

QIBA COPD/Asthma Technical Committee (TC)

June 5, 2013 at 2 PM CT

Call Summary

In attendance

Philip F. Judy, PhD (Chair)

Paul Carson, PhD

Heather Chen-Mayer, PhD

Sean Fain, PhD

John Hokanson, PhD

Bernice Hoppel, PhD

Daniel C. Sullivan, MD

RSNA

Joe Koudelik

Julie Lisiecki

COPD/Asthma Technical Committee Agenda, 6/5/2013

1. NIBIB Contract Project Priorities
 - a. COPDGene Phantom image analysis computer programs
 - b. Secondary CT Lung Density Reference Standard
 - c. Joint COPDGene-QIBA Precision-Bias Study
 2. Profile Progress
 - a. Starting specifications – standard of practice
 - b. Claims – PercentEmphysema-950 versus Perc15
 - c. Analysis section - outline
 3. Quantitative Image Data Warehouse (QIDW)
Possible projects
 - a. Warehouse secondary reference experiments
 - b. Warehouse specification tolerance experiments
 4. COPD Bio-marker Qualification Consortium (CBQC) progress
 5. QIBA Schedule 6th IWPF in Madison July 20, 2013
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Discussion topics:

1. Discussion with Dr. John Hokanson, re: COPDGene collaboration

- Collaboration with COPDGene planned to pursue phantom multi-site test/retest experiments
- Potential funding requests for operational/refinement costs.
- Dr. Hokanson received permission to share data with QIBA COPD/Asthma to better understand data variability and to work toward biomarker measures
- Drs. Hokanson and Judy welcome feedback from QIBA COPD/Asthma technical committee in designing this study

2. Profile Progress

- Dr. Judy to serve as Profile editor and have a draft version for review on the group's July 3rd meeting
- A review of literature on reproducibility was conducted with the group
- More discussion of the claims is needed: 1) precision and bias and 2) airways
- The primary issue is that those who perform tests are not using consistent techniques
- Dr. Judy to follow up with Dr. Lynch regarding duplicate histograms, volume correction, and level of inspiration

3. Quantitative Image Data Warehouse (QIDW) Possible projects

- Inclusion of data that will contribute to the Profile development

4. COPD Bio-marker Qualification Consortium (CBQC) progress

- Dr. Judy to follow up with Drs. Crapo, Lynch, and Mr. John Walsh.

5. IWPF Update - July 17-20: Lung Function Workshop

- Schedule for QIBA session at the workshop was provided – no other updates

Summer Activities:

- July 17-20: Lung Function Workshop
- August 4-8: AAPM meeting
- September 7-11: European Respiratory Society

Next call: QIBA COPD/Asthma Update Call, **Wednesday, June 19, 2013, 2 pm CT**

- Dr. Hokanson to present his COPDGene slide deck
- Dr Fain to discuss the Profile Claim language re: precision

Future Scheduling: Dr. Judy cannot lead the call on August 14th – a volunteer moderator would be appreciated if call is needed.