# QIBA COPD/Asthma Lung Density Reference and Consistency Standards Work Group (LDCRS WG) Update June 8, 2011 at 2 PM CDT

**Call Summary** 

#### In attendance

Philip Judy, PhD (Co-chair) John D. Newell Jr., MD (Co-chair) Heather Chen-Mayer, PhD Sean Fain, PhD Frank Ranallo, PhD

### **RSNA**

Julie Lisiecki

# Agenda:

- 1. Experience with COPDGene Phantom with foams identified by NIST
- 2. Variation of foam CT number in Gammex phantom with foams identified by NIST

#### **General Discussion:**

- Dr. Judy is concerned about adaptive filtering on the projection table
- Focus of presentation and discussion: the new phantom model modifications to be posted on the WIKI
  - Change: added 3 new NIST-identified foams yet to be calibrated
  - CT numbers obtained from phantom foam inserts discussed
  - o CT numbers of air and water are less sensitive to spectral differences
  - Use of different scanners
  - Positioning of phantom in relation to another object
  - o Positioning material within the phantom
  - Using the term "reference standard" to replace "phantom"
  - o Concerns about table height, rings, and pixel size
  - o Adding a measurable "uncertainty error" in a given HU on a system that has been well calibrated

## Next steps:

- Postpone Profile discussion until next call
- RSNA Staff to post edited PowerPoint presentation to the QIBA WIKI: <a href="http://qibawiki.rsna.org/">http://qibawiki.rsna.org/</a>

## **Next calls:**

- Wednesday, June 15<sup>th</sup> (COPD/Asthma Technical Committee Update Call)
- Wednesday, June 22<sup>nd</sup> (Lung Density Reference and Consistency Standards Work Group)