

## QIBA Lung Density Biomarker Committee (BC)

Wednesday, December 16, 2020, 2 PM CT

Call Summary

### In attendance

<i>Charles Hatt, PhD (Co-Chair)</i>	Joseph G. Mammarrappallil, MD, PhD	Sam Peterson
<i>Miranda Kirby, PhD (Chair)</i>	Hatem Mehrez, PhD	Joshua Schirm, BSE
Bernice Hoppel, PhD	Amin Motahari, PhD	Gonzalo Vegas-Sanchez-Ferrero, PhD, MSc
Annelise Malkus, PhD	Nancy Obuchowski, PhD	

### RSNA

Joe Koudelik  
Julie Lisiecki

**Moderator:** Dr. Hatt

### Next QIBA Profile: Proposal Ideas Under Consideration (Drs. Kirby and Hatt)

- Dr. Kirby reviewed the results of the [survey](#) for new future quantitative Profile biomarker proposals for COPD
- 31 responses were received between November 6<sup>th</sup> – December 16<sup>th</sup>
- Task forces will be created to allow teams to pursue multiple Profiles in parallel; biomarkers under consideration focus on the following:
  - 1) Gas-trapping/Parametric response mapping (PRM) and
  - 2) Airway Dimension Measurements
    - It may be necessary to conduct a second survey to further narrow down interest, as vascular volume and lung texture were also popular responses
- The BC is also considering including Interstitial Lung Disease (ILD) in addition to COPD
- The emphysema Profile will be used as a template
- Dr. Vegas-Sanchez-Ferrero thinks that two biomarkers are more than sufficient, as a dilution of effort would not produce the best results
- Dr. Motahari mentioned that further discussion is needed regarding - 950 HU for vendor implications
  - This will be added to the next agenda
- Availability of clinical evidence and potential claims are important considerations, as well as studies on reproducibility and repeatability, which focus on the specifics of quantification for the biomarker
- The BC intends to start with new biomarker proposals in Q1-Q2 of 2021
- As there are several areas of interest, task forces may be formed to move forward more efficiently and in parallel
- For more detailed description of the previously discussed biomarkers, please see [recent notes](#) posted to the [Lung Density BC QIBA wiki page](#)

### Action items:

- Continue discussion of multi-parametric Profile suggestions on next call

**Next meeting:** 1/27/2021