

## QIBA and FDG-PET/CT Biomarker Committee (BC)

04 October 2021 at 2 PM CT

### Call Summary

#### In attendance:

*Nathan C. Hall, MD, PhD (Co-Chair)*  
*John Sunderland, PhD (Co-Chair)*  
*Jeffrey T. Yap, PhD (Co-Chair)*  
Evren Asma, MS, PhD  
Spencer Behr, MD  
Janice Campbell, PhD  
Clara Ferreira  
Timothy J. Hall, PhD

Adriaan Lammertsma, PhD  
Martin Lodge, PhD  
Dawn C. Matthews, MS, MBA  
Jonathan McConathy, MD, PhD  
Robert Miyaoka, PhD  
Jayant Narang, MD  
Nancy Obuchowski, PhD  
Eric Perlman, MD

Fabien Ricard, MD, MS  
Ying Tang, PhD  
Pierre Tervé, MS  
Timothy Turkington, PhD  
Richard Wahl, MD, FACR  
Scott Wollenweber, PhD  
John Wolodzko, PhD  
Gudrun Zahlmann, PhD

#### RSNA

Joe Koudelik  
Julie Lisiecki

**Moderator:** Dr. Yap

#### Update on FDG-PET activities (Dr. Zahlmann)

- Dr. Zahlmann thanked Drs. Sunderland, Yap, and Nathan Hall for their support of the QIBA/EARL pilot
- Future plans include:
  - additional collaboration between QIBA and EARL for the betterment of the nuclear imaging community
  - working with accreditation bodies
  - QIBA Profile conformant software and QIBA Profile certification services
- EARL is interested in inviting additional sites for a second pilot, or extension, including private practices and community clinics
- A memorandum of understanding (MOU) between QIBA and RadSite has been signed for a similar pilot with five to ten sites, integrating the QIBA FDG-PET Profile into RadSite's accreditation programs
  - An online checklist form to facilitate this process is available
  - Changes are anticipated to incorporate Dr. Yap's modifications to the scoring system
- Some QIBA primer material may be needed for RadSite sites explaining the conformance process and benefits
  - Volunteer reviewers from the FDG-PET BC are also needed for both RadSite and EARL pilots
  - Further discussion will be needed on upcoming BC calls

#### FDG-PET Checklist / Scoring System (Dr. Yap)

- The protocol and Profile were literature based, utilizing best practices when the documents were written
- Over time, the focus of the Profile has changed to minimizing measurement variance
- A checklist was created with required critical aspects for review by Drs. Boellaard, Lodge, and Turkington
- The current checklist scoring system for Profile partial conformance incorporated the work previously done by BC contributors
  - Additional BC review was requested
- Approximately 40 checklist items were reviewed with a scoring system based on actors
  - Twenty of these items were "must-haves" (would impact the claim), and the other 20 were graded based on their perceived impact on the claim (nice to have but not required)
  - Points were deducted if a site was deficient for a particular response
    - A 4-point penalty was assigned if sites chose not to implement criteria that were required, thereby not achieving conformance
- Justification for the points penalty system may be needed, and examination of data in the literature is underway
- Dr. Sunderland would like to add a sentence or two of rationale per each checklist item based on criteria and justification from the literature
- Streamlining the requirements is another goal

### **Discussion (All)**

- Dr. Turkington would like to better understand how and why the partnership with RadSite was selected
- Dr. Turkington noted that accreditation bodies only tell sites if they are performing something correctly and was uncertain if a partnership would have the desired learning outcomes
- Dr. Zahlmann explained that a smaller group / pilot would be more manageable and would provide a good learning experience to see if QIBA would consider future collaborations with accreditation bodies

### **Next steps**

- Development of database and decision logic (criteria) to collate site data and analyze/score responses; this QIBA scientific review process requires SME input and is still under development
- Prepare explanatory text (rationale) for relevant checklist items to better engage imaging sites
- Work with BC to provide literature-based evidence to the checklist items to assess potential impact on Profile claim

### **Action items**

- FDG-PET leadership would like to invite BC members as additional contributors for a potential RadSite Pilot
- A future call TBD via doodle poll

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