

QIBA Volumetric CT Group 1C Update

Thursday, March 10, 2011; 3:00 PM CST

Call Summary

In attendance

Charles Fenimore, PhD, (Chair)	John Lu, PhD	Ehsan Samei, PhD
Andrew Buckler, MS	Michael McNitt-Gray, PhD	Ying Tang, PhD
Paul R. Garrett, MD	Nicholas Petrick, PhD	
Marios Gavrielides, PhD	Lino Ramirez, PhD	RSNA
Philip F. Judy, PhD	Anthony P. Reeves, PhD	Joe Koudelik
Grace Kim, PhD	Ganesh Saiprasad, PhD	Julie Lisiecki

I. Reader Study Update

- FDA phantom image acquisition completed across six sites
- Image curation is scheduled next; goal is to be completed within two weeks.
- Core Labs is expected to do the readings.
- Including the NIST series in the reader study would support comparison between sites on two Philips-16 scanners. It was decided not to do so as the small number of sample is unlikely to provide statistically significant measures of site differences.
- Estimated that the reading could be done in one day/ 5 hours, spending approximately 5 minutes/nodule. The plan calls for a single reading session; discussion with Core Labs is needed.

II. Anonymization of data

- Discussed de-identification of tags and names indicating scanner manufacturer and model found in file and directory names and in DICOM header tags. The objective is to reduce bias arising from the signaling of the scanner manufacturer and model.
 - Plan to use a uniform naming convention
 - Complete anonymization is impossible; but we wish to minimize text cues by, e.g. scrubbing the relevant tags
 - We are considering using Osirix software for the de-identification.

Next steps:

1. Dr. Fenimore to summarize available noise data as measured on the ACR and FDA phantom in a spreadsheet and distribute to the group.
2. Consider uses of data collected at NIST for Group 3A algorithm study.
3. Complete initial randomization of data before next call - Drs. Kim and Lu to finish the design of the reader study and finalize the reader "randomization" schema.

Next call: Thursday, March 31st at 3 pm CDT. **Agenda:** (1) image curation and (2) reader study design and logistics.

Note: all documents are posted to the QIBA wiki at: <http://qibawiki.rsna.org>; The specific 1C page link is: [http://qibawiki.rsna.org/index.php?title=VolCT - Group 1C](http://qibawiki.rsna.org/index.php?title=VolCT_-_Group_1C)