QIBA fMRI Technical Committee Update

Wednesday, February 29, 2012 at 11 AM CST

Call Summary

In attendance			**RSNA**
Cathy Elsinger, PhD (Co-Chair)	Robert Haworth	David Soltysik, PhD	Joe Koudelik
Jeffrey Petrella, MD (Co-Chair)	Brian Lenoski, MS	Daniel C. Sullivan, MD	Julie Lisiecki
Paul Carson, PhD	Feroze Mohamed, PhD	James Voyvodic, PhD	
Barbara Croft, MD	Jay J. Pillai, MD	Domenico Zaca, PhD	
Ted DeYoe, PhD	James L. Reuss, PhD		

QIBA fMRI Technical Committee Call Agenda

General Items:

- QIBA fMRI/DICOM WG 16 (Jim R)
  Julie circulated an excerpt from T-con MINUTES DICOM WORKING GROUP 16 held on Jan. 11, 2012

ASFNR Meeting

- Poster was accepted for presentation
- Face to face meeting **Friday morning between 7:00 - 8:20am -** Continental breakfast will be served (no charge for the room)
- Agenda – go through current draft of profile in more detail –establish writing/section authors
- Date: Friday, March 9, 2012
  Time: 7:00 am (ET)
- Room: Wekiwa 1 - **(the room will be available from 6:30 am – 9:00 am)**

NIBIB Funded Projects

- Semi-annual NIBIB government project update report is due on March 10, 2012
- **Please include explicit details concerning any** abstracts**,** publications**,** scientific presentations**, or** related activities **you may have had in connection with your NIBIB-funded project**

Continuation of Strategic Plan (see March 2011 Semi Annual Report Draft – Paul)

- How do preliminary results move our claims/profile development forward (i.e., what is the next step in evaluating the results and incorporating what is achievable in the current draft of the profile)
- Develop a systematic method to investigate and describe reproducibility/variability
  - Assessment (what is achievable and under what conditions)
  - Sources of variability (avoidable, not avoidable)
  - Mitigation strategies

Claims Construction: (Last suggestion by Jim V):

A. fMRI can reproducibly localize the center of mass of motor cortex functional brain regions to within 5 mm.

B. fMRI can reproducibly determine the spatial edge of motor cortex functional brain regions to within 5 mm.

C. fMRI can reproducibly localize the center of mass of language cortex functional brain regions to within 10 mm.

D. fMRI can reproducibly a laterality index for hemispheric dominance of cortical language functional regions to within 20%.

E. fMRI can reproducibly determine the spatial edge of language cortex functional brain regions to within 10 mm.

Discussion

- NIBIB update report is due in less than two weeks.

DICOM Working Group Update (Dr. Reuss)

- Needs to find correct working group for defining standards within PACS arena
- Working on status update for PACS vendors which are not represented in MR group; suggestions welcome

ASFNR meeting

- Group plans to divide up times based on schedules to “host” the poster
- The poster has been shipped to ASFNR

- Agenda for the f2f meeting on March 9th is to review the current draft of the Profile as a group and assign section authors for areas that need additional information
- For those not attending the meeting, Audio conference dial-in details have been circulated via email from RSNA
- Dr. Reuss proposed a survey or poll to collect information from people who are using fMRI clinically in attendance at ASFNR and will work on a DRAFT in collaboration with Dr. Elsinger for group feedback by Friday this week
    - He would like to distribute this during or after the BOLD workshop; an envelope will also be available at the poster for pick up and return
    - Team members who are also exhibiting will distribute the survey at their booths as well
    - A brief edited version of the matrix should provide the key information for the survey with the goal to find out what people are actually doing with fMRI
    - Dr. Voyvodic suggested adding questions about quantitation and reproducibility
- Dr. Voyvodic has a talk on Thursday afternoon and plans to discuss QIBA efforts
- Dr. Elsinger has a luncheon presentation on Wednesday and will mention current QIBA efforts and direct attendees to poster and Dr. Voyvodic's talk.

Strategic Planning Discussion

- Dr. Carson reviewed the fMRI Tech Committee's funded projects Gantt chart
    - Dr. Voyvodic's project on track now with a revised end-date; for completion in July
    - Dr. DeYoe's project is on track now with a revised end-date
    - Dr. Pillai's project currently in second phase of three phases and should be completed by the end of August 2012
    - Since the NIBIB contract ends at the end of September 2012, RSNA will require notification several months prior to this deadline whether no-cost project extensions are required
- First draft of Profile without data from the projects, to be ready by July 2012
- October 30th estimated for Profile release for Public Comment
    - Public Comment to run until the end of December
- Profile will be informed by:
    - Data collected regarding Workflow
    - Consensus
    - Currently funded Projects
    - Literature to support claims (where appropriate)
- Suggestion made to assign working teams to sections of the Profile
    - Next step will be field testing. Would like to consider assigning members of the group to work on compliance / field testing in parallel to the Public Comment effort
- Dr. Carson to update Gantt chart/ project plan and distribute to the group.
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Next Steps

- Group to discuss Strategic Plan on next call with focus on Phase I reproducibility and NVU studies
- Group to finalize poll for ASFNR by Friday, 3/2 and make copies for the meeting
- Dr. Carson to update Gantt chart/ project plan and distribute to the group
- Group to discuss Profile during f2f meeting at ASFNR on March 9th (with audio call-in available)

Next Meetings

- QIBA fMRI Reproducibility WG, ***Tuesday, March 6th at 11 am CST***
- QIBA Profile meeting, ***Friday, March 9th*** from ***7-8:20 am, EST, at ASFNR, Wekiwa1*** or ***via audio call***
- QIBA fMRI Technical Committee, ***Wednesday, March 14th, at 11 am CST***