

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

Monday, July 8, 2019 at 11 AM (CT)

Call Summary

Participants

Caroline Chung, MD (Co-Chair)

Hendrik Laue, PhD (Co-Chair)

Michael Boss, PhD

Catherine Coolens, PhD

Dena Flamini, RT

Wei Huang, PhD

Hyunki (Harrison) Kim, PhD, MBA

Nancy Obuchowski, PhD

Mark Shiroishi, MD

Qing Yuan, PhD

RSNA

Joe Koudelik

Susan Stanfa

Moderator: Dr. Laue

DCE Profile Update (Dr. Laue)

- Discussion on B1-mapping correction continued from previous DCE BC calls; it was stressed that this issue needs to be resolved
 - If the literature used by the DCE-MRI BC to inform the Profile Claims specifies B1-mapping correction, it should be a requirement in the Profile
 - It is difficult to provide instructional guidelines for recommendations for performance of B1-mapping correction in the DCE-MRI Profile
 - Inquiries to be submitted to vendor representatives to find out whether they plan to utilize B1-mapping correction within their analysis software, as input is still needed
 - Suggestion to conduct a small trial to obtain necessary B1-mapping information
- Dr. Laue has created various actor checklists adapted from the CT Volumetry Profile checklist; BC members were asked to review them and provide feedback
 - An overview of recent progress was provided; the purpose of checklists and how they are intended to be used was explained
 - It was recommended that checklist specifications, performance metrics and tasks be clearly defined
 - Dr. Laue to contact Dr. Wu to learn how the DSC-MRI BC approached its checklist (particularly regarding the administration of contrast)
 - Recommendation to reach out to Dr. Rosen re: the ACRIN 6671 study; access to 3T scanner data may be available to inform the Profile
 - An associated manuscript draft is being prepared for submission
 - The importance of a Profile reaching [Stage 3: Technically Confirmed](#) was emphasized, as this is a pathway for use in clinical trials
 - Adjustments will be made to the DCE-MRI Profile based upon feedback on the checklists
 - It is believed that greater involvement of technologists may help the Profiles to progress in real-world settings, i.e., to demonstrate technical feasibility
 - Recommendation to reach out to the [FDG-PET BC](#), as they have achieved Stage 3: Technically Confirmed
- Dr. Chung addressed and removed comments discussed during previous calls; the Profile was updated accordingly
- Dr. Chung has reached out to Siemens to request a contact re: B1-mapping; a response is anticipated shortly
- Dr. Nayak to follow up with GE contact re: B1-mapping issues and provide an update on a future call

Next DCE BC Call: Monday, July 22, 2019 at 11 AM CT