

QIBA Diffusion-Weighted Imaging MR Biomarker Committee (BC) Call

Thursday, July 25, 2019 at 2 PM (CT)

Call Summary

Participants

Michael Boss, PhD (Co-Chair)

Thomas Chenevert, PhD (Co-Chair)

Carri Glide-Hurst, PhD

Edward Jackson, PhD

Todor Karaulanov, PhD

Dariya Malyarenko, PhD

Kevin Miller, PhD

Nancy Obuchowski, PhD

Brian Taylor, PhD

Lisa Wilmes, PhD

RSNA

Joe Koudelik

Susan Stanfa

Moderator: Dr. Boss

Review of Previous Call Summary

- The notes from April 18, 2019 were approved as presented

Round-2 Public Comments on DWI-MR Profile Resolution Process

- Dr. Boss highlighted a few issues on which BC feedback was needed
- Section 2: Clinical Context and Claims – for ease of navigation directly to Profile Claim statements, it was suggested that this section be broken up into 3 subsections
 - The structure would be the following: 2.1: Clinical Context Section; 2.2: Claims Section; 2.3 “Clinical Interpretation”
 - Process cmte Chair, Mr. O’Donnell, to be consulted
- 3.11.1: Image QA Discussion Section
 - Arrows were added within examples of common artefacts that may affect ADC maps
 - In-line reference was made to Appendix E.2, in that it provides instructions for measuring SNR in diffusion-weight imaging
 - Reference to appropriate NEMA guidance to be added
- 3.6.1: Profile Activities Discussion Section - unease re: the location of a “shall” statement is a discussion section; this requirement re: acquiring true-zero b -value whenever possible; may reference discussion in specification table
- Prior concern regarding performance parameter tables breaking the flow of thought when located throughout the body of the Profile
 - The suggested solution was to relocate all performance parameter tables to the Appendix
 - The issue may be revisited with the Process Cmte in the future; no change will be made at this time
- An issue with line numbering in Stage 1: Public Comment DWI Profile was resolved with renumbering
- 3.2.2: Profile Activities: Site Qualification Specification Table – one of the acquisition device requirements is new and is not yet reflected in the checklists; DWI BC approval is pending
- 3.5.1: Periodic QA Discussion Section – additional text was added to note that the frequency of period QA to be performed may be study-specific
- 3: Profile Activities Section - redundant paragraph removed re: acceptable/target/ideal behaviors, as they are already described in the subsequent paragraph
- 3.12.1: Image Distribution Discussion Section - “shall” was changed to “should,” in the specification table and checklists, as disposing data should be a suggestion and not a requirement; if data were generated on the scanner as DICOM images, they should be archived
- Dr. Boss provided the rationale for not making changes to the Profile in response to a few comments

- 3.6: Profile Activities Section - no test-retest studies using undersampled techniques were referenced
 - It was noted that k-space undersampling techniques are becoming more common
 - Dr. Wilmes volunteered to search for references/review articles for sense, grappa, etc. and send them to Drs. Boss and Chenevert for inclusion in the Profile

Next Steps

- Staff to circulate Dr. Boss' updated public comment spreadsheet
- Dr. Boss to initiate offline discussion with core DWI BC members unable to attend this call re: changes made
- There are only 3 more public comments that still need action; a cleaned up version of the comment resolution spreadsheet will be reviewed during the August 15 DWI BC call; there will also be a discussion re: an [approach](#) to [Stage 3: Technically Confirmed](#)
- A BC vote-to-publish the DWI-MR Profile as Stage 2: Consensus to be initiated upon completion of the [review process](#)
- Both rounds of public comment to be compiled and posted on the [Comment Resolutions QIBA Wiki page](#)

Next DWI BC Call: Thursday, August 15, 2019 at 2 PM CT

RSNA Staff attempt to identify and capture all committee members participating on WebEx calls. However, **if multiple callers join simultaneously or call in without logging on to the WebEx, identification is not possible.** Call participants are welcome to contact RSNA staff at QIBA@RSNA.org if their attendance is not reflected on the call summaries.