

QIBA PET Amyloid Biomarker Committee

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

Call Summary

In attendance:

Eric Perlman, MD (Co-Chair)

Anne Smith, PhD (Co-Chair)

William Bridge, MS

Susan De Santi, PhD

Paul Kinahan, PhD

Martin Lodge, PhD

Dawn Matthews, MS, MBA

Nancy Obuchowski, PhD

Sara Sheikbahaei, PhD

Charles Smith, MSCS

John Sunderland, PhD

Jean-Luc Vanderheyden, PhD

Richard Wahl, MD, FACR

RSNA

Joe Koudelik

Julie Lisiecki

QIBA Round-6 Project Proposals

- Proposals are being drafted by project champions
 - Phantom and DRO (Drs. Sunderland and Kinahan)
 - Tracer uptake time differential effect (Drs. Boellaard and Vanderheyden)
- Feasibility test – collaboration with ADNI (may be **considered for future funding**)
 - Modeled after FDG Tumor Profile work
- Software/Reader variability project – modeled after Dr. Wahl's project for the FDG Tumor Profile
 - Compare different analysis packages and readers (unless software is fully automated)
 - Dr. Obuchowski is willing to offer statistical support for this project
 - ADNI may be a good partner or provide a good dataset to use
 - Advantageous to incorporate different tracers: PET amyloid radiopharmaceutical vendors may contribute data
- Scanner reconstruction/image analysis impact on SUVR project
 - Ms. Matthews and Dr. Smith may review major points with the Round-5 project
 - Group guidance would be helpful – topics under investigation include:
 - Difference between recon algorithms (FBP, OSEM, PSF and their TOF versions)
 - Number of iterations (OSEM: 2, 3, 4, 5, 6)
 - Gaussian filter size (OSEM: 2,5,7 mm)
 - Ms. Matthews plans to submit a project proposal on this topic and is open to suggestions
 - Dr. Smith to contact Dr. DeSanti about obtaining Siemens mCT scanner data from Piramal (done)
- Project proposals (including budget detail) are **due to QIBA by April 15th**: qiba@rsna.org

Profile

- The Profile was last updated on April 7, 2016.
- As there are over 100 different comments, Dr. Perlman has enlisted the aid of a colleague to act as interim Profile editor to help the group and clean up this latest version for readability.
- Some open issues remain that will require with the input of physics experts
- Dr. Obuchowski will also need to re-review the statistics sections to check for accuracy
- No additional confounders were found
- SUVr will be used instead of absolute SUV
- Some additional details are needed for the Patient Prep section 3.1.2

Action item: RSNA staff to re-distribute NIBIB application forms / details to all NM BC leaders

April Nuclear Medicine WebEx Calls:

Biomarker Committees:

Apr 15: No call after QIBA Mtg

Apr 22: SPECT BC

Apr 29: TBD

SPECT Task Forces: (Tuesdays, 2 pm CT)

Apr 19: Phantoms / DRO – Drs. Dickson & Zimmerman

Apr 26: Clinical / Literature Review – Dr. Seibyl