

QIBA fMRI Technical Committee Update

Wednesday, October 10, 2012 at 11 AM CT
Draft Call Summary

In attendance

Ted DeYoe, PhD (Co-Chair)
Cathy Elsinger, PhD (Co-Chair)
Jeffrey Petrella, MD (Co-Chair)
Barbara Croft, MD
Andrew J. Kalnin, MD

Feroze Mohamed, PhD
Jay J. Pillai, MD
Laura Rigolo, MS
Daniel C. Sullivan, MD
James T. Voyvodic, PhD

RSNA

Fiona Miller
Julie Lisiecki

QIBA fMRI Technical Committee Call Agenda, Wednesday, October 10, 2012 (11 AM CT)

1. RSNA Meeting Schedule:

- Special Interest Session - What Imaging Measurements are needed in Clinical Practice?
 - Monday, November 26th, 4:30pm – 6:00pm
 - Chicago, McCormick Place, Room: N228
- **QIBA Technical Committees- Working Meeting**
 - Wednesday, November 28th, 3:00pm – 5:00pm
 - Chicago, McCormick Place, Room: N136

2. RSNA Poster - review of current draft (Dr. DeYoe) – content needed

- Hard copy of the poster is due to RSNA by November 1st.
- Sent to RSNA Headquarters so that staff may coordinate shipment to the McCormick Place Convention Center – who will print?

3. Profile Development – SOV focus (Dr. Mohamed)

- Continued discussion of most notable sources of variance.
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Discussion

fMRI Reproducibility call scheduled for Oct 11, 2012 – to continue Profile discussion

QIBA meetings at RSNA 2012

- Special Interest Session - What Imaging Measurements are needed in Clinical Practice?
Monday, November 26th, 4:30pm – 6:00pm
Chicago, McCormick Place, Room: N228
 - Presentations from referring physicians on importance of quantification in the following disease areas, with time for audience discussion:
 - COPD
 - Cancer
 - Brain disease (Alzheimer's)
 - Liver disease (as related to Ultrasound)
- QIBA working meeting on Wednesday, Nov 28th, from 3 pm – 5 pm
- Everyone is asked to respond to the Doodle Poll regarding attendance at *Wednesday's QIBA meeting*:
<http://www.doodle.com/kssb47q8up4446c6>
 - Doodle Poll will be used by tech committees to prepare agendas based on attendance

Poster for RSNA 2012 Update

- Draft poster layout discussed; Drs. DeYoe, Pillai, and Voyvodic are contributing content based on current projects and methodology to achieve Profile claims
- “Clinical fMRI: Establishing a More Quantitative Approach” was a suggested title.
- Inclusion of the following items suggested:
 - Brain maps

- Detectability of BOLD signal
- Illustrations of reproducibility
- Hard copy of the poster is **due to RSNA by November 1st**.

Profile Development

- Focus on Claims, Data, Qualifications
 - To include Sources of Variance (SOVs)
- Group reviewed:
 - Section 2.0: Staff Requirements for fMRI (compliance)
 - Post-processing
 - Computer and software specifications
 - Anatomical image segmentation
 - Low frequency drift correction
 - Spatial filtering
 - BOLD analysis – pipeline specifications
- Additional image segmentation may be needed to perform fMRI quantitatively
- First draft of QIBA fMRI Profile expected by Oct 31, 2012

Next Steps:

- Drs. DeYoe, Pillai, and Voyvodic to develop poster content for **RSNA 2012**
- Dr. Elsinger to invite Dr. Kinahan to discuss the multi-institutional R01 grant
- Profile discussion to continue

Next Meetings

- Next QIBA fMRI Technical Committee, **Wednesday, October 24th, at 11 am CT**
- Next QIBA fMRI Reproducibility Working Group Call, **Thursday, October 25th, at 10 am CT**