

## QIBA COPD/Asthma Technical Committee 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 COPD Gene 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
  - CT numbers of air and water are less sensitive to spectral differences
  - Use of different scanners
  - Positioning of phantom in relation to another object
  - Positioning material within the phantom
  - Using the term “reference standard” to replace “phantom”
  - Concerns about table height, rings, and pixel size
  - 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: <http://qibawiki.rsna.org/>

#### 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)