QIBA FDG-PET/CT Tech Ctte Update Call  
14 June 2013 at 9 AM CT (GMT-5)  
Call Summary

In attendance:  
Paul E. Kinahan, PhD (co-chair)  
Ling X. Shao, PhD (co-chair)  
Richard L. Wahl, MD (co-chair)  
Ronald Boellaard, PhD  
Andrew Buckler, MS  
Janice Campbell, PhD  
Barbara Croft, PhD  
Robert Doot, PhD  
Howard Higley, PhD  
Gregory Klein, PhD  
Martin Lodge, PhD  
Lawrence MacDonald, PhD  
Eric S. Perlman, MD  
Anne M. Smith, PhD  
Daniel Sullivan, MD  
John Sunderland, PhD  
Timothy Turkington, PhD  
Wolfgang Weber, MD  
John Wolodzko, PhD  
Brian Zimmerman, PhD  
Joe Koudelik  
Julie Lisiecki

RSNA

Agenda

• Address assigned public comment resolution for physics topics – Dr. Perlman

Public Comment resolution for assigned physics topics

• Extended discussion regarding scanner calibration and assuring accuracy, on a quantitative basis
  o Frequency of scanner calibration and need for a NIST-traceable phantom was discussed
  o Pros and cons for daily, weekly, monthly, quarterly testing reviewed for PET constancy check
    ▪ Cons included: radiation dose to the technologist and financial cost to site
    ▪ Pros included: additional consistency and comparability; improved patient care, and improved
      quantitative measurement
  o Considerations for conducting constancy checks include:
    ▪ Variability in the positioning/ placement of the phantom
    ▪ Cost-of-use
    ▪ Difficulty with logistics
• Daily/ weekly QC drift check of NIST-traceable germanium phantom or equivalent was proposed
• Test would be costly but would help to determine reproducibility and exchange rates of SUV between sites with a
goal of quantitative accuracy

Action items (QIBA FDG_PET Profile Triage):

• Dr. Kinahan will follow up with inviting DICOM Working Group 3 participants
• Dr. Perlman (ericperlman@gmail.com) welcomes feedback for review on Monday’s Triage of Public Comments
  call
• UPICT FDG-PET Protocol requires editor to help address future comments

Next calls:

• Monday, June 17th – (9 am CT) - QIBA FDG_PET Triage of Public Comments call
• Friday, June 21st – (9 am CT) – Regular Meeting of the FDG_PET Technical Committee – continued PHYSICS topics