

QIBA SPECT Biomarker Committee (BC)

Friday, March 18, 2016, 9 AM (CT)

Call Summary

In attendance:

Yuni Dewaraja, PhD (Co-Chair)

P. David Mozley, MD (Co-Chair)

John Seibyl, MD (Co-Chair)

John Dickson, PhD

Paul Kinahan, PhD

Michael Lassmann, PhD

Robert Miyaoka, PhD

Nancy Obuchowski, PhD

Eric Perlman, MD

Anne Smith, PhD

Richard Wahl, MD

Johannes Zeintl, PhD

RSNA

Joe Koudelik

Julie Lisiecki

Moderator: Dr. Mozley

QIBA SPECT BC Profile Progress:

- Profile writing speed for I-123 Parkinson's disease has exceeded expectations, with approximately 85% complete
- Dr. Mozley is projecting 90% completion by the end of 1Q2016
- Sections that may require more time include the following:
 - **3.1-3.2:** Pre-delivery, Installation (*Mr. Cella / Dr. Zeintl*) - focus on device manufacturers
 - **3.5.1:** Subject handling – informative text (*Drs. Mozley and Seibyl*)
 - **3.11:** Clinical image interpretation (*Dr. Seibyl*)
 - **4.0:** Assessment procedures – in need of a champion; possible task force reallocation to address
- To expedite completion, Dr. Mozley requested a few ad hoc WebEx calls separate from the usual BC/TF calls to obtain the expertise of certain subject matter experts, especially non-member experts
 - Dr. Mozley plans to host these calls independently at 7 am CT / 8 am ET to provide an opportunity for participants in Japan and Europe to join
- Drs. Smith and Obuchowski have been working offline on the statistical foundation for the claim

Next Phase for Profile Writing:

- Once the initial I-123 Profile is close to completion, the group plans to initiate calls for a Tc-99m / Oncology Profile
- These calls are projected to begin in 3Q2016:
 - 1st Tuesday: I-123 in PD subgroups set agenda
 - 2nd Tuesday: oncology 1 alternates with oncology 2 in setting agenda
 - 3rd & 4th Tuesday: ad hoc p.r.n. (*default is no meeting*)
 - This effort will require a greater reliance on individual contributors and small groups

Profile Version Control:

- A Profile Editor is needed to collate responses from section authors, and maintain version control
- Current drafts and archived versions of the Profile are available on the [QIBA wiki](#) for review

Groundwork Projects Under Consideration in order of need for the Profile:

1. DRO construction: Drs. Miyaoka and Kinahan
 2. Phantom construction: Drs. Dickson and Zimmerman
 3. Phantom/DRO use to optimize precision and bias: Dr. Dewaraja, et al.
 - Consideration to be given to requesting funds for a Profile editor as part of a Round-6 project proposal
- Realistic phantoms are needed to test against the measurands, and the striatal phantom is not as accurate as hoped
 - In the future, a "connect-a-thon-like" event may be planned for software validation and qualification

Project proposals for the next round of funding

- The deadline for proposal submission (application forms and budget worksheets) is **April 15th**
- Forms with budget detail will need to be completed for SPECT BC approved groundwork projects
- Any questions may be directed to: mazley@gmail.com; yuni@umich.edu; jseibyl@mnmimaging.com

Suggestions for improving WebEx calls welcome: mozley@gmail.com ; yuni@umich.edu; jseibyl@mimaging.com

• **Sections have been assigned to primary authors as follows:**

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|---------------------|--------------------------------|-------------------------------|
| ○ Executive Summary | | Mozley/Seibyl/whole committee |
| ○ 3.1-3.2 | (Pre-delivery, Installation) | Device manufacturers/Cella |
| ○ 3.3 | (Periodic QA) | Dickson/Zimmerman, et al. |
| ○ 3.4 -3.5 | (Subject selection / handling) | Mozley/Seibyl |
| ○ 3.6 | (Acquisition) | Dewaraja |
| ○ 3.7 | (Reconstruction) | Frey/Dewaraja |
| ○ 3.8 | (Image QA) | Dickson/Zimmerman |
| ○ 3.9 | (Image Distribution) | Klein/ Tervé |
| ○ 3.10 | (Image Analysis) | Miyaoka/Seibyl |
| ○ 3.11 | (Image Interpretation) | Seibyl, et al. |
| ○ Section 2 | | Obuchowski / Anne Smith |


April

Biomarker Committees:

- Apr 01: FDG-PET BC
- Apr 08: Amyloid BC
- Apr 15: SPECT BC **Apr 15: No call (day after QIBA Annual Mtg) Move to Apr 22nd instead?**
- Apr 22: TBD
- Apr 29: TBD

SPECT Task Forces: (Tuesdays at 2 pm CT) –

- Mar 22: Clinical / Literature Review – *Dr. Seibyl*
- Apr 05: Image Acquisition and Image Processing for DaTscan – *Dr. Dewaraja*
- Apr 12: Quantitative / Image Analysis – *Drs. Miyaoka and Seibyl*
- Apr 19: Phantoms / DRO Group – *Drs. Dickson and Zimmerman*
- Apr 26: Clinical / Literature Review – *Dr. Seibyl*

Meeting: Apr 12-14:  **QIBA Annual Meeting** (Alexandria, VA)

RSNA Staff attempt to identify and capture all committee members participating on WebEx calls. However, if multiple callers join simultaneously or call in without logging on to the WebEx, identification is not possible Call participants are welcome to contact RSNA staff at QIBA@RSNA.org if their attendance is not reflected on the call summaries. [QIBA wiki](#)