

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

Monday, July 11, 2022, at 11 a.m. (CT)

## Meeting Summary

### In attendance

Hendrik Laue, PhD (Co-chair)

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

Caroline Chung, MD

Cristina Lavini, PhD

Sina Nazemi, MD

Mark Shiroishi, MD

Michael Thrippleton, PhD

Rianne van der Heijden, MD, PhD

### RSNA staff

Susan Stanfa

### Topics Discussed:

- Alignment of QIBA DCE-MRI BC aims with ACR test-retest research study
- Renaming of Stage 3: “Technical Confirmation” to “Clinically Feasible”

### Immediate Next Steps:

- Finish the [DCE-MRI BC Profile v2.0](#)
  - Once the Profile is completed, internal BC review will proceed
  - Next, a BC vote-to-publish the Profile as Stage 2: Consensus will be followed by an MR CC vote
- A literature search was done in PubMed and Web of Science databases as well as in other sources
  - Meta-analysis to be conducted; compared to existing literature referenced in current DCE-MRI v2.0 Profile, there are around twenty studies mainly with 10 – 25 patients (but extend beyond brain and prostate) plus a few studies of 30-70 patients. Determination of coefficient of variation from all available datasets.
  - Differences in repeatability across lesion locations and cancer types to be evaluated
- Staff to distribute Dr. Laue’s “Next Steps” slides to the DCE-MRI BC

### Future Tasks (after Stage 2: Consensus Profile is completed):

- Clinically Feasible Profile (Stage 3) if possible
- Extension of DCE-MRI to organs/tissues other than breast, brain and prostate
- DCE at 3T: Standardization/Recommendations of B1/T1 maps with involvement by vendors
- Recommendation (open source) software package
- Evaluation of potential new clinical applications
- Standardization DRO-/hardware-phantom usage
- Suggestion to prioritize 1 – 2 items on which to focus; DCE-MRI BC member feedback is welcome

**Next meeting:** Monday, July 25, 2022, at 11 a.m. (CT) [2<sup>nd</sup> & 4<sup>th</sup> 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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