

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

Wednesday, 25-June-2014 at 11 AM CDT

### Call Summary

#### Participants

**Mark Rosen, MD, PhD (Co-Chair)**

**Gudrun Zahlmann, PhD (Co-Chair)**

Michael Boss, PhD

Thomas Chenevert, PhD

Amita Dave, PhD

James Ewing, PhD

Dena Flamini, RT

Daniel Gembris, PhD

Jim Gimpel, RT

Alexander Guimaraes, MD, PhD

Dennis Hedderich, MD

Edward Jackson, PhD

John Kirsch, PhD

Hendrik Laue, PhD

Chen Lin, PhD

Thorsten Persigehl, MD

David Purdy, PhD

Walter Schneider, PhD

Brian Taylor, PhD

Yuxiang Zhou, PhD

#### RSNA

Joe Koudelik

Madeleine McCoy

#### Feedback from the IMI QuIC-ConCePT Annual Meeting

- Discussions were project specific including phantom design and feedback regarding testing
- Within the next 8 weeks, QIBA PDF-MRI Tech Cttee to review and provide feedback on the first draft of the QuIC-ConCePT liver imaging protocol
- The goal is to sustain qualified imaging biomarker activities
- An EORTC/QIBA collaboration MOU is being drafted; will be presented for QIBA review and signature soon

#### QIBA DCE-MRI Compliance Document Review

- Dr. Guimaraes reviewed the section-related task list and updates were provided
  - Qualified/accredited/compliant (Dr. Zahlmann)
    - Compliance activities will be on an honor system; manufacturers will have a checklist for software and hardware, while clinical trial sponsors will be responsible for site compliance
    - Dr. Zahlmann to provide Dr. Guimaraes draft text re: how QIBA plans to monitor/oversee Actor compliance
  - Phantom Choice (Dr. Jackson)
    - Though other phantoms may exist, a decision was made to use the DCE-MRI Phantom due to user experience and close ties to current Profile implementation
    - The appendix will include general parameters for using the DCE Phantom in the R1 range
  - Frequency Phantom requalification (Dr. Rosen)
    - ACRIN 6701 implements MR scanner requalification every 6-12 months; deemed a reasonable schedule for QIBA qualification as well
    - Using the current ACR qualification guidelines considered sufficient as a starting point; eventually supplementing with QIBA-specific performance requirements (beyond ACR needs)
    - Dr. Rosen will compose two to three paragraphs re ROI analysis frequency
  - Compliance details re: DROs for software package comparison (Dr. Barboriak)
    - Dr. Guimaraes will reach out to Dr. Barboriak re the DRO
  - Documentation provided as part of compliance (Drs. Boss and Guimaraes)
    - All activities involved must prove Actor compliance to the Profile
    - Clear compliance criteria is needed for all Actors
    - Dr Rosen to draft 2 paragraphs re: How Core Labs define studies
  - Compliance checklists /appendices (Drs. Guimaraes and Rosen)
    - Imaging site checklist being developed by Drs Guimaraes and Persigehl
    - Scanner checklists needed for each manufacturer - query each vendor representative for details

#### DWI Phantom Update (Dr Boss)

- The phantom patent issue has been resolved and production is moving forward
- Drs. Persigehl and Hedderich to give an update on DWI-phantom measurements made at Cologne on the next t-con.

**NIBIB Round 4 Project Update**

- Dr. Laue to send the co-chairs his revised Round 4 Project
- July 7<sup>th</sup> is the deadline to submit revisions to [jkoudelik@rsna.org](mailto:jkoudelik@rsna.org); Steering Committee review on July 17<sup>th</sup>
- PDF-MRI Co-Chairs to provide feedback to Dr. Laue
  - RSNA Staff to schedule a t-con

**Next t-con: QIBA PDF-MRI Tech Ctte Update T-Con, Wednesday, July 9, 2014 at 11am (CT)**