

QIBA CT Volumetry Technical Committee Update Call

21 October 2013 at 11 AM CT (GMT-5)

Call Summary

In attendance:

Samuel G. Armato III, PhD (Co-Chair)

Gregory V. Goldmacher, MD, PhD (Co-Chair)

Maria Athelougou, PhD

Andrew Buckler, MS

Heang-Ping Chan, PhD

Matthew Fuld, PhD

Lubomir Hadjiiski, PhD

James Mulshine, MD

Kevin O'Donnell, MASc

Eric Perlman, MD

Nicholas Petrick, PhD

Jenifer Siegelman, MD, MPH

Daniel Sullivan, MD

Ying Tang, PhD

Bingsheng Zhao, DSc

RSNA:

Joe Koudelik

Julie Lisiecki

General Discussion

Update on Poster for RSNA 2013

Section authors have sent in their respective contributions; poster formatting is underway

Drs. Armato and Schwartz were asked to provide some suggestions for the "future directions" section

Feedback/suggestions from the group are welcome: Gregory.Goldmacher@iconplc.com

Posters are due to RSNA staff by November 1st

Compliance discussion and topics

Assessment of existing CT Volumetry Profile

Next phase: "Technical Validation Phase" – would be used to show how the Profile functions under real-world conditions, i.e., field testing

- Suggestion raised to perform compliance testing at different participating sites to assess user feedback
- Noted that "performance" is tied to the quality of the tools available at each site
 - Intended audience must be considered for compliance:
 - Significant difference between clinical screening vs. clinical trials
 - A very specific QA protocol will be needed to define the compliance procedure
 - Section 4.1 on "Performance Assessment: Tumor Volume Change Variability" to be updated
 - It is not possible to assess compliance only by following the "shall" language; measurement of output is needed.
 - Follow up with Mr. Avila regarding pocket phantoms suggested with regard to modeling for acquisition hardware assessment
 - Medical physicists will need to weigh in on recommendations for iterative reconstructions, noting that technology changes so rapidly – more general guidelines might be best

The group discussed the possibility of inviting QIBA Metrology Work Group members to assist with drafting language for sections 4.111 and 4.113.

- Dr. Sullivan asked Mr. Buckler to draft wording for these sections, particularly with regard to the "QIBA 3A Challenge" protocol and performance specifications/ assessment criteria
- Dr. Sullivan wants to specify image acquisition parameters in the Profile and suggested collaboration with ACRIN / ACR Image Metrix (Dr. Perlman), and follow up regarding the Memorial Sloan-Kettering test-retest data (Dr. Schwartz)

Action items:

Poster deadline is November 1st.

Next QIBA CT-VOL Tech Cttee call: Monday, November 4, 2013 at 11 am CT.

RSNA 2013 Annual Meeting - QIBA Technical Committees Working Meeting:

Wednesday, December 4th | 2:30pm – 5:00pm | Chicago, McCormick Place | Room: **N136**

Please let us know whether you plan to attend by responding to the following poll:

<http://www.doodle.com/fwf76cegg78r75b>.

We appreciate your continued support and look forward to your participation - Thank You!