

QIBA Lung Density Biomarker Committee (BC) Call

October 24, 2018 at 2 PM CT

Call Summary

In attendance

Sean Fain, PhD (Co-Chair)

Charles Hatt, PhD

Bernice Hoppel, PhD

Stephen Humphries, PhD

Philip Judy, PhD

Miranda Kirby, PhD

Irene Mayorga Ruiz, M. Eng.

Nancy Obuchowski, PhD

Raúl Yebana

RSNA

Joe Koudelik

Julie Lisiecki

RSNA 2018 Poster:

- Dr. Kirby has drafted a poster for the QIBA Kiosk and plans to submit by the October 31st deadline
- A table has been added to the poster, demonstrating the 2nd round of comparative study results
 - Dr. Hatt suggested that a few explanatory sentences be added near the table, explaining the goals of the comparative study and the purpose of the analysis
- Some table updates may be needed if results are received from Vendor #3

Comparative Study Update:

- Data have been received from 8 out of 9 vendors
- One more vendor intends to provide data soon
 - These will be included in the poster, if received in time
- Of the results received, improvements were noted:
 - The reproducibility coefficient (RDC) is much lower for all vendors
 - Improvements were made with QA checks, such as visual editing, volume adjustment, and airways editing
- Runs 1 and 2 were compared and exactly the same results were reported
- Low dose was not compared to conventional dose; however, this could be added with a Bland-Altman analysis
- The analysis is in progress and some of the remaining work includes:
 - Regeneration of the Bland-Altman plots
 - Addition of the Vendor #3 data, which will change all numbers marginally
 - Update of linear models, which may need to be re-run

Profile update:

- Once data from the reproducibility study are analyzed, Dr. Fain to update the Profile with a more robust and uniform measurement and prepare the Profile to be released for public comment
- Feedback is encouraged regarding additional societies or contacts for the upcoming public comment review phase

QIBA Working Meeting and Meet-the-Expert Sessions at **RSNA 2018**:

- Dr. Fain encouraged those attending the RSNA Annual Meeting to [volunteer for a timeslot](#) at the QIBA Kiosk during the lunch-time hour to discuss the Lung Density BC poster with attendees
- All are encouraged to RSVP for the [QIBA Working Meeting](#) on Wednesday, November 28th.
- Focus of the Working Meeting break out session will be a final review of the updated Profile

Next steps:

- Definition of the repeatability coefficient from the software analysis results
- Integration of challenge results into the Profile
- Updating the RSNA 2018 poster for the QIBA Kiosk prior to the October 31st deadline

Next meeting: [Wednesday, November 28, 2018](#) at the QIBA Working Meeting at RSNA 2018.

There will be no WebEx call for November.