QIBA Lung Density Technical Committee
October 8, 2014 at 2 PM CT
Call Summary

In attendance

<table>
<thead>
<tr>
<th>Name</th>
<th>Role</th>
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<tbody>
<tr>
<td>Philip F. Judy, PhD (Chair)</td>
<td>RSNA</td>
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<td>Andrew Buckler, MS</td>
<td>RSNA</td>
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<td>Heather Chen-Mayer, PhD</td>
<td>RSNA</td>
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<td>Ekta (Shah) Dharaiya, MS</td>
<td>RSNA</td>
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<td>Matthew Fuld, PhD</td>
<td>RSNA</td>
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<tr>
<td>Bernice Hoppel, PhD</td>
<td>Julie Lisiecki</td>
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<td>Lars Nordenmark, PhD</td>
<td>Madeleine McCoy</td>
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<td>Karen Procknow, RT (R)</td>
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<td>Jered Sieren</td>
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<td>Daniel Sullivan, MD</td>
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Agenda 10/8/2014: Lung Density Technical Committee
1. RSNA Meeting Poster
2. Finalize Precision Claim for Perc15 and Volume Correction
   a. Incorporate into draft profile
3. Status of AEC and IR Project
4. Acquisition and reconstruction specifications
   a. CT Number bias requirement given claims
5. Plan to analysis sections of Profile
6. Propose review of Profile on Oct 22 call
Next call: Wednesday, October 22, 2014 at 2 pm CT

Discussion:
- The vendors working group reported that they need measurements for *bias* and *precision* based on phantom studies, with a stricter focus on the accuracy requirement and controlled outcomes, rather than specified parameters.
- Consistent numbers for section 3 of the Profile are needed to demonstrate functionality.
- Topics reviewed by Dr. Judy:
  - Test object segmentation using cylindrical tubes in the COPDGene phantom
  - Inside Air COPDGene Phantom
  - Recommended correction for GE 16 slice scanners
  - CT number of air outside COPDGene Phantom 16 slice GE scanners
- Goal to develop methods for obtaining consistent measurements on CT scanners.
- Observations:
  - Intra-model variations are small relative to inter-model variations
  - Need computer to segment regions of interest
  - Control location of phantom and FOV
  - For most CT models used in COPDGene, the number for air outside the subjects and phantom is unlikely to be useful as a correction for intra-model variations
  - GE Lightspeed 16 has been excluded because of a large shift in the COPDGene phantom material CT number caused by recalibration of scanners.

Action item: Dr. Fain to head up the poster effort for the technical committee; print-ready PPT draft due to RSNA by October 31st

Next call: 10/22/2014 at 2:00 PM (CT)

QIBA Technical Committees - Working Meeting at RSNA 2014
- Wednesday, December 3rd | 2:30pm – 5:00pm | Chicago, McCormick Place | Plenary Session Room: E253AB, Breakout: E272B
- Please let us know whether you plan to attend by responding to the following poll: [http://doodle.com/mk7qecxint6vbwf5](http://doodle.com/mk7qecxint6vbwf5).

QIBA Poster Meet-the-Expert (MTE) Sessions at RSNA 2014
- Location: McCormick Place, Chicago - Learning Center (Hall D) – QIBA Kiosk
- Please provide your availability to volunteer for the QIBA Poster Meet-the-Expert (MTE) sessions.

Doodle Poll URL: Lung Density Technical Committee: [http://doodle.com/ay5aqkemq2f8wkt8](http://doodle.com/ay5aqkemq2f8wkt8)