Dr. Judy presented technical groundwork of potentially common interest between oncology and the COPD/Asthma committees.

- **6/27/2012 Wednesday 2pm (CDT) Regular COPD/Asthma Tech Ctte Conference Call Agenda**
  1. Status of collaboration with CBQC (Update if progress)
  2. Review of low dose reconstruction studies
     - Summarize literature
     - Revisit PFJ NLST results
  3. Discuss database for COPDGene Phantom images
  4. Review RFP for computer program to analyze COPDGene Phantom images

- **Evaluations of COPDGene Phantom**
  a) Optimization of airway size measurements
     - Evaluation of dose reduction protocols
     - “Challenge” to evaluate airway size algorithms
     - (Look to Volumetry TC experience)
  b) RFP for public domain software to analyze COPDGene Phantom images
     - Distributed draft for comment
  c) Round-robin scans of COPDGene Phantom with lung reference foams
     - Put images in public database
  d) Use Phantom for qualification of CT vendor models for COPD studies
     - (Toshiba experience—Hoppel and Connell)

- **Normative CT lung density data needed to diagnose early emphysema—(hoping for collaboration)**
  - Collaboration with COPD Biomarker Qualification Consortium (CBQC)
    a) Two-day workshop proposed for January 2013
       - Day 1-Prioritize CT biomarker
       - Day 2-Non-CT imaging biomarkers
    b) Radiation risk is of concern to members of the Consortium; FDA to consider an amendment to guidance document to highlight CT risk concerns as a result of discussion at the January workshop
       - This would be an opportunity for development of an additional biomarker in imaging or lung volumes.
    c) Financial considerations, operational costs, and governance of the CBQC Steering Committee were discussed.
       - Though a non-profit organization, the CBQC receives support from Pharma.
       - Companies/Organizations must pay $100,000 per year to participate on the Steering Committee.

- **Toshiba Evaluation with COPDgene Phantom—Data from Martin Connell-CRIC**

- **COPDGene phantom**
  - Axial edge artifact for Toshiba Aquilion One with 380x380mm ring, other rings it is not apparent
  - 5cm Phantom not wide enough for 4cm collimation
- Not as significant in Siemens 128 slice (Biograph mCT 128)
- Stacking phantoms reduces artifact but difficult to align phantoms

- Dr. Levine discussed use of Teflon balls within the phantom and the creation of 5-density foam block “kits” with SI traceable measurements

- Dr. Chen-Mayer discussed NIST foam in COPDGene phantom as well as the foam block in phantom comparison
  - In-phantom HU values vs. air HU values
    - Estimated attenuation/scattering effect of phantom

**Next Steps for the CT Volumetry Tech Ctte:**

- Next t-con scheduled for July 2nd at 11am (CT)
  - Team to discuss possible business models for QIBA (e.g., based on ATCC) in efforts to generate revenue for QIBA.
    - Dr. Mulshine to explain the ATCC business model to generate funds
    - Fee-for-Services, Fee-for-Artifacts, access to datasets to reflect curation costs, compliance testing, Profile generation...all possible sources of funding support
- Team also to discuss interest in QIBA cross-committee efforts and other directions.