

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

Tuesday, August 29, 2023, at 1 pm (CT)

## Meeting Summary

### Participants

Michael Boss, PhD (Co-chair)

Dariya Malyarenko, PhD (Co-chair)

Daniel Margolis, MD (Co-chair)

Trevor Andrews, PhD

Thomas Chenevert, PhD

Amita Shukla Dave, PhD

Moti Freiman, PhD

Kevin Miller, MS

Nancy Obuchowski, PhD

Rebecca Rakow-Penner, MD, PhD

Dafna Sourani-Link, PhD

Callie Weiant, JD

Lisa Wilmes, PhD

### RSNA

Susan Stanfa

### Discussion Topics

- Letter to RSNA Quantitative Imaging Committee (QUIC)

### Action Items:

- ADC to be advocated for as one of the 1 – 3 QIBs on which QUIC could focus
- DWI BC accomplishments to be highlighted
  - Several funded groundwork projects with notable output and adoption by the community, including digital reference object, analysis software, physical phantoms, Profiles
  - Profile engagement with groups outside of QIBA, e.g., VERDICT, among others that have led to publications
  - Commercial activity, e.g., CaliberMRI
  - Pathways to clinical impact and necessary resources to be defined
    - Mirror message in [Delivering a Quantitative Imaging Agenda](#)
  - Future plans to advance quantitative imaging in the clinic
    - Commitment to speak at upcoming conferences to continue to emphasize the importance of quantitative imaging, especially with more AI approaches being utilized for imaging acquisition and processing
    - ADC is the start of quantitative diffusion, not the end, e.g., restricted diffusion models, advanced diffusion models
    - Scope of quantitative diffusion is constantly expanding or being refined
      - Interest in adding head and neck Claim to current stage 3 Profile
      - Evidence of stronger repeatability in the prostate that would significantly reduce the reproducibility coefficient in half to 21%

### Next Steps:

- Drs. Margolis and deSouza to write and circulate an outline or draft of a 2 – 3-page letter to QUIC by Sept. 10
  - Meeting to be scheduled for ~9/17 to discuss draft
  - Letter to be finalized by September 30
- Meeting with Dr. Malyarenko, Obuchowski, Partridge, et al., to be scheduled to review prostate literature and confirm whether there are sufficient data to support Profile Claim adjustment
  - Dr. Malyarenko to locate references and re-send to Dr. Obuchowski
- Scientific report text to be circulated by September 30
- **Next DWI-MR BC Meeting:** One-time schedule adjustment to Wed., September 27, 2023, at 1 pm CT

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Participants are welcome to contact RSNA staff at [giba@rsna.org](mailto:giba@rsna.org) if their attendance is not reflected in meeting summaries.