

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

Wednesday, January 8, 2020 at 11 a.m. (CT)

Call Summary

Participants

Ona Wu, PhD (Co-Chair)
Laura Bell, PhD

Thomas Chenevert, PhD
Caroline Chung, MD

Nancy Obuchowski, PhD
Yuxiang Zhou, PhD

RSNA

Joe Koudelik
Susan Stanfa

Moderator: Dr. Wu

DSC Profile Update

- The change log and open issues were highlighted
- It was noted that the Executive Summary had been updated to clarify the context of the Profile Claims
- Discussion regarding setting performance values in the Claims
- Dr. Bell ran simulations with 90° flip angle to determine the amount of improvement in CoV and compare how reality matches the simulated results
 - 30 – 60-degree flip angles were recommended to achieve 86% reproducibility coefficient
 - The 90° flip angle option was removed from the table containing recommended Brain Tumor Imaging Protocol (BTIP)-compliant 3T protocols with measured performance
- Dr. Chung to add text regarding the correct placement of a catheter or other access for rapid injection of intravenous contrast material; it is critical that the same injection site and catheter size be used for repeat studies, if possible
- The following completed checklists were noted: site, acquisition device, contrast injector, contrast media, image analysis and technologist
- Instructions for building a static phantom (i.e. materials, gel preparation, etc.) are provided in the Profile, but it is only experimental (no commercial phantom exists)

Next Steps

- Dr. Wu to send Dr. Obuchowski the latest Profile version for her review of Section 2.1: Clinical Interpretation; recommendations will be incorporated
- Upon DSC-MRI BC leadership request, staff will circulate a ballot, asking eligible BC voting members to confirm that the content of the Profile meets the criteria for Stage 1: Public Comment
- A similar ballot would then be distributed to MR CC members to vote for the release of the Profile for public comment

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