

## QIBA Lung Density Technical Committee

June 25, 2014 at 2 PM CT

Call Summary

### In attendance

**Philip F. Judy, PhD (Chair)**

Heather Chen-Mayer, PhD

Matthew Fuld, PhD

Bernice Hoppel, PhD

Zachary Levine, PhD

Songtao Liu, MD

Jered Sieren

### RSNA

Joe Koudelik

Julie Lisiecki

### Agenda 6/25/2014: COPD-Asthma/Lung Density Technical Committee

1. Organization – Renaming Committee
2. AAPM Face-to-face Tuesday noon
3. Status of AEC and IR Project
4. Possible material SPIE presentation
  - a. Histogram correction using COPDGene Phantom as CT number reference
  - b. Reference standard?
5. Volume correction
  - a. Update
  - b. Public database
6. Review of acquisition and reconstruction specifications
  - a. Update
7. Citations to Profile
8. Plan for analysis - sections of Profile

**Next call:** Wednesday, July 9, 2014 at 2 pm CT

### Discussion:

- Per Dr. Judy, the official group name has been changed to, “QIBA Lung Density Technical Committee,” to better reflect its work
- Dr. Judy would like an updated status report for the AEC/ IR project, as any Round-4 project **revisions are due to RSNA by July 7<sup>th</sup>**.
  - Dr. Fain to examine proposed project budget for possible reductions
  - Dr. Fain is working on a concise statement of claims for a more general audience by the July AAPM meeting
  - A recent paper comparing AEC methods across different vendors from Dr. John Boone’s group may prove helpful
  - Suggestion to utilize some of the methods and design approach related to the anthropomorphic Anderson chest phantom discussed by Dr. Newell at the recent STR meeting
    - Dr. Newell had discussed results for IR, and the group hopes to utilize similar comparison metrics to those presented for Siemens and GE.
- Dr. Chen-Mayer discussed her progress with a linear regression method using global correction and NLST data; the method may be promising due to its relative ease of use
- Dr. Fuld indicated that more data are needed with an application of corrections to a range of values
  - Care must be taken not to make any claims that are not FDA approved, e.g., no CT scanner has ever been FDA approved for screening purposes
  - Parameter specification must be firm
- **AAPM meeting: July 20-24, 2014**
  - Per the Doodle Poll results, Dr. Judy has scheduled a face-to-face meeting at AAPM to discuss the Profile, to be held Tuesday, July 22<sup>nd</sup> starting at noon, - location TBD
- **SPIE Medical Imaging Conference Abstracts due August 4<sup>th</sup>**
  - SPIE will be held in Orlando, FL from February 21-26, 2015 | Abstract suggestions: [philipfjudy@philipfjudy.com](mailto: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](mailto:philipfjudy@philipfjudy.com).

**QIBA CT Lung Density Tech Cttee next call:** 7/9/2014