QIBA COPD/Asthma Technical Committee
March 12, 2014 at 2 PM CT
Call Summary

In attendance

Philip F. Judy, PhD (Chair)
Matthew Fuld, PhD
Bernice Hoppel, PhD
Daniel Sullivan, MD

In attendance

Sean Fain, PhD
Joe Koudelik
Matthew Fuld, PhD
Julie Lisiecki
Joseph Fain, PhD
Matthew Fuld, PhD
Bernice Hoppel, PhD
Daniel Sullivan, MD

RSNA

Next call:
Wednesday, March 26, 2014 at 2 pm CT

Agenda 3/12/2014:

1. Review Summary of 2/26/2014 Conference Call
3. Plan to finalize acquisition and reconstruction of Profile specifications
   a. Comments on Matthew Fuld observations
4. Review of QIBA Lung QCT presentation at STR

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Discussion topics included:

- Dr. Judy reminded the group that concepts for proposed Year-4 NIBIB projects are due April 7th
- Dr. Fain summarized a recent offline call held to best define bias and precision with respect to parenchymal density on CT for emphysema with Mr. Buckler and Drs. Chen-Mayer and Judy
- Key discussion points:
  o It is difficult to formulate a bias claim and connect histology measures of emphysema
  o The group plans to evaluate bias past the -960 HU threshold, including -950 and -910, quantitatively evaluating how they differ.
  o Perc15 and other measures that are considered more stable for longitudinal studies will also be reviewed.
  o Dr. Chen-Mayer is focusing on precision issues, using simple model corrections
  o Dr. Judy plans to follow up with Drs. Chen-Mayer and Fain regarding histogram adjustments
- Drs. Hoppel and Fuld are finalizing acquisition and reconstruction Profile specifications
  o Plan to address all things that will affect individual patient measurements, e.g., noise, AEC measurements, etc.
  o Goal of Profile is to define criteria for users to meet compliance without prescribing how; must enable flexibility among vendor systems to allow for innovation
  o Mr. Buckler proposed that Dr. Fuld consider taking on the role of Profile Editor.
  o RSNA staff to provide a list of QIBA manufacturer and informatics participants for CT Volumetry/ COPD/Asthma
- Drs. Fain and Fuld to discuss possible project collaboration on AEC and IR measurements.
- Dr. Judy previewed his presentation for the QCT seminar and requested group feedback
- Sunday breakfast meeting at STR planned to discuss QIBA COPD/Asthma projects

Action items:

- Dr. Judy welcomes feedback from group members regarding Profiles, etc.: philippjudy@philippjudy.com.
- RSNA staff to provide a list of QIBA manufacturer and informatics participants for CT Volumetry/ COPD/Asthma to Drs. Hoppel and Fuld

QIBA COPD/Asthma upcoming calls:

- 3/26/2014 and 4/09/2014