

QIBA fMRI Technical Committee/Reproducibility Update Call

Tuesday, June 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

Next Call:

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