

QIBA Dynamic Susceptibility Contrast (DSC-MRI) Biomarker Committee (BC) Call

Wednesday, October 14, 2020 at 11 a.m. (CT)

Call Summary

Participants

Ona Wu, PhD (Co-Chair)

Nancy Obuchowski, PhD

Michael Boss, PhD

Mark Shiroishi, MD

RSNA

Susan Stanfa

Moderator: Dr. Wu

DSC Profile Update and Next Steps

- The Consensus Profile process has been completed
- Staff distributed the Stage 2: Consensus Profile, along with the ballot, to DSC-MRI BC voting members
- DSC-MRI BC members were asked to conduct a line-by-line review of the Profile and confirm that all public comments have been addressed and implemented within the Profile itself; Drs. Boss, Quarles and Zhou conducted this post-comment resolution review with reference to the Profile
- The public comment resolutions document containing details regarding how each comment was addressed, was finalized and posted on the [Comment Resolutions page](#) on the QIBA Wiki
- Following the post-comment resolutions review and successful BC member vote-to-publish, a MR CC vote was initiated on Oct. 9, with a deadline of October 23
- Once there is a successful MR CC vote, the [Stage 2: Consensus Profile](#) will be published on the [Profiles page](#) of the QIBA Wiki

Post-Stage 2: Consensus Profile Publication Plans

- Discussion of plans for a white paper
 - Dr. Dave's white paper to be used as a template, and aim to have a draft by Jan. 2021
 - Research is needed to evaluate reproducibility and repeatability of DSC, as there is a dearth of test-retest studies
 - Findings from Dr. Wu's Round-6 NIBIB-funded round robin project on a static DSC phantom to be incorporated
 - DSC-MRI BC members volunteered/were proposed for the following tasks:
 - Dr. Wu volunteered to draft an outline
 - Dr. Shiroishi volunteered to contribute clinical sections and details
 - Dr. Erickson was proposed to write DRO-related information
 - Drs. Quarles and Wu were proposed to work on analysis and Dr. Obuchowski volunteered to be consulted on statistical aspects
 - A folder for white paper-related materials will be added to the [DSC-MRI Google Drive](#), and access can be requested from Dr. Erickson; a Google account is required to view and access materials
 - It was suggested that a published white paper may reinforce the need for funding for groundwork projects
- Suggestions for future DSC-MRI BC activities included planning a new Profile (with a different focus) or designing a multi-center test-retest study of healthy volunteers to address gaps in the data for the existing Profile
- A combined DSC-MR/CT perfusion Profile was suggested, as CT perfusion is more widely used
- Feedback received from sites as they implement the Profile can be used to refine the DSC-MRI Profile

[QIBA Wiki DSC-MRI Biomarker Committee Page](#)

- Dr. Wu provided an overview of the updates she made and requested suggestions for additional content
- It was confirmed that staff will continue to be responsible for adding approved call summaries
- A few sentences, perhaps from the Executive Summary section of the DSC-MRI Profile, will be added to the “Project Snapshot” section

Next Steps

- Dr. Wu will be unable to attend Nov. 11 DSC-MRI BC meeting; Dr. Erickson to moderate
- Once the white paper has been completed, there is a successful MR CC vote-to-publish and the Stage 2: Consensus Profile has been published, planning for the next Profile (most likely to focus on stroke) will begin
- The MR CC plans to discuss the suggestion that MR BCs add portions of Executive Summaries from their Profiles to their [Committees page](#) on the QIBA Wiki

Next DSC-MRI BC Call: Wednesday, November 11, 2020 at 11 a.m. CT

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