

QIBA COPD/Asthma Technical Committee

January 4, 2012 at 2 PM CST

Call Summary

In attendance

Philip F. Judy, PhD (Co-chair)

Paul L. Carson, PhD

Heather Chen-Mayer, PhD

Barbara Croft, MD

Bernice Hoppel, PhD

David A. Lynch, MB

Frank Ranallo, PhD

Daniel Sullivan, MD

RSNA

Joe Koudelik

Julie Lisiecki

Discussion regarding application for additional NIBIB funding:

- Applications will need to describe work that has been completed to date, and what is planned for the next two years (October 2012 – September 2014).
 - It was recommended to include:
 1. A list of the biomarkers chosen, along with justification
 2. A roadmap of specific tasks or steps planned during the period of proposed funding
 3. Detailed research plans
 4. Approximately 3-5 pages of text for each modality – highlighting the overall plan
- Technical Committees should begin discussing these topics in preparation for the f2f QIBA Steering Committee meeting on February 1st in Chicago

Comments regarding group progress:

- Dr. Judy commented that he would like to focus on specific attributes and quantities to define a critical problem
- In terms of biomarkers, some progress has been made with medical correlations and inter-scanner reliability pertaining to emphysema airway abnormality
- The pivotal question is inter-scanner variation
 - Using phantom data, the group wants to “correct” the COPDGene inconsistencies caused by different scanners
 - The question was raised – “How does this task fit in with QIBA?”
 - Consider including prospective studies

Update on Phantom Scanning:

- Dr. Ranallo reported that he plans to complete scanning on the COPDGene phantom by the end of the week
- Drs. Fain and Ranallo will share notes regarding the calibration procedure used
- Dr. Ranallo also noted that UWisc is looking at:
 - Dose reduction protocols from various manufacturers
 - Dose reduction in general, and accuracy of the measurement
 1. Adding noise to patient records to evaluate dose level effects considered
 2. Different types of errors from different scanners to consider
 3. The COPDGene phantom may need to be improved to do some of these corrections

Meeting Conflict:

- There is a direct conflict of the ATS meeting and the QIBA Annual Meeting in May. This will make participation difficult for COPD/Asthma participants.
- Dr. Judy will be on vacation during March 2012.

Next Steps:

- Group to continue NIBIB funding discussion on the next Technical Committee Call – January 18th.

Next calls:

- Next COPD/Asthma LDCRS WG update call: **Wednesday, January 11, 2012 at 2 PM CST**
- Next COPD/Asthma Technical Committee update call: **Wednesday, January 18, 2012 at 2 PM CST**