

## QIBA COPD/Asthma Technical Committee Update

June 15, 2011 at 2 PM CDT

### Call Summary

#### In attendance

*Philip Judy, PhD (Co-chair)*

*John D. Newell, Jr., MD (Co-chair)*

Andrew Buckler, MS

Harvey O. Coxson, PhD

Sean Fain, PhD

David Lynch, MB

Jered Sieren

Daniel C. Sullivan, MD

#### RSNA

Joe Koudelik

Julie Lisiecki

#### Agenda:

1. Discussion of updated Profile and specific wording in draft – Dr. Judy
2. Discussion regarding another call for a COPD/Asthma Strategic Plan Working Group

#### General Discussion:

##### Excerpt material that Dr. Judy presented:

1. This imaging protocol will establish the methods to estimate lung densities and lung volumes from CT images obtained during multi-institution studies. Lung densities and lung volumes will serve as surrogate endpoints for severity of emphysema, degree of air trapping, and degree of hyperinflation in COPD and asthma.

2. Using this profile, we will be able to achieve adequate calibration and longitudinal stability of CT scanners in order to permit measurement of longitudinal change in attenuation of air on CT phantom of  $\pm 1$  HU. CT.

##### Circular: Phantom to correct and same phantom to establish compliance

3. A change greater than  $2\sqrt{2}$  (long term coefficient of variation) can be considered a statistically significant change (95% confidence). Fuleihan GE, Testa MA, Angell JE, Porrino N, LeBoff MS. Reproducibility of DXA Absorptiometry: A Model for Bone Loss Estimates. J. Bone Mineral Res. 1995; 6:1004-1014.

#### Next steps:

- Preliminary planning and scheduling for work to begin for the QIBA COPD/ Asthma Strategic Plan Working Group – would like call before July 6<sup>th</sup>
  - Dr. Newell to provide suggested dates and time for this new call to RSNA staff
- Group asked to look carefully at the Profile and send comments to Drs. Lynch, Judy, and Newell to synthesize

#### Next calls:

- **Wednesday, June 22<sup>th</sup>** - (Lung Density Reference and Consistency Standards Work Group)
- **Wednesday, June 29<sup>th</sup>** – (COPD/Asthma Technical Committee Update Call)
- **Wednesday, July 6<sup>th</sup>** - (COPD/Asthma Technical Committee Update Call)
- **TBD** Strategic Plan Working Group call to be scheduled between June 22 – July 6, led by Dr. Newell