QIBA Lung Density Biomarker Committee
February 25, 2015 at 2 PM CT
Call Summary

In attendance   **RSNA**

Philip F. Judy, PhD (Chair)   Sean Fain, PhD   Nancy Obuchowski, PhD   Joe Koudelik

Heather Chen-Mayer, PhD   Matthew Fuld, PhD   Karen Procknow, RT (R)

Harvey Coxson, PhD   Bernice Hoppel, PhD   Daniel Sullivan, MD

General Discussion

Vendor COPDGene Phantom 2 Scanning
- Status - Phantom scanned by the second vendor system; 3rd scheduled for the week of March 2nd
- Siemens' legal has approved the use of the U Iowa phantom analysis software; Dr. Fuld to complete phantom analysis in two weeks
- Specification and Performance Assessment of spatial resolution needed for the Profile

Connect Claim in Profile with Claim Appendix
- Dr. Chen-Mayer to connect with the meta-analysis appendix
- Using the CT Volumetry Profile as a reference was suggested

Profile Makeup
- Use of the the CT Volumetry Profile as a reference was suggested

- Analysis Issues – Open Questions
  o Scanner Variation
  o Volume Correction – Will require volume correction for serial measurement but will not specify method
  o Dose Correction or Specify Noise – Use of pixel noise in COPDGene Phantom was suggested
- Goal is to have a draft Profile ready for the May QIBA Annual Meeting

Consider Groundwork Project: Develop and evaluate procedures to make the lower lung density measurements equivalent to a previous higher measurement
- Benchmarking cross-platform performance values to obtain the same output metrics (consistency) deemed more suitable than advocating for lower CT doses
- Higher-dose protocols show lower/smaller source errors, i.e., minimizing confounding factors, but evidence minimal due to limited supporting datasets

Next call: Wednesday, Mar 11, 2015 at 2 pm CT