

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

Wednesday, May 18, 2022, at 1 pm (CT)

### Meeting Summary

#### Participants

*Dariya Malyarenko, PhD (Co-chair)*  
Trevor Andrews, PhD  
Ishtiaq Bercha, MSc, MSEE  
Ararat Chakhoyan, PhD

Thomas Chenevert, PhD  
Amita Shukla Dave, PhD  
Scott King, PhD  
Daniel Margolis, MD

Kevin Miller, MS  
Peter Ngum, MSc  
Nancy Obuchowski, PhD  
Lisa Wilmes, PhD

#### RSNA

Susan Stanfa

#### Topics:

- Updates from May 2022 ISMRM meeting in London
- VERDICT PROMISE Study
- Progress update re: Technical Confirmation site feedback and incorporation into the Profile
- White paper plans
- PIRADS quantitative DWI quality assessment

#### Next Steps / Action Items:

- Whole body DWI experts met Dr. Boss at ISMRM, suggesting forming a new BC committee relating to tumor volume and ADC biomarkers; leaders for these initiatives to be confirmed
  - New biomarker selection process/criteria: [https://qibawiki.rsna.org/index.php/Selection\\_Process](https://qibawiki.rsna.org/index.php/Selection_Process)
- The VERDICT team met w/ Dr. Boss and Dr. Malyarenko @ ISMRM and informed of open access for PROMISE Study (large scale multisite multiparametric prostate study including perfusion and ADC)
  - After mpMRI, 4mm-grid biopsies (~30) were conducted to confirm lesion status
  - Images and biopsy results will be available to anyone interested in reanalyzing the data by contacting Rosemary Clow: [r.clow@ucl.ac.uk](mailto:r.clow@ucl.ac.uk)
- The DWI Technical Confirmation Task Force has reached consensus on all comments and changes continue to be incorporated into the Profile
- Some checklists have been combined and shortened and Dr. Boss to update specification tables in the Profile
- Access to the Google Sheet of site feasibility/test feedback can be requested from Dr. Boss
- The Google Doc outline of the white paper was reviewed; Drs. Andrews and Bercha to contribute to this effort and will contact Dr. Boss for access (Dr. Malyarenko tried sharing invites with them during the meeting)
- QIBA is asked to advise on quantitative quality assessment of prostate DWI to help PIRADS in their effort to develop a quantitative metric; consider inviting groups with image registration expertise (e.g., UWisc, QIN) to derive quality metrics from DWI registration to T2
- Consensus to utilize monthly DWI BC timeslots for short updates with most work to be done offline between meetings
- Dr. Boss to finish incorporating changes into the Profile, request BC internal review of implemented resolutions before the June 15 meeting, and initiate a BC vote
- Following a successful DWI BC vote to publish the Profile as TC, focus will shift to the white paper

**Next DWI-MR BC Meeting:** Wednesday, June 15, 2022, at 1 p.m. (CT)

Zoom meeting link: <https://rsna-org.zoom.us/j/83547454118?pwd=VU5La0RRYXV5eDRlYzVrQjNGWGZCZz09>

Meeting ID: 835 4745 4118

Passcode: DWI

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