

**QIBA fMRI Technical Committee Update**  
Wednesday, January 12, 2011 at 11 am CST  
Call Summary

**In attendance**

Cathy Elsinger, PhD (Co-chair)  
Andrew Buckler, MS  
Edward DeYoe, PhD  
Jay Pillai, MD  
James Reuss, PhD  
Daniel Sullivan, MD

James Voyvodic, PhD  
Domenico Zaca, PhD

**RSNA**

Fiona Miller  
Joe Koudelik

**QIBA/NIBIB Contract Proposals Status Update (Dr Elsinger)**

- Dr Elsinger provided an overview of the project proposal and review processes and current status
- Dec 16: Tech Ctte forwarded chosen proposals to the Modality Ctte for review
- Dec 20: Modality Ctte forwarded selected and ranked proposals to the Steering Ctte for review
  - Proposals prioritized based on degree of alignment with overall QIBA goals as outlined in the NIBIB contract
  - Overall goal: Generate data and results to examine sources of variability and to collect data in support of Profile development
    - All four fMRI subprojects need to demonstrate how they contribute
- Jan 11: Steering Ctte met to review all proposals
- Selection criteria:
  - Relevance to QIBA goals
  - Technical feasibility
  - Impact on scanning process
- Total of proposed fMRI project budget raised some concern with Steering Ctte; need to reconsider current budget and divide into two segments based on a year 1 and year 2 structure; follow-up clarification possible prior to Jan 28th
- Subproject goals needs to be re-examined; work needs to support fMRI Profile and Claim development
- Suggested that both projects that focus on reproducibility (Drs Voyvodic and DeYoe) be combined for year 1
- Preliminary groundwork for resting state and breath-hold projects (Drs Petrella and Pillai) for year 2
- Proposal modification needed with a statement that the data generated would be made publically available
- fMRI needs to develop strategy based on priorities, similar to the DCE-MRI Tech Ctte
- Revisiting the proposal to adjust the budget and project focus needed before Jan 28<sup>th</sup>; re-submission needed by Friday, Jan 21, 2011 to Fiona Miller ( [fmiller@rsna.org](mailto:fmiller@rsna.org) )
- Jan 28: Overall funding decisions to be made at f2f Steering Ctte meeting in Washington DC

**fMRI Project Plan Overview (Mr Buckler)**

- Set of pre-defined activities for each biomarker established under the QIBA project plan
- Associate activities:
  - Profiling
  - Technical characteristics and standards
  - Clinical performance

- Clinical Utility
- Qualification as a defined process
- Need to map definition to current fMRI efforts
- fMRI most affective based on clinical efforts
- Mapping will help develop a strategic plan

#### **fMRI Profile on Wiki**

- Dr DeYoe provided most recent updated version; posted on the QIBA Wiki:  
[http://qibawiki.rsna.org/index.php?title=FMRI\\_subctte](http://qibawiki.rsna.org/index.php?title=FMRI_subctte)
- Variability in workflow associated with image acquisition, analysis, output, etc
- Need to identify where to focus efforts moving forward; matrix of workflow steps needed with feedback from industry, clinicians and researchers
- All subprojects need to focus and collaborate to determine where they fit within the strategic plan
- Focus of next two fMRI TC calls to fill-in framework, identify knowledge gaps, and develop strategic plan

#### **Call Schedule**

- Alternating fMRI calls based on “General Business” and “Profile Writing” proposed; will be looked into by co-chairs

#### **Next Steps:**

- Revise funding proposal based on two projects spanning year 1 and 2
- Drs Voyvodic and DeYoe to focus on subproject activities with data being made publically available
- Need more time to develop year 2 proposal (Drs Petrella and Pillai)
- Re-submit modified proposal to Fiona Miller ( [fmiller@rsna.org](mailto:fmiller@rsna.org) ) by Friday, January 21, 2011
- Group to develop consolidated workflow matrix
- Drs Elsinger and DeYoe to follow-up with matrix developers and begin fMRI Profile development
- Next fMRI TC call scheduled for Wednesday, January 26<sup>th</sup> at 11 am CST