

QIBA Lung Density Biomarker Committee (BC) Call

August 16, 2017 at 2 PM CT

Call Summary

In attendance

Sean Fain, PhD (Co-Chair)

David Lynch, MD (Co-Chair)

Andrew Buckler, MS

Raul San Jose Estepar, PhD

Charles Hatt, PhD

Bernice Hoppel, PhD

Stephen Humphries, PhD

Philip Judy, PhD

Nancy Obuchowski, PhD

Jered Sieren, BSRT (R) MR CT

Gonzalo Vegas Sanchez-Ferrero, PhD, MSc

RSNA

Joe Koudelik

Julie Lisiecki

Discussion included:

Profile:

- The first draft of the Profile is nearly complete and will be distributed soon to the BC for internal review
- Evolving iterative reconstruction (IR) techniques were discussed
- Model-specific instructions and parameters have been included in the Profile; however, more generalized manufacturer-specific protocols are under consideration, as detailed protocols are helpful for new users
- Once complete, the Profile should be posted to the QIBA wiki on the BC's working page for reference
- The conformance section of the Profile (Section 4) was also referenced by Mr. Buckler and guidance is available on the [QIBA wiki](#)
- A relationship between the Profile and conformance statement must be clearly defined

Comparative Algorithm Study update:

- There are now 10 participants signed up for the comparative study; possibly soon to be 11
- The team is waiting for completion of the COPDGene CT data curation
- Dr. Hatt will conduct a beta test of the downloads
- Instructions for participants will be needed within the next 2 weeks or so for RSNA staff to distribute along with the participants' anonymized IDs
- All resulting participant output data will be anonymized by RSNA staff and sent to Dr. Kirby for analysis
- The study data will be used to finalize the Profile, once complete
- An estimated timeline of 10 weeks is being considered for the participants to complete the study, and 2 months will be needed to complete the subsequent analysis

Harmonization field testing (Dr. Humphries):

- A few more sites are needed to test regular COPDGene scans
- Dr. Humphries will scan for reference but will not have patient data
- He plans to extract data using the COPDGene Phase II protocol
- Goal of study is to apply phantom results to subject protocols
- Funding for the next phase (Phase III) is under consideration

Supplemental funding:

- BC leadership is considering approaching COPDGene for supplemental funding to complete the Phase II protocol
 - Dr. Lynch to follow up with Drs. Crapo and Silverman regarding funding avenues
 - Drs. Estepar and Vegas-Sanchez-Ferrero to draft text for a supplemental award, similar to an R21
 - This is a less formal application than for an RO1 grant and should include details for a "face" page, specific aims, and projected budget
 - As Drs. Crapo and Silverman are PIs, it may not be necessary to subcontract with QIBA if a supplemental funding agreement can be arranged

Next call: Updates on the proposed comparative study will be discussed

Next call: [Wednesday, August 30, 2017 at 2 pm CT](#)

SAVE-THE-DATE:



QIBA Working Meeting at RSNA 2017 | Wednesday, November 29, 2:30-5 pm – Lakeside Center