

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

Wednesday, 6-March-2013 at 11 AM CST (GMT-6)

Call Summary

Participants

Marko Ivancevic, PhD (Co-chair)	Barbara Croft, PhD	Xiangzhi Zhou, PhD
Edward F. Jackson, PhD (Co-chair)	Greg O. Cron, PhD	Yuxiang Zhou, PhD
Daniel P. Barboriak, MD	Dena Flamini, RT	
Michael Boss, PhD	Alexander Guimaraes, MD, PhD	RSNA
Orest B. Boyko, MD	Thanh B. Nguyen, MD	Fiona Miller
Andrew J. Buckler, MS	David E. Purdy, PhD	Joe Koudelik
Martin Buechert, PhD	Mark Rosen, MD, PhD	Madeleine McCoy
Thomas L. Chenevert, PhD	Edward Somer, PhD	

Agenda

- 1) VirtualScopics Phase I Project Update – Dr. Jackson
 - Third software release addressed some issues, but not all; additional discussion needed as to functionality
 - Dr Jackson welcomes any volunteers for additional testing of the analysis software
- 2) DRO Phase I Project Update – Dr. Barboriak
 - T1 measurement DRO study report distributed to all participating vendors and research groups; awaiting feedback
 - Level of vendor and software package disclosure for final publication not yet determined
- 3) ACRIN 6701 Test/Retest Protocol Phase II Project Update – Dr. Rosen
 - ACRIN Work Group calls continue bi-weekly; all TC members welcome to participate
 - 5-6 imaging sites pursuing qualification status
 - Technical feedback concerning the protocol and imaging instructions welcome
 - One copy of QIBA DCE-MRI Phantom to remain at UPenn for additional testing; 1-2 additional copies will be distributed for site qualification purposes
- 4) DWI Profile and IMI-QuIC-ConCePT Collaboration Update – Dr. Boss
 - Drs. Boss and Chenevert are developing the next generation of ice water phantom for use in the DWI Profile; samples with a range of ADC values will be included
 - DWI phantom analysis software to be developed jointly so both groups have access to the same tools
 - QuIC-ConCePT clinical trials focusing on liver and lung; access to test/retest data will help QIBA develop imaging protocols for these organ system
 - QIBA to provide access to test/retest data and imaging protocols for other systems (i.e., prostate)
 - DWI phantom data may eventually be posted to the Quantitative Imaging Data Warehouse (QIDW); currently an RSNA pilot project
- 5) Profile Matrix Stages and Field Testing/Compliance – Dr. Jackson
 - Discussion deferred to a future call due to lack of time

Next Steps:

- Dr. Barboriak to follow up with software vendors and research groups and discuss how the DRO study results could be translated into tangible specifications to improve software packages
- Dr. Barboriak and the PDF-MRI Tech Ctte co-chairs to develop a list of recommendations concerning possible levels of software vendor disclosure (a draft has been developed for QIBA leadership and possible Steering Committee review)

- Dr. Boss to circulate the DWI phantom design for comment/feedback
- Dr. Boss to collect DWI phantom data in efforts to submit an abstract for the 2014 ISMRM meeting
- Next t-con: Wednesday, March 20, 2013 at 11 AM (CT)