

## QIBA CT Volumetry Biomarker Ctte (BC) Call

07 August 2017 at 11 AM CT

### Call Summary

In attendance:			RSNA:
<i>Gregory Goldmacher, MD, PhD, MBA (Co-Chair)</i>	David Gustafson, PhD	Nancy Obuchowski, PhD	Fiona Miller
<i>Ehsan Samei, PhD (Co-Chair)</i>	Lubomir Hadjiiski, PhD	Kevin O'Donnell, MASc	Joe Koudelik
<i>Jenifer Siegelman, MD, MPH (Co-Chair)</i>	Philipp Hoelzer, PhD	Eric Perlman, MD	Julie Lisiecki
Maria Athelougou, PhD	Edward Jackson, PhD	Nicholas Petrick, PhD	
Andrew Buckler, MS	Philip Judy, PhD	Marthony Robins, PhD	
Heang-Ping Chan, PhD	James Mulshine, MD	Ying Tang, PhD	

**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 3<sup>rd</sup> 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/gEMkNNZuoci7twlk1>

**Next Call:** August 28 at 11 am CT

**SAVE-THE-DATE:**



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