QIBA COPD/Asthma Technical Committee

June 27, 2012 at 2 PM CT Call Summary

In attendance		RSNA
Philip F. Judy , PhD (Co-chair)	Sean Fain, PhD	Joe Koudelik
Paul Carson, PhD	Michael Flynn, PhD	Julie Lisiecki
Heather Chen-Mayer, PhD	Bernice Hoppel, PhD	
Martin Connell, BSc	Zachary Levine, PhD	

Status of CBQC Collaboration

- Dr. Sullivan is awaiting a response regarding proposed 2 day workshop; Workshop proposed for January 2013 with a one-day focus on CT and one day on another imaging biomarker
- Suggested speakers for this workshop include:
 - o Dr. David Lynch
 - Dr. Dave Gierada (low-dose research)
 - o Dr. Harvey Coxson
 - o Dr. Graham Barr
- Dr. Sullivan suggested a conference call among interested parties in the near future

Proposed Database for COPDGene Phantom Images

- Would like ability to share phantom images with interested investigators
- Database might attract software developers to test algorithms
- Technical Committee would get experience using QIBA image database resources

RFP for Airway Measurements

- Want a free and versatile tool for public domain that would let the group analyze data quickly and easily
 - Mechanisms suggested include: open source viewer, plugin, stand-alone Microsoft application, multi-platform Image J, Osirix, etc.
- Dr. Fain will draft some verbiage, working in tandem with Mr. Martin Connell to cite the literature with references for different published algorithms, to add to RFP
- Alternate sources of funding sought to support RFP for computer program to analyze COPDGene images
- Dr. Judy to check with Mr. Levy (Phantom Labs) for suggested resources

Linking lung cancer screening and low dose

- This link will provide useful emphysema metrics with more "power"
- A standardized protocol is needed to compare results
 - Repeatability and reproducibility need to be considered

Other topics

- Dr. Judy would like discussions on low-dose techniques; to include Dr. Fain's dose reduction procedures
- Dr. Hoppel to provide Dr. Judy with a contact name (Dr Narinder Paul in Toronto at UHN-JDMI)
- Round-robin phantom scanning to continue
 - o individual teams to contact one another for shipping information

Next Steps

- Seek alternate sources of funding of RFP for computer program to analyze COPDGene
- Review and evaluate low-dose reconstruction protocols
- Plan a comparison of airway-size algorithms
- Please Note: Plan for summer activities listed on the reverse side of this summary

Next call: QIBA COPD/Asthma Update Call, Wednesday, July 11, 2012, 2 pm CT

QIBA COPD/Asthma Technical Committee Summer Events

1. AAPM - **7/28/2012 - 8/2/2012**

Face to face meeting?

Status of round robin; round robin protocol

2. SPIE Abstract Deadline 7/30/2012 Meeting: 9-14 February 2013 Disney Coronado Springs, Orlando Florida

Evaluation of dose reduction protocols

NLST results - Use of low dose exams

Plan - face to face

3. COPD Genetics Conference 9/27/2012- 9/28/2012 AMSTERDAM

Proposed Summer Schedule (times shown in Eastern)

7/11/2012 - Wednesday 3 PM Regular Conference Call

- 1. Review RFP for computer program to analyze COPDGene
- 2. Plan a database of images of COPDGene Phantoms
- 3. Plan comparison of airway size algorithms

7/25/2012 - Wednesday 3 PM Regular Conference Call

- 1. Review NIST AAPM Presentation
- 2. Results of NIST scans of COPDGene Phantom

8/8/2012 - Wednesday 3 PM Regular Conference Call

- 1. Qualification of scanner models using COPDGene Phantom
- 2. Experience with Aquilion

8/22/2012 - Wednesday 3 PM Regular Conference Call

- 1. Review of CT lung density clinical applications
- 2. Normative CT lung density data

9/12/2012 - Wednesday 3 PM Regular Conference Call - TBD