

QIBA Lung Density Biomarker Committee (BC) Call

June 27, 2018 at 2 PM CT

Call Summary

In attendance

David Lynch, MD (Co-Chair)

Charles Hatt, PhD

Stephen Humphries, PhD

Philip Judy, PhD

Miranda Kirby, PhD

Jered Sieren, BSRT (R) MR CT

RSNA

Joe Koudelik

Julie Lisiecki

Comparative Study Update:

- Discussion focused on the subjective cut point value that needs to be met and subsequent planning to request re-analysis from the concordant vendors
- A standardized measurand definition is needed for the vendors explaining how the cut point was determined (based on no ground truth) resulting in concordant (high performers) and discordant (low performers)
 - It was suggested that Dr. Obuchowski may be able to provide some guidance with this definition
- Drs. Hatt and Kirby to summarize anonymized results in order to provide a report to participants that will include individual vendor performance and vendor comparison to a group mean
- RSNA Staff to follow up with individual participants letting them know their vendor number, as Dr. Kirby renamed participants in her analysis
- Some outliers may be removed and reanalyzed if errors are found
- Drs. Hatt, Kirby, and Mr. Sieren to work together on a graph for ease of reference

Publishing of Future Paper:

- The group discussed the possibility of submitting a brief paper for publication in the AAPM journal, *Medical Physics*
- Anonymized vendors will be allowed to review the paper prior to journal submission
- If the paper is published, a supplement can be added to the Appendix section of the Profile
- The overall analysis will focus primarily on the methodology of the study
- Authors will be core group members and study participants / organizers

CBQC Meeting Update:

- Dr. Lynch presented at the COPD Biomarker Qualification Consortium (CBQC) to raise awareness of the Profile
- It was decided that the CBQC will pursue biomarker qualification with the FDA for emphysema using the QIBA Profile, focusing on lung attenuation area (LAA) and Perc 15
- Dr. Lynch to work on a letter of intent in advance of the CBQC meeting during the European Respiratory Society (ERS) meeting in September

Next steps:

- Definition of the number that needs to be met (cut point) and request of re-analysis by the concordant vendors
- Definition of the repeatability coefficient from the software analysis results
- Integration of challenge results into the Profile

Next meeting: [Wednesday, July 25, 2018 at 2 pm CT](#) (Calls will now be scheduled monthly, for the 4th Wednesday)