QIBA COPD/Asthma Technical Committee  
October 24, 2012 at 2 PM CT  
Call Summary

In attendance

**Philip F. Judy, PhD (Chair)**  
Barbara Croft, PhD  
Paul Carson, PhD  
Heather Chen-Mayer, PhD  
Harvey Coxson, PhD

**RSNA**  
Baojun Li, PhD  
Sean Fain, PhD  
Jong Hyo Kim, PhD  
Joshua Levy

Barbara Croft, PhD  
Paul Carson, PhD  
Heather Chen-Mayer, PhD  
Harvey Coxson, PhD

**RSNA**  
Baojun Li, PhD  
Sean Fain, PhD  
Jong Hyo Kim, PhD  
Joshua Levy

1. Discussion
   - QIBA Metrology Template for Profile claims was reviewed briefly
   - The goal is to identify a finite set of biomarkers
     - The proposed first measurand is PERC 15 (an emphysema marker/metric for longitudinal studies)
   - Dr. Judy has begun a literature review for references on reproducibility
     - Little published work exists on this topic; a formal metaanalysis is needed
   - Inconclusive discussion on whether there is clinically significant measurable change
   - Coefficient of variation may not work with PERC 15
   - It was suggested that PERC 15 only applies to ratio measurements in longitudinal studies
     - Clarification is needed if interval- or ratio-variable
     - This measurement is thought to be more easily standardized for CT scans, though less accurate
     - There is no pathologic validation, though the measurement is very robust
       - Typically used in European studies, esp. the Netherlands
       - North American researchers prefer a percentile approach, low attenuation or application of value to see where it places on percentile threshold analysis
   - The group agreed that PERC 15 is a useful metric and could be used
   - Goal to move CT forward as a valid biomarker if there is an identifiable surrogate endpoint

2. RSNA 2012 Plans
   - Face-to-face meeting
     - Due to travel budgets and constraints, not many from the technical committee will be able to attend
     - Dr. Fain indicated he will attend
   - Poster: Dr. Judy is compiling information from tech committee members for the poster figures and text
   - **The QIBA working meeting is Wednesday, Nov 28th, from 3 pm – 5 pm**
     - Please respond to the Doodle Poll regarding attendance at Wednesday’s meeting: [http://www.doodle.com/kssb47q8up4446c6](http://www.doodle.com/kssb47q8up4446c6)
     - Doodle Poll will be used by tech committees to prepare agendas based on attendance

3. 2013 International Workshop for Pulmonary Functional Imaging
   - Drs. Judy and Lynch to finalize the QIBA program and submit a proposal with agenda to RSNA
   - Drs. Chen-Mayer and Levine expressed an interest in attending though travel resources may be needed

4. Technical Committee Plans
   - Per Dr. Fain, CBQC has expressed some interest in dose-reduction CT studies. Dr. Judy may propose a T-Con with CBQC to further discuss suitable biomarkers for Profile development.
   - Status of NIST effort
     - Drs. Chen-Mayer and Levine are preparing documentation for marketing/distribution of NIST foams
   - Phantom Update
     - Some phantoms with Phantom Lab for upgrade to address scattering issues
     - Dr. Judy plans to perform scans of the COPDGene phantom as part of the COPDGene Study II, which begins in 2013 with approximately 10,000 cases

Next Steps
   - Dr. Fain to provide information to Dr. Judy for the poster
• Seek alternate sources of funding for RFP for computer program to analyze COPDGene Phantom images
• Plan a comparison of airway-size image analysis algorithms
• Return to Profile writing
  o Discuss Profile claims and next steps – Add calibration procedure

**Next call:** QIBA COPD/Asthma Update Call, **Wednesday, November 7, 2012, 2 pm CT**