Call Summary

In attendance:
Samuel G. Armato III, PhD (Co-Chair)  David Gustafson, PhD  RSNA:
Gregory V. Goldmacher, MD, PhD (Co-Chair)  James Mulshine, MD  Joe Koudelik
Lawrence Schwartz, MD (Co-Chair)  Kevin O’Donnell, MASc  Madeleine McCoy
Rick Avila, MS
Hubert Beaumont, PhD  Daniel C. Sullivan, MD
Charles Fenimore, PhD  Ying Tang, PhD
Matthew Fuld, PhD  Pierre Terve, MS
David Yankelevitz, MD

General Discussion

Mr. Avila presented a slide deck focusing on three new technologies being proposed to help QIBA pursue quantitation in CT imaging based on mathematical models

- **CT Pocket Phantom Technology**
  - Automated estimation of fundamental, real-world CT properties that produce a CT acquisition model
- **First-order CT Simulation**
  - Simulate the result of CT scanning of a structural model given fundamental acquisition parameters
- **Fundamental CT Performance Database**
  - Leverage a large amount of data on the fundamental performance of CT scanners and protocols, including real-world patient data and anthropomorphic phantom scans
- The use of mathematical models (first-order approximations) was proposed to simulate CT images in efforts to study image resolution, noise, edge enhancement and CT linearity to better estimate scanner performance and minimize potential bias
- Combining classical (ie, patient, phantom) studies with mathematical modeling/simulation studies suggested to help move QIBA efforts faster

Next QIBA CT-VOL Tech Ctte t-con, Monday, October 7, 2013 at 11am (CDT).

RSNA 2013 Annual Meeting - QIBA Technical Committees Working Meeting:

- Wednesday, December 4th | 2:30pm – 5:00pm | Chicago, McCormick Place | Room: TBD
- Please let us know whether you plan to attend by responding to the following poll: [http://www.doodle.com/fwf76ceggb78r75b](http://www.doodle.com/fwf76ceggb78r75b).
- We appreciate your continued support and look forward to your participation - Thank You!