

QIBA Lung Density Biomarker Committee (BC)

December 7, 2016 at 2 PM CT

Call Summary

In attendance

Sean Fain, PhD (Co-Chair)

Matthew Fuld, PhD (Co-Chair)

David Lynch, MD (Co-Chair)

Andrew Buckler, MS

Heather Chen-Mayer, PhD

Raul San Jose Estepar, PhD

Gonzalo Ferrero, PhD

Charles Hatt, PhD

Bernice Hoppel, PhD

Stephen Humphries, PhD

Philip Judy, PhD

David Naidich, MD

Mark Schiebler, MD

RSNA

Joe Koudelik

Julie Lisiecki

Overview of QIBA Breakout at RSNA 2016

- Writing sections were reviewed
- Medical justifications, software analysis, and unaddressed sections were discussed
- A challenge for testing lung density analysis software was proposed, working in concert with the QIBA 3A Task Force
- If considered, such a challenge would be designed for eight targeted vendors

Strategies for Future Profile Work

- To expedite Profile updates going forward, each writing team will report to the group on sections rather than reviewing the Profile line-by-line
- Targeted Profile discussions (line-by-line) will be reserved for QIBA f2f meetings
- The group aims to have a finalized Profile draft in 2 - 3 months
- Any open issues, such as iterative reconstruction, will be labeled as such, and tabled for the first release
- Round 2 meta-analysis is still in review; may be added to Profile even after the public comment phase
- Dr. Chen-Mayer is in the process of writing the code to finalize the analysis
- Dr. Fuld plans to follow up with Dr. Chen-Mayer and may organize an ad hoc call if needed
- For Profile Version 2, the following items will be taken into consideration:
 - Recent repeatability studies
 - Spiromics and other data for meta-analysis
 - Dr. Lynch to follow up with Dr. Hoffman regarding additional data for a refined claim
 - Considerations for software conformance are also to be determined

Presentation by Drs. Estepar and Guerrero

- Drs. Estepar and Guerrero gave a presentation on modeling of spatial noise bias in lung CT

Next call: [Wednesday, December 21, 2016 at 2 pm CT](#)