# QIBA SPECT Biomarker Committee (BC) Friday, October 16, 2015, 9 AM (CT)

**Call Summary** 

Joe Koudelik

Julie Lisiecki

In attendance: RSNA

Yuni Dewaraja, PhD (Co-Chair)Edward Jackson, PhDAmy Perkins, PhDJohn Seibyl, MD (Co-Chair)Paul Kinahan, PhD, FIEEEEric Perlman, MDJohn Dickson, PhDGregory Klein, PhDPierre Tervé, MSAlbert Guvenis, PhDRobert Miyaoka, PhDBenjamin Tsui, PhDHidehiro Iida, DSc, PhDNancy Obuchowski, PhDBrian Zimmerman, PhD

Moderator: Dr. Dewaraja

## • I – 123 (Brain) Preliminary Scheduling for Rotating Task Forces:

- Weekly calls every Tuesdays, at 2 pm CT for the next 4-to-6 months.
- o If a task force cannot meet, they will meet the following month in order to maintain a regular schedule
- o Ongoing work can continue among members via email
- o Some groups were combined due to the distribution of participants

## • Task Force Groups with leadership proposed in the following order:

- 1. Image Acquisition and Image Processing for DaTscan Dr. Dewaraja
- 2. Quantitative and Image Analysis Drs. Miyaoka and Seibyl
- 3. Phantoms/ DRO Group Drs. Dickson and Zimmerman
- 4. Clinical/ Literature Review Dr. Seibyl

## • Suggested 2015 schedule beginning in November:

#### November

- o Nov 3: No call (Dr. Dewaraja at IAEA meeting in Vienna)
- o Nov 10: Quantitative and Image Analysis Drs. Miyaoka and Seibyl
- o Nov 17: Phantoms/ DRO Group Drs. Dickson and Zimmerman
- Nov 24: Clinical/ Literature Review Dr. Seibyl

#### December

- Dec 1: No call (RSNA 2015)
- Dec 8: Image Acquisition and Image Processing for DaTscan Dr. Dewaraja
- o Dec 15: Quantitative and Image Analysis Drs. Miyaoka and Seibyl
- o Dec 22: Phantoms/ DRO Group Drs. Dickson and Zimmerman
- Dec 29: No call (RSNA Winter Break)

## Image Processing

- Technical overview of DaTscan image acquisition and image reconstruction was provided regarding the following topics:
  - image acquisition recommended measurement parameters
  - iterative reconstruction
  - scatter correction
  - post-filtering
  - attenuation correction
  - resolution recovery

## • Phantom Overview (Drs. Dickson and Zimmerman)

- Two types of physical phantom are available for groundwork studies
  - RSD Striatal phantoms this was recommended as it is anthropomorphic. But, fragile.
  - Liqui-Phil head phantoms too simplistic
- o Requirements for a digital phantom (normal and abnormal subjects)

■ Effects due to penetration by high energy I-123 emissions difficult to mimic in a digital phantom

# Upcoming Nuclear Medicine Calls (Fridays, 9 am CT):

- Oct 23: Nuclear Medicine Combined Biomarker Committees Meeting
- Oct 30: Optional call for poster developers, if needed

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 <a href="QIBA@RSNA.org">QIBA@RSNA.org</a> if their attendance is not reflected on the call summaries. <a href="QIBA wiki">QIBA wiki</a>