

QIBA Perfusion, Diffusion and Flow – MRI Biomarker Committee (BC) Call

Wednesday, February 15, 2017 at 11:00 AM (CT)

Call Summary

Participants

Michael Boss, PhD (Co-Chair)

John Kirsch, PhD (Co-Chair)

Thomas Chenevert, PhD

Caroline Chung, MD

Amita Dave, PhD

Daniel Gembris, PhD

Gloria Guzman, MD, MSc

Wei Huang, PhD

Hendrik Laue, PhD

Chen Lin, PhD

Mikko Määttä, PhD

Dariya Malyarenko, PhD

Nancy Obuchowski, PhD

Walter Schneider, PhD

Samir Sharma, PhD

Jason Stafford, PhD

Ying Tang, PhD

Brian Taylor, PhD

Junqian (Gordon) Xu, PhD

Gudrun Zahlmann, PhD

RSNA

Joe Koudelik

Susan Weinmann

Moderator: Dr. Boss

DTI+ TF Update (Dr. Schneider)

- Two TF subgroups created
 - Clinical review of Literature subgroup led by Dr. Provenzale
 - Quantitative measurements subgroup led by Dr. Schneider
- Drs. Schneider and Obuchowski to discuss data analysis details offline
- Phantom ground truth is known and imaging metrics have been identified
- Variability expected across vendors, scanners and time
- Quick progression of automatic segmentation and report generation project
 - Quality data is being received from multiple sites
 - Post-processing results show inconsistencies between vendor systems
 - Open source processing streams to be compared with vendors' processing streams
 - With aid of digital reference object, variation has been understood
 - Working with vendors to quantify and correct sources of variation
 - One vendor has incorporated suggested changes into their product sequence
- Discussion on Profile timeline
 - Suggestion to promptly release first Profile version containing phantom data and standard techniques with later release of a second version including patient and test-retest data when available
 - First version would allude to newer technologies that currently have little data
 - Second version to contain additional, newer techniques (e.g. a Profile with a higher bar)
 - Decision to be made on whether to split Profile into two versions after a bit more progress is made
 - Dr. Schneider welcomes committee feedback regarding metrics

DWI Profile Update (Drs. Boss & Chenevert)

- Task Force members to meet in afternoon on Feb. 15
- Next steps in Profile Review process:
 - Address/resolve comments on prostate components

- Final feedback (in suggesting mode of Google document) to be submitted to Dr. Boss by EOB on Feb. 16 in order to be incorporated into draft for release vote by PDF-MRI BC
- PDF-BC members to vote by e-ballot to approve release for public comment after review period of 3 weeks
- MR Coordinating Committee voting members to complete an e-ballot to approve the Profile for public comment
- Details on the voting process can be found on the QIBA wiki at:
http://qibawiki.rsna.org/index.php/Voting_Process
 - Concern voiced over voting eligibility based on the *current 2-on/2-off* call attendance vs. call attendance *over time*

Upcoming PDF Task Force Updates:

- March 1 – DWI Task Force
- March 15 – DSC Task Force
- March 29 – DCE Task Force
- April 12 – DTI Task Force

Next PDF-MRI Biomarker Committee Call: Wednesday, March 1, 2017 at 11 AM CT