Call Summary

In Attendance
Philip Judy, PhD (Co-chair) Zachary Levine, PhD
David Lynch, MB (Co-chair) Joshua Levy
Andrew Buckler, MS Jered Sieren
Heather Chen-Mayer, PhD
Harvey Coxson, PhD
James Crapo, MD RSNA
Sean Fain, PhD Fiona Miller
David Gierada, MD Joe Koudelik
Eric Hoffman, PhD

Groundwork Proposals Discussed
- COPD proposal developed for QIBA funding based on raw image databases from Drs Hoffman and Lynch
- Dose-saving algorithm proposal developed by Drs Fain and Ranollo
- Breast shield usage protocol and current modulation to limit exposure discussed as potential additional proposals
  o Beam hardening, scatter and streaking to be studied
  o Dr Levine to follow-up with NIST personnel to model effects
  o Demonstrating breast shields provide little benefit will help with standardization
- Perfusion CT scanning with COPDGene phantom using COPD and SPIROMICS protocols; may be difficult/costly to collect
- Retrieval and archival raw data for phantom and COPD subject scans for algorithm development
- Integration of COPDGene phantom scans and patient scan data; data already in-hand; only support to analyze data needed; still need to select which scanner data to analyze

Phantom Modification Overview (Dr Judy)
- Ring insertion (annulus) discussed
- Acrylic, water, and air comprise materials
- Various tubes located in center to mimic the trachea
- Three NIST foams added for additional density variations

Profile/UPICT Activities
- Drs Dorfman, Judy, Lynch and Mr O'Donnell discussed next steps while at RSNA 2010
- COPD Profile to be augmented with Claims and specifications for vendors
- In-person meeting suggested to steer Profile development

Next Steps:
- Next call scheduled for Jan 12th, 2011 at 2 pm CST