QIBA COPD/Asthma Technical Committee
April 9, 2014 at 2 PM CT
Call Summary

In attendance

Philip F. Judy, PhD (Chair)  Harvey Coxson, PhD
Andrew Buckler, PhD        Sean Fain, PhD
Heather Chen-Mayer, 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
  o The AAPM meeting was suggested as a possible location for a QIBA Lung QCT conference
  o 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
  o This proposed project seeks to apply lower dose protocols into clinical research
  o 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.
  o 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