

QIBA Quantitative CT Committee Update

Monday, May 3, 2010

11 AM CDT

Call Summary

In attendance

Andrew Buckler, MS (co-chair)
P. David Mozley, MD (co-chair)
Lawrence Schwartz, MD (co-chair)
Maria Athelougou, MD
Rahul Bhotika, PhD
Kristin Borradaile, MS
Charles Fenimore, PhD
John Fraunberger
David Gustafson, PhD
Philip F. Judy, PhD
Grace Kim, PhD

Michael McNitt-Gray, PhD
James Mulshine, MD
Kevin O'Donnell
Nicholas Petrick, PhD
Yuanxin Rong, MD, MPH
Ganesh Saiprasad, PhD

RSNA

Fiona Miller
Susan Anderson, MLS
Joe Koudelik

Group 1A datasets

- Continued discussion on cross-referencing data sets to Profile; will incorporate subsets of data pertaining to clinical context within the Profile
 - Clinical context should drive technology
 - Profiles to include data for bulls-eye approach to performance: Acceptable, Target and Ideal
- Certain nodules will be appropriate for one or more Profiles, e.g. late-stage lung cancer or neoadjuvant
 - Consider matching data by acquisition technique as well as clinical context, e.g. staging
 - First bifurcation is nodule size
 - Next is acquisition variables e.g. density, slice thickness, other such as mAs
- 1A's data set includes pitch, slice thickness, mAs, reconstruction filter, and collimation
- Profile values should be specific, e.g. name of recon filter instead of "detailed"
- Consider scoring as "Compliant with Profile technique" and "Clinical relevance to Profile"
- Incorporate text describing nodules into data tables which currently describe Acquisition and Reconstruction
- Some values in current Profile version may need to be changed
- Discussion of how to note breath hold values in phantom data; use N/A
 - Conceptually link pitch, rotation time, collimation to get single breath hold scan

Next Steps

- Continue discussion on cross-referencing Profile and 1A data sets
- Based on ongoing discussion, Dr Petrick to format/organize data to facilitate ongoing work on datasets
- Next call scheduled for Monday, May 10 at 11 am CDT