srinivasan Mukundan, Jr, MD, PhD
- Julie Lisiecki
- Scott Small, MD (Co-chair)
- Daniel Sullivan, MD
- Edgar DeYoe, PhD
- James T. Voyvodic, PhD
- Domenico Zaca, PhD

**RSNA:**
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**Project Proposals:**

- Discussion of proposal for QIBA funding application
- Plan to submit proposal for first year
- Want to use existing data with an analysis of this data and determine proper questions to answer
  - Have several datasets that can be used
  - Challenge to find a common thread that can link these distinctly different datasets together for one cohesive project proposal
- Dr. DeYoe to write a draft with a summary statement—explaining the common thread as well as the basic proposal for the project
  - Suggest listing sub-aims/determine questions being answered in terms of sources of variance
  - Other members of the group to comment swiftly once the draft is distributed
  - Consistent approach—methodology for analysis of datasets and assessing reproducibility for much stronger proposal
- Datasets available:
  - Dr. DeYoe—vision (with some motor)
  - Dr. Voyvodic—patients—motor + language reproducibility
  - Dr. Petrella—resting state
  - fBIRN—publicly available dataset
- Items to consider regarding datasets:
  - Number of subjects
  - Interval of time between exams
  - Paradigms involved
  - Inter-scanner sources of variance
  - Data sources; where did these come from?
  - Consider development of a protocol to examine incorporating this data

**Concepts to include:**

- Quantitative measurement complement to validity of measurement
- Do entire analysis on raw data, followed by an amplified computation
- Determination of whether there is high reproducibility after a year
  - Defined as percent change/relative change; factoring out absolute baseline
  - Location, size, and reproducibility of pattern relative to site

**Next steps for fMRI Technical Committee:**
Dr. Voyvodic to post PDF of motor task reproducibility paper on QIBA Wiki for reference
Dr. Elsinger not available on December 15th (11 am CST) for fMRI call—Dr. Petrella to lead call

**Next Call for fMRI Reproducibility:** Tuesday, December 21, 2010, 11 am CST