

QIBA Dynamic Contrast-Enhanced (DCE) MRI Biomarker Committee (BC) Call

Monday, February 1, 2021 at 11 am (CT)

Call Summary

In attendance

Caroline Chung, MD (Co-Chair)

Hendrik Laue, PhD (Co-Chair)

Michael Boss, PhD

Thomas Chenevert, PhD

Todd Jensen, PhD

Nancy Obuchowski, PhD

Prativa Sahoo, PhD

Mark Shiroishi, MD

Rianne van der Heijden, MD, PhD

Divya Yadav, MD

RSNA staff

Joe Koudelik

Susan Stanfa

Discussion of public comments on DCE-MRI Profile

- The [Public Comments Resolution Sheet](#) was referenced to address comments; details on resolutions reached through committee discussion and consensus are included
- DCE-MRI BC members are welcome to work on edits to the [Profile](#)
- Dr. Obuchowski noted that a slope of exactly one should not be expected; guidance was provided regarding the acceptable distance from one
 - The recommendation is to require actors to construct a 95% confidence interval (CI) for the slope; the CI should lie between 0.95 and 1.05
- The DCE-MRI Profile has appropriately required actors to assess linearity and the magnitude of the slope, but the claims are strongly dependent on the wCVs; an assessment of the wCV and criteria for whether the actor has/has not met the requirement is needed
 - It was noted that the DSC-MRI BC used a static R2*phantom
 - Test-retest on a DRO is not needed, as there would be minimal or no variability with analysis software, except in situations where versions have been changed/upgraded
 - Suggestion to consider a sensitivity calculation for Ktrans from T1
 - The DCE-MRI BC will propagate the errors from T1 to ktrans into the appendix
- Statistical justification for the last two claims needs to be added
 - DCE-MRI BC to consider stating that it is assumed that ktrans are linear in the claims
 - Other Profiles, including the DSC-MRI one will be referenced
 - Statistical assumptions will be incorporated into the Claim description
- The three Claims labelled as "2," will be updated/clarified to 2a, 2b, and 2c
- Dr. Laue will reach out to comment submitters and invite them to provide clarification during upcoming meetings
 - Dr. Sourbron to be invited to the next call on February 8; if he is unable to attend, the next commenter will be contacted
 - Drs. Chung and Laue to contact QIBA leadership and/or RSNA staff to determine contacts for QIBA-Japan
- Drs. Chung and Laue will clean up minor comments not requiring cmte discussion/consensus
- Staff to include a link to the Profile in the invitation for the next DCE-MRI BC call

Next call: Monday, February 8, 2021 at 11 am (CT) [Fixed 2nd & 4th Monday schedule is now in effect]

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