

QIBA CT Volumetry Biomarker Ctte (BC) Call

23 May 2016 at 11 AM CT

Draft Call Summary

In attendance:			RSNA:
Ehsan Samei, PhD (Co-Chair)	Rudresh Jarecha, MBBS	Eric S. Perlman, MD	Joe Koudelik
Hubert Beaumont, PhD	Nancy Obuchowski, PhD	Nicholas Petrick, PhD	Julie Lisiecki
Vadivel Devaraju, PhD	Michael O'Connor, PhD	Aria Pezeshk, PhD	
Charles Fenimore, PhD	Kevin O'Donnell, MASc	Ying Tang, PhD	
David Gustafson, PhD			

Lung Nodule Volume Assessment and Monitoring in Low Dose CT Screening Profile Update

- Mr. O'Donnell provided an overview of the Small Lung Nodule Profile in comparison to the Tumor Volume Change Profile
- While some harmonization is needed, overall format agreement looks good
- Steps toward release for Public Comment will be as follows:
 1. The Small Lung Nodule CT Screening Task Force will request Profile release from the CT Coordinating Committee
 2. The QIBA CT CC will vote to release via e-ballot
- Editors of both Profiles to work on alignment for the two documents while addressing comments received during the public comment phase for the Lung Nodule Profile

Profile Publication Consideration

- If there is interest in publishing the Profiles in an overview article or summary piece, suggested publications included:
 - *JNM, ACR, Radiology*, and a new journal suggested by Dr. Obuchowski, *Diagnostic and Prognostic Research*
 - It was suggested that Dr. Jackson speak with Dr. Kressel (*editor of Radiology*) to determine whether or not QIBA Profiles might be published in *Radiology*
 - Dr. Perlman plans to contact the editors of *Diagnostic and Prognostic Research* to explore a possible partnership
 - Dr. Samei volunteered to speak to the QIBA Steering Committee in July regarding publication options, if permissible

Remaining Open Issues for the CT Tumor Volume Change for Advanced Disease (CTV-AD) Profile:

- *Claims scope*: Since the claim is not anatomy-specific, a decision needs to be made regarding how to present the Profile
 - The Committee would like to promote the Profile for use on tumors throughout the chest, abdomen and pelvis
 - However, groundwork and performance data are concentrated on lung lesions
 - Profile claims state that conforming sites will experience the same performance independent of the organ
- The committee is turning to subject matter experts (SMEs) to consider the characteristics of tumor images in different organs, the similarity of the segmentation task and algorithms, and the data that has been collected
 - Drs. McNitt-Gray, Petrick and Samei to provide input
- SMEs will provide guidance on whether the BC can safely assume that segmentation/volumetry in the liver, lymph, etc. will have the same repeatability and bias as that in the lung
- The claims scope must be worded properly before the Profile can be considered for public comment

Action items (CT Tumor Volume Change for Advanced Disease (CTV-AD) Profile):

- Mr. O'Donnell to finalize remaining items in the Tumor Volume Change Profile
- Scope of claim to be discussed in smaller groups with SMEs before Profile release
- The Small Lung Nodule Task Force will await direction from the CT Coordinating Committee regarding public comment
- Profile editors of Small Lung Nodule and Tumor Volume Change Profiles may have a few ad-hoc calls for harmonization
- Co-Chairs to decide if wording for Google form survey is ready to send with the latest Profile and authorship list
- Dr. Goldmacher to email the CT Volumetry BC with brief explanation and link to Google form survey

Next Call: Monday, June 6th at 11 am CT | Profile review | Next steps {No call on Monday, May 30th, Memorial Day Holiday (US)}