In attendance:

Samuel G. Armato, III, PhD (Co-Chair)
Gregory V. Goldmacher, MD, PhD, (Co-Chair)
Lawrence Schwartz, MD (Co-Chair)
Andrew Buckler, MS
Heang-Ping Chan, PhD
Matthew Fuld, PhD
Marios Gavrielides, PhD
Lubomir Hadjiiski, PhD
Rudresh Jarecha, MBBS

RSNA:

Philip F. Judy, PhD
Hyun Grace Kim, PhD
Qin Li, PhD
John Lu, PhD
Michael McNitt-Gray, PhD
Michael O’Connor, PhD
Kevin O’Donnell, MASc
Eric S. Perlman, MD
Adele Peskin, PhD
Nicholas Petrick, PhD
Ehsan Samei, PhD
Berkman Sahiner, PhD
Daniel Sullivan, MD
Ying Tang, PhD
Amit Vasanji, PhD
Binsheng Zhao, DSc

RSNA:

Joe Koudelik
Julie Lisiecki

Agenda: Presentation by Drs. Samei and Sahiner on: Simulated lesion project progress

Presentation title: Methodology and Reference Image Set for Volumetric Characterization and Compliance

Team responsible for content was comprised of researchers from Duke University and the FDA

Background:

- Lesion quantification based on actual clinical CT scans lack ground truth
- It is nearly impossible to know the true size and morphology of lesions in vivo, especially due to the likelihood of lesion deformation during resection
- Physical phantoms are useful, but often lack realism and variability
- Image sets with inserted lesions offer validated data for quantitative conformance provided that the images reflect nuances of image formation (Duke expertise) and the varying confluence of anatomical background (FDA expertise)

Goals:

- Develop and compare methodologies for insertion of realistic lesions in clinical CT images
- Develop a dataset of hybrid images for quantitative volumetric characterization.

Reference:


Action items: Committee to consider future directions for discussion at the f2f meeting at RSNA 2014

Next Call: November 24th: Table 1 Numbers for the Profile Discussion (bias and precision numbers) – small group

Schedule Update:

- November 24th – Small Group: - Table 1 Discussion
- December 1st - No call (RSNA Meeting)
- December 8th – No call
- December 11th at 11:30 am CT: QIBA Group 3A – Special call with CT Vol Co-Chairs and Dr. Athelogou
- December 15th – Last call for the Biomarker Committee for 2014