QIBA Lung Density Biomarker Committee
February 11, 2015 at 2 PM CT
Call Summary

In attendance
Philip F. Judy, PhD (Chair)  Dominic Crotty, PhD  Nancy Obuchowski, PhD  Joe Koudelik
Alan Brett, PhD  Sean Fain, PhD  Karen Procknow, RT (R)  Julie Lisiecki
Andrew Buckler, MS  Matthew Fuld, PhD  Jered Sieren, BSRT (R) MR CT
Heather Chen-Mayer, PhD  Bernice Hoppel, PhD  Claudio Silva, MD, MSc
Harvey Coxson, PhD  Joshua Levy

RSNA

Agenda 2/11/2015: Lung Density Biomarker Committee

1. Vendor COPDGene 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 25th 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