QIBA PET Amyloid Biomarker Committee
08 July 2016 at 9:00 AM CT (GMT-6)
Call Summary

In attendance:

<table>
<thead>
<tr>
<th>RSNA</th>
<th>Call Summary</th>
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<tbody>
<tr>
<td>Eric Perlman, MD (Co-Chair)</td>
<td>Paul Kinahan, PhD</td>
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<tr>
<td>Satoshi Minoshima, MD, PhD (Co-Chair)</td>
<td>Rathan Subramaniam, MD, PhD, MPH</td>
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<td>Anne Smith, PhD (Co-Chair)</td>
<td>Julie Lisiecki</td>
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<td>John Hoffman, MD</td>
<td>Dawn Matthews, MS, MBA</td>
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<td>Na Sun, PhD</td>
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<td>Nancy Obuchowski, PhD</td>
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<td>John Sunderland, PhD</td>
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<td>Sara Sheikbahaei, PhD</td>
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<td>Jean-Luc Vanderheyden, PhD</td>
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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
  o It has 250 slices that are not interpolated, but rather are thin, replicate slices
  o The slices are interspersed with grey matter slice and spacer slices to simulate white matter for partial volume averaging, which is not standard
  o Dr. Sunderland also recommends using Dr. Kinahan’s DRO for conformance testing

• Some additional suggestions for conformance testing included:
  o Creating 10 abnormal and 10 normal cases for testing
  o 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 22\textsuperscript{nd}, and an additional one-hour time-slot on Tuesday, July 26\textsuperscript{th}
• 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

\textit{Nuclear Medicine WebEx Schedule}

\begin{tabular}{|c|c|}
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\textbf{Committees (Fridays, 9 am CT):} & \textbf{SPECT Task Forces: (Tuesdays, 2 pm CT)} \\
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July 22: (doodle poll out for possible multi-hour Profile review) & July 26: time slot for possible NM Amyloid Profile review \\
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