

QIBA Diffusion-Weighted Imaging Biomarker Committee (BC) Call

Thursday, January 17, 2019 at 2 PM (CT)

Call Summary

Participants

Michael Boss, PhD (Co-Chair)

Thomas Chenevert, PhD (Co-Chair)

Chen Lin, PhD

Dariya Malyarenko, PhD

David Newitt, PhD

Nancy Obuchowski, PhD

Savannah Partridge, PhD

RSNA

Joe Koudelik

Susan Stanfa

Moderator: Dr. Boss

Review of Previous Call Summary

- The notes from December 20, 2018 were approved as presented

DWI BC Profile Update

- Breast content added to the Profile as a fourth organ/site (liver, brain, prostate already included), based upon data from the October 2018 JMRI publication, "Test-Retest Repeatability and Reproducibility of ADC Measures by Breast DWI: Results from the ACRIN 6698 Trial", (co-authors Drs. Newitt, Partridge, Chenevert, and Rosen).
- The goal is to release the Profile for a second round of public comment soon after the DWI BC and MR CC voting members have cast vote-to-release ballots
- An overview of changes made to the Profile since the December 20 call was provided
 - Adjustments were made to figure captions
 - Checklists were added to Appendix F
 - Confirmation that references in checklists refer to appropriate Profile sections still needed
 - All appropriate requirements for each actor to be included
 - Updates to specification tables were considered
 - Definition of "acceptable," "target," and "ideal" (with corresponding performance criteria based on supporting literature) currently found in Section 3: Profile Activities, to be moved/copied to Section 3.6: Protocol Design, where this performance level nomenclature is used, as well as to appropriate checklists
 - Recent version of protocol for breast is needed and it will be added to Section 3.6: Protocol Design
 - Breast Claim, whose language matches the Claims based on other disease sites, was added
 - Reference for the ACRIN 6698 Trial needed; formatting issues have made addition from Endnote library to Profile difficult
 - Nyquist ghost was added to Section 3.11: Image QA Section; some detail to be removed
 - Change logs to be updated
 - Figures of common artifacts of breast DWI illustrated in separate subjects were standardized
 - Profile to be sent out for a 30 day public comment period with all text referring to new breast content highlighted for easy reference
 - During the February 21 DWI BC call, the spreadsheet of public comments/resolution will be reviewed to confirm that they have all been addressed; suggestion to focus on only *new* public comments that relate to the new Profile content based on the new breast content
- Dr. Boss to contact RSNA staff re: accessibility of QIBAPhan software; request to make the QIBAPhan software available without the need for a QIDW account, much like the DWI DRO
- Dr. Boss to consult Mr. O'Donnell regarding where the DWI Profile comment/resolution spreadsheet should be posted on the QIBA Wiki
- Clarification needed regarding receiver bandwidth, range of rBW's, and multiple b-values to use (>2)

- Dr. Boss to reach out to Dr. Dave for paper(s) on breast protocol and references
- Minor formatting to be completed
- Additional discussion needed on number of b -values issue; it will hopefully be resolved by the end of the week
- May consider scheduling an ad hoc meeting prior to the next scheduled DWI BC call on February 21

Next DWI BC Call: Thursday, February 21, 2019 at 2 PM CT

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