

QIBA Perfusion, Diffusion and Flow – MRI Biomarker Committee Update Call

Wednesday, 07 January 2015 at 11 AM CT

Call Summary

Participants

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|--|---------------------------|------------------------|-------------------|
| <i>Marko Ivancevic, PhD (Co-Chair)</i> | Brad Erickson, MD, PhD | Meng Law, MD | Hui Jing Yu, PhD |
| <i>Mark Rosen, MD, PhD (Co-Chair)</i> | Jacob Fluckiger, PhD | Nancy Obuchowski, PhD | Yuxiang Zhou, PhD |
| <i>Gudrun Zahlmann, PhD (Co-Chair)</i> | John Garber, MBA | Thorsten Persigehl, MD | |
| Rajpaul Attariwala, MD, PhD | Daniel Gembris, PhD | James Provenzale, MD | RSNA |
| David Bennett, PhD | Bernadette Greenwood, BSc | Snuder Rajan, PhD | Joe Koudelik |
| Michael Boss, PhD | Gary Gong, MD, PhD | Mark Shiroishi, MD | Julie Lisiecki |
| Martin Buechert, PhD | Alex Guimaraes, MD, PhD | Daniel Sullivan, MD | |
| Thomas Chenevert, PhD | Marta Heckel | Brian Taylor, PhD | |
| Caroline Chung, MD | Edward Jackson, PhD | Jihong Wang, PhD | |
| Amita Shukla Dave, PhD | John Kirsch, PhD | Ona Wu, PhD | |
| Sarah Englander, PhD | Hendrik Laue, PhD | Dewen Yang, MD, PhD | |

General Discussion

DWI Phantom / Protocol / Profile Update (Dr Boss)

- All phantoms shipped (except Brazil) and received by participating imaging sites
- Imaging protocol being finalized
- Once edits are completed, protocol to be Wiki posted and BC Cmte notified for reference
- Imaging data from multiple sites will be stored on the QIDW
- Dr Chenevert's DWI phantom analysis software also be publicly available
- Gold standard ADC values still needed for quantitative reference
- Phantom study to proceed for 12+ months in efforts to gather repeatability, reproducibility, and long-term phantom stability data
- QuIC-ConCePT collaboration feedback needed re the current protocol, especially lung review, prior to the Public Comment phase; Dr Boss to notify Dr Zahlmann once protocol is ready
- Dr Boss plans to Poll for a t-con with all site leaders to discuss next steps
- Review of ADC Profile claim language by all cmte members encouraged
- Profile section contributors requested to review their text for accuracy:
 - QC section: Drs Guimaraes and Chenevert
 - Head & Neck section: Dr. Dave
 - Subject handling section: etc
- Dr Boss to send staff the revised Profile for Wiki posting within four weeks – this will be reviewed/discussed on the next two PDF BC calls

DCE Compliance Language Update (Dr. Guimaraes)

- Compliance issue identified in DCE Profile ver 1.0 – need to revise in terms of Metrology Group criteria
- A common terminology is needed across all modality Profiles
- Specific "Actor" roles need to be identified and accounted for
- Dr Guimaraes has been appointed as Chair of the new QIBA MR Coordinating Cmte; this will limit his availability as DCE Profile Editor; any assistance with Profile version 1.0 editing would be welcome
- General vs. task-specific Actor roles need to be fleshed-out
- How to confirm Actor task compliance yet to be determined
- Suggested was to finalize DCE Profile ver 1.0 as currently written, and begin a parallel effort on ver 2.0 with a 3T and Parallel Imaging focus
- With limited availability, Dr Guimaraes requested that a new Profile Editor take over the ver 2.0 Profile

Next t-con: February 4, 2015 (no t-con on Jan 21 due to the QIBA Steering Ctme meeting in Chicago)