

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

Wednesday, January 20, 2016 at 11 AM (CST)

Call Summary

Participants

Mark Rosen, MD, PhD (Co-Chair)

Harsh Agarwal, PhD

Hubert Beaumont, PhD

Mark Brown, PhD

Thomas Chenevert, PhD

Amita Dave, PhD

Timothy Dondlinger

Bradley Erickson, MD, PhD

Daniel Gembris, PhD

Edward Jackson, PhD

Daniel Krainak, PhD

Hendrik Laue, PhD

Dariya Malyarenko, PhD

Elizabeth Mirowski, PhD

Nancy Obuchowski, PhD

David Purdy, PhD

Jason Stafford, PhD

Ying Tang, PhD

Brian Taylor, PhD

Junqian (Gordon) Xu, PhD

Dewen Yang, MD, PhD

Xiangzhi Zhou, PhD

RSNA

Joe Koudelik

Susan Weinmann

Moderator: Dr. Rosen

ACRIN Field Test of DCE Profile Claims (Dr. Rosen)

- Round-2 project continues with collection and analysis of additional data
- More than thirty subjects across six institutions have had repeat scans performed on all the major vendor systems
- On average there is one extra case per site, allowing for refinement of protocol
- A cross-vendor performance comparison will not be performed
- Analyzing effects of reader segmentation continues
 - Will have robust data sets for evaluation in a couple of months
 - PDF-MRI BC members to be invited to help with analysis
 - Variation in quantitative metric to be tested
 - De-identified data sets to be uploaded to QIDW, once released by ACRIN
 - Will work on ways to keep segmentation image data shareable
- Dr. Jackson added that DCE phantom data are currently being shared on the QIDW
 - Additional data to be loaded soonAlso expecting de-identified clinical data from other modalities
- Dr. Obuchowski offered to help with statistical analysis, if needed by the ACRIN/Brown statisticians

DCE TF Update (Dr. Laue)

- **DCE Profile is 1/3 completed**

MR Vendor Subcommittee Update (Dr. Jackson)

- A cross-modality vendor group is being discussed
- The Subcommittee proposal will be presented and model discussed at the f2f Steering Committee Meeting on January 27 in Chicago
- The MR Vendor Subcommittee was invited to the February 9 DCE TF call

DWI Update (Dr. Chenevert)

- Volunteers have agreed to scan phantoms
- More detail in protocol for Philips systems has been requested
- Do not have the power to perform a comparison of scanners, although they would have truth in PVP values
- Dr. Mirowski (High Precision Devices, Inc.) would like to offer free analysis software to those using purchased DWI diffusion phantoms
- Dr. Chenevert is creating an informational document to explain the functionality of the software

DSC Update (Dr. Erickson)

- Within QIN, the topic of how to combine data is frequently discussed
- The DSC phantom is currently being designed as a Round-5 funded project

Next PDF-MRI Biomarker Committee Call: February 3, 2016 at 11 AM CST