

QIBA CT Volumetry Biomarker Ctte (BC) Call

23 October 2017 at 11 AM CT

Call Summary

In attendance:			RSNA:
Gregory Goldmacher, MD, PhD, MBA (Co-Chair)	Philipp Hoelzer, PhD	Nancy Obuchowski, PhD	Fiona Miller
Jenifer Siegelman, MD, MPH (Co-Chair)	Edward Jackson, PhD	Nicholas Petrick, PhD	Joe Koudelik
Charles Fenimore, PhD	Yongguang Liang, PhD	Marthony Robins, PhD	Julie Lisiecki
Paul R. Garrett, MD	James Mulshine, MD	Ying Tang, PhD	
Lubomir Hadjiiski, PhD	Jayant Narang, MD		

Moderator: Dr. Siegelman

Small Lung Nodule (SLN) Task Force Update:

- Dr. Mulshine reported on highlights from the [World Conference on Lung Cancer](#), held in Yokohama
- Researchers are working to implement a high quality lung cancer screening process in Japan and Europe
- Lung Cancer screening remains a hot topic for researchers around the world
- The SLN Task Force is seeking input from MITA (*the Medical Imaging and Technology Alliance*) members in efforts to establish payment for quality images in the imaging process, bearing in mind the influence of future CPT (*Current Procedural Terminology*) reimbursement
- RSNA / QIBA has partnered with the [Prevent Cancer Foundation](#) in efforts to field test the SLN Profile and conformance process among international imaging sites
- The Small Lung Nodule Task Force is working on a separate poster for RSNA 2017
- Any interested contributors may contact qiba@rsna.org

Proposed ACR / QIBA collaboration:

- There is ongoing offline discussion related to a possible collaboration between ACR and QIBA
- ACR appreciates the complementary relationship that it has with QIBA, in that QIBA focuses on quantitation, whereas ACR focuses on non-quantitative aspects of image quality
- It is unclear how QIBA and ACR would partner together regarding conformance efforts
- The Small Lung Nodule Profile assumes that imaging sites are ACR approved and builds upon this criteria with QIBA quantitative imaging performance specifications
- Many sites are just now beginning to provide screening, though the effort is growing at both national and international levels
- Crowd-sourced funded field testing is making growth of the effort possible and continued generation of real data will provide supportive evidence for this new approach

Vol CT Advanced Disease Profile Technical Confirmation Feedback Efforts:

- All [Profile feedback](#) is on the CT Volumetry BC page of the QIBA wiki
- Dr. Siegelman reviewed outstanding to-do items:
 - Dr. Robins reported that issues remain with the DICOM headers in the LungMan FDA data
 - DICOM issues prevented data loading into the Duke segmentation tool
 - Drs. Robins and Petrick are collaborating and will report once testing on section 4.3 is complete
 - Dr. Petrick to provide a URL and instructions to volunteer testers using other tools:
 - Dr. Liang, Dr. Hadjiiski, and Dr. Hoelzer
 - Section 4.5 data was tested successfully
 - It was suggested that a simplified 5-step guide be provided for section 4.5 linearity testing
 - Current instructions are confusing and reference pixel coordinates, which not all segmentation tools use
 - Clarification of instructions in the Profile itself is needed (see line 934); Dr. Petrick to clarify how to locate the LungMan data and download
 - The *QIBA Lung Collection* is available on the [QIDW](#)

- Dr. Jackson had requested a brief paragraph from the co-chairs detailing the current status of the technical confirmation process and an estimate for when technical confirmation may be achieved
 - Dr. Siegelman is working on this status update

RSNA 2017 poster planning:

- Those attending RSNA 2017 are asked to volunteer for the [Meet-the-Expert Sessions](#)
- Poster panel items to update include:
 - The field test and results, including progress towards a “technically confirmed” status
 - A simplified 1-2 page checklist or Profile summary provided by Dr. Samei
 - The 3A algorithm challenge by Dr. Robins
 - Details on the liver phantom (Dr. Petrick)
- A separate poster is being planned for the Small Lung Nodule Task Force and their Profile

Next Call: October 30th at 11 am CT

SAVE-THE-DATE: QIBA Working Meeting at RSNA 2017 | Wednesday, November 29, 2:30-6 pm – Lakeside Center

