

## QIBA Lung Density Biomarker Committee

February 11, 2015 at 2 PM CT

Call Summary

### In attendance

*Philip F. Judy, PhD (Chair)*

Alan Brett, PhD

Andrew Buckler, MS

Heather Chen-Mayer, PhD

Harvey Coxson, PhD

Dominic Crotty, PhD

Sean Fain, PhD

Matthew Fuld, PhD

Bernice Hoppel, PhD

Joshua Levy

Nancy Obuchowski, PhD

Karen Procknow, RT (R)

Jered Sieren, BSRT (R) MR CT

Claudio Silva, MD, MSc

### RSNA

Joe Koudelik

Julie Lisiecki

### Agenda 2/ 11 /2015: Lung Density Biomarker Committee

#### 1. Vendor COPD Gene Phantom 2 Scanning - Status

- Round- robin scanning to test vendor acquisition protocols is underway
  - Phantom has been scanned at Philips and will be shipped next to:
    - GE
    - Siemens
    - Toshiba
  - University of Iowa software will be used for phantom analysis, pending legal approval
    - An update may be available by the March 25<sup>th</sup> meeting of the BC
  - It may be necessary to send the phantom around again if preliminary scanner system differences cannot be understood/resolved
  - Definitive test results are needed before the Vendors Task Force can contribute meaningful data to inform the Profile
- Mr. Sieren will be leaving U Iowa for a position at VIDA Diagnostics, but plans to continue his involvement with QIBA and CT-based airway software

#### 2. Profile Markup

**Line 50** - Clinical Context – for COPD Emphysema only

**Line 59** - Choice –950 HU – Discussed in Claims Appendix and Clinical Context

**General** - Whole chest in 10 sec while meeting image quality specifications. Vendor suggestions

**Confirm** - slice thickness 0.5 to 1.25 mm

Pixel size consistent with slice thickness

**Line 205** - Need discussion of details for segmentation method

#### 3. Consider Groundwork project: develop and evaluate procedures to make the lower lung density measurements equivalent to previous higher measurements.

**Next call:** Wednesday, Feb 25, 2015 at 2 pm CT

#### Agenda for 2/25:

Continue Profile markup

Analysis Issues – Open Questions

- Scanner Variation
- Volume Correction
- Dose Correction