

QIBA COPD/Asthma Technical Committee

April 9, 2014 at 2 PM CT

Call Summary

In attendance

Philip F. Judy, PhD (Chair)

Andrew Buckler, PhD

Heather Chen-Mayer, PhD

Harvey Coxson, PhD

Sean Fain, PhD

Mark Schiebler, MD

RSNA

Joe Koudelik

Julie Lisiecki

Agenda 4/9/2014:

COPD/Asthma Technical Committee

1. Report on the CT Data Reconstruction for Quantification Call, Monday, April 7, 2014 at 2 pm CT
 - a. Need to get more vendor investigators involved.
2. Automatic exposure control NIBIB contract proposal (for comment)
3. Lung density profile claims - Status
 - a. Precision and bias
 - b. Volume correction recommendations
4. Plan to finalize Acquisition and Reconstruction Sections of Profile.
5. Plan to develop Analysis section of Profile
6. Add citations to Profile

Next call: Wednesday, April 23, 2014 at 2 pm CT

Discussion topics included:

- **Report on the CT Data Reconstruction for Quantification Call (postponed)**
- **2015 Lung QCT Conference**
 - The AAPM meeting was suggested as a possible location for a QIBA Lung QCT conference
 - Recommended reading for the group suggested was the draft Profile from the *QIBA Lung Nodule Assessment in CT Screening Writing Group*.
 - Any updates are posted to the [QIBA wiki](#) as provided by Dr. Gierada, the Profile Editor.
- **Automatic exposure control QIBA project proposal**
 - This proposed project seeks to apply lower dose protocols into clinical research
 - Investigation of the consistency of density measurements has already begun on the GE platform
 - Comparison to other vendor platforms is desired.
 - Beth Israel Deaconess Medical Center was suggested as a possible collaborator.
 - Drs. Chen-Mayer and Fain are collaborating to establish a measurement reference standard.
 - Examination of bias and precision elements in volume corrections in progress
 - Additional examination of the literature after 2005 is needed
 - Dr. Chen-Mayer found a helpful 2014 paper from Staring, Stoel, et al, in *Microphysics*, and plans to contact Dr. Stoel to invite him to aid in the examination of bias and precision volume corrections
 - Exact specifications for volume corrections are needed

Action items:

- Dr. Chen-Mayer to contact Dr. Berend Stoel to aid in the examination of bias and precision volume corrections
- Dr. Judy to work on adding citations to the Profile document

QIBA COPD/Asthma next call: 4/23/2014