

**QIBA fMRI Technical Committee/Reproducibility Update Call**  
Tuesday, July 19, 2011; 11 AM CDT

Call Summary

In attendance

Cathy Elsinger, PhD (co-chair)  
Andrew Buckler, MS  
Ted DeYoe, PhD  
Feroze Mohamed, PhD  
Jay Pillai, MD  
James Reuss, PhD  
Laura Rigolo, MS

Daniel Sullivan, MD  
James Voyvodic, PhD  
Domenico Zaca, PhD

RSNA  
Joe Koudelik  
Madeleine McCoy

**QIBA fMRI/DICOM 16 Working Group (Jim R)**

- Updates

**Funded fMRI Committee Projects**

- Reproducibility projects - progress – on target for deliverables? (Jim and Ted)
- CVR project (Jay)
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**QIBA/RIC Collaboration (Jim V)** -open data archive efforts and we could talk a bit -how might this relate to our efforts?

Radiology Informatics Committee (RIC)- Responsible for promoting education and research regarding critical emerging technologies and digital imaging and health care information systems, and for fostering cooperation among the imaging professions and industries to drive innovation and advance the quality and efficiency of patient care through technology.

**Workflow Document**

- Status - how to use this document to begin profile writing on draft 1 of profile

**CT Template for Profile Draft**

- Review of their outline – edit in the context of current workflow document?

*Open Issues:*

*Closed Issues:*

*To do:*

*I. Executive Summary*

*II. Clinical Context and Claims*

*Utilities and Endpoints for Clinical Trials*

*Claim: Measure Change in Tumor Volume*

*III. Profile Details*

*1. Subject Handling*

*2. Image Data Acquisition*

*3. Image Data Reconstruction*

*4. Image Analysis*

*IV. Compliance*

*Acquisition Device*

*Reconstruction Software*

*Software Analysis Tool*

*Image Acquisition Site*

*References*

*Appendices*

*Acknowledgements and Attributions*

*Background Information*

*Conventions and Definitions*

*Model-specific Instructions and Parameters*

## **Next Steps**

- Dr. Reuss to reach out to DICOM 16 WG Chair (Dr. Robert Hayworth) and Dr. Clunie for resources, participation and discuss direction the fMRI Tech Ctte is heading
- Identify what the DICOM 16 standards could be in context of the fMRI Profile; new DICOM fields may be needed; develop suggestions to field-test with vendors already involved with QIBA
- Ready-made Profile needed before vendors will fully engage
  - Iterative process; need vendor feedback to develop Profile
  - Drs. Elsinger and Mohamed to develop Profile draft
- Drs. DeYoe and Voyvodic to discuss the processing of the reproducibility metrics dataset offline
- Dr. Zaca and Dr. Pillai to work on their project dataset in the next two months and in September will begin on data management
- Dr. Voyvodic to circulate his reproducibility paper to the fMRI Tech Ctte
- Workflow documents: Dr. DeYoe has received documents from MCW, Johns Hopkins, Duke and Temple; working with Ms. Rigolo
  - Begin the steps to compile the data
- Mr. Buckler will continue to keep the fMRI Group alert to the progress of the new QIBA/RIC Informatics Task Force.
  - What would be useful to contribute to the QIBA/RIC Group?
    - Published fMRI whitepaper
    - Datasets
    - OIA use-case and key attributes detail posted to the QIBA WIKI for reference: [http://qibawiki.rsna.org/index.php?title=Committee\\_on\\_Open\\_Image\\_Archives](http://qibawiki.rsna.org/index.php?title=Committee_on_Open_Image_Archives)

## **Next Call:**

Wednesday, 7/27/11 QIBA fMRI Tech Ctte Update Call