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  
Aldean 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 Orieux  
Nicholas Petrick, PhD  
Michael Silver  
Daniel Sullivan, MD  
James Mulshine, MD

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-- Complience 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 ACTIVITES-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