

QIBA FDG-PET/CT Tech Ctte Update Call

19 July 2013 at 9 AM CT (GMT-5)

Call Summary

In attendance:

Paul E. Kinahan, PhD (co-chair)

Richard L. Wahl, MD (co-chair)

Keith Allberg

Barbara Croft, PhD

Lawrence R. MacDonald, PhD

Eric S. Perlman, MD

Annette Schmid, PhD

Anne M. Smith, PhD

Rathan Subramaniam, MD

Timothy G. Turkington, PhD

Scott D. Wollenweber, PhD

John G. Wolodzko, PhD

Jeffrey T. Yap, PhD

Brian E. Zimmerman, PhD

RSNA

Fiona Miller

Madeleine McCoy

PET / CT Digital Reference Object Threshold Analysis Paper Discussed (Dr. Kinahan)

- DRO testing was conducted on twenty-two different workstations, with twenty-two different software packages representing thirteen unique software vendors.
- Measurements reported for six regions
 - Errors recorded did not indicate specific trends
 - Not possible to determine whether ROI's were drawn correctly
- Dr. Kinahan requested feedback from the group pertaining to:
 - The appropriate buffer zone
 - Analyzing image values
 - Compliance standards
- More discussion on this project to be scheduled for end of July

Public Comment Discussion (Dr. Perlman):

- Discussion of items that have been resolved since last call.
 - #88: Mr. Christian provided production proposed text.
 - Performance specifications need to be clearly stated as US regulations only or a statement needs to be added referring to local requirements.
 - Dr. Perlman will discuss the EMEA with Dr. Boellaard.
 - #89: Additional text was approved and added—"Inject a quantity of FDG as prescribed in the protocol within the range defined in the protocol."
 - Height and weight measurements need to be addressed taking into consideration pediatric and elderly patients.
 - If the clinical trial is performed within the time frame of growth or degeneration of the subject, weight and measurements will need to be repeated.
 - Profile text to be modified addressing height and weight parameters
 - #12: Quantitative Analysis
 - "If image registration is required, then perform the ROI analysis on the original non-interpolated PET image set using appropriately modified ROI's."
- Other items on which consensus had not been reached
 - #13: There is no mention of Raw Data storage.
 - "To avoid confusion the term raw data should not be used without making it clear which form is under discussion."
 - It was suggested that the Profile specify what scanner raw data should be archived
 - The UPICT Protocol should be referenced to ensure proper terminology.
 - #19: Dr. Wahl's terminology was revised.
 - "Baseline lesion SUV (maximum) of at least 1.9 x mean SUL or SUV of liver (as defined in PERCIST) which is based on PERCIST criteria."
- Feedback/comments welcome to Dr. Perlman (ericperlman@gmail.com)

Next Steps:

- Dr. Perlman to follow-up with Dr. Boellaard regarding the EMEA regulations.
- The goal is to have the Public Comment resolution document posted to the WIKI for review and feedback.
- 25 open DICOM comments to be addressed.

Call Schedule:

- **Friday, July 26th** – 9 am (CT) – Regular Meeting of the FDG-PET Technical Committee
- FDG-PET Triage t-con to be scheduled.