

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

Wednesday, 08-January-2014 at 11 AM CST

### Call Summary

#### Participants

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

**Edward F. Jackson, PhD (Co-Chair)**

**Gudrun Zahlmann, PhD (Co-Chair)**

Daniel P. Barboriak, MD

Michael Boss, PhD

Thomas L. Chenevert, PhD

Patricia E. Cole, PhD, MD

Amita Shukla Dave, PhD

James R. Ewing, PhD

Dena Flamini, RT

Daniel Gembris, PhD

Alexander Guimaraes, MD, PhD

Martha Heckel

John Kirsch, PhD

Daniel M. Krainak, PhD

Hendrik Laue, PhD

David E. Purdy, PhD

Mark Rosen, MD, PHD

Brian J. Soher, PhD

Daniel C. Sullivan, MD

Ying Tang, PhD

Jihong Wang, PhD

Ona Wu, PhD

Dewen Yang, MD, PhD

Yuxiang Zhou, PhD

#### RSNA

Joe Koudelik

Madeleine McCoy

#### NIBIB-QIBA Project Update (Dr. Sullivan)

- Domestic subcontracts for MR have been approved and RSNA has sent notification to the PIs/institutions.
- International contracts require additional State Dept approval; timeline not known.

#### DWI Phantom Update (Dr. Boss)

- Dr. Boss has been in contact with Dr. Yan Liu (EORTC) and the understanding is that 10 phantoms are required for the upcoming European clinical trials.
- At this time 5 phantoms could be bought for 10K Euros—goal for delivery is mid-Feb 2014
- Dr. Boss discussing subcontract support options with RSNA re specialized phantom materials Specific design issues:
  - Vial size and material -- Dr. Chenevert to send alternative materials to Dr. Boss for testing.
  - Dr. Boss to work with Drs. Morris (Manchester) and Collins (London) regarding final phantom design updates
  - Dr. Boss to use feedback to print a new 3D Phantom ready to scan the week of January 20<sup>th</sup> in Boulder, CO. Four additional modified phantoms expected by mid-Feb 2014 (5 total).
- Dr. Boss will work with Drs. Morris and Collins to confirm shipping details—Manchester to London to Cologne.
- The Phantom acquisition protocol was developed based on Philips scanners and discussed by Drs. Chenevert and Ivancevic.
  - Dr. Kirsch to provide the acquisition protocol for Siemens scanners.
  - Drs. Jackson and Dave will draft the acquisition protocol for GE scanners
    - Dr. Jackson to reach out to Scott Hinks for a GE vendor perspective

#### DWI Profile Status (Dr. Boss)

- The head and neck section of the Profile has been updated with text and references from Dr. Dave.
- Actor responsibilities and Profile compliance may be similar in structure to the DCE Profile.
- The newly edited DWI Profile (v1.09) will be posted to the QIBA WIKI.
- Dr. Boss plans to make proposals as to section assignments within the next two weeks.
- In four weeks the Profile should be ready for discussion (Feb 5).

#### DCE-MRI Profile Status (Dr. Guimaraes)

- DCE-MRI Profile v2.0 work continued during the RSNA Annual Meeting Breakout Group in December.
- The introduction has been written.
- Table formation and subsections will be assigned to a small task force.

- The transition for the compliance section from DCE to DWI should work well due to the text and site analysis similarities.
- The goal to introduce a skeleton compliance section on the Jan 22 call, and discuss the draft DCE Profile v2.0 is on Feb 5<sup>th</sup> T-con.

**ACRIN 6701 Test/Retest Protocol Discussions (Dr. Rosen)**

- Patients have been accrued at the University of Michigan site (4-5 patients), and one at U PENN
- Administrative hurdles are being cleared; a few NCI regulatory issues yet remain.
- U PENN to perform the final data analysis; Drs. Rosen, Jackson and Chenevert to discuss next steps.
- It was suggested that a review of the ACRIN 6701 Test/Retest Protocol should be scheduled for an upcoming t-con (proposed was Feb 5).

**Next t-con: Wednesday, January 22<sup>nd</sup> at 11AM (CDT)**