

QIBA CT Volumetry Technical Committee Update Call

12 March 2012 at 11 AM CDT (GMT-6)

Call Summary

In attendance:

P. David Mozley, MD (Co-chair)
Lawrence Schwartz, MD (Co-chair)
Andrew Buckler, MS
Paul L. Carson, PhD
Baiyu Chen, PhD
David A. Clunie, MBBS
Barbara Croft, MD
Heidrun Endt
Steven Federici, BS, RT
Charles Fenimore, PhD
Kavita Garg, MD
Paul Garrett, MD

Marios Gavrielides, PhD
David Gustafson, PhD
Richard Jacobs
Philip F. Judy, PhD
Michael McNitt-Gray, PhD
James Mulshine, MD
Kevin O'Donnell, MASc
Nicholas Petrick, PhD
Ann Scherzinger, PhD
Ying Tang, PhD
Binsheng Zhao, DSc

RSNA:

Joe Koudelik
Madeleine McCoy

QIBA Vol-CT AdvDisease v2 Public Comment Profile Feedback (led by Mr. O'Donnell)

- The March 9th work session addressed many outstanding high, medium and low priority items
- Another follow-up work session proposed for a 2 hour block; time TBD
 - Associated homework assignments will be due 2 days prior to the 2-hr work session
 - RSNA staff to work with Mr O'Donnell and Dr McNitt-Gray to identify potential call dates
 - RSNA staff will circulate and post the latest copies of the Public Comment Resolution materials from Mr O'Donnell to the Wiki
- The group still expects to complete the process prior to the annual meeting in May

Dr. McNitt-Gray's (UCLA) 1B Project Update

- Minimal detectable change is the focus
- Hypothesis
 - That the minimal detectable change in tumor size - using measured tumor volumes made by radiologists on thin section CT images - will be smaller when using a side by side ("more clinical") review setting than when using an independent review setting.
- Project Description
 - The purpose of this project is to extend the data collection and statistical analysis of the QIBA Volumetric CT committee's 1B experiment, which is investigating the minimum detectable change in lesion size from patient datasets imaged on CT.
- Need to identify "Best Practice Reading Paradigms" that lead to methodological accuracy and minimal bias (i.e., such as advocating for side-by-side reads); not trying to create new reading paradigms
- This Best Practice will then feed Profile development
- A "locked-sequential-read" was deemed ideal for this study; no time point #1 corrections allowed based on #2 details
- Data analysis plan expected from Group 1B for distribution by the end of March
- Drs McNitt-Gray and Kim to discuss Coffee Break lesion specifics offline

Schedule Updates:

March 19th: open with [Dr Garg/Colorado](#), working the plan during the update, then resolve profile issues

March 26th: open with [Dr Athelougou/3A](#), working the plan during the update, then resolve profile issues

April 2nd: open with [Dr Fenimore/1C](#), working the plan during the update, then resolve profile issues

April 9th: open with [Dr Zhao/3B](#), working the plan during the update, then resolve profile issues

April 16th: spend the whole meeting on organizing for new NIBIB application

Next Steps:

- To maintain current momentum, the group decided to continue hosting weekly calls until all project updates are completed (~April 16), then revert to a bi-weekly call schedule moving forward.
- Dr Garg to draft a NIBIB/QIBA Colorado Project update for group distribution by Thursday, March 15th
- Reminder that these project updates are to focus on a business plan, or the "business of science" perspective, not intended as a scientific/technical update
- Next call scheduled for Monday, March 19th at 11 am CT