

QIBA vCT Technical Committee Weekly Update
Monday, August 24, 2009
11 am CDT

Call Summary

In attendance

Andrew Buckler, MS (Co-Chair)
Lawrence Schwartz, MD (Co-Chair)
Maria Athelougou, MD
John Childs
Patricia E. Cole, PhD, MD
Scott Dineen
Charles Fenimore, PhD
David Gustafson, PhD
Philip F. Judy, PhD
John Lu, PhD

Michael McNitt-Gray, PhD
Anthony Reeves, PhD
Yuanxin Rong, MD, MPH
Daniel Sullivan, MD
Binsheng Zhao, DSc

RSNA staff

Susan Anderson, MLS
Joe Koudelik

Agenda (Mr Buckler)

- Software Group update (Dr Schwartz)
- Group 1C activities update (Dr Fenimore)
- Groundwork for COPD
- Update of ISP project (John Childs)

Software (SW) group (Dr Schwartz)

- Claims document was circulated in group; working to fine tune details
- Mr Buckler, Mr O'Donnell and Dr Schwartz will discuss
- Comments from Siemens and Definiens incorporated in draft
- Dr Schwartz will post draft to Wiki when complete and invite other comments

Group 1C (Dr Fenimore)

- A broad effort with contributions from many TC members is needed as Group 1C starts groundwork
- Group 1C planning a two-branch structure:
 - 1st branch: using standard protocol
 - 2nd branch: using performance metrics specifications, e.g. resolution, noise level
- Study will use two phantoms: FDA phantom and NIST pocket phantom
- Study may use a 'sub-profile' of VolCT Profile with tighter range of values
- Several potential clinical image acquisition sites available (FDA, Duke, possibly MSK, RUSH, Cornell and BWH)
- Study protocol should specify acquisition for both imaging sites and mark-up sites
 - Study protocol from DCE-MRI may be a useful reference/model:
http://qibawiki.rsna.org/images/f/fc/Phantom_Study_Protocol_rev20090419-EFJ.pdf
- Discussion of study sizing to obtain images from Phillips, GE, Siemens and Toshiba equipment and discussion of data acquisition (broader acquisition vs. narrower acquisition)
 - Important to understand primary and secondary aims of acquisition and analysis and to finalize plan for data analysis before data acquisition begins

- Must consider reader time; possible to choose sample data to save reader time
- Possibility of several interested CROs to read data, e.g. RadPharm, Perceptive, Biomedical Systems
- Discussion of doing simultaneous collection of data for COPD with Group 1C effort
 - There are copies of COPD gene phantom at several of the same sites; could adjust acquisition and analysis parameters, e.g. density for COPD measuring

ISP Project (Mr Childs)

- Mr Buckler has spoken with Mr Avila about ISP manuscript; Drs McNitt-Gray, Zhao and Reeves have assignments for manuscript preparation
- ISP group is considering co-publishing in Oncology
- Mr Childs offered to assist as back-up to Mr Avila

Next steps:

- Dr Schwartz to continue refinements of software section and post on wiki
- Group 1C call to be scheduled week of Aug 24 or Aug 31
- Group to review DCE-MRI study protocol on QIBA wiki
- Dr Fenimore to contact Drs Schwartz (MSK) and Mulshine (RUSH) off-line to discuss as potential scanning sites