

QIBA Lung Density Biomarker Committee (BC)

August 31, 2016 at 2 PM CT

Call Summary

In attendance

Matthew Fuld, PhD (Co-Chair)

David Lynch, MD (Co-Chair)

Andrew Buckler, MS

Charles Hatt, PhD

Bernice Hoppel, PhD

Stephen Humphries, PhD

Philip Judy, PhD

Miranda Kirby, PhD

James Kreindler, MD

Nancy Obuchowski, PhD

RSNA

Joe Koudelik

Julie Lisiecki

New Project Implementation

- Dr. Humphries' project, *CT Lung Density Biomarker: Translating Phantom Harmonization to Clinical Practice*, is in progress and will officially start on September 30th, (pending Federal Contract Officer Approval). Dr. Lynch has already ordered four COPD Gene phantoms from the Phantom Laboratory due to the lead time needed for manufacturing
 - The phantoms should be ready by mid-November
- Data from NIST foams were used to calculate true densities; these will be used to recalibrate measurements obtained using the new phantoms
 - Histogram measurements will also be recalibrated to reduce variance and measure conformance
 - A goal will be to harmonize measurements across scanner make and model while simultaneously reducing the difference between low-dose and high-dose protocols to reduce variation overall

Project Sites

- Not all sites have been identified, though a goal will be to maintain consistency with the scanner make
 - Dr. Siegelman has agreed to be a liaison for the project
 - (Consistency with the model may not always be possible)
- Some sites that will be used include:
 - Siemens scanners: National Jewish and U Iowa
 - GE scanner: University of Michigan
 - Philips scanner: Baylor
 - Toshiba scanner: Brigham & Women's Hospital

Profile Editing

- The latest revised draft of the Profile was reviewed
- Dr. Fuld will follow up with Dr. Fain regarding edits that were discussed on the 8/31 call
- Dr. Fain will provide an updated version prior to the next call

RSNA 2016 Lung Density BC Poster

- Drs. Lynch and Humphries will lead the design effort for the poster, with collaborative input from team members
- Volunteers are encouraged to provide content. Please email Dr. Fuld if you can help: matthew.fuld@siemens.com

Strategy for Upcoming Calls

- The group plans to rotate topics on upcoming calls to include the following:
 1. RSNA 2016 poster development
 2. New project under the leadership of Dr. Humphries
 3. Profile completion to prepare for Public Comment

Next call: **Wednesday, September 14, 2016 at 2 pm CT**

Schedule of calls until RSNA 2016 print-ready poster is due:

• September 14	• October 12	October 31 st (Monday): Due date for QIBA print-ready poster PPT template
• September 28	• October 26	