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

In attendance

Philip F. Judy, PhD (Chair)          Sean Fain, PhD             Nancy Obuchowski, PhD
Heather Chen-Mayer, PhD            Matthew Fuld, PhD          Karen Procknow, RT (R)
Harvey Coxson, PhD                 Bernice Hoppel, PhD         Daniel Sullivan, MD

RSNA
Joe Koudelik

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
  - Scanner Variation
  - Volume Correction – Will require volume correction for serial measurement but will not specify method
  - 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