

## QIBA DCE-MRI Technical Committee Update Call

Wednesday, January 25, 2012

### Call Summary

#### In attendance

Gudrun Zahlmann, PhD (Co-chair)  
Edward Jackson, PhD (Co-chair)  
Sandeep Gupta, PhD (Co-chair)  
Michael Boss, PhD  
Orest Boyko, PhD  
Martin Buechert, PhD  
Paul Carson, PhD  
Barbara Croft, PhD

Daniel Gembris, PhD  
Alexander Guimaraes, MD, PhD  
Marko Ivancevic, PhD  
Gregory Karczmar, PhD  
Hendrik Laue, PhD  
Jiachao Liang, PhD  
Chen Lin, PhD  
Estanislao Oubel, PhD  
David Purdy, PhD

Mark Rosen, MD, PhD  
Daniel Sullivan, MD  
Ying Tank, PhD  
Gerald Wolf, PhD, MD  
Ona Wu, PhD  
Xiangzhi Zhou, PhD

#### RSNA

Joe Koudelik

#### DWI proposal

- Plans to propose DWI to the QIBA Steering Ctte (SC) as a new “task” under the DCE-MRI Tech Ctte (not a new TC itself) confirmed
- Routine clinical use of DWI throughout the body makes this a strong BM and Profile to pursue
- Tech Ctte member feedback requested before the SC in-person meeting on Feb 1; feedback to be sent directly to Dr Zahlmann for incorporation
  - Drs Boss and Wu suggested minor text edits
- Initial volunteers to staff the DWI include:
  - Drs Wu, Guimaraes, Zahlmann, and Jackson

#### Phantom data

- Dr Jackson spoke with Mr John Freymann (NBIA) to discuss the potential options available to using the TCIA repository for DCE-MRI datasets
- Types of data to be stored discussed, including DRO, ground truth images and phantom acquisition parameter details; database requirements need to be identified including metadata and supporting documents
- Curation of data, DICOM tag details, customization of search fields and a key contact person needed for each dataset ease of use
- Decision made to populate the NBIA/TCIA with phantom and analysis data sets; guidance needs to be drafted
- Convenience of data analysis software access deemed critical
- Drs Jackson, Zahlmann and Barboriak (core group) to update Mr Freymann with database requirements
- Noted was that the QIBA/RIC Task Force was drafting archive/warehouse recommendations for the RIC to consider. If approved a recommendation will be forwarded for consideration by the RSNA Board.

#### Test/Retest Project (Dr Rosen)

- Progress has been made on the test-retest project with ACRIN
- Original DCE-MRI protocol was deemed too general; test/retest protocol was submitted the ACRIN with minor revisions; suggested to be put forward as the first UPCIT image acquisition protocol
- Dr Rosen to draft an overview template for the diverged image acquisition Protocol within the month
- A core group was proposed to function as a technical sounding-board, i.e., to support data analysis

**Metrology**

- A new Metrology Planning Workshop has been scheduled for April 2012
- Preparatory t-cons scheduled to discuss basic definitions used in quantitative imaging and associated statistical analysis common across all QIBA Tech Cttes

**Next Steps**

- Dr Rosen to draft an overview template for the diverged test/retest image acquisition Protocol within one month
- Dr Ashton to present an update concerning his phantom analysis software on the next group call
- Next call scheduled for Wednesday, Feb 8, 2012 at 11 am CST