

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

Wednesday, 10 June 2015 at 11 AM CT

Call Summary

Participants

John Kirsch, PhD (Co-Chair)

Harsh Agarwal, PhD

Rajpaul Attariwala, MD, PhD

David Bennett, PhD

Joseph Borrello, MD

Mark Brown, PhD

Thomas L. Chenevert, PhD

Bradley Erickson, MD, PhD

Daniel Gembris, PhD

Xiangzhi Zhou, PhD

Bernadette Greenwood, BSc

Edward F. Jackson, PhD

Daniel Krainak, PhD

Hendrik Laue, PhD

Elizabeth Mirowski, PhD

James Provenzale, MD

Kathleen Schmainda, PhD

Walter Schneider, PhD

Gary Gong, MD, PhD

James Gimpel, RT

Mark Shiroishi, MD

Daniel Sullivan, MD

Ying Tang, PhD

Jihong Wang, PhD

Ona Wu, PhD

Dewen Yang, MD, PhD

Gudrun Zahlmann, PhD

Yuxiang Zhou, PhD

Timothy Kaufman, MD

Dena Flamini, RT

RSNA

Joe Koudelik

Susan Weinmann

Moderator: Dr. Kirsch

2015 ISMRM Annual Meeting Update

- Quantitative imaging was a key topic at this year's convention
- Sessions included:
 - Perfusion permeability evaluation studies
 - DROs as the topic –specifically, the session on isotropic diffusion phantoms was referenced
 - Cross-software/cross-platform comparisons
- Discussion ensued regarding the need to have a greater QIBA presence at next year's meeting
 - Dr. Jackson to report back to group on whether dedicated QIBA sessions will be on agenda in Seoul next year
 - QIBA can provide good examples to lead standardization/recommendation on phantoms to make broader community aware of all aspects of QIBA
 - QIBA has amassed a large quantity of phantom data, and needs to increase visibility through publications
- It was stated that it may be beneficial to condense and distribute salient points made at ISMRM with respect to quantitative imaging biomarkers; it could be worth it to learn what efforts are being made around the world in quantitative imaging in the MR community
- Dr. Mirowski reported that 33 perfusion phantoms were sold by High Precision Devices - 12 of those went to QIBA

Round 4 Projects

- The PDF-MRI BC was reminded to keep projects on track to be completed no later than September in efforts not to jeopardize receiving the next federal contract, anticipated this fall
 - Dr. Jackson will follow up with Dr. Barboriak for an update on his Round-4 project
 - Dr. Jackson's Round-4 project is on track and deliverables will be achieved

Round 5 Projects

- There is a total of five MR-related projects
- Dr. Barboriak's project will be submitted as multi-modality
- Dr. Provenzale's DTI project was withdrawn
- Project prioritization by Coordinating Committee voting members has been completed

- Prioritization results will be passed on to the Steering Committee for final review and scoring; results expected soon after the June 18th SC call

DWI Update (Dr. Chenevert)

- Due to low attendance, the recent DWI TF call will be rescheduled Profile development continues
- The DWI Phantom Positioning Guide was displayed
- Revisions to the phantom imaging protocol pertaining to scanning orientation within the orthogonal plane were described
- Additional reference images showing proper phantom positioning within the head-coil deemed useful
- Dr. Mirowski (High Precision Devices) welcomed input regarding phantoms labeling/serial # sticker location
- Dr. Mirowski proposed integrating small bubble levels within future phantoms to help with proper positioning

DCE-MRI Literature Review Update (Dr. Laue)

- Due to low attendance, the recent DWI TF call will be rescheduled
- A quick summary of continued efforts with literature search tools was provided
- Reference manager tools Mendeley and Zotero were briefly reviewed
- Dr. Laue will update the QIBA wiki with literature search/sort-tool software for group reference

Next PDF-MRI Biomarker Committee Call:

June 24th: to include update from the DSC Task Force