

QIBA Lung Density Biomarker Committee (BC)

Wednesday, March 23, 2022, 2 PM CT

Call Summary

In attendance

Charles Hatt, PhD (Co-Chair)

Gonzalo Vegas-Sánchez-Ferrero, PhD, MSc (Co-Chair)

Rachel Eddy, PhD

Sean Fain, PhD

Raúl San José Estépar, PhD

Josh Schirm, BSE

RSNA

Julie Lisiecki

Moderator: Dr. Hatt

The following topics were discussed:

- Update on harmonization groundwork study for software comparison and image analysis
- Expiratory PERC measurement, possibly PERC 25
- Predicted RV value, which may help to reduce breath hold variability
- Exploration of cross-sectional claim instead of longitudinal for gas-trapping Profile
- Invitation to [Dr. Peter Noël](#) to discuss [3-D printed lungs](#)

Action items:

- [Dr. Hatt](#) to invite Dr. Peter Noël to next or future BC call to give a presentation on 3D-printed lungs
- [RSNA staff](#) to help spread the word about this presentation once confirmed
- [Dr. Hatt](#) to add some notes about the 3/23 discussion to the gas-trapping Google Profile document
- [Dr. Hatt](#) to ask Dr. Newell re: spiromics data ancillary studies once paper has been published
- [Dr. Hatt](#) to connect with Dr. Abadi re: virtual imaging
- Volunteers may be needed to assist Dr. Vegas-Sánchez-Ferrero with segmentation work
- [RSNA staff](#) suggest contacting [Dr. Hoppel](#) re: the multi-site Lung Density “road trip” experiment data
- Standardized naming of actors across QIBA Profiles (medical physicist or image analysis core, TBD)

Next meetings: 4/27, 5/25, 6/22, 7/27

References: [Profile Stages page](#) | [Technical Confirmation Process](#) | streamlined Profile [conformance checklist](#)

- [Notes](#) posted to the [Lung Density BC QIBA wiki page](#) can be referenced for detailed descriptions of biomarkers