

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

Wednesday, 04 February 2015 at 11 AM CT

### Call Summary

#### Participants

<i>Michael Boss, PhD (Co-Chair)</i>	Benjamin Ellingson, MS, PhD	Daniel Krainak, PhD	Ona Wu, PhD
<i>Mark Rosen, MD, PhD (Co-Chair)</i>	Brad Erickson, MD, PhD	Hendrik Laue, PhD	Junqian (Gordon) Xu, PhD
Rajpaul Attariwala, MD, PhD	James Ewing, PhD	Jiachao Liang, PhD	Dewen Yang, MD, PhD
Daniel Barboriak, MD	Jacob Fluckiger, PhD	Nancy Obuchowski, PhD	Gudrun Zahlmann, PhD
David Bennett, PhD	John Garber	Thorsten Persigehl, MD	
Joseph Borrello	Daniel Gembris, PhD	James Provenzale, MD	<b>RSNA</b>
Mark Brown	Alex Guimaraes, MD, PhD	Walter Schneider, PhD	Joe Koudelik
Thomas Chenevert, PhD	Edward Jackson, PhD	Ying Tang, PhD	Julie Lisecki
Caroline Chung, MD	Guang Jia, PhD	Brian Taylor, PhD	
Amita Shukla Dave, PhD	John Kirsch, PhD	Jihong Wang, PhD	

#### General Discussion

##### New co-chairs for PDF (Dr Boss)

- Leadership changes have been made to the PDF BC after the recent QIBA restructuring
- Dr. Boss has stepped-in as BC co-chair, replacing Dr. Zahlmann who has accepted a co-chair role on the MR CC
  - MR CC leadership: Drs. Guimaraes and Zahlmann (co-chairs), Dr. Elsinger (vice-chair)
- Dr. John Kirsch to become the third BC co-chair after Dr. Ivancevic rotates off in May
  - MR BC leadership: Drs. Rosen, Boss and Kirsch (replacing Dr. Ivancevic in May)
- Bi-weekly PDF BC calls to continue, rotating with Task Forces, once better established

##### DCE Task Force chair discussion

- A request was made for a volunteer to lead the DCE TF moving forward
- Since a clinical perspective is needed, it was recommended that a physician co-/lead the Profile v2.0 effort
- Drs. Guimaraes, Rosen, Laue, Barboriak volunteered (or were suggested) as contributors - anyone interested may contact Dr. Boss ([michael.boss@nist.gov](mailto:michael.boss@nist.gov)) or RSNA staff ([QIBA@rsna.org](mailto:QIBA@rsna.org)) directly

##### DWI Profile update

- The DWI profile has been formatted according to the general QIBA template
- Section review/comment is still needed to determine accuracy and readability
- Vendor review/input welcome (e.g., from Philips) – Dr. Boss to follow up with Dr. Ivancevic re Philips detail
- Dr. Kirsch to provide Siemens' scanner details; Dr. Fluckiger to provide GE details
- Executive Summary – tbd
- Lit search volunteers
  - Abdomen - Dr. Dave
  - Brain - Dr. Wu
  - Breast – Dr. Bennett
  - Pelvis – Dr. Rosen
  - Head & Neck – Drs. Shiroshi, Fuller and Dave
  - Prostate – Dr. Attariwala
  - Image analysis – Drs. Chenevert, Barboriak
  - Compliance and QC section – tbd
- Focus of the Profile to remain on cancer; may expand to diffusion re infections (i.e., kidney) in the future
- Combining bias and precision in DWI claim suggested – Drs. Boss and Obuchowski to follow up of-line
- Section 3 requires clinical input re subject handling
- Profile to function as a technical performance/ guidance document, not a best-practices summary

**Current status of the DSC-MRI Task Force efforts**

- Dr. Bradley Erickson (Mayo Clinic) is leading this new effort
- Eight TF members met during the MR breakout session at RSNA 2014 in Chicago to discuss the Profile
- Profile to focus on brain tumors (i.e., CVV and K2 metrics), not stroke
- A review of existing literature will help develop the Claim

**Status of Round-3 (Chenevert, Persigehl, Laue, Boss) and Round-4 (Barboriak, Jackson) contract projects**

- Dr. Boss reminded all Round-3 project leaders that the deadline to submit final project reports was February 28, 2015
- Report details will be used when drafting the NIBIB application for continued funding (spring 2015)
- All Round-4 projects need to be completed and final reports submitted by August 31, 2015 so not to hinder award of additional federal funding – no project extensions will be allowed
- Keeping all MR projects on schedule will be critical; questions or comments to be sent to PDF-MRI co-chairs

**Next t-con:** February 18, 2015, 11 AM CT – focus will be Round-3 and -4 project updates