

QIBA PDF-MRI Technical Committee Update Call

18 April 2012 at 11 AM CDT (GMT-6)

Call Summary

In attendance

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| Gudrun Zahlmann, PhD (Co-chair) | Daniel Gembris, PhD | Daniel Sullivan, MD |
| Edward F. Jackson, PhD (Co-chair) | Alexander Guimaraes, MD, PhD | Ying Tang, PhD |
| Sandeep N. Gupta, PhD (Co-chair) | Gregory Karczmar, PhD | Brandon Whitcher, PhD |
| Daniel P. Barboriak, MD | Hendrik Laue, PhD | Ona Wu, PhD |
| Michael Boss, PhD | Jiachao Liang, PhD | Xiangzhi Zhou, PhD |
| Martin Buechert, PhD | Estanislao Oubel, PhD | |
| Paul L. Carson, PhD | David E. Purdy, PhD | RSNA |
| Thomas L. Chenevert, PhD | Mark Rosen, MD, PhD | Joe Koudelik |
| Patricia E. Cole, PhD, MD | Edward Somer, PhD | Madeleine McCoy |

Discussion of QIBA ACRIN 6701 protocol (Dr. Rosen)

- The modified imaging protocol was accepted by CTEP and it is posted on the ACRIN website
- Prostate study to engage 6 different acquisition sites, utilizing scanners from 3 different vendors (GE, Philips, Siemens) using 30 patient cases is the target
 - Dr Rosen to follow-up with 3-4 interested clinical sites
 - Anyone interested in participating should contact Dr Rosen directly
- Imaging manual will need to include specific vendor scanner language
 - Dr Jackson will help provide GE scanner-specific parameters
 - Dr Ivancevic to help provide Philips scanner-specific parameters

Dr. Jackson reviewed the status of the DCE-MRI Phantom V2

- Four phantoms have been received, filled and scanned at MD Anderson (1.5 and 3 T for inter-phantom comparison and scan repeatability)
- RSNA approved the residual NIBIB project funds to be used to purchase additional phantoms which will include minor adjustments to the original design
- Two V2 phantoms to be shipped to Dr Rosen at UPENN for testing
- 3T and Parallel Imaging to be pursued; Dr. Persigehl's Round-3 NIBIB proposal was discussed as a potential connection with the current V2 DCE-MRI phantom set
- Drs Guimaraes and Rosen to work offline on discussing ACRIN study contribution to topics to be covered in the DCE-MRI Profile V2

Round-3 NIBIB Project Proposals

- The timelines of the most urgent projects was discussed, with the DWI profile at the top of the list

A combined DCE and DWI Technical Committee name was discussed and chosen

- "Perfusion, Diffusion and Flow - MRI" (PDF-MRI)

QIBA-RIC Open Image Archive

- Drs Zahlmann and Jackson briefed the TC on the QIBA Imaging Data Warehouse (QIWD) project details
- Need for image uploading, storage, searchability and download functionality discussed

Next Steps

- Dr Rosen to circulate the ACRIN test/retest study imaging manual once ready
- Dr Rosen to provide a study update (ie, site and vendor engagement) on next calls
- Dr Jackson to provide Dr Andriole with the expected memory (storage) needs for the DCE-MRI V2 phantom data on the RSNA developed image warehouse (QIBA-RIC implementation project)
- Next call scheduled for Wednesday, May 2, 2012 at 11am (CT)