

QIBA COPD Asthma/ CT Lung Density Technical Committee

June 11, 2014 at 2 PM CT

Call Summary

In attendance

Philip F. Judy, PhD (Chair)

Andrew Buckler, MS

Heather Chen-Mayer, PhD

Sean Fain, PhD

Matthew Fuld, PhD

Bernice Hoppel, PhD

Greg Kinney, MPH, PhD

Songtao Liu, MD

Berend Stoel, PhD

Daniel Sullivan, MD

RSNA

Julie Lisiecki

Madeleine McCoy

Agenda 6/11/2014: COPD-Asthma/Lung Density Technical Committee

1. Review of Summary
2. Lung density profile claims update
3. Volume correction update
4. Review of acquisition and reconstruction specifications update
5. Possible material SPIE presentation – PowerPointNotes Attached
 - a. Histogram correction using COPDGene Phantom as CT number reference
 - b. Model of histogram
6. Citations to Profile
7. Plan for analysis sections of Profile.

Next call: Wednesday, June 25, 2014 at 2 pm CT

Discussion:

- Dr. Judy indicated that there will not be a special session for qCT of the lung at the SPIE Conference
- Dr. Fain gave an update regarding the literature search for inclusion of bias and precision for cross-sectional parenchymal density and the justification for the selected biomarkers: Perc15 and RA -950.
 - Key points from the papers have been summarized in table form; citations will be provided to Dr. Judy for EndNote
- Dr. Fain to craft a concise summary statement of claims for a more general audience by the July AAPM meeting
 - A detailed example demonstrating the specifications for volume correction was also suggested for inclusion.
- Drs. Chen-Mayer and Stoel are working on a related literature search to evaluate bias and precision for longitudinal measurements
 - Goal to keep the information in a form that is consistent with QIBA Metrology goals
 - Dr. Chen-Mayer to continue her presentation and discussion with the group on the next call (6/25)
- Drs. Fuld and Hoppel now have collaborative representation from Siemens, Toshiba, Philips, and GE re: acquisition and reconstruction parameters.
 - The manufacturers will consult on volume correction and AEC measurements to aid in the development of a consistent protocol across platforms
- **[SPIE Medical Imaging Conference Abstracts due August 4th](#)**
 - Call for papers - www.spie.org/micall2
 - SPIE will be held in Orlando, FL from February 21-26, 2015
 - Dr. Judy hopes to encourage additional collaboration with the lung density projects via networking
 - Group members are encouraged to submit abstracts for this conference
 - Any suggestions for abstracts are welcome: philipfjudy@philipfjudy.com.
- **[AAPM meeting: July 20-24, 2014](#)**
 - Dr. Judy is considering a face-to-face meeting at AAPM to discuss the Profile
 - Dr. Judy will provide RSNA staff with some suggested dates/ times for a Doodle Poll

Action items:

- RSNA staff to follow up with Dr. Judy regarding a Doodle Poll for a face-to-face meeting at AAPM (July 20 - 24, 2014)
- 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: 7/9/2014