

QIBA Volumetric CT Group 3A Update
Thursday, 4 October 2012 at 11:30 AM CT (GMT-5)
Call Summary

In attendance

Maria Athellogou, PhD (Chair)

Hubert Beaumont, PhD

Andrew Buckler, MS

Baiyu Chen

David Clunie, MBBS

Barbara Croft, MD

Joanna Danagouliau, PhD

Hyun Grace Kim, PhD

James Mulshine, MD

Guillaume Orioux, MSc

Nicholas Petrick, PhD

Sarah Sherlock, PhD

Uri Shreter, PhD

Ying Tang, PhD

RSNA

Joe Koudelik

Julie Lisiecki

Relationship of QIBA Group 3A Challenge to other QIBA groups discussed

- Possibilities for comparisons exist with data in 1D, 2D, and 3D
- Fundamental metrology questions could be addressed through parallel challenges
- A more homogeneous clinical effort with small lung nodules was suggested as the next challenge

Abstract Update

- Deadline to submit abstract to ATS: **November 7th** (www.thoracic.org)
 - Dr. Kim is updating the abstract and plans to submit on Monday, October 8th
- Deadline to submit abstract to 3rd World Congress: **early December 2012** (http://www.wcti2013.org/03_abs/abs01.htm)
- Poster Contribution from Group 3A for **RSNA 2012** will be based on the final abstract content

Manuscript Update

- More information needed from section authors, i.e., *figures, illustrations, results*; email: MAthellogou@definiens.com.

QIBA Metrology Workshop Collaboration Update

- The QIBA Metrology Algorithm Workgroup has reanalyzed Group 3A Challenge data, and this can be used to develop a standardized study design for future QIBA groundwork
 - All biomarkers are evaluated by some type of index or indices; application of specific terminology and use of a consistent protocol for running challenges with inter-algorithm correlation coefficients would be ideal
 - A metric is need to compare two algorithms and two readers, without reader effect

Concerns Discussed Regarding Data Release

- The manuscript for the two challenges has not yet been published; however, some suggested releasing the results and anonymized datasets to promote learning amongst other QIBA groups
- Question may be posed to the QIBA Steering Committee as Group 3A study organizers are reluctant to release data
- Participant Agreement to be consulted and reviewed for the Pivotal study
 - Reason for anonymization of the data was to allow for mutual learning from the experiment
- Some concerns expressed included:
 - Participants joining QIBA only to “learn” more about their competitors without full participation in calls

Second QI-Bench Challenge - Clinical Data Preparation

- Study organizers to review Pivotal Participant Agreement and make changes to streamline agreement and incorporate permission to be credited in a manuscript (company, investigators), and request for category and description of algorithm, etc.
- Suggestion to also include ROI used, contours, and volume measurements

Next steps:

- Dr. Kim, Mr. Dima to prepare abstracts for ATS and 3rd World Congress of Thoracic Imaging 2013
- Dr. Athellogou to work on completing the manuscript for publication/ release
- All authors to send their outstanding contributions to Dr. Athellogou: MAthellogou@definiens.com.
- RSNA Staff to follow up on participation/submission verbiage used for QIBA/ RIC archived datasets
- RSNA staff to send most recent participant agreement to study organizers

Next call: [Thursday, October 18, 2012 at 11:30 AM CT.](#)