

## QIBA Perfusion, Diffusion and Flow – MRI Technical Committee Update Call

Wednesday, 30-April-2014 at 11 AM CDT

### DRAFT Call Summary

#### Participants

**Marko Ivancevic, PhD (Co-Chair)**

**Mark Rosen, PhD (Co-Chair)**

Daniel Barboriak, MD

Michael Boss, PhD

Thomas Chenevert, PhD

Patricia Cole, PhD, MD

Amita Dave, PhD

Benjamin Ellingson, PhD

Dena Flamini, RT

Daniel Gembris, PhD

Edward Jackson, PhD

Hendrik Laue, PhD

Thorsten Persigehl, MD

David Purdy, PhD

Mark Shiroishi, MD

Daniel Sullivan, MD

Ying Tang, PhD

Brian Taylor, PhD

Jihong Wang, PhD

Ona Wu, PhD

#### RSNA

Joe Koudelik

Madeleine McCoy

#### Proposed Agenda:

- QIBA Project Updates QIBA Artificial Data Evaluation Software (Dr. Laue)
- MITA MR Section Co-Organizes Standards Workshop with NIST- July 14-15 at NIST in Boulder (Dr. Boss)
- Phase III Project Updates (Drs. Laue, Persigehl, Boss and Chenevert)
- DCE-MR Profile Compliance Update (deferred)--Please send comments to Dr. Guimaraes

#### Phase III Project Updates

- Dr. Boss: *DW-MRI ADC Phantom*
  - DWI Phantom PVP vials have been ordered
  - 15 Phantoms to be purchased which will exhaust the Round-3 funds; the intent is to split the cost with NIST; Drs Boss and Jackson to discuss fabrication and budget logistics off-line
  - Committee Members would have initial access to these phantoms for round-robin field testing
- Dr. Chenevert: *Software Development for Analysis of QIBA DW-MRI Phantom Data*
  - Discussed the general framework of the data collection and is aware of impending changes
  - Defining implementable protocols for testing of both 1.5T and 3.0T systems
  - The goal is to complete by the end of the year
- Dr. Laue: *Development of a Tool to Evaluate Software Using Artificial DCE-MRI Data and Statistical Analysis*
  - The DICOM data will be compared to the original Barboriak DCE-MRI DRO data and results will be shared within a few weeks
  - Expecting to present initial results at the May QIBA meeting in DC
- Dr. Persigehl: *DCE-MRI Phantom Study to Evaluate the Impact of Parallel Imaging and B1 Inhomogeneities at Different MR Field Strengths of 1.0T, 1.5T, and 3.0T*
  - The subcontract is still in negotiation and should be executed in a few days
  - Dr. Rosen suggested that Dr. Persigehl join the next ACRIN 6701 t-con as well as contacting Dena Flamini, RT re the Phantom shipping schedule-back to Cologne to maximize data acquisition.
  - Dr. Jackson has two unfilled Phantoms at UW which could be shipped

#### Round-4 Project Proposal Evaluations

- The QIBA Steering Committee reviewed the initial concepts and gave their preliminary rankings
  - Most PIs received initial comments and edits to their projects
  - Dr. Rosen will read through the comments and give his initial thoughts
  - For clarification when reading the comments, the projects are as follows:
    - Project 8: Dr. Barboriak
    - Project 9: Dr. Jackson
    - Project 10: Dr. Laue

- Dr. Jackson will circulate all projects to the co-chairs and the PIs for their comments; Dr. Laue to provide the updated version of his project
- All Round-4 project revisions to be sent to RSNA staff ([qiba@rsna.org](mailto:qiba@rsna.org)) no later than EOB on May 12<sup>th</sup>
- The next Steering Committee t-con will be May 15<sup>th</sup> when revisions to the projects will be discussed
- Prioritization of the projects will take place at the face-to-face meeting on May 20<sup>th</sup>

**MITA MR Section Co-Organizes Standards Workshop with NIST- July 14-15 at NIST in Boulder\* (Dr. Boss)**

- Dr. Boss to send registration details to RSNA Staff for circulation
- The speaker list will be 30-35 people and will be available by the end of the week—the total number of participants is projected to be 100.
- Dr. Boss will inquire as to whether or not the recorded sessions and presentations will be available to those who are unable to attend.

**Reminder to Currently Funded Project Leaders: All QIBA/NIBIB Round-3 projects are to be completed no later than September 29<sup>th</sup>, 2014.**

**Next t-con:**

A decision will be made by the QIBA PDF-MRI Co-chairs as to whether or not to cancel the Wednesday, May 14<sup>th</sup> t-con due to the ISMRM Meeting in Italy; announcement to follow.