

QIBA FDG-PET/CT Tech Ctte Update Call

27 April 2012 at 9 AM CDT (GMT-5)

Call Summary

In attendance:

Paul Kinahan, PhD (co-chair)

Richard Wahl, MD (co-chair)

Richard Frank, MD, PhD (Co-chair)

Keith Allberg

Paul Christian

Patricia Cole, PhD, MD

Martin Lodge, PhD

Larry MacDonald, PhD

Dennis Nelson, PhD

Eric Perlman, MD

Anne Smith, PhD

Rathan Subramaniam, MD

Daniel Sullivan, MD

John Sunderland, PhD

Timothy Turkington, PhD

Jeffrey Yap, PhD

Brian Zimmerman, PhD

RSNA

Joe Koudelik

Madeleine McCoy

New nuclear medicine (NM) biomarkers discussed

- Broadening the NM scope to include quantitative approaches within neuro-imaging was discussed
 - SPECT – Dopamine receptor scans
 - Amyloid agents
 - FDG Neuro diagnostic (for Alzheimer's)
- Greater standardization deemed necessary in these areas
- FDA regulatory approval and CMS reimbursement policies concerning these neuro-biomarkers discussed
- Extent that quantitation leads to read consistency will help CMS determine reimbursement-agenda item for next call

Discussion regarding the Profile updates (Dr. Kinahan)

- Updated version of the Profile working document reviewed (v0.6.1.3)
- Blood glucose level (BGL) measurements discussed
 - Standardization needed to address variation in current procedures (U.S. and international)
- Three-step radiotracer injection dose procedure proposed
 - Pre-injection FDG dose details needed
 - Time of patient injection
 - Residual dose and time after injection
- Best methods for technologist to measure residual dose discussed
- Syringe and line flushing discussed; to be included in the normative text in the Profile (Section 1.3)
- Balance needed between radiotracer quantitation (i.e., measuring syringe + accessible line) vs. patient safety (i.e., measuring syringe only); optimal flush process still needed
- Checking syringe cap to be included in protocol
- Dr Yap to provide histogram of flush example
- Validity of current radiotracer recording methods discussed
 - Operator witness proposed to validate recorded values

Next steps:

- Dr Kinahan to circulate latest Profile version for ctte feedback
- Dr Frank to send example (chart) to Dr Kinahan for the Profile section related to Image Interpretation Detail
- Dr Yap to provide histogram of radiotracer (syringe/line) flush example
- Next call agenda items to include residual dose, CMS reimbursement and QIBA compliance details

Next call: to continue discussion of the Profile at 9 am (CT), May 4th