

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

Tuesday, March 28, 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

Amita Shukla Dave, PhD

Nandita deSouza, MD

Lucas McCullum, MS

Brigid McDonald, PhD

Savannah Partridge, PhD

Lisa Wilmes, PhD

Jessica M. Winfield, PhD

### RSNA

Susan Stanfa

### Topics:

- White paper
- Addition of Head & Neck cross-sectional Claim to Profile
- H&N ADC repeatability groundwork project update

### Next Steps / Action Items:

#### White Paper

- To be reformatted into a short Google doc with supplementary materials located at the end, for BC member feedback

#### Literature Search for White Paper / Next Iteration of the Profile

- Three categories of papers were identified through a MSKCC literature search
  - (1) Not test-retest studies, but related to interobserver reproducibility
    - References will be used in the white paper and possibly in the next iteration of the Profile
  - (2) True test-retest studies with few (~10) subjects
    - Suggestion to combine the head and neck studies to develop additional Profile Claim
  - (3) Test-retest repeatability studies on healthy volunteers on large ROIs, e.g., prostate
- Dr. Obuchowski to be consulted :
  - Incorporating papers relevant to prostate into a metanalysis and assisting with the development of a cross-sectional Claim
  - Including confidence intervals for repeatability coefficients

#### H&N ADC repeatability groundwork project update

- Recruitment has proceeded more slowly than expected, with almost 200 patients screened, and only 6 completing the MR scans
- Subjects withdrew for various reasons, including schedule conflicts with the 2-week scan-rescan window
- Dr. Guzmán to continue the study due to independent funding following the end of the RSNA R&E grant

#### Next Steps:

- Drs. Boss, Dave, Malyarenko, Margolis, Obuchowski, and Partridge to meet offline to divide the list of articles for review based on disease sites
- Work on white paper will be done offline, with updates provided during upcoming monthly DWI BC meetings
- Dr. Boss to schedule each vendor for a 15-20-minute presentation on AI algorithms for image quality improvement during April, May, and June DWI meetings

**Next DWI-MR BC Meeting:** Tuesday, April 25, 2023, at 1 p.m. (CT)

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