

## QIBA Dynamic Contrast Enhanced (DCE) Biomarker Committee (BC) Call

Monday, October 29, 2018 at 11 AM (CT)

Call Summary

### Participants

Caroline Chung, MD (Co-Chair)

Hendrik Laue, PhD (Co-Chair)

Wei Huang, PhD

Edward Jackson, PhD

Harrison Kim, PhD, MBA

Cristina Lavini, PhD

Nancy Obuchowski, PhD

Gudrun Zahlmann, PhD

### RSNA

Joe Koudelik

Susan Stanfa

*Moderator: Dr. Laue*

### Poster Preparation for RSNA 2018

- The DCE and DSC BCs will be sharing a poster this year since both share many common issues
- Content to include:
  - Claims and associated issues due to limitations of available test-retest data
  - Committee groundwork project used to develop Profile Claims; additional clarity suggested regarding what QIBA groundwork projects entail and their importance to Profile development
  - A request of colleagues to publish their test-retest data in an open journal such as PLOS One: <https://journals.plos.org/plosone/>
  - The QIBA literature review process and supporting statistics
- Dr. Laue provided a DCE/DSC BC poster review while live edits were made per committee feedback
- Drs. Erickson and Wu to submit final DSC BC content and images
- Text to be limited; priority is for figures/graphics to stimulate meeting attendee discussion
  - DCE-MRI BC members encouraged to [sign up](#) for the noon-time Meet-the-Experts poster sessions
- After a print-ready poster is submitted to RSNA staff by the October 31 deadline, full BC focus to shift back to Profile development

### QIBA Working Meeting and Meet-the-Experts Sessions at RSNA 2018

- All are encouraged to RSVP for the [QIBA Working Meeting](#) on Wednesday, November 28<sup>th</sup>
- All are invited to volunteer for the poster [Meet-the-Expert](#) session times

### DCE Profile Update (Drs. Chung and Laue)

- DCE BC members encouraged to review and comment on Profile at: <https://docs.google.com/document/d/1in76va1Q96tVX97RWLHHqimOHxCeDsMqh98na8pwOb8/edit?usp=sharing>
  - Please note: Google Doc is being used for its collaborative properties and versioning control; please make comments directly on the document (as opposed to downloading Profile to one's local computer and emailing)

- Dr. Laue reviewed edits made since the October 15 DCE-MRI BC call and requested input from the group
- Section 3.1: Staff Qualification
  - “AAPM” to be removed from specification table as this is too US-centric; the target audience of the Profile is international, but “AAPM” can be listed as an example
  - “Qualified Medical Physicist (QMP)” replaced with “qualified individual with experience in DCE-MRI as defined, e.g. AAPM”
- Section 3.2: Site Qualification
  - Discussion regarding removal of specification table, which was modeled after the DWI Profile; only specification guidance to achieve the Claim is needed in these tables
  - As mentioned in the text, the specifications are given in the other sections
- Section 3.3: Pre-delivery
  - This activity describes calibrations, phantom imaging, performance assessments, etc. that would be conducted by the manufacturer
  - Due to the fact that there is no impact on the claim and thus no constraints, this section will be removed
- Section 3.4: Installation
  - More definitive information needed, including Dr. Nayak’s phantom study results; data/publications to be sought
  - Dr. Thorsten Persigehl to be consulted regarding view sharing; enough information to provide guidance would need to be included
  - Under, “Contrast Inject Device,” Dr. Chung added, “It shall be capable of injecting contrast agent up to 4-5 cc/sec with two bolus capability (for saline flush)”
- Section 3.5: Periodic QA
  - Discussion on technical details to continue after the RSNA Annual Meeting
  - Reference for assessment procedure for T1 mapping to be added
  - 3.5.2 Periodic QA Specification table: consistent nomenclature sought, e.g., either T1 or R1 to be used and text to be condensed
- Dr. Chung to continue working on the Profile, deleting comments that have been addressed
- Dr. Laue worked on Section 4: Assessment Procedures
  - Information regarding evaluation of software was added to sections 4.1: Assessment Procedure: R1/T1 Mapping accuracy and section 4.2: Assessment Procedure: Image Analysis Software
  - DROs can be downloaded from the QIDW for Section 4.2: Assessment Procedure, and links were provided

**Next DCE BC Call:** Monday, November 12, 2018 at 11 AM CT

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