QIBA Perfusion, Diffusion and Flow – MRI Technical Committee Update Call
Wednesday, 27-June-2012 at 11 AM CDT (GMT-5)

Call Summary

**Participants**
- Gudrun Zahlmann, PhD (Co-chair)
- Edward F. Jackson, PhD (Co-chair)
- Marko Ivancevic, PhD (Co-chair)
- Michael Boss, PhD
- Andrew J. Buckler, MS
- Patricia E. Cole, PhD, MD
- Daniel Gembris, PhD
- Alexander Guimaraes, MD, PhD
- Donna Hartfeil, BSN
- Jiachao Liang, PhD
- Estanislao Oubel, PhD
- David E. Purdy, PhD
- Mark Rosen, MD, PhD
- Rohit Sood, MD, PhD
- Brandon Whitcher, PhD
- Ona Wu, PhD
- Xiangzhi Zhou, PhD
- Glenna Gabrielli
- Gwen (CoreLabs)
- Sarah (Penn/ACRIN)
- Maria Oh (ACRIN)
- Dena Flamini
- Joe Koudelik
- Madeleine McCoy

**ACRIN Participants**

**RSNA**

**Combined QIBA ACRIN T-Con Re ACRIN 6701 Test-Retest Trial (Dr. Rosen)-Agenda**

- Current status of protocol: Rosen/Hartfeil
- Site update Penn:
  - Protocol Activation: Rosen
  - DWI phantom: Chenevert
  - DCE-MRI phantom: Rosen/Jackson
- Possible protocol amendment, coffee break DWI test: Rosen/Chenevert
- Form Update: Rosen/Gabrielli
- Imaging Manual Update: Rosen/Flamini
- Other Site Recruitment

**General Discussion**

- IBR approval received and budgetary issues are being handled by Ms. Donna Hartfeil of ACRIN
- The next step is to determine what to do with the phantom image analysis
- Dr. Jackson will follow-up with the GE 3T and 1.5T platforms. Dr. Rosen to forward the first set of Siemens raw image data to Dr. Jackson for cross-vendor comparisons.
- Discussions of the distortion correction filter being removed from the acquisition protocol language.
- Dr. Rosen to address:
  - Application of the analysis for the ACRIN study
  - Recommendations for the community
  - Expected outcomes
- The “complete package” consisting of the DCE-MRI phantom (v2), image-acquisition protocol, acquired DCE-MRI Phantom (v2) image data and the data analysis tools are nearly complete for full testing; pending a software update
- Scanner sequence cards may need to be revised—but will not be included in the imaging manual
- Potential buy-in/excitement still needed to recruit additional imaging sites for the ACRIN test-retest study
- An amendment to the protocol proposed to include a DWI “coffee break” test procedure to compare short-interval test-retest image acquisitions; Dr. Rosen to incorporate this minor procedural change into the protocol
• Site participation forms will need to be revised taking into account the coffee-break modification so that recruitment may proceed June through September of 2012
• 6-8 months expected for all sites to completes data acquisition
• Standards for site qualification discussed
  o Machine stability compliance issues need to be addressed; metrics to be identified
  o DCE-MRI Phantom (v2) to be used for initial imaging site qualification and subsequent QC
  o QC to be performed at yearly intervals, or after major scanner software upgrades

Next steps:
• RSNA Staff to post the latest version of the Profile and the Imaging Manuals to the QIBA WIKI
• DWI change metrics needed for the DWI Profile; Drs. Rosen and Chenevert to follow-up off-line
• Next call scheduled for Wednesday, July 11th, 2012 at 11 AM CDT