

QIBA PET Amyloid Biomarker Committee

08 July 2016 at 9:00 AM CT (GMT-6)

Call Summary

In attendance:

<i>Eric Perlman, MD (Co-Chair)</i>	Paul Kinahan, PhD	Rathan Subramaniam, MD, PhD, MPH	RSNA Julie Lisiecki
<i>Satoshi Minoshima, MD, PhD (Co-Chair)</i>	Dawn Matthews, MS, MBA	Na Sun, PhD	
<i>Anne Smith, PhD (Co-Chair)</i>	Nancy Obuchowski, PhD	John Sunderland, PhD	
John Hoffman, MD	Sara Sheikhabaei, PhD	Jean-Luc Vanderheyden, PhD	

QIBA Round-6 Project Proposals

- Four PET Amyloid Projects were submitted for Round 6 funding
- As a whole, Nuclear Medicine submitted 10 out of 22 proposed projects total
 - Projects will be scored after the Steering Committee meets on July 21st
 - PIs will be notified within two weeks after the Steering Committee regarding the final selections

Meta-Analysis Paper

- Dr. Subramaniam plans to circulate his draft meta-analysis paper to the BC for feedback and edits approximately 5 weeks from now
- Dr. Subramaniam raised the possibility of leveraging the IDEAS project by including an additional repeatability study on 30 – 40 patients. Challenges as discussed by the members would include:
 - IDEAS has a mixture of patients without illness as well as patients with MCI and Alzheimer's Disease
 - A revised IRB would be needed which could practically be a show stopper
 - Timing would be critical to the study; similar to ACRIN 6678, scans would need to be completed in one week

Update on NCI – NIBIB Meeting with QIBA on June 1st

- An important directive that came from this meeting was that the QIBA Profiles must move forward to the technically confirmed stage so that potential users may begin implementation of the Profiles
- A goal for the PET Amyloid BC is to get a Profile out for Public Comment prior to RSNA 2016
- In addition, QIBA leadership is very interested in a mechanism for QIBA to become self-sustaining in the future, though no specific plans have yet been identified

RSNA 2016

- It is not too early to begin thinking of ideas for the QIBA posters for the QIBA Kiosk at RSNA 2016
- While a specific focus has not yet been determined, volunteers will be needed to compile the poster

QIBA NM Dashboard for PET-Amyloid

- The group is lagging behind somewhat in terms of goals for the Profile
- A Profile Review multi-hour call is under consideration to complete Profile gaps

Phantoms

- Dr. Klein to follow up with Data Spectrum regarding a 90 slice Hoffman phantom for conformance testing
- Dr. Kinahan is in the process of developing a new brain phantom, which may not be ready for Profile testing
- However, Dr. Kinahan can provide immediate access to UW QIBA DROs for conformance testing

Image Analysis Workstation Conformance

- Ms. Matthews suggested that for ease of testing, ONE DRO should be used to test workstation conformance

- Not all other proposed forms of testing are publicly or readily available
- Dr. Sunderland discussed how the Hoffman phantom may be somewhat confounding for conformance testing
 - It has 250 slices that are not interpolated, but rather are thin, replicate slices
 - The slices are interspersed with grey matter slice and spacer slices to simulate white matter for partial volume averaging, which is not standard
 - Dr. Sunderland also recommends using Dr. Kinahan’s DRO for conformance testing
- Some additional suggestions for conformance testing included:
 - Creating 10 abnormal and 10 normal cases for testing
 - Possibly using a single morphology with different noise measurements in digital form
 - One morphology may not be enough for testing

Profile Review WebEx

- RSNA staff will distribute doodle poll details for a proposed multi-hour review on Friday, July 22nd, and an additional one-hour time-slot on Tuesday, July 26th
- Once the results of the doodle poll are available, Dr. Perlman will divide groups by topic and expertise and provide a schedule to participants to maximize available time for the call

Nuclear Medicine WebEx Schedule

Committees (Fridays, 9 am CT):

- July 15: SPECT BC
- July 22: (doodle poll out for possible multi-hour Profile review)

SPECT Task Forces: (Tuesdays, 2 pm CT)

- July 19: Phantoms / DRO Group – Drs. Dickson and Zimmerman
- July 26: time slot for possible NM Amyloid Profile review