

QIBA Volumetric CT Group 3A Update
Thursday, 21 February 2013 at 11:30 AM CT (GMT-6)
Call Summary

Additional Notes provided by Mr. Buckler

In attendance

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| <i>Maria Athelougou, PhD (Chair)</i> | Jovanna Danagouliau, PhD | Guillaume Orioux, MSc | RSNA Joe Koudelik |
| Hubert Beaumont, PhD | Alden Dima, MS | Nicholas Petrick, PhD | Julie Lisiecki |
| Andrew Buckler, MS | Marios Gavrielides, PhD | Ying Tang, PhD | |
| Barbara Croft, PhD | Friedrich Knollmann, MD, PhD | David J. Vining, MD | |

Agenda

- Preparation for the second 3A Challenge kickoff meeting on February 25, 2013 at NIST

Notes

- Final details of slide preparation, etc. were reviewed.
- Dr. Danagouliau demonstrated continued progress on the analysis methods, using 1B data by way of example:
 - The primary analysis has been performed on log-scaled data and the draft report updated.
 - The secondary analysis has been further developed to comprise the following steps:
 - Registration of participant image segmentations to resolve scaling or position differences.
 - Execution of a complete implementation of STAPLE (based directly on Warfield's code, obtained through correspondence) to produce reference segmentations represented as probability maps, and individual participant sensitivity, specificity, intersection, and union results.
 - Binarization of the output probability map to form a reference for purposes of computing pixel-wise indices.
 - Visualization of each stage is possible, specifically, maps showing 2 (and more) objects to show true positive, false positives, true negative, and false negatives are possible.
 - Data reporting options were discussed.

Next Steps:

- Mr. Dima to provide international teleconference details to: Dr. Beaumont and Mr. Orioux
- Study advisors for the pilot and pivotal studies to respond to RSNA staff with:
 1. FDA co-sponsorship agreement statement (will also satisfy NIST requirements)
 2. Author coordinates
 - (*Email, physical mailing address, phone, credentials*), if not yet complete.

Next call: *Thursday, March 14, 2013 at 11:30 AM CT.*