

QIBA CT Volumetry Technical Committee Update Call

October 31, 2011 at 11 AM CDT

Call Summary

In attendance:

P. David Mozley, MD (Co-chair)
Rick Avila, MS
Andrew Buckler, MS
Paul L. Carson, PhD
Baiyu Chen, PhD
David A. Clunie, MBBS
Barbara Croft, MD
Alden Dima, MS
Charles Fenimore, PhD
Alec J. Megibow, MD

David Gustafson, PhD
Luna Hilaire, PhD
Philip Judy, PhD
Michael McNitt-Gray, PhD
Kevin O'Donnell, MASC
Guillaume Orioux
Nicholas Petrick, PhD
Michael Silver
Neil Steinmetz, MD, JD
Daniel Sullivan, MD
James Mulshine, MD

Ying Tang, PhD
David J. Vining, MD
Hiro Yoshida, PhD
Binsheng Zhao, DSc

RSNA:

Joe Koudelik
Madeleine McCoy

OIA User Requirements Document (Mr. Rick Avila, Kitware, Inc.)

Motivation: RSNA recognizes the need for archiving images related to the QIBA activities; the first task is assessing Tech Ctte needs for storing, organizing and disseminating image datasets

- Mr Avila walked through the multiple OIA requirement "categories" to capture the Vol CT archive needs
- Currently, the VolCT TC image/ data sharing needs are limited; no formal database in place yet

Proposed Image Archive/ Warehouse Uses

- Ad Hoc image exchange
- Storage of curated images
- Data storage for algorithm development/ validation
- Need version control and data subset searchability within DICOM and TIFF data formats
- Critical to comply with HIPPA/IRB rules

Current Image Storage Practice is mixed

- 1C has been using NIST file transfer and Sneaker Net
- 1A, 1C and 3A data collections available on QI-Bench along with seed points, ROIs, and metadata
- 1B data is hosted at RIDER and NBIA (multi-hosted)

QIBA Vol-CT AdvDisease v2 Public Comment Profile Feedback

- Mr O'Donnell led a discussion on comment #56 which shaped 3 possible solutions:
 - Dr. McNitt-Gray to confirm the claim is mathematically sound (ie, 4cm/sec scan rate is appropriate)
 - Revise the profile to allow multiple breaths and close this issue (but, this may create a new issue-- *Compliance section to address breath-hold*)
 - Stand behind the 4cm/sec rate and possibly risk eliminating subset of patients who cannot meet the criteria for breath holding
- Because all who could agreed that the calculations by Dr McNitt-Gray seemed to stand, the committee decided to stand behind the 4cm/sec rate, and simply add text that explains data from some patients who cannot hold their breaths for more than about 10 seconds will not be able to meet specifications when acquired on some older scanners.

Next steps:

- Vendors to review comment #56 and the committee's proposed resolution
- Next call to be in 2 weeks on November 14, 2011 at 11am (CST), at which time Mr O'Donnell will continue to lead a point-by-point review of the public comments that were received concerning the Profile
- RSNA 2011 ANNUAL MEETING ACTIVITIES-Chicago, McCormick Place
 - Special Interest Session - *Quantitative Imaging Biomarkers for Clinical Care and Research*
Monday, November 28th, 4:30pm – 6:00pm, Room: E451A
 - QIBA Technical Committees Working Meeting
Wednesday, November 30th, 3:00pm – 5:00pm, Room: N136
 - Please respond with your availability for the MTE sessions at RSNA 2011
<http://www.doodle.com/gbzvi647e2udmg76>