

QIBA PET Tau Biomarker Committee (BC)

Friday, April 14, 2023, at 9 am CT

Call Summary

In attendance

Dawn Matthews, MS, MBA (co-
Santi Bullich, PhD
Charlie Chen, PhD
Rachid Fahmi, MSc, PhD
Clara Ferreira
Norman Foster, MD

Leonardo Iaccarino, PhD
Adriaan Lammertsma, PhD
Antoine Leuzy, PhD
Alison Long, MD, PhD
Richard Margolin, MD
Bradford A. Navia, MD, PhD

Nancy Obuchowski, PhD
Sandra Sanabria Bohorquez,
Joanna (Jo) Shuping, BS
Dean F. Wong MD, PhD
Gudrun Zahlmann, PhD

RSNA Staff

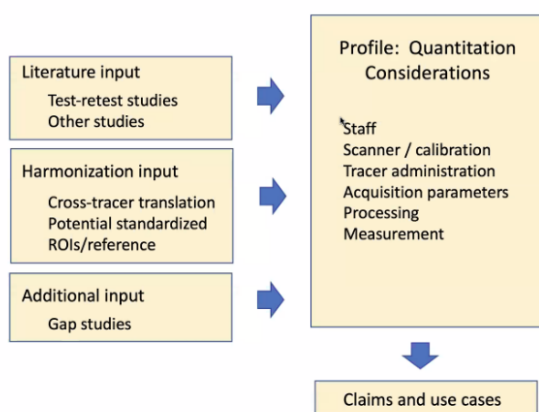
Joe Koudelik
Julie Lisiecki

Discussion topics

- Overview of QIBA Profile development Process for the PET Tau BC
- Presentation by Dr. Leuzy re: Standardization of Tau PET Using the CenTauR Scale

Profile Process

- Reference literature has been organized in Dropbox by tracer
- Volunteers are taking the lead for each tracer regarding literature searching/gathering (see below)
- Tracer lead will identify which of four categories (acquisition, test-retest, measurement, off-target binding) each article addresses
- Lead and additional volunteers will review papers to distill key parameters into common format spreadsheet provided on-line in Dropbox for collaborative editing; one spreadsheet per tracer; certain attributes can be completed as a first round before determining which merit detailed capture
- Dr. Obuchowski will provide deeper analyses of test-retest methods and findings
- The wCV information could provide basis for technical claim; additional use cases can be derived by knowing baseline mean and standard deviation as well as mean and standard deviation of change over time, and scanner bias for absolute claims
- Tau tracers – will begin with review of test-retest data and some longitudinal studies
- Will develop quantitative and technical performance claims



Tracer literature leads

- APN-1607: Dr. Navia
- AV-1451/Tauvid: tbd (M. Pontecorvo to be contacted; Dr. Benzinger/C. Chen/Dr. Leuzy support if needed)
- GTP-1: Dr. Sanabria
- MK-6240: Dr. Betthausen
- PI-2620: Dr. Bullich
- RO-948: Dr. Wong, Dr. Leuzy

Standardization of Tau PET Using the CenTauR Scale (Dr. Leuzy)

- Dr. Leuzy presented some updates from the Tau PET Harmonization Working Group
- This precompetitive group works with Critical Path for Alzheimer's Disease (CPAD)
- Research is being conducted with centiloids and tracer-specific variability, using mean values and ranges
- The group is trying to adapt a centiloid scale for use with Tau PET, by converting SUVR to a common scale

Next Steps

- Julie to resend link to Dropbox and attach [tracer spreadsheet](#)
- All to review the tracer spreadsheet(s) on Dropbox and contribute by identifying key papers and where they fit into the categories on the spreadsheet: test/retest acquisition, measurement, and off-target binding

Next meeting – Agenda items

- Dr. Leuzy and others who attended will present highlights from the International Conference on Alzheimer's and Parkinson's Diseases and Related Neurological Disorders, [AD/PD™ 2023](#)

Priority Task Forces: (Member list is has been posted here: [link to Google doc](#))

1. **Acquisition:** Adapt acquisition recommendations to tau
2. **Claim:** Test-retest and longitudinal literature or de novo analyses
3. **(deferred for 1 and 2) Measurement/analysis:** methods to address meningeal uptake AND other off-target binding

Prior and ongoing action items in process:

- Re: data sources, labels, acquisition protocols:
 - Dr. Iaccarino will report back findings from CPAD and will check with Avid about flortaucipir
 - Drs. Margolin and Navia will contribute to APN1607 related aim
- **Link to [task force sign-up sheet](#)** (3 Task Forces – form #2)
- **Ms. Matthews** to follow up with tracer manufacturers and others re: test-retest data that may be available
- **Dr. Wong** to send a paper to Ms. Matthews for inclusion on Dropbox

Next Call: Friday, May 12th at 9 am CT {whole group}

Parties interested in joining the [QIBA LinkedIn](#) page for QIBA updates should visit: <https://www.linkedin.com/company/rsna-qiba>

- Task force calls will be scheduled independently by task force champions/leaders, who will have the responsibility of reporting back to the BC; Co-Chairs will follow up with Focus Area volunteers for next steps