

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

Wednesday, February 16, 2022, at 1 pm (CT)

### Meeting Summary

#### Participants

Michael Boss, PhD (Co-chair)

Dariya Malyarenko, PhD (Co-chair)

Hongyu An, DSc

Trevor Andrews, PhD

Rajpaul Attariwala, MD, PhD

Thomas Chenevert, PhD

Amita Shukla Dave, PhD

Gloria Guzmán, MD, MSc, MPH

Scott King, PhD

Wen Li, PhD

Daniel Margolis, MD

Kevin Miller, MS

Savannah Partridge, PhD

Lisa Wilmes, PhD

Junqian (Gordon) Xu, PhD

Jie Zheng, PhD

#### RSNA

Joe Koudelik

Susan Stanfa

#### Topics:

- Update on multicenter head and neck study funded by the RSNA R&E Foundation grant (Dr. Guzmán)
- DWI white paper
- DWI Technical Conformance Task Force update

#### Next Steps / Action Items:

- Staff to continue to link audio recording of previous meeting to invitations (available for ~6 weeks)
- Hongyu An, DSc, Trevor Andrews, PhD and Jie Zheng, PhD have joined Dr. Guzmán's H&N funded study effort
  - This groundwork project will address the lack of test-retest data in literature; the resulting data will inform an ADC Claim for the DWI Profile
  - Drs. Guzmán and Malyarenko met offline to discuss how to address pipeline issue without stopping data acquisition
  - The goal is to have more than 26 subjects by the end of this test-retest study; a 6-month extension will be requested
  - Data to be submitted to Dr. Malyarenko as they are acquired by sites
  - A phantom is being used to verify what biases to expect and to determine b-value
  - Dr. Zheng to send protocol to Drs. Dave and Guzmán
  - Drs. Dave and Guzmán to meet offline to discuss protocol b-values and SNR
- Access to the Google Sheet of site feasibility/test feedback can be requested from Dr. Boss
- Dr. Boss to arrange a DWI TF meeting to update the Profile in response to remaining unaddressed technical confirmation feedback
- Dr. Boss created an outline of the white paper in a Google Doc to facilitate collaboration and avoid versioning issues and he can be contacted for access; link to be sent to Dr. Dave & Guzmán
  - Dr. Attariwala added detail on importance and value of quantitation to the introduction; Dr. Partridge to review this text
  - Dr. Kinahan's FDG-PET and Dr. Chalian's MSK Profile papers to be added to the white paper Google Drive for reference
  - Dr. Obuchowski to work on statistics and performance metrics
- CaliberMRI (CMRI) is appending the QIBA conformance certification with development of a QC Manual that integrates the QIBA certification with a broader, more "routine" QC of scanners
  - The ability for CMRI to monitor conformance/test data will allow CMRI to assist clinical sites (i.e., improve their performance)
  - Mr. Miller to meet with Dr. Malyarenko offline

**Next DWI-MR BC Meeting:** Wednesday, March 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](mailto:qiba@rsna.org) if their attendance is not reflected on meeting summaries.