

QIBA Perfusion, Diffusion and Flow – MRI Biomarker Committee Update Call

Wednesday, 18 February 2015 at 11 AM CT

Draft Call Summary

Participants

Michael Boss, PhD (Co-Chair)	James Ewing, PhD	David Purdy, PhD	RSNA Joe Koudelik
Marko Ivancevic, PhD (Co-Chair)	Jacob Fluckiger, PhD	Sunder Rajan, PhD	Julie Lisiecki
Mark Rosen, MD, PhD (Co-Chair)	Daniel Gembris, PhD	Walter Schneider, PhD	Karen Lindstrom
Rajpaul Attariwala, MD, PhD	Bernadette Greenwood, BSc	Mark Shiroishi, MD	
Daniel Barboriak, MD	Alex Guimaraes, MD, PhD	Daniel Sullivan, MD	
David Bennett, PhD	Edward Jackson, PhD	Ying Tang, PhD	
Mark Brown, PhD	Daniel Krainak, PhD	Ona Wu, PhD	
Huijun Chen, PhD	Hendrik Laue, PhD	Junqian (Gordon) Xu, PhD	
Thomas Chenevert, PhD	Nancy Obuchowski, PhD	Dewen Yang, MD, PhD	
Caroline Chung, MD	Thorsten Persigehl, MD	Yuxiang Zhou, PhD	
Amita Shukla Dave, PhD	James Provenzale, MD		

General Discussion

REMINDERS

- [Call for Abstracts](#) - RSNA 2015
 - Committee members are encouraged to submit a scientific abstract based on their QIBA groundwork, NIBIB-funded project, etc.; **the deadline is Wednesday, April 8, 12:00 Noon Central Time.**
- **Final reports for Round-3 Project PIs due by February 27th** to RSNA Staff: jkoudelik@rsna.org
 - Report details may be used in the NIBIB application for continued funding (Spring/Summer 2015)

Updates - Round 3 project reports (Laue, Persigehl, Chenevert, Boss)

- Dr. Laue solicited additional beta testers of the DCE DRO open source software. If interested, please contact: Hendrik.Laue@mevis.fraunhofer.de
 - The goal is to find some agreed upon quantitative measures and analyze challenges to recommend unifying metrics
- Dr. Persigehl shared his data on the comparison of different energies across scanners
 - Some data are available from Philips at 3T
 - Data are available for Siemens scanners at 1.5T and 3T
 - It is hoped that an aggregate measure of performance can be found
 - Dr. Obuchowski has agreed to work with Dr. Persigehl on the statistical analysis design
 - Dr. Jackson also volunteered to assist with scanning efforts if needed
- Dr. Chenevert uploaded data to the QIBA QIDW
 - As a result of the work done with ADC, a large set of data will be available for use on ROIs, VOIs, or single voxels ; feedback is welcome to Dr. Chenevert: tlchenev@med.umich.edu

DWI Profile update (Dr. Boss)

- Organ-specific protocols are in the works with technical claims that include literature-supported scan parameters
- “Tumor” changed to “lesion” as it has a more general application
- A longitudinal claim may be added to the current cross-sectional claim
 - It was noted, however, that changes in ADC will vary significantly across organ systems.
 - Different acquisition protocols for different parts of the body will also affect the wording of claims
 - Organization of the organ systems by a logical method will make the Profile more accessible

DCE Task Force chair discussion

- Update tabled until next meeting
- Anyone interested may contact Dr. Boss (michael.boss@nist.gov) or RSNA staff (QIBA@rsna.org) directly

Current status of the DSC-MRI Task Force efforts

- Update tabled until next meeting

Status of Round-4 (Barboriak, Jackson) contract projects

- Dr. Barboriak indicated that projects are on schedule

Scheduling

- Rotating schedules for task forces will be established soon

Action Item: Dr. Boss to follow up offline with Project PIs to ensure everyone meets the February deadline.

Next t-con: March 4, 2015, 11 AM CT – focus will be Round-3 and -4 project updates

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