QIBA fMRI Biomarker Committee (BC) Call
Wednesday, January 10, 2018 at 11 AM CT
Call Summary

In attendance
Feroze Mohamed, PhD (Co-chair)  Nancy Obuchowski, PhD  James Voyvodic, PhD  Joe Koudelik
Jay Pillai, MD (Co-chair)  James Reuss, PhD  Zhiyue Jerry Wang, PhD  Susan Weinmann
Ted DeYoe, PhD  David Soltysik, PhD  Francisco Zamorano, PhD

RSNA

Review of Previous Call Summary
• The 12.13.2017 call summary was approved as presented

fMRI Leadership Update (Dr. Pillai)
• Drs. Reuss and DeYoe stepped down as co-chairs in January 2018
• Dr. Mohammed, who has contributed considerable time and effort over the past several years was formally welcomed as a new fMRI BC co-chair

Profile 1.0 Status Update
• On Dec. 15, RSNA staff sent out a “last chance to submit public comments” message to 1,000+ QIBA member list and 100+ sister association list
  o A few additional public comments were received before the Dec. 31 deadline
  o RSNA staff compiled all comments into a Google Sheet and provided the fMRI Gmail account with full editing privileges

• Address of public comments (consensus process) commenced
  o While there is no formal deadline for addressing comments, steady progress was encouraged
  o Focused on first comment, which suggested visual aids/screenshots/graphics of the process for calculating the weighted center-of-mass of a single focus of fMRI hand motor activation (wCMA)
    ▪ The inclusion of a list of software packages was suggested
    ▪ Clarification needed whether sites should perform assessment procedure (Section 4.5) before relying on their fMRI results or whether it is primarily meant for manufacturers to consider incorporating into their products

• Discussion ensued on 4.5.1 Assessment Procedure: fMRI Center-of-Mass Reproducibility (Claim)
  o Achievement of QIBA conformance will need to be demonstrated
  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 Claims of this Profile
  o Dr. Voyvodic’s DROs are posted to the QIDW to help evaluate imaging site post-processing performance, but not to aid in Profile conformance assessment
  o 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
Know what criteria to use to distinguish between good and bad scans
Assess bias and repeatability using the data provided

- Profile conformance remains an issue to be addressed; real-world feasibility testing needed to determine if imaging sites would invest the extra time/effort outlined in the Profile
- Discussion on fMRI Profile v1.0’s usefulness for clinical practice
- Suggestion to limit future fMRI BC agendas to a single topic to allow time for in-depth discussion
- Update on Dr. Voyvodic’s multisite DRO project & Round 5 project manuscripts in preparation to occur on January 24 fMRI BC call

Next calls:
- QIBA fMRI Bias TF call – Tuesday, January 16, 2018 at 1 PM CT
- QIBA fMRI Biomarker Committee call – Wednesday, January 24, 2018 at 11am CT

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