QIBA CT Volumetry Biomarker Ctte (BC) Call
07 August 2017 at 11 AM CT
Call Summary

In attendance:

<table>
<thead>
<tr>
<th>In attendance:</th>
<th>RSNA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gregory Goldmacher, MD, PhD, MBA (Co-Chair)</td>
<td>David Gustafson, PhD</td>
</tr>
<tr>
<td>Ehsan Samei, PhD (Co-Chair)</td>
<td>Lubomir Hadjiski, PhD</td>
</tr>
<tr>
<td>Jenifer Siegelman, MD, MPH (Co-Chair)</td>
<td>Philipp Hoelzer, PhD</td>
</tr>
<tr>
<td>Maria Athelogou, PhD</td>
<td>Edward Jackson, PhD</td>
</tr>
<tr>
<td>Andrew Buckler, MS</td>
<td>Philip Judy, PhD</td>
</tr>
<tr>
<td>Heang-Ping Chan, PhD</td>
<td>James Mulshine, MD</td>
</tr>
</tbody>
</table>

Moderator: Dr. Siegelman

Welcome new BC member:
- Dr. Philipp Hoelzer with Siemens introduced himself to the group. He will be replacing Dr. Fuld on CT Volumetry WebEx calls.

QIBA Small Lung Nodule Profile Effort Update
- The Small Lung Nodule Profile is nearly ready for presentation to the Biomarker Committee
- Public Comment was completed in 2016; updates to the conformance section have been added, and Mr. O’Donnell’s October feedback has been incorporated. Comments on a subsequent draft (prepared in May) were submitted in June and are pending review/discussion of resolutions
- Some questions about physics-related items will be discussed in a small-group format
- Mr. O’Donnell to forward Dr. Samei’s physics evaluation of the conformance section for review

Vol CT Profile Technical Confirmation Feedback:
- Mr. O’Donnell has summarized and categorized all Profile feedback in a more manageable format on the CT Volumetry BC page of the QIBA wiki
- Mr. O’Donnell reviewed comments from the technical confirmation testing sites and indicated that some of the resolutions were routine (R), feasible/will perform (FW), feasible but won’t be performed (FN), or not feasible (NF)
- Currently, fewer than 10 discussion items remain

Additional topics:
- Feasibility tests at certain sites were conducted; commentary from those sites is presently being reviewed
- If the acquisition protocol was deviated from in any way, the default assumption is that the site is not Profile conformant
- Discussion included:
  - The AEC parameters that the scanner uses to modify the parameters are in line with seven assessment metrics so that it is a “safer” modification
  - It may be possible that approximately 5-10% of protocols are deviated by imaging sites themselves
- There was substantial discussion regarding whether or not gantry tilt affects quantification; realizing that there will be variation among scanners
- It was determined that the differences of patient positioning are likely larger than the differences in gantry tilts

Action items:
- Dr. Robins and Mr. Tervé to test procedure 4.5 for bias/linearity with 3rd party software
  - The QIBA Lung Collection is available on the QIDW
- Those interested in a Texture/Morphology TF are asked to respond via a Google link: https://goo.gl/forms/gEMkNNUocj7twlk1
Next Call: August 28 at 11 am CT

SAVE-THE-DATE:

QIBA Working Meeting at RSNA 2017 | Wednesday, November 29, 2:30-5 pm – Lakeside Center