QIBA Lung Density Biomarker Committee (BC) Call
March 1, 2017 at 2 PM CT
Call Summary

In attendance   **RSNA**

Matthew Fuld, PhD (Co-Chair)   Gonzalo Vegas Sanchez-Ferrero, PhD, MSc   Philip Judy, PhD   Joe Koudelik
Heather Chen-Mayer, PhD   Stephen Humphries, PhD   Jered Sieren, BSRT(R) MR CT   Julie Lisiecki

Discussion of Proposed Software Challenge (Dr. Fuld, Mr. Sieren)

- Mr. Sieren shared the QIBA Density Profile analysis plan
  - Dr. Hatt to follow up with vendors and determine interest
  - If confirmed, the group hopes to request COPDGene data by April 1st
    - Data to be requested from COPDGene as an ancillary study
    - An agreement may be required that the data will only be used for a specific purpose
    - Yet undetermined is how data can be accessed from COPDGene
    - Data location for challenge remains uncertain at this time

Also discussed but not finalized:

- Rules and regulations for the challenge
- Registration, data collection, and whether anonymization is needed
- How analysis will be performed and whether feedback will be provided
- Whether the QIDW or COPDGene would host the data
  - The QIDW Oversight Committee is presently reviewing the data upload proposal
  - Waiting for follow-up from Dr. Kirby
- The purpose of the challenge is not yet fully defined
  - It is in between groundwork and a 3A style challenge to inform the Profile, but not a feasibility test
  - Minimum requirements will need to be determined

Spiromics Data:

- Presented results by Dr. Chen Mayer
- Iyer publications narrowed the range by 1HU but also increased the mean by 1HU for the claim
  - Spiromics repeatability data desired to be included in Profile and provided by Dr. Eric Hoffman after publication
- Dr. Fuld to follow up with Dr. Hoffman, as Dr. Chen-Mayer indicated that only 3 values are needed for her analysis from the spiromics data; Dr. Vegas Sanchez-Ferrero also offered assistance

Discussion Regarding the Round-6 Groundwork Project (Dr. Humphries)

- Title of project: "CT lung density biomarker: translating phantom harmonization to clinical practice"
- Dr. Fuld will contact U-Iowa on Dr. Humphries' behalf to get permission to use their analysis software
- Computer corrections factors are based on the COPDGene phantom analysis
- Dr. Chen-Mayer to compute the correction factor for Perc 15

Next call: Wednesday, March 15, 2017 at 2 pm CT