

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

Wednesday, June 21, 2017 at 11 AM (CT)

Call Summary

Participants

Michael Boss, PhD (Co-Chair)

John Kirsch, PhD (Co-Chair)

Mark Brown, PhD

Thomas Chenevert, PhD

Amita Dave, PhD

Cathy Elsinger, PhD

Daniel Gembris, PhD

Gloria Guzman, MD, MSc

Edward Jackson, PhD

Daniel Krainak, PhD

Hendrik Laue, PhD

Dariya Malyarenko, PhD

Elizabeth Mirowski, PhD

Walter Schneider, PhD

Samir Sharma, PhD

Junqian (Gordon) Xu, PhD

RSNA

Joe Koudelik

Susan Weinmann

Moderator: Dr. Boss

DWI TF Update (Dr. Boss)

- Update on DWI Profile public comment process
 - Discussion on ways to address the lack of public comments received with five weeks remaining until the July 28 deadline
 - Number and timing of comments received may be variable among QIBA Profiles
 - Ways to better publicize, or raise awareness of QIBA Profiles deemed critical
 - Due to the fact that Profiles are lengthy documents, it may require time for them to be reviewed
 - The AAPM contact has received the Profile and has reminded leaders of the review deadline
 - The Committee were encouraged that AAPM had been notified and are engaged
 - Dr. Kirsch forwarded the Profile to several Siemens contacts and will follow up with them individually
 - Suggestion made to distribute an abridged version of the Profile to a targeted roster of recipients
 - Focusing on the claim, or ~2 high-level concept pages was suggested (in addition to sending the entire Profile) since this may be an easier ask of reviewers and may result in modest feedback
- DWI Checklist
 - There was extensive conversation in the last DWI TF call regarding tasks to focus on during the DWI Profile public comment period
 - Dr. Boss referenced checklists of other QIBA groups, found on Profiles page at: <http://qibawiki.rsna.org/index.php/Profiles>
 - The CT Vol checklist was used as a template to develop the DWI checklist
 - The checklist was broken out by sections and assigned to volunteers
 - Physicist and Technologist sections will be drafted by Dr. Boss
 - Dr. Boss noted that the checklist will likely be ready after the Public Comment phase is closed
- Dr. Boss provided an update on diffusion measurement efforts to establish ground truth
 - Temperature-dependent study assessing water and five concentrations of PVP at 0C, 15C, 20C, 25C and 37C; data is being collected and analyzed for discussion
 - Update provided on ground truth measurements of diffusion coefficient at 0C

Upcoming PDF Task Force Updates:

- July 5: DCE Task Force [Swapped dates with DSC TF]
- July 19: DSC Task Force
- August 2: ASL Task Force
- August 16: DTI Task Force
- August 30: DWI Task Force

Next PDF-MRI BC Call: Wednesday, July 5, 2017 at 11 AM CT [Tentative]

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