

## QIBA COPD/Asthma Technical Committee

September 5, 2012 at 2 PM CT

Draft Call Summary

### In attendance

**Philip F. Judy, PhD (Chair)**

Paul Carson, PhD

Heather Chen-Mayer, PhD

Harvey Coxson, PhD

Sean Fain, PhD

Michael Flynn, PhD

Jong Hyo Kim, PhD

Zachary Levine, PhD

Mark Schiebler, MD

Daniel C. Sullivan, MD

### RSNA

Joe Koudelik

Julie Lisiecki

### Call for volunteers to develop poster content for *RSNA 2012 (hard copy to RSNA by Nov 1<sup>st</sup>)*

- Possible Topics include:
  - Axial edge artifact
  - Effect of dose reduction protocol
  - Use of COPDGene Phantom to deal with scanner inconsistencies

### QIBA participation in 2013 International Workshop for Pulmonary Functional Imaging

- Dr. Schiebler (*University of Wisconsin-Madison*) gave a brief overview of the workshop structure and available time slots for a half-day program with a QIBA focus
  - The workshop is geared mainly toward young scientific researchers in efforts to grow the field
  - Cost must be kept to a minimum to prevent the registration fee from being prohibitive
- Dr. Judy is considering a half-day educational workshop, similar to the QCT Imaging of the Lung program, which was held in conjunction with STR 2012
  - Drs. Judy and Schiebler are formulating a proposal for QIBA consideration
- Co-sponsorship, collaboration on program design, and use of the QIBA logo for this session were also discussed

### Quantitative CT Imaging of the Lung Program for 2014

- Dr. Lynch suggested holding this program in conjunction with the STR meeting again; more discussion needed.

### COPDGene Phantom Calibration Results – (*PowerPoint presentation of results - Dr. Judy*)

- Air numbers within and around the COPDGene Phantom were discussed using the GE Lightspeed16, Philips Brilliance 64, and other scanners
  - Use of a calibrated emphysema threshold was employed in this experiment
  - 12% Variance associated with shift of CT number
  - Determining a correction factor remains challenging.

### Next Steps

- Seek alternate sources of funding for RFP for computer program to analyze COPDGene Phantom images
- Review and evaluate low-dose reconstruction protocols
- Plan a comparison of airway-size image analysis algorithms
- Discuss Profile claims and next steps – Add calibration procedure

**Next call:** *QIBA COPD/Asthma Update Call, [Wednesday, September 19, 2012, 2 pm CT](#)*

**Other:** COPD Genetics Conference **9/27/2012- 9/28/2012** AMSTERDAM