In attendance

Philip F. Judy, PhD (Co-chair)
Harvey O. Coxson, PhD
Frank Ranallo, PhD
RSNA
Joe Koudelik

Paul L. Carson, PhD
Harvey O. Coxson, PhD
Sean B. Fain, PhD
Jered Sieren

Heather Chen-Mayer, PhD
Zachary Levine, PhD
Daniel C. Sullivan, MD

Martin Connell, BSc
John D. Newell, Jr., MD

Call Summary

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Paul L. Carson, PhD  Harvey O. Coxson, PhD  Sean B. Fain, PhD  Jered Sieren
Heather Chen-Mayer, PhD  Zachary Levine, PhD  Daniel C. Sullivan, MD
Martin Connell, BSc  John D. Newell, Jr., MD

Agenda

1. Review of Lung QCT Conference at STR and follow-up
   a. COPD Biomarkers Qualification Consortium – Stephen Rennard
   b. Normative data – Graham Barr

2. Status of CT scanning and analysis of COPDGene Phantom with NIST Foams
   a. NIST
   b. UW
   c. Clinical Research Imaging Centre
   d. Iowa
   e. National Jewish

Discussion Summary

Review of Lung QCT Conference at STR and follow-up

• Dr. Judy and Dr. Lynch agreed that the next one-day Quantitative Imaging of the Lung conference would be held in conjunction with the 2013 International Workshop for Pulmonary Functional Imaging in Madison, WI from July 18-20, 2013.
  o Better fit for the group than AAPM.
• Dr. Judy met with Dr. Graham Barr at the STR meeting to discuss normative data for lung mass.

QIBA Annual Meeting (May 22-23, 2012)

• The American Thoracic Society (ATS) annual meeting and COPDGene meeting are in direct conflict with the QIBA Annual Meeting, making QIBA COPD/Asthma members unavailable.

NIST report on experiments with foams – Dr. Chen-Mayer

• COPDGene phantoms were scanned using specific parameters with the new foams on a Philips 16 machine
• Both “in-air” and “in-phantom” tests were done
• Need actual measurements for the foam densities from Mr. Levy
• There are some variations within 1 Hounsfield Unit (HU) though all measurements are consistently within range of 1 HU
• Noted that improvement on measurements with regard to ROI may be needed
  o Jered Sieren offered to run Dr. Fain’s data on University of Iowa software to calculate volumes
  o Dr. Fain hopes to standardize airway measurements
• Dr. Judy is interested in measurements from the new phantoms and any variations

Toshiba Scanners

• Toshiba scanners currently are the only ones that do not truncate reads below 1000 HU
• These extra-precise measurements may have issues in some experiments but are nice to have available

Next Steps:

• Dr. Connell plans to scan the COPDGene phantom using a dose-reduction scheme with rings lent by Dr. Judy
• Dr. Hoppel and Toshiba team members plan to visit Dr. Connell’s lab facility in Scotland

Next calls:

• Next COPD/Asthma Technical Committee update call: Wednesday, April 18, 2012 at 2 PM CT
• Next COPD/Asthma LDRCS WG update call: Wednesday, April 25, 2012 at 2 PM CT