

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