QIBA fMRI Biomarker Committee (BC) Call
Wednesday, January 24, 2018 at 11 AM CT
Call Summary

In attendance
Feroze Mohamed, PhD (Co-chair) Andrew Kalnin, MD David Soltysek, PhD
Jay Pillai, MD (Co-chair) Nancy Obuchowski, PhD James Voyvodic, PhD
Cathy Elsinger, PhD Flavius Raslau, MD Zhiyue Jerry Wang, PhD
Edward Jackson, PhD James Reuss, PhD

RSNA
Joe Koudelik
Susan Weinmann

Review of Previous Call Summary
● The 01.10.18 call summary was approved as presented

fMRI Profile v1.0 Status Update
● Discussion ensued on 4.5.1 Assessment Procedure: fMRI Center-of-Mass Reproducibility (Claim)
  o Discussion regarding the usefulness of Profile v1.0 for clinical practice
  o Profile conformance remains an issue to be addressed; real-world feasibility testing needed to determine whether imaging sites would invest the extra time/effort required by following the Profile
  o Achievement of QIBA conformance will need to be demonstrated by successfully conducting an assessment procedure
  o Differing requirements for site conformance vs. actor conformance discussed, e.g. sites required to generate test-retest data
  o Suggestion made to divide assessment procedures into subsections by actor type; each actor would have required performance tests to pass to prove conformance
  o Discussion on commercial software packages and steps required for manufacturers to demonstrate QIBA conformance
  o Link to the Quantitative Imaging Data Warehouse (QIDW) at: http://qidw.rsna.org/ included for data sets to help assess performance, or conformance to the Profile Claims
  o Next step is to create a check list that would include actor-specific procedures and provide a method to measure conformance; actors to include:
    ▪ Scanner manufacturers
    ▪ Software vendors
    ▪ Sites
  o The Profile user needs to:
    ▪ Be able to acquire data from the scanner that matches the QA measurement data within QIBA Profile specifications
    ▪ Demonstrate that center-of-mass calculation is within QIBA Profile specifications (can be assessed using DROs)
    ▪ Assess bias and repeatability using the data provided
- FDG-PET check list to be used as a reference: it is located at the end of the Profile document on the QIBA Wiki at: [http://qibawiki.rsna.org/images/1/1f/QIBA_FDG-PET_Profile_v113.pdf](http://qibawiki.rsna.org/images/1/1f/QIBA_FDG-PET_Profile_v113.pdf)
- CT Volumetry BC is conducting feasibility-testing and the draft check list can be found on the QIBA Wiki at: [http://qibawiki.rsna.org/images/3/35/QIBA_CVolumetry_TumorVolumeChangeChecklist-20161205-_Field_Test_version_1.0.docx](http://qibawiki.rsna.org/images/3/35/QIBA_CVolumetry_TumorVolumeChangeChecklist-20161205-_Field_Test_version_1.0.docx)
- Conformance issues in Profile v1.0 would be magnified in Profile 2.0 due to greater challenges associated with language; suggestion to refine any identified issue now
- Most scanners deemed capable of attaining Profile conformance with minimal effort; software analysis packages may pose greater issues with conformance though, potentially hindering overall site conformance
- Dr. Mohamed to draft an fMRI checklist using the CT Volumetry checklist as a template; Dr. Elsinger volunteered to assist
- Discussion regarding procedure for addressing public comments
  - RSNA staff compile comments into a Google Sheet and provide editing privileges to key group members; anyone with a link can view without logging into a Google account
  - A column is added to track the actions taken on each comment and indicate how/whether the comment was resolved in the consensus draft of the Profile
  - Issues are closed by group consensus (complete unanimity not required)
  - Inevitably, some issues will be left open and will be listed at the beginning of the consensus draft of the Profile
  - Suggestion to first conduct a high-level overview of comments received to look for thematic issues that need to be addressed (to avoid getting mired in a single comment)
  - The second phase of addressing comments would address minor, or low priority issues such as grammatical errors
- Drs. Mohamed and Pillai to connect offline next week to discuss check list

**Update on Dr. Voyvodic’s multisite DRO project & Round 5 project manuscripts in preparation**
- Dr. Voyvodic to provide update during January 30 fMRI Bias TF call

**Next calls:**
- QIBA fMRI Bias TF call – Tuesday, January 30, 2018 at 1 PM CT
- QIBA fMRI Biomarker Committee call – Wednesday, February 7, 2018 at 11am CT

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