

QIBA Lung Density Technical Committee

July 9, 2014 at 2 PM CT

Call Summary

In attendance

Philip F. Judy, PhD (Chair)

Andrew Buckler, MS

Heather Chen-Mayer, PhD

Matthew Fuld, PhD

Bernice Hoppel, PhD

Zachary Levine, PhD

Nancy Obuchowski, PhD

Daniel Sullivan, MD

RSNA

Joe Koudelik

Julie Lisiecki

Agenda 7/9/2014: Lung Density Technical Committee

1. AAPM Face-to-face Tuesday noon
2. Status of AEC and IR Project
 - a. Revision submitted?
3. Possible material SPIE presentation
 - a. Histogram correction using COPDGene Phantom as CT number reference
4. Volume correction
 - a. Update
 - b. Public Database
 - c. PFJ - Comments on obesity constriction of lung volume
5. Review of acquisition and reconstruction specifications
 - a. Update
6. Citations to Profile
7. Plan for analysis sections of Profile

Next call: Wednesday, July 30, 2014 at 2 pm CT

Discussion:

- Dr. Chen-Mayer provided an update on the literature search on evaluation of bias and precision for longitudinal measurements
 - Drafting some precise wording for the claim to solicit feedback from the rest of the group.
 - Dr. Obuchowski will aid with the metanalysis and phrasing the claim in statistical and metrological terms
 - Items for further consideration include random vs. fixed repeatability coefficients, and their application to biological significance and intended clinical usefulness
 - Based on assessment of studies in a fixed-effects model, it appears that the random effect model may be more applicable
- RSNA staff to poll for an optimal time for a t-con for Drs. Fuld and Hoppel and other equipment manufacturers to discuss parameters.
- **AAPM meeting: July 20-24, 2014**
 - An informal face-to-face meeting at AAPM to discuss the Profile, to be held Tuesday, July 22nd starting at about noon, local time. Location TBD by Dr. Judy.
- **SPIE Medical Imaging Conference Abstracts due August 4th**
 - SPIE will be held in Orlando, FL from February 21-26, 2015 | Abstract suggestions: philipfjudy@philipfjudy.com.

Action items:

- Drs. Chen-Mayer and Fain to send citations to Dr. Judy for inclusion in his EndNote program: philipfjudy@philipfjudy.com.

QIBA CT Lung Density Tech Ctte next call: 7/30/2014