

QIBA CT Volumetry Technical Committee Update Call

24 September 2012 at 11 AM CDT (GMT-5)

Call Summary

In attendance:

P. David Mozley, MD (Co-Chair)
 Lawrence Schwartz, MD (Co-Chair)
 Samuel G. Armato III, PhD
 Maria Athelougou, PhD
 Hubert Beaumont, PhD
 Andrew Buckler, MS
 Baiyu Chen
 David A. Clunie, MBBS
 Barbara Croft, MD
 Charles Fenimore, PhD
 Kavita Garg, MD

Gregory Goldmacher, MD, PhD
 Richard Jacobs, MD, MHA
 Philip F. Judy, PhD
 Hyun Grace Kim, PhD
 John Lu, PhD
 Michael McNitt-Gray, PhD
 James Mulshine, MD
 Kevin O'Donnell, MASC
 Andrew Stein, PhD
 Neil Steinmetz, MD, JD
 Daniel C. Sullivan, MD

Bincheng Zhao, Dsc
 Luduan Zhang, PhD

RSNA:

Joe Koudelik
 Madeleine McCoy

1B Update-Part 2 Patient Scans with Clinical Workflow

- Dr. McNitt-Gray reviewed results from the vCT-1B Part 2 Study: Patient Scans with Clinical Workflow.
 - Hypothesis: The minimal detectable change in tumor size will be smaller when using a side-by-side (“clinical workflow”) review setting than when using random order, fully blinded design (the workflow of vCT-1B, Part 1).
 - Cases and Methods: 32 no-change coffee break cases added to 20 RIDER change “distractor” cases on 5 Readers. A “Locked, Sequential Read” with a 15 minute interval on the same scanner.
 - Re-wording the conclusion suggested for more clarity, i.e., that these were blinded, sequential reader studies, etc.
 - The next step is to write up the report and distribute this to the entire Tech Ctte for feedback. The goal is to have a draft manuscript available to feed the next cycle of continued funding applications.

• **QIBA Poster for the RSNA 2012 Annual Meeting**

- The poster will be segmented into 8 different tiles describing Tech Ctte project, results and Profile updates.

Mr Buckler/ Dr Schwartz Intro	Drs McNitt-Gray / Kim / Clunie 1B Workflow results	Dr Athelougou 3A Challenge results	Drs Garg/Scherzinger Colorado project results	Mr O'Donnell Profile
	Dr Fenimore 1C Stat analysis results	Drs Samei/Chen Duke project results	Drs Zhao/Schwartz Columbia project results	

- Mr. Buckler and Dr. Schwartz: Introduction section
 - Mr. Buckler will draft objective text and send it to Dr. Schwartz.
- Drs. McNitt-Gray, Kim and Clunie: vCT-1B Workflow Results
 - An extra t-con may be scheduled to finalize content.
- Dr. Fenimore: vCT-1C Stat Analysis Results
 - Dr. Kim has the analysis in hand and Dr. Lu will proceed with the analysis and make measurements of the bias. A future t-con to be scheduled. The delivery of the NIBIB report will be complete after a discussion with key people.
- Dr. Athelougou: vCT-3A Challenge Results

- Dr. Kim to explain stat analysis results
- Manuscript being prepared
- The next t-con is scheduled for October 4th at 11:30am (CT).
- Drs. Samei and Chen: Duke Project Results
 - The poster data has been submitted to RSNA. A no-cost extension was granted for the NIBIB project. It was requested that Dr. Chen submit a 1-2 page report stating accomplishments to date and future objectives.
- Drs. Garg and Scherzinger: Colorado Project Results
 - The final report for NIBIB will be finished by 9/26 and the poster material will be complete/submitted by 10/10. Dr. Mozley suggested conclusions be added to the poster content.
- Drs. Zhao and Schwartz: Columbia Project Results
 - A report will be submitted by 9/26 which will include Part 1 and Part 2 clinical data outcomes.
- Mr. O'Donnell: Profile section
 - The 2012 material will be based on last year's contribution. The content will be e-mailed to the co-chairs for feedback.
- Dr. Steinmetz will talk offline with RSNA Staff about poster dimensions.
- Oct 10th: Final materials to be submitted to Mr. Buckler for compiling into draft poster.
- Oct 22nd: Draft poster will be reviewed on CT Vol Monday t-con.

Next steps

- The next QIBA CT-VOL Tech Ctte t-con will be October 22nd at 11am (CT)
- T-Con update:
 - 3A with Dr. Athelougou—October 4th at 11:30am (CT)
 - 1B Workflow—RSNA Staff to contact Dr. McNitt-Gray.
 - 1C Stat Analysis Results—RSNA Staff to contact Dr. Fenimore.