

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

Thursday, September 26, 2019 at 2 PM (CT)

Call Summary

Participants

Michael Boss, PhD (Co-Chair)

Thomas Chenevert, PhD (Co-Chair)

Rajpaul Attariwala, MD, PhD

Dena Flamini, RT

Dariya Malyarenko, PhD

Nancy Obuchowski, PhD

Savannah Partridge, PhD

Lisa Wilmes, PhD

RSNA

Joe Koudelik

Susan Stanfa

Moderator: Dr. Boss

Review of Previous Call Summary

- The notes from August 15, 2019 were approved as presented

Public Comment Resolution Process

- Public Comment Round 1 resolutions document to be reformatted into the [Google Sheets template](#) for inclusion on the [Comment Resolutions page](#) on the QIBA Wiki
- The [DWI Public Comment Round 2 resolutions document](#) will be finalized and posted soon

Planning for Stage 3: Technical Confirmation

- Goal is to attain consensus status within the next 1-2 months, then pursue Technical Confirmation
- Profiles undergo the entire [review process](#) at each stage of development requiring BC and CC voting
 - BC/CC to send feedback to staff
 - The main purpose of BC approval is to confirm that all the detailed contents are correct and the profile meets the [criteria for the stage](#)
 - The main purpose of CC approval is oversight to confirm that the Profile claim is on target and to bring fresh eyes to the overall document
- An overview of the [Technical Confirmation process](#) was provided
- Discussion re: complexity presented by including multiple organs with different protocols; [approach](#) to [Stage 3: Technically Confirmed](#) needed
 - Technical confirmation is a crucial Profile stage to be considered for clinical trial use
 - Agreement that feasibility surveys should be conducted at DWI BC member institutions familiar with the Profile
 - Recommendation that BC member sites who have expertise in each organ system should be used
 - All four organs to be covered across several sites, each focusing on one or two (assessing all four organs not necessary for each site)
 - All vendor platforms to be included
 - According to the criteria for [Stage 3: Technically Confirmed](#), Profile procedures and requirements to be performed/checked on at least two vendor platforms and at two or more sites...
 - Clarification needed re: whether feasibility testing (survey) needs to include a phantom and/or human subject scanning; Dr. Boss to bring this question to an upcoming Process Cmte call
 - Suggestion to evaluate content on [Profile Stages](#) and [Technical Confirmation Process](#) QIBA Wiki pages; fleshing out more process detail may be helpful
 - Suggestion made to use sites w/o a QIBA connection to DWI BC (fresh eyes)

- Suggestion to duplicate Profile use in a real-world clinical trial scenario by conducting feasibility surveys at sites not already familiar with the DWI Profile; topic to be raised with MR CC, Process Cmte, and eventually SC meetings
- Technical confirmation process to be discussed during the Dec. 4 QIBA Working Meeting MR CC breakout session
- Aim to begin the technical confirmation process in early 2020

DWI-MR Profile Review: Resolve Final Issues

- 3.6.1: Profile Activities Discussion Section
 - Mention of k-space undersampling was added to the Profile and DWI-MR BC consensus re: references (DWI reduced k-space, rFOV, multi-shot) to include was sought
 - Articles on list submitted by Dr. Wilmes were reviewed for inclusion in the Profile
 - All articles to be added to DWI EndNote collection
 - Suggestions for references on liver should be submitted to Dr. Boss
- 3.11 / 3.11.1: Image QA/Discussion Section
 - References and texts for SNR evaluations in 3.11.1 and Appendix E were discussed
 - References to NEMA standard from 2015 to be removed
 - Updates made by Drs. Chenevert and Malyarenko accepted as final

Next Steps

- Dr. Boss to make final Profile updates and send it to staff for DWI BC circulation by Oct. 10
- SME assignments for Profile review of specific sections to be made
- Both rounds of public comment resolution to be compiled and posted on the [Comment Resolutions QIBA Wiki page](#)
- A BC vote-to-publish the DWI-MR Profile as Stage 2: Consensus to be initiated upon completion of the BC internal [review process](#); the goal is to complete both BC and CC voting by **early November**
 - To proceed with a vote-to-publish, Drs. Boss and Chenevert to simply confirm that the Profile is ready and request staff send an e-ballot to eligible BC voting members
 - Email ballot will then be sent to eligible BC voters, with a separate notification to inform non-voters

NEW! Visit the QIBA Citations EndNote Library! Details can be found on the [QIBA Wiki Education page](#)

Next DWI-MR BC Call: Thursday, October 17, 2019 at 2 PM CT

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