In attendance
Philip Judy, PhD
Heather Chen-Mayer, PhD
James D. Crapo, MD
Zachary Levine, PhD
Joshua Levy

RSNA
Julie Lisiecki

Agenda
• Reference standard "profile"
• CT Number accuracy
  o Region of interest size, reconstruction kernel, truncation

Discussion included:
• Characteristics of reference phantom (spreadsheet) discussed
• Issues associated with modifying the spectra reviewed
• Mean collimation and table height deemed important
• Image analysis issue – need to define region of interest size
  o With a very large object, you need to worry about the effect of hardening
  o Consider the impact of the measurement on a patient
  o The data collection from the scanners leads to variations due to independent calibration
• Image acquisition vs. reconstruction
  o Accuracy issues within 3 HU
  o Adaptive filtering techniques
  o Truncation issues – need to aim within one HU
  o Can we reduce dose – with no loss of imaging info?
• Discussion of variation due to reconstruction techniques
• Variation in foams and batch to batch consistency
  o Hoping to measure the standard reference materials

Next steps:
• Follow up with Dr. Gierada regarding precision measurements for lesions
• Scan new COPDGene phantom

Next calls:
• COPD General Business, May 4, 2011 at 2pm (CT); Discussion of Profiling
• COPD LDRCS: May 11, 2011 at 2pm (CT)