

QIBA COPD/Asthma Technical Committee

March 26, 2014 at 2 PM CT

Draft Call Summary

Additional notes provided by Dr. Fain

In attendance

Sean Fain, PhD

Matthew Fuld, PhD

Bernice Hoppel, PhD

Ella Kazerooni, MD

David Lynch, MB

RSNA

Julie Lisiecki

Madeleine McCoy

Agenda 3/26/2014:

1. Observations from Lung QCT Conference at STR
 - a. PFJ Notes attached
2. Lung density profile claims
 - a. Precision and bias
 - b. Volume correction recommendations
3. Plan to finalize Acquisition and Reconstruction Sections of Profile. Most recent Phil Judy's version attached.
4. CT Data Reconstruction for Quantification Call, Monday, April 7, 2014 at 2 pm CT

Next call: Wednesday, April 9, 2014 at 2 pm CT

Discussion topics included:

- Reminder to the group that concepts for proposed Year-4 NIBIB projects are due **April 7th**
- Dr. Fain indicated that he had met with Dr. Fuld to discuss automated exposure control (AEC) protocols for reduced CT dose while maintaining qCT reproducibility across platforms. This development project will be put forth as an RFA to the executive committee on April 7. Waiting for comment back from Phil Judy on the draft RFA before distributing to the greater sub-committee.
- Dr. Fain indicated that it would be very helpful to encourage additional industry members for the QIBA COPD/Asthma Technical Committee; especially in regard to collaboration on AEC evaluation and that this should be part of the RFA.
- Dr. Fain is working with Drs. Judy and Chen-Meyer to develop the claims for PERC 15 and -950 measurements that have sufficient support based on clinical research studies in the literature. A draft claims document has been started with division of tasks to: 1. quantify biases of PERC15 and relative area at -950 HU (RA950) compared to the Medani et al (Radiology 238(3):1036-1043) work that showed RA960 and Perc1 algorithms correlated best with microscopic emphysema; and 2. Establish the precision for longitudinal studies with and without volume correction.
- Dr. Lynch to invite Dr. Ekta Shah (Philips) to join the group.
- Dr. Hoppel indicated that Toshiba would be supportive of collaboration.
- Dr. Lynch reported the QCT Meeting at STR was successful, and that plans for it to be held in conjunction with a larger meeting are being considered for 2015.
 - Some suggestions have included:
 - MICCAI
 - SPIE
 - AAPM
 - Other suggestions are welcome.

Action items:

- Dr. Lynch to invite Dr. Ekta Shah to join the group.

QIBA COPD/Asthma next call: 4/09/2014