

## QIBA fMRI Technical Committee Update

Wednesday, March 14, 2012 at 11 AM CT

Call Summary

### In attendance

*Cathy Elsinger, PhD (Co-Chair)*

*Paul Carson, PhD*

Ted DeYoe, PhD

Andrew J. Kalnin, MD

Feroze Mohamed, PhD

Jay J. Pillai, MD

James L. Reuss, PhD

Laura Rigolo, MS

David Soltysik, PhD

James Voyvodic, PhD

Domenico Zaca, PhD

### RSNA

Julie Lisiecki

## QIBA fMRI Technical Committee Call Agenda, March 14, 2012

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### DICOM working group –

- PACS contact for representation defined within current DICOM workflow recommendations

### ASFNR Meeting

- Poll was circulated/favorable response
- Collating responses, next steps for collecting more information
- Posting on the WIKI for further circulation

### ASFNR face to face meeting

- In attendance (Drs. Petrella, Mohamed, Elsinger, Voyvodic, Reuss, and Jeff McGovern (GE,MN), Mike Fonte (MN), Andrew Kalnin, MD (OSUMC), (Drs. DeYoe, Carson, and Pillai by phone)
- Short review of goals, efforts in progress and funded projects for newcomers
- Plan in place for moving forward on profile (see below)

### Current Strategy for Profile development (first draft July 2012, October 30 estimate for public comment)

- Employ a systematic method to investigate and describe reproducibility/variability
  - o Assessment (what is achievable and under what conditions) (NIBIB funded projects)
  - o Define sources of variance (avoidable, unavoidable)
  - o Develop mitigation strategies where possible
- Profile will be informed by:
  - o Currently funded projects
  - o Data collected as part of workflow project
  - o Consensus/expert opinion
  - o Literature – as appropriate
- Practical issues: Drs. Elsinger and Mohamed to work on writing as we address each step in Profile and circulate for feedback
- Field testing -> internally, members of the group to work on field testing in parallel to the Public comment efforts

### Strategic Plan Discussion (Dr. Carson)

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#### Discussion

- NIBIB update report is due on 3/15 with high priority topics in bulleted list format to Dr. Sullivan from co-chairs

#### DICOM Working Group Update (Dr. Reuss)

- Need to find correct working group for defining standards within PACS arena – proper contacts needed for WG16 and WG10

#### ASFNR meeting update

- The poll was favorably received – 9 responses were collected; additional opportunities for data collection were discussed
  - o Group may try to collect additional responses by posting to the WIKI – (poll may be slightly revised for this purpose)
  - o ASFNR agreed to post the poll via their website with a rationale/ explanatory text to be provided by Drs. Elsinger and Reuss

#### Strategic Planning Discussion at f2f meeting at ASFNR

- Plan now in place to move Profile forward – especially regarding workflow/ learning and how to integrate this data
  - o First draft of Profile is projected for end of July 2012
  - o Draft 1 for Public Comment phase is projected for end of October 2012; transition into Field Test phase as Public Comment phase is completed

- Group discussed a systematic method to completing the Profile:
  - 1) assessment of current projects; 2) sources of variance: where they exist and how to mitigate
- Unclear how to “map” potential sources of variance into the Profile; discussions to address each individually
- Will use data collected with consensus, expert opinion, and literature review for support
- Profile field testing among technical committee members was proposed to follow the public comment phase
  - Group would like to reduce the effects of the sources of variance on the data
- Groundwork for identifying technical characteristics of resting state fMRI discussed as possible second Profile
- Another suggested project was a database related to the Open Image Archives effort for fMRI
  - Dr. Voyvodic emphasized that this is a significant undertaking and will require a step-by-step plan
  - He also suggested clarifying how field testing would be accomplished with a concrete plan, resources, estimated time
  - fMRI group has a lot of raw, unprocessed patient data available with rare insight into an identical procedure run on one person multiple times

#### **Next Steps**

- Group to discuss Strategic Plan on next call with focus on Phase I reproducibility and NVU studies

#### **Next Meetings**

- QIBA fMRI Technical Committee, *Wednesday, March 28<sup>th</sup>, at 11 am CT*
  - QIBA fMRI Reproducibility WG, *Tuesday, April 17<sup>th</sup> at 11 am CT*
- Reminder:*** No calls on April 3<sup>rd</sup> or 4<sup>th</sup> due to RSNA Staff in-house **QIBA Metrology Workshop**