

QIBA fMRI-DICOM Work Group Update Call  
Wednesday, May 21, 2010  
10 AM CDT

Call Summary

In attendance

Douglas M. Tucker, PhD (chair)  
James T. Voyvodic, PhD

**RSNA**  
Joe Koudelik

General discussion

- Introduction and welcome on this inaugural work group call (Dr Tucker)
- Establish set of action items; set-up goals and objectives: QIBA needs to work to align “standardization goals” with IHE/DICOM for better fMRI data representation
- Better understanding of workflow and need to address engineering/technical issues related to data representation; stabilization of fMRI data needed
- fMRI exam workflow within clinical departments:
  - Order - patient training - image acquisition - post processing - reporting out
  - Take this information to DICOM and work for comprehensive DICOM data representation
- Align group focus by reaching out to the IHE and DICOM committees
- fMRI-DICOM Work Group may need to migrate to engineering solutions similar to the IHE process
- Need to make DICOM aware of fMRI issues and point-of-view; DICOM WG 16 already thinking about fMRI issues; Dr Tucker involved with DICOM WG 16 since summer 2009
- IHE working on similar issues, e.g. working with a similar Profiling process, rules and responsibilities
- DICOM WG 16 looking at data collections; most vendors have established private data representations for DICOM fields; not all data needed is represented, e.g. response data, paradigm used, post processing details, etc
- This work group to feed DICOM WG 16 what is required for DICOM representation

Reference URLs

- Scope/purpose of DICOM for reference (DICOM brochure): [medical.nema.org](http://medical.nema.org)
- IHE reference: [www.ihe.net](http://www.ihe.net)

Next steps:

- Reach out to IHE and DICOM Working Groups to align common goals
- Dr Tucker to draft text to explain goals of this group
- Start feedback on general workflow document, e.g. what is workflow and what are datasets required
- Develop complete workflow concept and data objects produced used in routine fMRI exams
  - Must be comprehensive, but flexible to allow for all variations