QIBA fMRI Biomarker Committee (BC) Call
Wednesday, January 25, 2017 at 11 AM CT
Call Summary

In attendance
Ted DeYoe (Co-Chair)
James Reuss, PhD (Co-Chair)
Christopher Benjamin, PhD
Thomas Chenevert, PhD

Peter Hardy, PhD
Ping Hou, PhD
Nancy Obuchowski, PhD
Jay Pillai, MD

David Soltysik, PhD
James Voyvodic, PhD
Zhiyue Jerry Wang, PhD

RSNA
Susan Weinmann

Review of Previous Call Summary

• The 1.11.2017 call summary was approved as presented

fMRI Profile v1.0 draft (All)

• To support concurrent access and editing, the fMRI Profile v1.0 is on Google docs at: https://docs.google.com/document/d/1M8XywIKVYSi9_SXfvmkPzVdnunVTXHwc3CdnqFTrsCw/edit?usp=sharing
• Anyone with the above link can submit comments, while only a small group has editing privileges
• Comments submitted through Google doc fMRI Profile v1.0 were reviewed
• “Open Issues” were rephrased as questions
• About 50% of Profile comments from fMRI BC members have been addressed
• Actions taken in response to comments to be entered into “Change Log”
• Conformance statement to be completed for review

fMRI DROs for Profile v1.0 conformance (Dr. Voyvodic)

• Discussion on what kind of DROs to generate and how to use them to test conformance
• If someone downloads and performs analysis, they will have access to activation method
  o Most software not designed to create center of mass activation numbers
  o For good dataset, user would get an answer within the range specified in the Profile
  o Out of spec studies (e.g. patient didn’t behave properly) must be identifiable
  o Datasets to be generated
  o Discussion on to what extent conformance can be achieved in the presence of noise
  o Discussion on the amount of noise that noise would disqualify datasets

• DRO goal is to find out if performance plan is feasible
• Suggested to create a DRO that has 20-30 cases based on fMRI BC specifications (as opposed to user trying to differentiate bad & good ones)
• Datasets that are known to achieve Claim to be used
• Step-by-step assessment/procedure to be written
• Generate a range of DROs where fMRI will get the desirable center of mass (every DRO should be a good subject)
• fMRI Profile to determine whether methods are good or bad, not whether data is good or bad
• Conformance to quality control methods needed
• Set of DROs to be provided for users to test their system conformance
• To provide QA tests to allow user to determine whether dataset is adequate
• Motion parameters regarding NVU have been provided
• Factors that would disrupt ability to meet Claim to be identified

Next calls:
• QIBA fMRI Bias TF call - Tuesday, January 31 at 10am CT
• QIBA fMRI Biomarker Committee call – Wednesday, February 8 at 11am CT