

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

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

Meeting Summary

Participants

Mark Shiroishi, MD (Co-chair)

Nima Ameli, MD

Nancy Obuchowski, PhD

RSNA

Susan Stanfa

Ona Wu, PhD (Co-chair)

Zhaoyang Fan, PhD

The following topics were discussed:

- Letter to QUIC indicating desire to continue efforts
- Review of *Radiology* editor comments on DSC-MRI White Paper submission

Action items

- One broad QUIC goal is the implementation of quantitative imaging in clinical trials and clinical practice, looking beyond Profile development and publication
- The DSC-MRI letter to QUIC is modeled after the one submitted by DWI and includes:
 - Claim that rCBV is one of the few imaging biomarkers shown in clinical trials to be able to predict glioblastoma patient response to interventions
 - Reasons it is important to be able to measure the precision of rCBV measures
 - Accomplishments, e.g. creation of physical and digital phantoms
 - Ongoing work includes (1) DSC-MRI White Paper to be published in *Radiology*, (2) achieving Profile Stage 3 Clinically Feasible, (3) creation of checklist for the GABLE study, (4) updating the Claims for newer MRI protocols pending updated test-retest published findings and expanding Claims to include 1.5T MRI systems
- The DSC-MRI White paper was approved, pending adjustment; revisions made in response to editor comments were discussed

Next Steps

- Letter to QUIC to be sent to Dr. Hu for review before submission to QUIC via giba@rsna.org by Friday, Dec. 22
- Dr. Shiroishi to reach out to Dr. Barboriak for stats including number of academic centers using DSC-MRI in daily clinical practice
- Dr. Shiroishi to expand on clinical applicability of DSC-MRI and update the flow chart in the White Paper and Dr. Wu to work on image of brain tumor case for the supplement
- Staff to send final email roster to DSC-MRI BC leaders by end-of-business on December 13
- DSC-MRI efforts to continue as an independent Profile-writing group with meetings on the second Wednesday of each month at 11 a.m. CT
 - Dr. Wu to send call-in details to group members in January or February

Participants are welcome to contact RSNA staff at giba@rsna.org if their attendance is not reflected in meeting summaries.