

**QIBA fMRI Bias Work Group Call**  
 Tuesday, February 5, 2013 at 10 AM CT  
 Call Summary

**Participants**

<i>James Voyvodic, PhD (Chair)</i>	Erich Huang, PhD	Laura Rigolo, MS
Paul Carson, PhD	Feroze Mohamed, PhD	David Soltysik, PhD
Barbara Croft, PhD	Jeffrey Petrella, MD	Domenico Zaca, PhD
Ted DeYoe, PhD	Jay J. Pillai, MD	

**RSNA**

Julie Lisiecki

**QIBA Steering Committee meeting – brief update**

- The QIBA/RIC Image Archive is in a testing phase and it is anticipated that it will soon be available as a tool for working with data
- Drs. Voyvodic and DeYoe expressed interest in receiving instructions and additional details for working with the image archive

**Research articles for group review**

- Dr. Voyvodic circulated a link with a collection of articles for review on a private internet page hosted at Duke due to copyright concerns
- Volunteers were requested to read 1 to 2 articles and provide a 5-minute summary of key points on the February 19<sup>th</sup> QIBA fMRI Bias WG call
- Reviewers should consider how the articles relate to bias and quantitative fMRI
- Areas of focus:
  - Performing quantitative measures clinically
  - What is necessary/ required for clinical use
  - Terminology – particularly “quantitative fMRI” and “calibrated fMRI”
  - Determine what the big picture is – look for commonalities in approaches to address quantitation
  - Relate the BOLD response to what is occurring in practice
  - Bias: Relationship between the biomarker and what is measured Linearity: Over what range of biological parameters can imaging provide a range of measurement values that are linked directly?

**Resources**

- Dr. DeYoe to forward Rasmus Birn paper to Dr. Voyvodic
- Dr. Voyvodic will update article archive with NIH and MN Group information
- Dr. Voyvodic to follow up with Dr. Harel and his Minnesota group

**Next steps**

- Volunteers were assigned to articles provided for 5-minute reports and discussion on the next call
- *(Please refer to specific assignments below).*

Reviewer(s)	Article (as abbreviated on Index provided)
Dr. DeYoe	MRI_Gu_NeurovascularCouplingVision2005.pdf
Drs. Carson and Pillai	MRM_Wu_CBV_CBF_BBB_PASL_VASO_2010.pdf
Drs. Mohamed & Zaca (Dr. Pillai)	6 - NMRBiomed_Blockley_Calibrated_fMRIreview_2012.pdf
Dr. Petrella	9 - Radiol_RosenQuant_fMRI_2011.pdf

**Next calls:**

- QIBA fMRI Technical Committee, [Wednesday, February 13, 2013 at 11 am CT](#)
- QIBA fMRI Bias Working Group, [Tuesday, February 19, 2013 at 10 am CT](#)