

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

Wednesday, September 13, 2023, at 11 a.m. (CT)

Meeting Summary

Participants

Mark Shiroishi, MD (Co-chair)

Ona Wu, PhD (Co-chair)

Michael Boss, PhD

Zhaoyang Fan, PhD

RSNA

Susan Stanfa

The following topics were discussed:

- DSC-MRI Profile
- White paper
- Future plans for the DSC-MRI BC

Action items

- DSC-MRI Profile amendments voting results:

MOTION APPROVED to publish the DSC-MRI stage 2 Consensus Profile (August 9, 2023, maintenance version):

- The motion passed unanimously via eBallot on August 30, 2023, with 7 votes in favor, 0 abstentions, and 0 recusals
- White paper
 - Edits from Drs. Boxerman and Schmainda regarding the use of a low flip angle are needed
 - Latest updates include conformance to *Radiology* Special Reports requirements, e.g., reduction of word count
 - Guidance on reducing minimal detectable change in Claims and on how to determine confidence intervals was updated
 - White paper should reflect what is intended in the final version of the Profile
- Discussion on future plans
 - Suggestion that the DSC-MRI BC continue Profile work through the QIBA transition to QUIC
 - QUIC to oversee the endorsement of future Profile versions across the existing QIBA portfolio and for future efforts; process to be determined
 - Active administrative support will be provided for to 1 – 3 Profile authoring groups
 - Should current BCs not be included, groups may continue Profile work on their own or partner with a society
 - If new 1.5T test-retest data are published, the DSC-MRI BC may wish to expand the applicability of the Profile and revise the Claims as part of that process
 - To advance the DSC-MRI Profile and make it more attractive for use in clinical trials, real-world testing would be needed to determine whether sites can implement and meet the specifications, as well as whether any of the specifications are unnecessary as determined using the requirement vetting criteria
 - The DSC-MRI may use current materials, e.g., Clinical Feasibility Comment Resolutions Sheet, for the Stage 3 site testing process
 - Comment resolution would provide the opportunity to excise a Profile Claim that might not be adding value to or is detracting from the Profile

Next Steps

- Dr. Wu to send latest version of white paper to Drs. Boss and Shiroishi
- White paper to be finalized and submitted to *Radiology* before Dec. 2023
- The next DSC-MRI BC meeting will be held on **Wednesday, October 11, 2023, at 11:00 – 11:50 a.m. CT**