

QIBA CT Volumetry Technical Committee (TC) Update Call

31 March 2014 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

Hubert Beaumont, PhD

Andrew Buckler, MS

Matthew Fuld, PhD

Lubomir Hadjiiski, PhD

John Lu, PhD

James Mulshine, MD

Reginald Munden, MD

Michael O'Connor, PhD

Kevin O'Donnell, MASc

Adele Peskin, PhD

Nicholas Petrick, PhD

Daniel Sullivan, MD

Ying Tang, PhD

Pierre Tervé, MS

Ludian Zhang, PhE

Binsheng Zhao, DSc

RSNA:

Joe Koudelik

Julie Lisiecki

Discussion of Reference Data from Image Analysis Sub Group/ Group 3A:

- How they are to be used, curated, procured, etc.
- Algorithm and user relationship, with a focus on what decisions need to be made to move things forward
- Technical committee to vote on the following by April 7th via a survey link provided by Mr. O'Donnell
 - Decision 1: Compliance test for the analysis tool
 - Question as to whether or not a site/ actor can be independently compliant
 - Decision 2: Determination of user compliance

Questions remaining regarding reference data

- What reference data already exist to validate compliance procedures based on a whole body claim?
- What amount of reference data is needed for compliance?
- How value is brought to the drug development process and what benefits exist for Pharma?

Possible solutions discussed

- Software used by Drs. Peskin and Samei allow overlapping clinical images with synthetic lesions to create sequestered data for reference
 - Use of the QIBA 1A and 1C data sets, in addition to the lessons learned from QIBA 3A may be a starting point
 - Not yet determined whether this approach would satisfy the compliance section of the Profile
 - Additional funding and manpower would be needed
- Group reminded that the Profile must be driven by clinical presentation of disease
- Mr. O'Donnell to distribute re-formatted claims in Metrology language for discussion on next technical committee call

Reminder regarding funding proposals – concepts due April 7th

- Consideration of the creation of sequestered data as a possible funding proposal
- Projects need to be driven by the clinical presentation of disease, e.g., primary vs. metastatic tumors, progression of disease, issues of measurability, etc.

Action items:

- Technical committee to vote on the issue(s) by **April 7th** via a survey link provided in an email on 3/31.

Next calls:

- 1) Monday, April 7, 2014 at 11 am CT: [Image acquisition hardware and reconstruction software](#)
- 2) Monday, April 14, 2014 at 11 am CT: [Image analysis](#) (both software and human analysts/readers)
- 3) Monday, April 21, 2014 at 11 am CT: [Full Technical Committee](#): Final updates from sub-workgroups (?)