

## QIBA COPD/Asthma Technical Committee

April 23, 2014 at 2 PM CT

Call Summary

### In attendance

**Philip F. Judy, PhD (Chair)**

Andrew Buckler, MS

Heather Chen-Mayer, PhD

Matthew Fuld, PhD

Bernice Hoppel, PhD

David Lynch, MB

Mark Schiebler, MD

Daniel Sullivan, MD

### RSNA

Joe Koudelik

Julie Lisiecki

### Agenda 4/23/2014:

COPD/Asthma Technical Committee

1. Standardize Evaluation AEC for Quantitation (Response to Conference Call on CT Data Reconstruction for Quantification)
2. Clarification 2015 Lung QCT Conference Suggestions
3. Lung density profile claims - Status
4. Plan to develop Analysis section of Profile
  - a. Example of issues requiring specification – Specification of bounds on histogram
5. Citations to Profile
6. Plan to finalize Acquisition and Reconstruction Sections of Profile.

**Next call:** Wednesday, May 7, 2014 at 2 pm CT

### Discussion topics included:

- Drs. Fain (PI) and Fuld have drafted a proposal for AEC and iterative reconstruction: “Low CT Dose Lung Protocols for Repeatable Quantitative Measures in Multi-Center Studies”
- This project hopes to address the following:
  - Ground work data collection and analysis
  - Developing imaging procedures for hardware and software manufacturers and users to demonstrate Profile compliance that would address the impact of AEC and IR for qCT of lung density and airway measurements across scanner platforms.
    - Drs. Fuld (Siemens) and Hoppel (Toshiba), are collaborating on these procedures
    - Drs. Fuld and McNitt-Gray are trying to engage participation from GE and Philips
- **2015 Lung QCT Conference**
  - SPIE in Orlando, FL from February 21-26, 2015 is being considered as a QIBA Lung qCT conference partner
  - STR has decided that it will host a lung cancer screening course, similar to qCT of the lung
    - Dr. Judy has encouraged QIBA members to get involved
  - IWPF will be held in Edinburgh, Scotland in September of 2015 and may be a possible option
    - IWPF will pair with the European Society for Magnetic Resonance in Medicine and Biology (ESRMB).
- **Standardizing Evaluation of AEC for Quantitation**
  - Presently, no standard of practice exists for qCT of the lung
  - Justification of clinical utility is needed
  - Dr. Judy intends to make all his uploaded COPD Gene Phantom images publically available via QIDW

### Action items:

- Dr. Chen-Mayer to contact Dr. Berend Stoel to aid in the examination of bias and precision volume corrections
- Dr. Fain to draft a QIBA funding proposal for an ad-hoc meeting for qCT of the Lung at a 2015 conference
- Dr. Judy to work on adding citations to the Profile document

**QIBA COPD/Asthma next call:** 5/7/2014