

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

Wednesday, 14-November-2012 at 11 AM CDT (GMT-5)

### Call Summary

#### Participants

Gudrun Zahlmann, PhD (Co-chair)  
Edward F. Jackson, PhD (Co-chair)  
Orest B. Boyko, MD  
Andrew J. Buckler, MS  
Thomas Chenevert, PhD  
Daniel Gembris, PhD  
Gregory Kaczmar, PhD  
Hendrik Laue, PhD  
Chen Lin, PhD  
Estanislao Oubel, PhD

Thorsten Persigehl, MD  
David E. Purdy, PhD  
Mark Rosen, MD, PhD  
Daniel C. Sullivan, MD  
Ying Tang, PhD

#### RSNA

Joe Koudelik  
Madeleine McCoy

#### General Discussion

##### Meet the Expert Sessions at RSNA 2012 Annual Meeting

- Committee members have the opportunity to discuss committee projects and goals during the noon-time MTE sessions Sunday – Thursday at RSNA - Doodle poll: <http://doodle.com/qi8fhbm6m3wtzsvv>
- Drs. Rosen and Karczmar volunteered for Wed, 12:15-12:45 and Thur, 12:45-1:15, respectively

##### Phase II Project Update (Dr Rosen)

- Feedback being received from queries sent to ten potential imaging sites
- Dr Rosen to ship the Ice Water DWI Phantom and acquisition instructions/protocol to any interested sites
- Expect final data collection completed in 1-2 more months for phantom qualification on 3T platforms
- PENN to be first acquisition site; will need to collaborate with ACRIN for shipping details
- Dr Rosen to present an update concerning patient accrual on a future t-con
- All sites interested in participating encouraged to contact Dr Rosen directly at: [mark.rosen@uphs.upenn.edu](mailto:mark.rosen@uphs.upenn.edu)
- Target would be 6 sites with option for 4 more

##### DWI Profile discussed (Dr Chenevert)

- QC procedures still needed for the DWI Profile
- Template needed for QC section of the DWI Profile outlining generalized tasks required
- Dr Chenevert to outline QC process based on ACRIN organ-specific protocol designs incorporating platform certification and periodic QC checks; committee feedback welcomed to avoid any ACRIN-heavy (1-sided) process language
- DWI phantom scans will be sent to Dr Chenevert for assessment; report stating finding to be created for ACRIN

##### DCE-MRI Phantom v2 (Dr Jackson)

- Image acquisition protocol has been completed
- Four DCE-MRI validation phantoms available at MDACC, with four more being filled and ready soon
- Shipping of DCE-MRI v2 phantom not required until all acquisition sites are identified
- Phantom shipping deemed a difficult logistical and costly effort
- Drs Rosen and Jackson to follow-up offline concerning DCE-MRI v2 phantom shipping logistics
- VirtualScopics software to provide image analysis

- Generic study guidelines and analysis software needed for acquisition sites

QIBA Working Meeting (Breakout Session) at RSNA 2012; Nov 28<sup>th</sup>, 4:15pm – 5:30pm

- Focus to be on DWI Profile Claim and outline development including QC procedures
- May need to revisit Profile Claims in light of the Metrology Claim Template developed
- Concise summary of Metrology Working Group may be reviewed

RSNA 2012 ANNUAL MEETING ACTIVITIES-Chicago, McCormick Place

- **Special Interest Session- *What Imaging Measurements are needed in Clinical Practice?***  
Monday, November 26<sup>th</sup> at 4:30pm – 6:00pm; Room: N228
- **QIBA Technical Committees Working Meeting**  
Wednesday, November 28<sup>th</sup> at 3:00pm – 5:30pm; Room: N136

Next t-con: Wednesday, December 12, 2012 at 11 am (CST)