

## QIBA Lung Density Biomarker Committee (BC) Call

January 17, 2018 at 2 PM CT

Call Summary

### In attendance

David Lynch, MD (Co-Chair)

Philipp Hoelzer, PhD

Kevin O'Donnell, MASc

### RSNA

Joe Koudelik

Raul San José Estepar, PhD

Stephen Humphries, PhD

Gonzalo Vegas-Sanchez-Ferrero, PhD, MSc

Julie Lisiecki

Charles Hatt, PhD

Philip Judy, PhD

*Topics discussed included the following:*

### 1. Harmonization field test updates, "QIBA-SRM Calibration Procedure." (Drs. Humphries)

- COPDGene subjects have been scanned
- Drs. Humphries and Chen-Mayer are testing Dr. Chen-Mayer's simplified analysis technique, which uses curves and corrects histograms based on phantom scans to demonstrate better harmonization among scanners
- This involves mapping the scale of the HU values, adjusting Perc 15 and the scale for determining the RA-950 cutoff
- They are currently in a data analysis phase

### 2. Comparative Study Update

- Seven participants have submitted data
- RSNA Staff to follow up with the 6 participants who have not yet responded to assess their interest in participating, and to encourage them to submit data
- RSNA Staff to provide anonymized data received to-date to Dr. Kirby for analysis
- Analysis to begin in the near future
- A report will be provided to the vendors to show their algorithm performance and how they compared to other (anonymized) participants
- IDs will be anonymized in all study reports

### 3. Funding next phase updates

- Dr. Lynch reviewed the wording of the aims for the COPDGene supplemental funding proposal
- He will forward edits made on the call for review to Drs. Estepar, Ferrero, Fain, and Humphries
  - *Draft Aim 1:* To evaluate existing harmonization approaches for evaluation of lung density measurements and validate these methods in relationship to lung function
  - *Draft Aim 2:* To use a quantitative reference phantom to improve accuracy and precision of qCT measures of lung density

### Reminders:

- Dr. Fain requested a volunteer to serve as co-editor of the Profile; if interested, please email: [sfain@wisc.edu](mailto:sfain@wisc.edu)
- Mr. O'Donnell recommended that BC members begin compiling a list of experts and outside organizations that would be interested in reviewing the Profile once it is released for public comment: email addresses will be needed.

**Next meeting:** [Wednesday, January 31, 2018 at 2 pm CT](#)