

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

Monday, February 18, 2019 at 11 AM (CT)

Call Summary

Participants

Caroline Chung, MD (Co-Chair)

Hendrik Laue, PhD (Co-Chair)

Dena Flamini, RT

Harrison Kim, PhD, MBA

Cristina Lavini, PhD

Nancy Obuchowski, PhD

Qing Yuan, PhD

RSNA

Joe Koudelik

Susan Stanfa

DCE Profile Update (Dr. Laue)

- DCE BC members were encouraged to review and comment on the updated Profile at:
<https://docs.google.com/document/d/1ytAuSsRtL2mgAIY1wq6PkVGleWvWSTdx0HGdgUu1mrA/edit?usp=sharing>
 - Dr. Chung reformatted the DCE Profile section text to mimic the DWI Profile
 - Dr. Laue replaced equations and images lost during the translation between Google Doc to MS Word versions
 - Reference page numbers in table of contents to be updated
 - The Profile change log has not been consistently used, but Google Docs contain version history which documents changes
 - Changes between DCE Profile v1.0 (2012) – v2.0 (2019) were described in Section 1 of the Profile
 - Dr. Nayak to upload Round-6 project B1 maps (of static phantom) from different scanners (including specific sequences utilized) to the Quantitative Imaging Data Warehouse (QIDW); links to QIDW for B1 reference data, DRO R1 phantom software/data to be added to the Profile
 - Grammatical changes were made to Section 2: Clinical Context and Claims (formerly “Clinical Trials and Claims”)
 - Claims in Section 2.1: Clinical Interpretation have not changed, but the page was reorganized to be consistent with the DWI Profile
 - A high-level review of the DCE Profile v2.0 to be requested from Drs. Boss and Zahlmann
- Section 3: Profile Activities
 - Tables were updated and content was added to Section 3.1.1: Staff Qualification (discussion section) re: image analyst
 - Dr. Boss to be consulted on Section 3.3.2: Pre-delivery specification table re: scanner requirements for DCE
 - DCE BC members were asked for feedback on Section 3.4: Installation, subsection on Software re: B1 maps, parallel imaging and view sharing
 - Feedback on T1/R1 Phantom scanning and T1/R1 Precision text was requested
 - Characteristics and specifications of technical abilities of phantoms and/or software were provided
 - High-level text will remain where it is, specifics regarding T1 or R1 reference values or ranges to be moved to Section 4.1: Assessment Procedure: R1/T1 Mapping accuracy
 - Discussion occurred regarding use of a flow phantom
 - There is no consistency in flow phantom usage across the field today
 - Use of a flow phantom will not be included in the conformance checklist nor will it appear in any specification tables

- Flow phantom to be included in discussion section of Section 3.5: Periodic QA for the purposes of informing and educating the community, as well as to increase awareness
- In efforts to finalize the Profile, DCE BC members were urged to review it and make additional comments; a note will be included with the call-in details email for the March 4 DCE BC call

Next DCE BC Call: Monday, March 4, 2019 at 11 AM CT

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