

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

Monday, September 12, 2022, at 11 a.m. (CT)

Meeting Summary

In attendance

Hendrik Laue, PhD (Co-chair)

James O'Connor, MD, PhD (Co-chair)

Michael Boss, PhD

Ararat Chakhoyan, PhD

Cristina Lavini, PhD

Lucas McCullum, MS

Sina Nazemi, MD

Michael Thrippleton, PhD

RSNA staff

Joe Koudelik

Julie Lisiecki

Topics Discussed:

- Plan to advance Profile v 2.0 to Consensus Stage by RSNA 2022 meeting
- Algorithm development update (Dr. Chakhoyan)

Next Steps / Action Items:

- Draft recommendation for standardized procedure in the Profile
- Suggestion to Dr. Chakhoyan to pursue peer review and publication of software/algorithm method
 - Caution advised not to fit data to model as this can be dangerous
 - Currently only 2D data are available; Dr. Laue may try to recommend 3D repositories for additional testing
- Standardized B1 mapping and flip angle sequences available on everyday scanners are needed, as well as a software solution for correcting Ktrans for T1 and B1; Dr. Laue to reach out to vendors
- Dr. Chakhoyan to send link / materials to RSNA Staff and Dr. Laue
- Drs. Laue and Lavini to meet offline before the next meeting
- Dr. Laue to prepare a more detailed agenda for the next meeting and invite Dr. Chung

Future Tasks (Once Public Comment Resolution is completed):

- Finish the [DCE-MRI BC Profile v2.0](#)
 - Internal BC review of Profile draft
 - Next, a BC vote-to-publish the Profile as Stage 2: Consensus will be followed by an MR CC vote
- Work toward Stage 3 – “Clinically Feasible” (formerly Technically Confirmed)
- Suggested use cases / clinical applications discussed for DCE-MRI:
 - Juvenile arthritis
 - Other inflammatory diseases
 - Other cancer types, e.g., liver cancer
 - Bone tumors
 - Multiple myeloma
 - Cardiac MRI
 - Non-oncology renal

Next meeting: Monday, September 26, 2022, at 11 a.m. (CT) [2nd & 4th Mondays of each month]

Zoom meeting link: <https://rsna-org.zoom.us/j/86058676145?pwd=TjYySW8vb0hhUXE4TEZHVkFSOHNSQT09>

Meeting ID: 860 5867 6145

Passcode: DCE

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