

QIBA fMRI Technical Committee Update

March 9, 2011 at 11 AM CST

Call Summary

In attendance

Cathy Elsinger, PhD (Co-chair)

Jeffrey Petrella, MD (Co-chair)

Andrew Buckler, MS

Ted DeYoe, PhD

Brian Lenoski, MS

Jay Pillai, MD

Daniel Sullivan, MD

James Voyvodic, PhD

RSNA

Joe Koudelik

QIBA fMRI Technical Committee Update Call Agenda

NIBIB Reproducibility Study (Jim and Ted)

1. Progress and updates – Both Jim and Ted are working with respective sites to get up and going on administrative issues related to projects.

DICOM working group collaboration (Jim Reuss)

1. Progress and updates – introduction of Brian Lenoski, Medical Numerics to work with Jim Reuss on next steps.

NIBIB Round 2 Submission

1. Strategy for defining gaps
2. Decided against meeting on 23rd, but will use Reproducibility meeting 3/15 and other conf. call resources to develop project proposals for round 2.

fMRI Profile Development Strategy

1. Development of writing group for profile
2. Profile discussion every other meeting
3. Work within current outline for profile development – more comprehensive review of profile and protocol documents required.

Former Outline from last draft of Profile (6/10)

- A. Patient evaluation and fMRI paradigm selection
- B. Paradigm design
- C. Patient training on behavioral task and quantitative assessment of performance
- D. Equipment Q/A checks and calibrations
- E. Patient preparation, instructions, behavioral check, adjustment of peripheral equipment
- F. Pre-scan setup, shimming, selection of slices and other imaging parameters
- G. Performance of fMRI scans including patient task instructions, performance monitoring
- H. Post-scan evaluations of alertness, performance
- I. Post processing, artifact detection etc.
- J. Report generation and content, including technical Q/A and evaluation
- K. Clinical interpretation
- L. Archiving and export to treatment systems
- M. Follow-up

fMRI Project Plan Overview (Andy)

1. Continue development of strategic plan –

Next Steps:

- Continue listing groundwork activities to Progress Plan (Gantt chart); relationship/coupling to pursue later
- Mr Buckler to send Progress Plan snap-shot to Dr Elsinger
- Review two circulated documents
- Identify knowledge gaps and high priority tasks to help identify projects for Round 2 of QIBA funding
- All fMRI Tech Ctte members to be invited to QIBA Annual Meeting in Washington (May 24-25, 2011)
- T-cons proposed to discuss Round 2 funding prior to QIBA f2f
- Continue fMRI Profile development; outline distributed and needs to be fill-in; focus of next TC call
- DCE-MRI Tech Ctte members to be invited to join fMRI calls to help with Strategic Plan and goals development
- Next **fMRI Technical Committee** call scheduled for Wednesday, **March 23** at 11 am CDT

Next **fMRI Reproducibility Work Group** call

- Discussion to continue for Round 2 of QIBA funding
- Drs Petrella and Pillai to call-in to discuss strategic gaps
- Call scheduled for Tuesday, March 15, 2011 at 11 AM CDT