

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

Wednesday, 28-May-2014 at 11 AM CDT

Call Summary

Participants

Marko Ivancevic, PhD (Co-Chair)

Mark Rosen, MD, PhD (Co-Chair)

Gudrun Zahlmann, PhD (Co-Chair)

Daniel Barboriak, MD

Michael Boss, PhD

Martin Buechert, PhD

Thomas Chenevert, PhD

Amita Dave, PhD

Jana Delfino, PhD

James Ewing, PhD

Dena Flamini, RT

Alexander Guimaraes, MD, PhD

Edward Jackson, PhD

John Kirsch, PhD

Daniel Krainak, PhD

David Purdy, PhD

Lei Qin, PhD

Walter Schneider, PhD

Mark Shiroishi, MD

Daniel Sullivan, MD

Ying Tang, PhD

Brian Taylor, PhD

Jihong Wang, PhD

Ona Wu, PhD

Xiangzhi Zhou, PhD

Yuxiang Zhou, PhD

RSNA

Joe Koudelik

Madeleine McCoy

Agenda:

- 1) Brief summary of the F2F PDF-MRI TC Breakout Session at the QIBA Annual Meeting
- 2) Brief summary of the QIBA Steering Committee Meeting (topics specifically relevant to the PDF MRI TC)
- 3) Segmentation and Lesion Size/Volume Assessment
- 4) Compliance Document / DCE-MRI Profile v1.7

QIBA 2014 Annual Meeting Breakout Group Session Summary

- Discussions included
 - Perfusion
 - DTI Biomarker and the forming of a new group
 - Separate from DWI
 - Consideration of subgroups working with the larger group on a new Protocol
 - The possibility of utilizing a larger phantom
 - Diffusion Profile
 - Expanding goals in clinical practice
 - Priority to write the compliance section if the DWI Profile

QIBA Steering Committee Summary

- The Metrology Papers are to be published by the end of the month in the journal of Statistical Methods in Medical Research
 - With the recent publication of the Metrology Papers, the question arose as to the likelihood of the publishing of the Profiles as whitepapers
 - Clinical Trials would need completion before publication
 - The claims would also require literature support
 - The right journal/publication would have to be considered
- There is a continued International interest in QIBA
- Brief QIBA Technical Committee Reports were given
 - The main points regarding PDF-MRI were summarized as follows:
 - Project submission overview
 - The topic of whether or not volumetry should be included in biomarker discussions
 - The consideration of lower sampling
- Reorganization of the QIBA Technical Committees was overviewed

QIBA Annual Meeting Highlights

- A heavy 2-day agenda included defining and establishing Profile Compliance and developing some model of accreditation/certification
- Dr. Zahlmann's discussion on "**Case Study**" of QIBA Profiles in Practice was well received
- More discussion is needed re DTI, MR Volumetry and Segmentation—no formal decisions or proposals were made
- Dr. Shiroishi inquired about DSC MR Imaging Data
 - Dr. Sullivan has sent a formal criteria request to Dr. Bradley Erickson at Mayo Clinic

Compliance Document / DCE-MRI Profile v1.7

- Dr. Guimaraes discussed the differences between qualified, accredited and compliance
- A specific list of issues was discussed which included:
 - Qualified/accredited/compliant – QIBA can only qualify at this time. NO accreditation body
 - Which phantom do we use?
 - What is the frequency of imaging the phantom
 - What are the standard metrics that we define for phantom image analysis
 - Need for a core lab?
- Dr. Guimaraes will update the list and circulate the most current document which will include assignments to specific committee members

Next t-con:

QIBA PDF-MRI Tech Ctte Update T-Con, Wednesday, June 11, 2014 at 11am (CT)