

## QIBA PET Amyloid Biomarker Committee

15 January 2016 at 9 AM CT

Call Summary

In attendance:	Participants:	RSNA	
<b>Co-chairs:</b>	Ronald Boellaard, PhD	Sara Sheikbahaei, PhD	Joe Koudelik
<i>Eric Perlman, MD</i>	John Hoffman, MD	Rathan Subramaniam, MD, PhD, MPH	Julie Lisiecki
<i>Anne Smith, PhD</i>	Paul Kinahan, PhD	John Sunderland, PhD	
	Adriaan Lammertsma, PhD	Huseyin Toré, MD	
	Annette Schmid, PhD	Jean-Luc Vanderheyden, PhD	

### Phantom / DRO Update

- The U Washington team is mining brain image data using NeuroQuant software from CorTechsLab to analyze approximately 300 image sets
  - <http://www.cortechslabs.com/neuroquant>
  - The software stores images and provides analysis and works well with high resolution MR
- The team's goal is to delineate grey matter, white matter and CSF, though this has not been fully accomplished
  - Only certain structures have been delineated; multiple brain segmentation tools were used, including the 3-D Slicer
- Dr. Sunderland has devised corrective target concentration ratios that may help overcome some segmentation challenges
  - Remaining technical details are being worked out by the team
  - Two physical phantoms and DRO will share identical segmented datasets
  - Goal is to get contrast to be nearly identical between the physical phantoms and DRO, though the best method is yet to be determined
  - Medical data is needed to help guide the team toward a nuanced target for ultimate usefulness
  - Scientific rigor and clinical application are both required for an effective claim

### Upcoming NM Call Schedule / Topics

- Drs. Kinahan and Sunderland to further explain the amyloid DRO and physical phantom respectively, and outline how these may be used in conjunction with the Profile to measure "conformance"
- Logistics for Profile feasibility testing and a review process need to be discussed
- Consider joint meeting with interested MR QIBA members to understand use of MR Volumetry in AD.

---

### Nuclear Medicine BC Calls:

- Feb 05: FDG-PET BC
- Feb 12: Amyloid BC
- Feb 19: SPECT BC
- Feb 26: Combined NM BCs - TBD

### SPECT Task Forces: (Tuesdays at 2 pm CT) – pending availability of co-chairs

- Feb 02: Image Acquisition and Image Processing for DaTscan – Dr. Dewaraja
  - Feb 09: Quantitative / Image Analysis – Drs. Miyaoka and Seibyl
  - Feb 16: Phantoms / DRO Group – Drs. Dickson and Zimmerman
  - Feb 23: Clinical / Literature Review – Dr. Seibyl
-