

QIBA Volumetric CT Colorado Planning Group, Project Update

Tuesday, February 28, 2012 at 11 am CST

Call Summary

In attendance

Kavita Garg, MD (Chair)

Andrew Buckler, MS

Paul L. Carson, PhD

Grace Kim, PhD

David Miller, PhD

Nicholas Petrick, PhD

Ann Scherzinger, PhD

Daniel C. Sullivan, MD

RSNA

Joe Koudelik

Julie Lisiecki

Status Update

- Nodule delivery has been delayed, now expected to arrive April 10th
- Dr. Kim has developed a Power Study of 84% confidence (study details being finalized)
 - Dr. Kim plans to deliver a software analysis two weeks after receipt of the initial data set from Colorado
- Phantom was scanned on a Philips platform with solid nodules
- INTIO software has been selected for analysis due to its availability and potential application for proposed study design.
- Pros and cons of the software were discussed:
 - Down-side to the software is lack of manual segmentation (considered most accurate)
 - Positive note is that INTIO software will also have applications for liver lesions, in addition to lung
 - Data are easily converted from .csv files to Excel
 - Dr. Miller will investigate whether DICOM headers cause issues with the INTIO software

Revised timeline for the Colorado QIBA/NIBIB Round-1 Project (#4a) –

- **February 4 - April 1, 2012**
Study Design 4 (statistical design)
Determine collaborative group members and initial meetings
Study design 1-3; Expedited IRB Approval; Phantom purchase and delivery; Nodule purchase and delivery
- **February 20 – April 23, 2012**
Scan phantom; Prepare datasets, including randomization of cases for readers; Reader training
- **April 23 – June 15, 2012**
Read studies; do volumetric analysis
- **June 15 – July 15, 2012**
Perform primary statistical analysis
- **July 15 – August 15, 2012**
Follow up analysis performed based on primary results
- **August 15 – September 15, 2012**
Report results

Next steps:

- Dr. Kim to send draft of statistical plan to Colorado Group
- Colorado Group Team to: 1) Run the scans; 2) Review the statistical analysis plan
- Dr. Scherzinger to send updated study design document with timeline to RSNA for wiki posting
- Project extension may be required; Colorado Group will have to provide updated documents to RSNA due to time delay. Contract and deliverables schedule must be updated accordingly

Next Call:

- March 20, 2012 at 11 am CST