

QIBA CT Volumetry Technical Committee Update Call

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

Call Summary

In attendance:

P. David Mozley, MD (Co-chair)	Steven Federici, BS, RT	Estanislao Oubel, PhD
Lawrence Schwartz, MD (Co-chair)	Charles Fenimore, PhD	Nicholas Petrick, PhD
Maria Athelougou, PhD	Paul R. Garrett, MD	Neil Steinmetz, MD, JD
Andrew Buckler, MS	Gregory Goldmacher, MD, PhD	Ying Tang, PhD
Paul L. Carson, PhD	Richard Jacobs	David J. Vining, MD
Baiyu Chen, PhD	Hyun Grace Kim, PhD	Binsheng Zhao, DSc
Dirk Colditz, PhD	Michael McNitt-Gray, PhD	Luduan Zhang, PhD
Barbara Croft, MD	James Mulshine, MD	
Alden Dima, MS	Guillaume Orioux	RSNA: Madeleine McCoy

NIBIB Contract Proposals for CT Volumetry (Mr. Buckler)

- A document outlining a strategy for applying for continued funding from the NIBIB was sent to QIBA CT Volumetry Tech Ctte Members shortly before the meeting started. As per SOP, the document was briefly reviewed at a high level with only limited discussion as a prelude to placing the matter on the agenda during the meeting the following week. The Ctte Members were asked to prepare for discussions on the following topics:
 - Long-term Objectives
 - What We've Accomplished So Far
 - Our Proposal on Where to Go from Here

QIBA Vol-CT AdvDisease v2 Public Comment Profile Feedback

- Participants are making good progress.
- One or two more 2-hour follow-up work sessions will be proposed.
- The group still expects to complete the process by the end of April.

QIBA Volumetric Study 3A Update (Mr. Buckler, Dr. Athelougou, Mr. Dima and Dr. Kim)

- 3A Systematic Variability derived from the sources variability spreadsheet method used in analysis.
- The primary and first aim of the study is to estimate inter- and intra-method variability by the volume estimation of synthetic nodules from CT scans of an anthropomorphic phantom. The aim of the study is to gain knowledge to improve QIBA Volumetric CT Profiles and to provide context in which multiple parties have incentives to participate, while avoiding competition and supporting cooperation with a conjoint approach.
- 3A developed a pilot data study using data from the FDA CDRH Phantom Study
 - Through a collaboration between NIST/RSNA/QIBA 3-A a pilot study of 11 participants was developed.
 - Current Activities:
 - Calculate statistical results
 - Preparation of abstract for RSNA (pilot study results) (deadline March 31)
 - Preparation of the pivotal study
 - Pivotal study roll out deadlines:
 - Deadline to send in the participant agreement is: April 16, 2012
 - Deadline for submission of anonymized data is: May 16, 2012
- Dr. Steinmentz inquired about standards for methods to meet requirements for compliance.
 - The Ctte discussed whether the methods in the claim need to be tighter. Questions were posed about a balance between the rigorous of the methods and the biological value.
- Dr. McNitt Gray discussed the concept of reference datasets in relation to the Profile enforcing the claim.

Schedule Updates:

April 2nd: open with 10 minutes of discussion about the NIBIB contract. Then Dr Fenimore will present an update on behalf of the 1C team

April 9th: open with 10 minutes of discussion about the NIBIB contract. Then Dr Zhao will present an update on behalf of the 3B team

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 Fenimore to draft a QIBA Project 1C update for group distribution by Thursday, March 29th
- Reminder that these project updates are to focus on a business plan, or the “business of science” perspective, not intended as a pure scientific/technical update
- Technical Committee Members are encouraged to look over the NIBIB Contract Proposals for CT Volumetry in preparation for discussions.
- Next call scheduled for Monday, April 2nd at 11 am CT