

## QIBA SPECT Biomarker Committee (BC)

Friday, July 21, 2017, 9 AM (CT)

Call Summary

*Technical details provided by Dr. Miyaoka*

### In attendance:

*Robert Miyaoka, PhD (Moderator)*

*Yuni Dewaraja, PhD (Co-Chair)*

*John Seibyl, MD (Co-Chair)*

John Dickson, PhD

Eric Frey, PhD

Paul Kinahan, PhD

Nancy Obuchowski, PhD

Kevin O'Donnell, MASc

Eric Perlman, MD

Brian Zimmerman, PhD

### RSNA

Julie Lisiecki

Susan Weinmann

**Moderator:** Dr. Miyaoka

### Call Scheduling

- The next SPECT BC meeting is scheduled for August 18<sup>th</sup>
- An I-123 Profile Task Force (TF) call will be scheduled for Tuesday, August 1<sup>st</sup> at 2 pm CT to review comments with Mr. O'Donnell
- As TF calls resume, they will be scheduled as follows:
  - First Tuesday of the month: I-123 (Drs. Seibyl, Dickson, and Miyaoka)
  - Second Tuesday of the month: Technetium Profile (Tc <sup>99m</sup>) (Drs. Dewaraja, Miyaoka, and Mozley)
  - Technical scribes may be needed for these calls. If interested, please respond to Dr. Mozley ([mozley@gmail.com](mailto:mozley@gmail.com))

### Groundwork project updates:

#### I-123(Drs. Dewaraja and Dickson):

- Overall, biases were similar between the GE Discovery 670 and the Siemens Intevo system
- Caudate to Putamen ratios were not exactly 1
- Claim 1B may need revision based upon more groundwork testing
- Dr. Frey suggested using more iterations and subsets for quantitative analysis

#### DRO (Dr. Miyaoka):

- Dr. Miyaoka shared a table of results from different analysis tools used with some hand-drawn volume-of-interest maps (VOIs) and one automated placement
- The number for the specific binding ratio (SBR) needs to be updated
- Once the DRO is revised, Dr. Miyaoka will redistribute it to the BC for analysis; he is particularly interested in results generated by Dr. Seibyl's Parkinson's Progression Markers Initiative (PPMI) software
- Additional discussion regarding these results may be needed, along with guidance from Dr. Obuchowski to determine how much variability is acceptable in DRO analysis
- The group discussed using an anonymization approach similar to that of the FDG-PET BC for public sharing of DRO results

### SPECT Profile paper under consideration:

- Drs. Kinahan, Perlman, and Frey provided some input from their experience of writing of a paper for the FDG/PET Profile
- Rather than repeat the profile description text from the recent FDG-PET manuscript, the SPECT paper will reference their work
- It was decided that it would be better to write a paper after results are obtained from technical conformance testing, as the FDG-PET group indicated that test results led to revisions in their manuscript
- Additional discussion is needed regarding site testing
  - Multi-site trial would be ideal, but may not be feasible
  - The BC intends to recruit multiple sites to use the profile in their clinical work

### **I-123 Ioflupane Profile: Next Steps**

- Discussion regarding [QIBA Profile Stages](#) took place
- It was noted that the name of the stage corresponds to the published document
- Mr. O'Donnell will join the Tuesday Task Force call on August 1<sup>st</sup> to discuss incorporating his comments made during the public comment phase.

### **New members**

- All are encouraged to recruit new members regularly; new names can be sent to [giba@rsna.org](mailto:giba@rsna.org)
- Opportunities to meet and recruit new members may present themselves at the following meetings:
  - October, Vienna: EANM annual meeting
  - December, Chicago: RSNA annual meeting
- Volunteers willing to moderate BC or TF calls would be appreciated
  - Please email the SPECT BC co-chairs if interested: [yuni@umich.edu](mailto:yuni@umich.edu); [mozley@gmail.com](mailto:mozley@gmail.com); [jseibyl@mimaging.com](mailto:jseibyl@mimaging.com)
- Previous meeting agendas, Profile versions, and work products are available in the group's [Dropbox folder](#)

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