

QIBA Diffusion-Weighted Imaging MR Biomarker Committee (BC) Meeting

Wednesday, January 19, 2022, at 3 pm (CT)

Meeting Summary

Participants

Michael Boss, PhD (Co-chair)

Dariya Malyarenko, PhD (Co-chair)

Rajpaul Attariwala, MD, PhD

Ishtiaq Bercha, MSc, MSEE

Thomas Chenevert, PhD

Amita Shukla Dave, PhD

Wen Li, PhD

Daniel Margolis, MD

Kevin Miller, MS

Nancy Obuchowski, PhD

Savannah Partridge, PhD

RSNA

Susan Stanfa

Topics:

- Publication updates
 - The DWI prostate repeatability paper that supports the prostate Claim in the DWI Profile was accepted by *JMRI*
 - Carr, et al. [Determining the longitudinal accuracy and reproducibility of T1 and T2 in a 3T MRI scanner](#) was published by *the Journal of Applied Clinical Medical Physics*
- DWI white paper
- DWI Technical Conformance Task Force update: Dr. Malyarenko consolidated and categorized site feedback discussed during the Dec. meeting
- Collaborations with ACR/PIRADS

Next Steps / Action Items:

- Staff to link audio recording of previous meeting to invitations; link accessible for ~60 days
- Dr. Boss to arrange a 2-hour long DWI TF meeting to evaluate DWI Profile checklist specifications in accordance with Process Cmte guidelines
 - Access to the Google Sheet of site feasibility/test feedback can be requested from Dr. Boss
 - DWI BC and MR CC voting will follow to advance the Profile to Stage 3 (Technically Confirmed)
 - Profile checklists to be updated to align with site conformance protocol and to reflect site feedback
 - DWI Technical Confirmation resolutions doc to be posted on the [Comment Resolutions page](#) of the QIBA Wiki
- The goal is to complete Technical Confirmation (stage 3) by the end of February, then shift focus to the white paper, submit it to *Radiology*, and finally, the new, streamlined Profile template will be adopted
- Dr. Boss to create an outline of the white paper in a Google Doc to facilitate collaboration and avoid versioning issues and he can be contacted for access
 - Introduction to include detail on importance and value of quantitation in DWI-MR: Dr. Partridge is responsible and Drs. Attariwala and Bercha volunteered to assist
 - Dr. Boss to work on Claims with Dr. Dave and on the overall structure with Mr. O'Donnell; Dr. Kinahan's FDG-PET and Dr. Chalian's MSK Profile papers to be added to the white paper Google Drive for reference
 - Statistics and performance metrics: Dr. Obuchowski, Conformance testing: Dr. Chenevert and Mr. Miller, and DRO: Dr. Malyarenko
 - Off-schedule meetings to be arranged for white paper tasks as necessary
- Researchers interested in leading a whole body (WB-DWI) quantitation study can be referred to Dr. Attariwala
- Dr. Malyarenko to request final version of ADC manuscript that the VERDICT team submitted to *Euro. Radiology*
- ACR/PIRADS: Interested in quantitative assessment of prostate; 5-6 sites to focus on increasing image quality
- Follow-up meeting on prostate ACR/PIRADS improvement of image quality and quantitative rigor in early 2022
- Drs. Boss and Malyarenko to reach out to Guzmán to arrange an H&N study update to DWI BC members

Next DWI-MR BC Meeting: Wednesday, February 16, 2022, at 3 p.m. (CT)

RSNA Staff attempt to capture all committee members participating on Zoom meetings. However, if attendees join only by phone, or do not use a recognizable name, identification is not possible. Participants are welcome to contact RSNA staff at qiba@rsna.org if their attendance is not reflected on meeting summaries.