

QIBA COPD/Asthma Technical Committee Update

August 24, 2011 at 2 PM CDT

Call Summary

In attendance

Philip Judy, PhD (Co-chair)
John Newell, Jr, MD (Co-chair)
Andrew Buckler, MS
Heather Chen-Mayer, PhD
James Colsher, PhD

Alden Dima, MS
Sean Fain, PhD
Baojun Li, PhD
Jered Sieren

RSNA

Julie Lisiecki

I. Progress Reports

- Mr. Sieren submitted a University of Iowa profile to the group for review.
- The Thursday meeting will focus on working through timing/ planning issues/ plotting on the Gantt chart
- The 8/31/11LDCRS WG call) will focus on test objects, cupping artifacts, scanning and scatter issues, how spiral CT mitigates effects of cone-beam artifacts, axial scanning, and phantom measurements
- Dr. Judy interested in depth /change – causes of change in measurements

II. Discussion of the RSNA 2011 poster and items to include

- Advances in test objects/ options
- Justification for the need for quality assurance: Mr. Sieren volunteered COPDGene data
- NIST project updates (Dr. Chen-Mayer's work with reference standards translated for radiologists)
 - (Include illustrations of foams, uniform lung, etc.)

III. Profile issues discussed

- Subject handling: Contrast agents not to be used
- Breathing instructions are critical - Dr. Judy to send comments to Dr. Newell, Mr. Sieren
- Image analysis – more discussion needed
- Claim – requires more work
 - Information to support the claim and not more than what is needed to differentiate from protocol.
 - What is the repeatability on the phantom?
 - What is the repeatability on the patient?
- Issue – image data acquisition: Scan FOV or focal spot size?
 - Suggested to replace with “field of view”
 - Dr. Judy to work on the wording for this particular section
- Determination of what signal-to-noise” measurements are needed with adjustment to dose
- One Profile with various protocols as subsets rather than previously considered multiple Profiles

Next steps:

- RSNA Staff to post University of Iowa version of profile to QIBA WIKI and inform the group (posted 8/24), call for comments to be sent to Mr. Sieren: jered-sieren@uiowa.edu.

Next calls:

- Next COPD/Asthma LDCRS WG update call: **Wednesday, August 31, 2011 at 2 PM CDT**
- Next COPD/Asthma TC update call: **Wednesday, September 7, 2011 at 2 PM CDT**
- Next COPD/Asthma Strategic Plan WG update call: **TBD**