

QIBA COPD/Asthma Technical Committee Update

September 21, 2011 at 2 PM CDT

Call Summary

In attendance

John Newell, Jr, MD (Co-chair)

Philip F. Judy, PhD (Co-chair)

Andrew Buckler, MS

Harvey O. Coxson, PhD

Sean B. Fain, PhD

Joshua Levy

David A. Lynch, MB

Jered Sieren

RSNA

Julie Lisiecki

Profile update:

- Dr. Lynch provided feedback to Dr. Newell for incorporation into the Profile
- Group moving forward to provide the necessary documentation through studies or additional groundwork
- Group considering release of the Profile for public comment with areas labeled “Work to be Done” or “Areas of Uncertainty” in order to glean helpful comments and look for additional perspectives and volunteers to complete the Profile and related groundwork

Discussion of Claims:

- Claim #1 – Group determined that this was better suited to the “compliance” section of the Profile
- Claim #2 – Group determined that this is now Claim #1 – the intent of the Profile
 - Focus on what can be achieved using a Phantom (Dr. Judy to provide more information)
 - Still a question about how to incorporate both density and airways information into the claim
 - Want to include estimated error and repeatability, as well as variability with human interaction
 - Dr. Fain to work on the airways segment for the Profile – will be a composite Profile

Exploratory Claim:

- Must consider whether or not inclusion of exploratory measures will advance the Profile or not
- Considering adding a “caveat” paragraph to discuss other issues like lobes, generations, etc.

Accuracy Claim:

- Cannot get an accuracy claim at this point; Working on incorporating a reproducibility claim
- Dr. Crapo to provide more information on reproducibility and accuracy

Two tiers based on variation and implementation of dose suggested by Drs. Judy and Coxson:

- Dr. Coxson pointed out that the field is moving toward lower dose and it would be futile to put so much work into a Profile that would potentially be unusable in a few years
- Dr. Fain suggested framing the project as follows:
 1. Low dose protocol – lung parenchyma
 2. Higher dose protocol – incorporate both airway and parenchymal measurements
 - also referred to as the “Cadillac” protocol by Dr. Judy – current standards
 - Groundwork related to algorithms will be introduced to support these
 - Lung density and parenchyma could be part of a trial

Next steps:

- Dr. Judy to respond with additional information on phantoms for the Profile
- Dr. Crapo to provide additional information on reproducibility and accuracy of measurement for the Profile
- Dr. Fain to work on airways claim
- Dr. Lynch to look for appropriate abstracts for supporting documentation
- Call for additional comments regarding the Univ of Iowa Profile to be sent to Mr. Sieren: jered-sieren@uiowa.edu.

Next calls:

- Next COPD/Asthma LDCRS WG update call: **Wednesday, September 28, 2011 at 2 PM CDT**
- Next COPD/Asthma TC update call: **Wednesday, October 5, 2011 at 2 PM CDT**

*For reference, the 2010 posters are available on the QIBA WIKI:

http://qibawiki.rsna.org/index.php?title=QIBA_and_UPICT_posters_from_RSNA_2010_Annual_Meeting