## QIBA PET-Amyloid Biomarker Committee (BC) Call Friday, March 13, 2020 at 9 AM CT

Call Summary

### In attendance:

Dawn Matthews, MS (Co-chair)TammAnne Smith, PhD (Co-chair)Paul K

Tammie Benzinger, MD, PhD Paul Kinahan, PhD Adriaan Lammertsma, PhD Nancy Obuchowski, PhD **RSNA** Joe Koudelik Julie Lisiecki

Moderator: Dr. Smith

### Status of PET-Amyloid Profile Feasibility Questionnaire and Profile

- Minor DRO issues regarding nonrealistic Cerebrospinal Fluid (CSF) values have been resolved
  - $\circ~$  a new value set has been generated with 6 levels and 5 realizations
  - o new set not yet available for download, however
- The next step is testing with amyloid processing software
  - Siemens MI (Dr. Smith) and ADMdx (Ms. Matthews) will test on their respective SW platforms
- Testing on different platforms remains uncertain; the BC will need to determine how to test the DRO to define common fields, e.g., SUVr, ratios, etc. in order to develop a template for reportable values
  - $\circ$  As regions are defined differently, it may not be possible to generate the same values
  - Use of centiloid maps may be helpful, as they are pre-defined for qualifying manufacturer platforms
- It will also be necessary to review the Profile guidelines to see if there are thresholds for acceptability
  - $\circ~$  Dr. Kinahan to send his procedural notes for comparison
  - The SA process using the DRO needs to specify who performs the conformance (1) analysis and the (2) qualification, e.g., site, vendor, etc.
- Some software can be tailored, and some can be used as-is
  - o Dr. Smith will check on these parameters with Dr. Fahmi
- Once most of these questions are answered, the BC will have a better idea of how the DRO test might be used for self-attestation and the conformance procedure can be finalized
- Technical confirmation has been narrowed down to a smaller number of questions that need to be addressed
- The questionnaire has been adapted from the FDG-PET Profile
  - Once finalized, it will be used to develop a self-attestation template
- The feasibility questionnaire has been divided by actor for ease of response
  - $\circ$   $\,$  Dr. Sunderland has agreed to get the feasibility questionnaire answered at U-Iowa
  - Ms. Matthews is working on a Google or SurveyMonkey based format for ease of responding on smart phones
  - $\circ$   $\;$  Dr. Wahl had also previously offered to assist with the feasibility questionnaire
  - Dr. Lammertsma recommended getting in touch with Dr. Boellaard in the Netherlands, as he is the European champion for PET standardization

# **Considerations for Technical Confirmation**

- Getting the Profile to <u>Stage 3: Technically Confirmed</u> is the current goal
- More details regarding advancing through Profile stages can be found on the QIBA wiki here:
  - o <u>http://qibawiki.rsna.org/index.php/Process</u>
  - o <u>http://qibawiki.rsna.org/index.php/Technical\_Confirmation\_Process#Planning</u>
- Once completed, the PET-Amyloid Profile to be promoted as a finished product

### **Next Steps**

- Dr. Smith to run the DRO with Dr. Fahmi to obtain additional feedback
- Dr. Kinahan to send needed changes for the Profile Appendix DRO Section
- Ms. Matthews to get in touch with Drs. Minoshima and Wahl regarding site testing
  - o Actor-specific checklists to be distributed to participating sites
  - $\circ$   $\,$  Ms. Matthews may also contact Drs. Sunderland and Subramaniam

#### **QIBA Nuclear Medicine Schedule**:

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03/27	NM Leadership @ 9 am CT
04/10	PET Amyloid BC @ 9 am CT
04/14	SPECT TC <sup>99m</sup> BC @ 2 pm CT
04/17	FDG-PET BC @ 11 am CT
04/24	NM Leadership @ 9 am CT – TBD