

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

Wednesday, 18 March 2015 at 11 AM CT

Draft Call Summary

### Participants

Participants			RSNA
Michael Boss, PhD (Co-Chair)	Daniel Gembris, PhD	Thorston Persigehl, MD	Joe Koudelik
Andy Alexander, PhD	Alex Guimaraes, MD, PhD	James Provenzale, MD	Susan Weinmann
Baderaldeen A. Altazi	Edward Jackson, PhD	Ying Tang, PhD	
Marcin Czarniecki, MD	John Kirsch, PhD	Ona Wu, PhD	
Bradley J. Erickson, MD, PhD	Daniel Krainak, PhD	Junqian (Gordon) Xu, PhD	
James Ewing, PhD	Hendrik Laue, PhD	Dewen Yang, MD, PhD	
John Garber, MBA	Nancy Obuchowski, PhD	Yuxiang Zhou, PhD	

### General Discussion

#### DCE-MRI Task Force Update

- Co-chairs for the DCE-MRI Task Force have yet to be confirmed
- By the next PDF-MRI Biomarker Committee call, a brief DCE-MRI Task Force report is expected

#### DWI Profile Update (Dr. Boss)

- The group discussed how to draft claim language for both the current phantom and a clinical use-case
- The DWI Task Force is reviewing literature and identifying reproducibility metrics
- “True value” was considered difficult to determine based on phantom and in vivo measurements
- The group will focus on variance and consider a meta-analysis in order to obtain a reliable estimate
- Because of difficulty in both measuring bias and in obtaining reproducibility metrics, some groups have abandoned a cross-sectional claim in favor of focusing on a longitudinal claim
- Drs. Boss and Obuchowski will follow up offline regarding claim language modification based on longitudinal change
- The DWI Task Force will work on claim statements for each of the selected organ systems
- Dr. Boss asked for suggestions for rephrasing the definition of “isocenter” and also inquired whether the usage of this term is appropriate within the current Profile

#### Updates from Brazil and UK (Dr. Boss)

- Protocol was modified in order to optimize quality of phantoms images
- Dr. Boss will follow up with the Brazilian investigators and will report back to the group

#### Next t-con: April 15, 2015, 11 AM CT

- Agenda to focus on DCE and DSC TF activities