

## QIBA Volumetric CT Group 3A Update

Thursday, May 12, 2011; 11 AM CDT

Call Summary

### In attendance

***Maria Athelougou, PhD (Chair)*** David Gustafson, PhD  
Hubert Beaumont, PhD Grace Kim, PhD  
Andrew Buckler, MS Nicholas Petrick, PhD  
Dirk Colditz, PhD Ying Tang, PhD

### RSNA

Julie Lisiecki

## I. Study Design discussed

- Mr. Buckler had revised the study design (posted to the WIKI)
- The group continued to edit the study design
  - Wording regarding the use of manual editing / segmentation with an interactive algorithm was removed
  - Automated or semi-automated segmentation to only be used
- Study objective and scope discussed
  - Start with phantom
  - Move to clinical – minimum detectable change and reproducibility
  - MICCAI-like evaluations

## II. How to Use the Data

1. Required formats?
  - a. Need to define the required formats as a group
    - i. Data will include images and seed points; compare segmentation
  - b. WIKI 3A challenge protocol is the first thing to define, drawn from study design
  - c. Need to define the procedure data from 1A and 1B
  - d. The Bio-change Challenge had an application that was required for participants
    - i. This would be useful for tracking
    - ii. At some point, open the study data for free download, but not for 3A
2. Trusted broker?
  - a. Plan to use the honor system for individual participants; is this feasible?
  - b. Sensitivity of sharing results with group members' respective companies discussed
  - c. Discussed appointing a "Registrar" for the data – a non-competing entity to anonymize the results.
    - i. The Registrar would provide individual participants with individualized results.
    - ii. Mr. Buckler indicated an interest in this role.
    - iii. Data will need to be sorted into: "acceptable," "target," and "ideal."
    - iv. Practice applying Profile for this exercise.

### Next steps:

- Mr. Buckler to update study design Word document; RSNA staff to post to the WIKI and distribute
- Group to review Word document for study design for any changes needed; edit freely using posted version on WIKI

**Next call:** Tuesday, May 31, 2011, 12 noon, CDT (special time)

**Next regularly scheduled call:** Thursday, June 9, 2011 at 11 am CDT

**Note:** all documents are posted to the QIBA wiki at: <http://qibawiki.rsna.org>.