

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

Monday, September 27, 2021, at 11 a.m. (CT)

Draft Call Summary

In attendance

Hendrik Laue, PhD (Co-Chair)

Trevor Andrews, PhD

Zahra Hossein, PhD

Cristina Lavini, PhD

Nancy Obuchowski, PhD

RSNA staff

Susan Stanfa

RSNA Staff attempt to capture all committee members participating on Zoom calls. However, if attendees join only by phone, or do not use a recognizable name, identification is not possible. Participants are welcome to contact RSNA staff at QIBA@RSNA.org if their attendance is not reflected on the call summaries.

DCE-MRI Profile Public Comments Continued to be Addressed

- The [Public Comment Resolutions Sheet](#) was referenced; details on resolutions reached through committee discussion and consensus are included
- DCE-MRI BC members are welcome to work on edits to the [Profile](#) currently in progress

Note: below comments correspond to the [Stage 1: Public Comment version of the DCE-MRI Profile](#) posted on the [Profiles page](#) of the QIBA Wiki

- After a threshold for acceptable echo time (TE) selection on signal ($T2^*$) has been determined, a discussion section about the impact of TE selection $T2^*$ will be added to Section 3.6
- For private DICOM tags, instead of leaving them empty, it was recommended that “proprietary” be inserted to indicate to the user they are there and to look for them; it also points out to industry a need for additional public tags
 - A number of dynamic phases, baseline phases, and temporal resolution are omitted
 - Acquisition time to be assigned a tag, e.g., GE uses TriggerTime, which has a DICOM tag
 - To be determined whether there is a DICOM tag for number of phases
- The AAPM believes even though 3T is standard of practice for both brain and prostate, the Profile endorsed a field strength of 1.5T; if DCE-MRI cannot confidently be done at 3T for these two anatomies, it was suggested that DCE should not be done at all outside of controlled studies
 - Specifications to be defined

Next call: Monday, October 11, 2021, at 11 a.m. (CT) [2nd & 4th Mondays of each month]