

QIBA Quantitative CT Committee Update

Monday, May 10, 2010

11 AM CDT

Call Summary

In attendance

Lawrence Schwartz, MD (co-chair)
Maria Athelougou, MD
Kristin Borradaile, MS
Sung Chang, PhD
Patricia E. Cole, PhD, MD
Charles Fenimore, PhD
David Gustafson, PhD
Philip F. Judy, PhD
John Lu, PhD
Michael McNitt-Gray, PhD
James Mulshine, MD

Kevin O'Donnell
Nicholas Petrick, PhD
Anthony P. Reeves, PhD
David J. Vining, MD
Binsheng Zhao, DSc

RSNA

Fiona Miller
Susan Anderson, MLS
Joe Koudelik

Group 1A datasets

- Continued discussion on cross-referencing data sets to Profile to address both clinical and technical needs and on reviewing acquisition parameters on current protocol draft
- Dr Petrick and committee reviewed data sheets from phantom scan experiments
 - The rows of data sheet correspond to DICOM headers and data that was tracked; all fields not necessarily reflected in Profile
- General discussion of Acceptable, Target and Ideal values for fields such as slice interval (continuous or overlapping), contrast, dosing, spatial resolution and others
- Decision to insert placeholders in Profile with explanation in text of pros, cons and potential issues; can state "we cannot make recommendation"
- Interest in linking parameters to bias and variance; consider what would be useful to include in calculating an overall score
- Indexing by technique followed by indexing by pathology (e.g. lesion size, etc.) would be of interest; Dr Petrick to work towards groupings based on 5mm slices for next call

Next Steps

- Dr Petrick to prepare groupings (such as by technique and by pathology) for continued discussion on cross-referencing Profile and 1A data sets (based on 5mm slices)
- Next call scheduled for Monday, May 17 at 11 am CDT