

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

Thursday, August 16, 2018 at 11 AM (CT)

Call Summary

### Participants

*Caroline Chung, MD (Co-Chair)*

*Hendrik Laue, PhD (Co-Chair)*

Thomas Chenevert, PhD

David Clunie, MBBS

Catherine Coolens, PhD

Wei Huang, PhD

Harrison Kim, PhD, MBA

Cristina Lavini, PhD

Gudrun Zahlmann, PhD

### RSNA

Joe Koudelik

Susan Stanfa

*Moderators: Drs. Chung & Laue*

### DCE Profile Update

- Profile is located at:  
<https://docs.google.com/document/d/1in76va1Q96tVX97RWLHHqimOHxCeDsMqh98na8pwOb8/edit?usp=sharing>
  - Profile comments made by DCE BC members were reviewed
  - Everyone is welcome to comment
    - if logged in with a Google account, comments will automatically be linked to reviewers
    - if not, reviewers are asked to provide their names
- Section 3.1.2 Staff Qualification specification table was discussed, specifically that the physicist “shall be a Qualified Medical Physicist (QMP) as defined by AAPM”
- For conciseness, not every section of the QIBA Profile template needs to be completed; only those that directly apply to DCE Claims
  - Profile should only address what parameters can be controlled, else consumers of the document might be overwhelmed by workflow detail
  - Suggestion to maintain consistency among all MR Profiles, e.g. term usage, etc.
- Discussion on various aspects of section on T1 phantom imaging, data analysis, ongoing MRI scanner quality control frequency
  - Test-retest analysis/repeatability
  - Main goal is to define measurement reproducibility thresholds
  - Feedback to be requested regarding which phantoms to use
- Details of how processing was done has been captured and accompanies the results of DCE analysis in the Profile
  - Discussion on how data analysis was handled in the DWI Profile; it was noted that diffusion is far simpler than dynamic contrast in terms of analysis
  - There are two options for validation; vendor or DRO
  - Suggestion to add guidance on reporting analysis results
  - Better documentation of the ROI selection process needed

- Claims are based on study data already acquired
  - Due to lack of funding for groundwork projects, the DCE BC is unable to start over with different data for a new Claim; Claims are based on "trusted" published data and work done by DCE BC subject matter experts/members
  - The lack of published test-retest study data limits the current Claim scope to older technology and the original QIBA-funded DCE phantom
  - Limitations in Claims to be stated with additional information in the discussion section on image interpretation
- 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)

**Next DCE BC Call:** Thursday, August 30, 2018 at 11 AM CT

---

RSNA Staff attempt to identify and capture all committee members participating on WebEx calls. However, **if multiple callers join simultaneously or call in without logging on to the WebEx, identification is not possible.** Call participants are welcome to contact RSNA staff at [QIBA@RSNA.org](mailto:QIBA@RSNA.org) if their attendance is not reflected on the call summaries.