## **QIBA fMRI Reproducibility Work Group Update**

Tuesday, March 6, 2012 at 11 AM CT Call Summary

## In attendance

James Voyvodic, PhD (Chair) Paul Carson, PhD Barbara Croft, MD Ted DeYoe, PhD Jeffrey Petrella, MD David Soltysik, PhD Domenico Zaca, PhD **RSNA** Julie Lisiecki

# Discussion

- Discussion regarding different ways of quantifying the overlap of border measurements to correlate with the actual region of function for the neurosurgeon
- Goal is to figure out *what* is reproducible and to what degree
  - o It is not possible to know if a result is 'good' simply because it is reproducible
  - o Images need to be both quantitative and reliable in order to be useful
- Three main topics were discussed:
  - 1. The relevance between the reproducible segmented brain activation maps and the underlying biomarker as related to clinical performance
  - 2. The underlying biophysiology (focus of Claim)
    - Quantitative imaging must be correlated with the biomarker
    - Readout may be considered the biomarker
    - The relationship between the image and the function correspond to definition of the biomarker
  - 3. More discussion needed to identify the methodology in support of the Claim language
    - For example Relationship between BOLD intensity, biophysiology and neurosurgery

## **Next Steps**

• More work needed to determine Claim language

## **Next Calls**

- QIBA fMRI Technical Committee, Wednesday, March 14, 2012 at 11 am CT
- QIBA fMRI Reproducibility Working Group, Tuesday, March 20, 2012 at 11 am CT