

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

Wednesday, March 11, 2020 at 11 a.m. (CT)

Call Summary

Participants

Bradley Erickson, MD, PhD (Co-Chair)
Michael Boss, PhD

Nancy Obuchowski, PhD
Yuxiang Zhou, PhD

RSNA

Joe Koudelik
Susan Stanfa

Moderator: Dr. Erickson

DSC Profile Update

- The BC vote-to-release for public comment passed on February 11 with 5 yeses, 0 noes and 0 abstentions (n=3); the MR CC vote passed on February 25 with 14 yeses, 0 noes and 0 abstentions (n=13)
- The Profile was released for public comment on March 2
- The [DSC-MRI Public Comments Resolution Sheet](#) was reviewed
- As of March 11, four comments were received from one submitter through the online public comment form
- Comment 1: Line 656 Section 3.10.1 re: description "Post-Bolus Baseline: The Image Analyst shall visually identify the first point after the change in signal due to bolus passage"
 - Deemed vague re: how someone would accurately define that point based on the description provided
 - Clearer description needed re: how that data point is defined; suggestion to add a figure
 - Cmte discussion on possible approaches; Dr. Erickson to address this comment
- Comment 2: Line 626 Section 3.10 re: couldn't find where the AUC calculation is described
 - In efforts to avoid prescribing software (s/w) functions, consensus was not to explicitly define the calculation component in the Profile; paper by Dr. Bell showed different approaches still yield similar results
 - Instead, s/w calculations should be tested against DSC DRO
- Comment 3: Line 626 Section 3.10 re: choice of "Image Data Reconstruction" for this heading deemed confusing
 - 3.10 contains considerable analysis; the majority of this section should be incorporated/merged into 3.13
 - Specification table to be adjusted or eliminated accordingly
- Comment 4: Line 146 Section 2 re: explicit statement needed to indicate that the effect of Arterial Input Function (AIF) is not taken into consideration
 - Again, to allow for different s/w packages, pending confirming performance with DRO avoiding prescribing s/w approach
 - Dr. Erickson to address this comment
- The DSC-MRI BC Co-chairs opted for a 75-day public comment period, to last through the April ISMRM meeting, which has since been postponed to August
 - Discussion re: whether to extend the period to a total of 120 days
 - Consensus that the public comment form will be closed after 75 days
- DSC-MRI BC members were asked to review the [DSC-MRI public comment resolution sheet](#) prior to upcoming calls

Next DSC-MRI BC Call: Wednesday, April 8, 2020 at 11 a.m. CT

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