QIBA Volumetric CT Group 1C Update

Thursday, December 15, 2011; 3:00 PM CST

Draft Call Summary

In attendance

Charles Fenimore, PhD, (Chair)	Barbara Croft, MD	Hyun Grace Kim, PhD	**RSNA**
Andrew Buckler, MS	Marios Gavrielides, PhD	John Lu, PhD	Julie Lisiecki
Baiyu Chen, PhD	Howard Higley, PhD	Nicholas Petrick, PhD	
David A. Clunie, MBBS			

Agenda: *Analysis of reader data for QIBA vCT 1C*.

Statistical Data Analysis (relative bias): Dr. Kim

- Dr. Kim reviewed the results of the data analysis of phantom nodules
    - Testing the measure of bias in the interval between +/- 15 (global) – across all scanners
    - Some interesting observations were:
        - There is a scanner effect; however, it is not really meaningful across the two arms of the study
        - "Within a scanner, a threshold of 15% relative bias is being met"
            - This may not be clinically significant if – a comparison of 2 scanners shows that they are only at 3% within the range of the 15% bias
            - Group needs to look at the raw uncertainty and difference between scanners

Questions from today's discussion

- The group will look at questions raised by the analysis of relative bias
- Analysis of both ***relative bias,*** (Dr. Kim) and ***variation****, (Dr. Lu*), will be incorporated and addressed in a scientific paper
- Differences between and unique attributes of scanners may also need to be considered
    - For example, sizing vs. change analysis
        - One scanner may handle "sizing" better than another
- Results of this study will need to be put into a more accessible context for those who are unfamiliar with the details of the study

For further analysis/discussion:

- How to conduct a statistical analysis on the uncertainty

Next steps:

- Update to be distributed only to those on today's call (core group) by Dr. Kim; additional comments may be added after the group has an opportunity to review

Next call: *TBD in 2012*