

QIBA COPD/Asthma Technical Committee

February 8, 2012 at 2 PM CST

Call Summary

In attendance

Philip F. Judy, PhD (Co-chair)
Paul L. Carson, PhD
Barbara Croft, MD
Sean B. Fain, PhD
Michael Flynn, PhD

Bernice Hoppel, PhD
Zachary Levine, PhD
Joshua Levy
Frank Ranallo, PhD
Daniel C. Sullivan, MD

RSNA

Julie Lisiecki

Dr. Judy: Discussion – Volume Correction

- It has been determined that volume corrections make a significant difference when evaluating detectable change by reducing variation and improving accuracy
- In order to diagnose emphysema, it must be demonstrated that the amount of parenchyma is less than some normative value
 - *Proposed claim:*
 - “Increases or decreases of more than 10% in the measured lung density are likely to be associated with actual change in lung density. This claim holds for smokers with greater than 30 pack year history. The claim holds for repeated measurements using the specified lung volume corrections.”

Other topics:

- Dr. Judy reminded the group about the upcoming workshop: *Quantitative CT Imaging of the Lung, March 10, 2012, Huntington Beach, CA*
 - Registration details are available on the QIBA Wiki:
http://qibawiki.rsna.org/index.php?title=COPD-Asthma_tech_ctte
- Dr. Carson recommended that the group determine projects to pursue over the next two years if additional NIBIB funding becomes available
- Dr. Martin Connell (Clinical Research Imaging Centre, Edinburgh) has sent some data to Dr. Judy for analysis and has joined the group
 - Reconstruction software and dose reduction software are primary interests
 - Dr. Judy will team with Dr. Hoppel on the evaluation of this data

Next Steps:

- Dr. Judy suggested the group look at the template for the Volumetrics Profile, focusing on the claims
- The group to discuss potential projects to pursue, if funding becomes available

Next calls:

- Next COPD/Asthma LDRCS WG update call: **Wednesday, February 15, 2012 at 2 PM CST**
- Next COPD/Asthma Technical Committee update call: **Wednesday, February 22, 2012 at 2 PM CST**