

## QIBA Lung Density Technical Committee

July 30, 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

Zachary Levine, PhD

Joshua Levy

Songtao Liu, MD

Jered Sieren

Daniel Sullivan, MD

### RSNA

Joe Koudelik

Julie Lisiecki

### Agenda 7/30/2014: Lung Density Technical Committee

- 1) Report on AAPM Face-to-face Meeting
  - a) Claim
  - b) Volume Correction
- 2) Status of AEC and IR Project
- 3) Possible material SPIE presentation – Phil Judy has decided not to submit abstract
- 4) Volume correction
  - a) Public Database with recommended correction?
- 5) Review of acquisition and reconstruction specifications
  - a) Update
- 6) Citations to Profile
- 7) Plan to analysis sections of Profile

**Next call:** Wednesday, August 13, 2014 at 2 pm CT; there will be **no call** on **Wednesday, August 27<sup>th</sup>**.

### Discussion:

- Dr. Fain provided an overview of the meeting of Lung Density Technical Committee members during AAPM.
- The group discussed the following topics:
  - Agreement to use 16-channel architecture systems or greater for scanning equipment
    - In addition, a specific metric is desired for defining scanners rather than a list of parameters
  - Claims document and what is needed to finalize it
    - Claims without volume correction (Dr. Fain)
    - Claims with volume correction (Dr. Chen-Mayer)
  - Extended discussion of Profile targets for noise and spatial resolution
  - Focus on what manufacturers can do to aid in provision of a standardized test object
  - COPDGene 2 test object and test methodology
- Dr. Chen-Mayer provided an update on the volume correction issue
  - Decision not to support a specific volume in the next draft of the Profile
  - Bias and limits of agreement will be summarized across various approaches and an average will be provided
  - Will need to stipulate thresholds for progression and response
- Dr. Judy mentioned an update to the claims template provided by Dr. Obuchowski to include a simpler statement for non-technical staff as well as the needed indices within the body of the template
- Dr. Judy indicated that he would fill in the template for the special issue of the QIBA Newsletter.
- The discussion on the next call will focus on editing draft materials for the claim, linked with volume correction discussion.

### Action items:

- Dr. Fain will send a finalized draft Profile to the group for review once it is available
- Dr. Judy will complete the RSNA template for the special issue of the *QIBA Newsletter*
  - Dr. Fain will provide Dr. Judy with presentations, publications, etc. that relate to his funded project
- 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 Ctte next call: 8/13/2014**