

QIBA Volumetric CT Group 3A Update

Thursday, April 14, 2011; 11 AM CDT

Call Summary

In attendance

Maria Athelougou, PhD (Chair) Charles Fenimore, PhD
Rick Avila, MS Grace Kim, PhD
Hubert Beaumont, PhD Patrick Reynolds, MS
Andrew Buckler, MS Ying Tang, PhD
Dirk Colditz, PhD

RSNA

Julie Lisiecki

I. Study Design discussed

- NIST update: archive has been established; 1A data is in place on a server in Mr. Buckler's office
- Mr. Buckler gave an overview of the more detailed Group 3A Study Design
- well
- Plan to use FDA data (approx 100 cases) where 1A will act as the "control" set
- Study to include 1B data as well
- Definitions incorporated to ensure consensus among all participants, in context of the NIST grant
- Design section discusses: procedure, datasets to be used, algorithms usage, and the analysis and presentation of results
- Group members asked to review the study design and make corrections or suggest improvements
- Study design is organized similarly to Bio-Change project, another change study which may prove to be a helpful framework for 3A

II. Introduction to MIDAS tool

- Mr. Buckler introduced Mr. Patrick Williams, an R & D engineer with Kitware, Inc.
- Mr. Patrick Williams shared a brief presentation on "MIDAS," a batch processing tool that was developed in partnership with Kitware, NIST, and BBMSC.
 - More information can be found via the following links:
 - <http://www.kitware.com/products/midas.html>
 - http://www.kitware.com/midaswiki/index.php/Main_Page

III. FDA Regulations discussed

- Dr. Colditz inquired about whether or not the 3A study is in concordance with FDA regulations
- Mr. Buckler indicated that he is working with NIST to make sure that the data from 3A is capable of being registered and will meet FDA regulations
 - Results will need to be related to a "study data tabulation model," or SDTM

Next steps:

- Mr. Buckler to update study design Word document using the PowerPoint notes by next call
- Group to review Word document for study design for any changes needed
 - email Mr. Buckler: andrew.buckler@bbmsc.com

Next call: Thursday, April 28, 2011, 11 am, CDT.

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