

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

Wednesday, March 1, 2017 at 11 AM (CT)

Call Summary

Participants

<i>Michael Boss, PhD (Co-Chair)</i>	Daniel Krainak, PhD	Savannah Partridge, PhD	RSNA Joe Koudelik
<i>John Kirsch, PhD (Co-Chair)</i>	Hendrik Laue, PhD	Balu Rajagopalan, PhD	Susan Weinmann
<i>Mark Rosen, MD, PhD (Co-Chair)</i>	Chen Lin, PhD	Walter Schneider, PhD	
Thomas Chenevert, PhD	Mikko Määttä, PhD	Jason Stafford, PhD	
Timothy Dondlinger	Dariya Malyarenko, PhD	Ying Tang, PhD	
James Ewing, PhD	Elizabeth Mirowski, PhD	Ona Wu, PhD	
Alexander Guimaraes, MD, PhD	Nancy Obuchowski, PhD	Qing Yuan, PhD	
Gloria Guzman, MD, MSc			

Moderator: Dr. Boss

DWI Update (Drs. Boss)

- Next steps in Profile Review process:
 - Make final updates as discussed:
 - Dr. Chenevert to add missing references via EndNote
 - Coefficient of variation for prostate to be updated
 - Claim text to be adjusted for inclusion of prostate and a larger repeatability coefficient (RI)
 - Claim 3B to be changed to include updated 0.17 coefficient of variation
 - “Anti-spasmodic drugs” to replace any drug names
 - Those who reviewed, edited, or assisted with literature search to be included in Acknowledgements; Dr. Boss to be contacted to add names
 - PDF-BC members to review for a 3-week period and vote by e-ballot to approve release for public comment
 - MR Coordinating Committee voting members to vote by 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
- To move forward with the Profile, highest B value for prostate to be addressed after public comment stage
- Dr Malyarenko to send link to DICOM resource for Appendix B to Dr. Boss
- Table included for steps for calculating the wCV in Appendix C
- QIBA Wiki PDF-MRI BC page to be updated with
 - Addition of the literature review spreadsheet
 - Summary spreadsheet (pertaining to specific organs)
 - Phantom preparation and orientation instructions (Dr. Mirowski to send)

- Dr. Boss provided an update on diffusion measurement efforts to establish ground truth
 - Study to verify that data collected at different DWI phantom temperatures is valid
 - Current issues with pulse sequence used
 - PVP measurements being taken
 - Temperature-dependent study will assess water and five concentrations of PVP at 0C, 15C, 20C, 25C and 37C; data has been collected and will be analyzed for discussion on March 15 PDF-MRI BC call
 - Manuscript to be submitted for publication

Upcoming PDF Task Force Updates:

- March 15 – DSC Task Force
- March 29 – DCE Task Force
- April 12 – DTI Task Force
- April 26 – DWI Task Force

Next PDF-MRI Biomarker Committee Call: Wednesday, March 15, 2017 at 11 AM CT