

QIBA Volumetric CT Group 3A Update
Thursday, February 23, 2012; 11 AM CST
Call Summary

In attendance

Maria Athelougou, PhD (Chair)

Hubert Beaumont, PhD

Andrew J. Buckler, MS

Paul Carson, PhD

Dirk Colditz, PhD

Alden Dima, MS

David Gustafson, PhD

Ninad Mantri, MS

Yongqiang Tan, PhD

Ying Tang, PhD

RSNA

Joe Koudelik

Julie Lisiecki

1. Update on the QIBA Group 3A Challenge

- No new participants or data received; reminder regarding the deadline for data submission was sent on 2/16/2012 and 2/23/2012
 - Data submission deadline- **Wednesday, February 29, 2012**
 - “soft” deadline – data will be accepted even if participants go past 2/29
 - Analysis/ results extended to – **Wednesday, March 28, 2012**

2. Discussion of Technical Questions from QIBA 3A Challenge – Pilot Participants

- Confusion in terms of coordinates when using DICOM and embedded patient coordinate system clarified
- Hounsfield Unit (HU) discrepancies: manufacturing differences, differences in CT computational process
 - Mr. Dima suggested that participants treat the images as data
 - Relative percent errors on the radar plots were also discussed
 - Careful analysis is required when involving different nodule sizes and shapes
 - Reordering may result in better continuum – possibly more natural pooling of nodules

3. PIVOTAL study rollout

- Dr. Saiprasad has prepared 408 lesions in a pivotal set – additional cases are available if needed
- Drs. Kim and Lu are working on the power study – to discuss on the *next call*, **March 8th**
 - Power study to focus on specific criteria provided by Dr. Athelougou
 - R-scripts to be included
- Overlap expected between the statistical analysis of pilot data and preparation for the pivotal study
 - Team members may have to be assigned to keep the projects moving forward
- Pivotal study documents will be edited to reflect lessons learned from the pilot study
 - Guidance language to be incorporated based on technical questions reviewed from pilot study– updates will be handled by Mr. Dima and Mr. Buckler

4. MICCAI update

- Dr. Athelougou will work on preparing documents needed to apply for the conference as presenters

Next steps:

- RSNA staff to provide Challenge status update on next call
- RSNA staff to send a reminder (2/23) to those who have not submitted data (deadline: Feb 29th)
- RSNA staff to send pilot documents to 3A Challenge organizers for preparation of pivotal invitation documents, as well as a log of the technical questions received
- 3A Challenge organizers to continue work on curation of the pivotal data for next phase
- Dr. Athelougou to work on MICCAI documents
- Mr. Dima and Mr. Buckler to work on pivotal study documents
- Drs. Kim and Lu to prepare statistical design documents based on guidance from Dr. Athelougou

Next call: *Thursday, March 8, 2012 at 11 am CST*