

QIBA Lung Density Comparative Study Planning Call

June 6, 2017 at 11 AM CT

Call Summary

In attendance

Matthew Fuld, PhD (Co-Chair)
Charles Hatt, PhD

Stephen Humphries, PhD
Miranda Kirby, PhD

RSNA

Joe Koudelik
Julie Lisiecki

Data / QIDW

- Dr. Humphries to complete and submit the clinical data Contributor Agreement Form before uploading COPDGene data to the QIDW
- RSNA staff will provide data access to study participants based on anonymized user IDs

Anonymization / analysis

- Dr. Kirby has agreed to serve as the technical/scientific contact if RSNA staff receive tech questions from participants
- RSNA Staff will receive and anonymize all participant study results and forward to Dr. Kirby who will be responsible for the analysis

Items still needed from study leaders include the following:

- Invitation email
- Detailed instructions for participants (e.g., how to access data, how to report results, etc.) and possibly an estimate of time required to read all cases (as a general reference)
- Participant agreement
- .csv forms for participation

Invitation

- Dr. Hatt will draft an invitation email
- RSNA Staff will provide some sample documents and invitations from previous QIBA 3A studies for reference
- The invitation will be sent to QIBA CT Volumetry and CT Lung Density distribution lists, (351 people)
- The group anticipates between 20 – 30 participants

Results Reporting

- It was decided that .csv forms will be used for reporting of results
- It has not yet been determined if histograms will be required
- 950, Perc 15, and lung volumes will be recorded
- Algorithm category, degree of automation, and commercial or academic details will be recorded

Decisions Made Regarding Study Publication

- Study results will be published and distributed; however, participants will not be identified in any way; names will be collected for admin tracking purposes only, not for publication
- They will remain completely anonymized and will be referred to only in generic terms, such as, "5 academic institutions and 3 vendors participated in this study."
- Participants will *not* receive individualized results reports, but a general comparison of all algorithms (based on anonymous IDs) to assess their own performance and that of other products.
- It was decided that no formal incentive is needed to secure participants, as this performance knowledge would be very useful – either on the QA side or for product comparison

Action Items:

- Dr. Humphries is working on the following:

- A .csv participant form with instructions
 - Instructions for how to download the data
 - Instructions for how to submit the data to the QIDW (direct link to data?)
- Finalizing the QIDW contributor agreement
- Data upload to the QIDW

- Dr. Hatt is working on the following:
 - Drafting some invitation language
 - Conducting a BETA test once the data is ready
 - Additional BETA test volunteers may be needed; TBD
- RSNA Staff is preparing samples from previous QIBA 3A challenges for reference as well as a Google form for sign up / capture of contact information

Next call (BC): [Wednesday, June 21, 2017 at 2 pm CT](#)