

QIBA CT Volumetry Technical Committee Update Call

27 February 2012 at 11 AM CST (GMT-6)

Call Summary

In attendance:

P. David Mozley, MD (Co-chair)
Lawrence Schwartz, MD (Co-chair)
Maria Athelougou, PhD
Andrew Buckler, MS
Paul L. Carson, PhD
Baiyu Chen, PhD
David A. Clunie, MBBS
Barbara Croft, MD
Heidrun Endt
Charles Fenimore, PhD
Gregory V. Goldmacher, MD, PhD

David Gustafson, PhD
Philip F. Judy, PhD
Hyun Grace Kim, PhD
Michael McNitt-Gray, PhD
Kevin O'Donnell, MASc
Nicholas Petrick, PhD
Ehsan Samei, PhD
Neil Steinmetz, MD, JD
Daniel C. Sullivan, MD
Ying Tang, PhD
Binsheng Zhao, DSc

RSNA:

Joe Koudelik
Madeleine McCoy

Project Update

- Group 1B Project Extension (Part 2) Overview – Dr. McNitt-Gray
 - The purpose of this project is to *extend* the data collection and statistical analysis of the QIBA CT Volumetry Committee's 1B experiment, which is investigating the minimum detectable change in lesion size from patient datasets imaged on CT.
 - 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.
 - The primary goal of this project is to perform the analysis necessary to assess the minimum detectable change using reading conditions which are more realistic in clinical trials and clinical reading environments. **The minimum change will be analyzed for just one measurement method. The longest diameter will be derived automatically from the volume contours. Electronic calipers will not be manually placed. Only inter-reader variability will be assessed.**
 - The timeline and additional project details will be provided by Dr. McNitt-Gray on the 3/12/12 t-con.

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

- To optimize use of time, homework tasks need to be reviewed thoroughly before each call Review documents posted to the QIBA Wiki under "Profile Development" at: http://qibawiki.rsna.org/index.php?title=Volumetric-CT_tech_ctte
- Progress was made closing several line-items.
- The 4-hour work session has been scheduled for Friday, March 9th from 12pm – 4pm (CST)

Schedule Updates:

- March 5th: open with **Dr Samei/Duke**, working the plan during the update, then resolve profile issues
- March 12th: open with **Dr McNitt-Gray/1B**, working the plan during the update, then resolve profile issues
- 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:

- Dr. Samei will circulate Duke's study design, requirements, milestones and timeline by the end of the week.
- Dr. McNitt-Gray to send feedback of the Duke Project despite missing the next t-con.
- Next call scheduled for Monday, March 5th at 11 am CST
 - The importance to adhere to 50 minute t-cons was reiterated