

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

Tuesday, May 30, 2023, at 1 pm (CT)

Draft Meeting Summary

Participants

			RSNA
Michael Boss, PhD (Co-chair)	Amita Shukla Dave, PhD	Savannah Partridge, PhD	Susan Stanfa
Dariya Malyarenko, PhD (Co-chair)	Nandita deSouza, MD	Rebecca Rakow-Penner, MD, PhD	
Daniel Margolis, MD (Co-chair)	Brigid McDonald, PhD	Jaemin Shin, PhD	
Rajpaul Attariwala, MD, PhD	Kevin Miller, MS	Lisa Wilmes, PhD	
Suchandrima Banerjee, PhD	Peter Ngum, MSc	Jessica M. Winfield, PhD	
Thomas Chenevert, PhD	Nancy Obuchowski, PhD		

Discussion Topics

- CaliberMRI conformance testing supplement
- Scientific report (formerly referred to as white paper)
- May 10 QIBA Annual Meeting
- Presentation series: AI algorithms for image quality improvement

Action Items:

- Conformance testing supplement was updated to include procedures for using the CaliberMRI qCal software
 - Procedures are based on the ice water, rather than room temperature phantom
- Scientific report: results of the literature review have been summarized and are being assessed
- Presentations can be access from the [May 10 QIBA Annual Meeting website](#)
- Application of deep learning (DL) reconstruction to diffusion weighted MRI (Dr. Suchandrima Banerjee - GE Healthcare)
 - Comparison of conventional MR image reconstruction vs. AIR™ Recon DL
 - DL reconstruction shows noticeably lower dispersion (uncertainty), indicating effective noise and artifacts reduction with DL

Next Steps:

- Conformance testing supplement to be forwarded to Dr. Partridge for review; final version to be sent to RSNA staff for QIBA Wiki positing
- Dr. Obuchowski to review prostate literature and determine the necessary adjustment to the Profile Claim
- Dr. Partridge to review breast and brain new lesion literature and determine whether they are consistent with Claims; she will also review interobserver studies for the discussion section
- **Next DWI-MR BC Meeting:** June 27, 2023, at 1 p.m. CT [4th Tuesday of each month)
 - Canon Medical to be invited to present

Participants are welcome to contact RSNA staff at qiba@rsna.org if their attendance is not reflected in meeting summaries.