

QIBA vCT Technical Committee Weekly Update
Monday, August 10, 2009
11 am CDT

Call Summary

In attendance

Andrew Buckler, MS (Co-Chair)
P. David Mozley, MD (Co-Chair)
Lawrence Schwartz, MD (Co-Chair)
Rick Avila, MS
Tom Baer, PhD
Rahul Bhotika
Patricia Cole, PhD, MD
Charles Fenimore, PhD
Dana Ghiorghiu, MD, PhD
Philip F. Judy, PhD
Michael McNitt-Gray, PhD

James Mulshine, MD
Michael O'Neal, MD
Nick Petrick, PhD
Anthony P. Reeves, PhD
Yuanxin Rong, MD, MPH
Binsheng Zhao, DSc

RSNA staff

Susan Anderson
Mary Cerceo

Agenda (Mr Buckler)

- Publications
 - Forthcoming *Academic Radiology*
 - ISP overview
- Dr Schwartz update on software activities (time permitting)

Publications

- Publications in *Academic Radiology* due out in fall 2009
- Mr Buckler has circulated manuscript and requested modifications as needed

Demonstration of ISP (Mr Avila)

- Interactive Scientific Publishing (ISP) , <http://www.opticsinfobase.org/isp.cfm>
 - OSA ISP Software and the ISP MIDAS Database were developed by OSA in cooperation with Kitware, Inc., and with support from the National Library of Medicine.
- Allows figures, interactive figures, visualization, 3-D, animation, movies
- Can download as DICOM images; 'viewing is downloading'
- Kitware's open- source lesion- sizing toolkit is embedded in ISP
 - Can use to demonstrate the impact of slice thickness or lesion size
- Three different algorithm assessment avenues:
 - 1. Suppliers' individual tests
 - 2. AVT and caBIG for algorithm validation
 - 3. Reference algorithms (open source lesion sizing tool-kit)
- ISP could be an effective mechanism and useful portal to display the work of QIBA
- Invitation to submit manuscript of ISP capabilities
 - Discussion of Group 1A-B , Dr Fenimore/ Biochange data, Dr Reeves Volcano data for possible inclusion

- Because there is an active study underway, Dr Reeves could use cases similar to Volcano

ISP authoring system

- ISP has server in Chicago
- ISP 'snapshot' tool can create series of 'snapshots' and guide reader with narrative explanation
 - Agreement that this tool may be most useful; author highlights what is most useful
 - Can take advantage of more complex presentations in the future
- Multiple authors can share the same directory of Views; main author sets-up directory and sends FTP data files to other authors
- Readers get free viewer, authors secure licenses for 30-day free trail
 - Can also request OSA permission for one-year license to create publication
 - After one-year, purchase license or get extended license from OSA
- The challenge is determining the best way to use this new medium

Discussion of Licensing/Distribution agreements

- Biochange data sets belong to RIDER; agreement with NCI to make available as compact FTPs; 13 pairs of CT scans; 26 total scans in Biochange pilot
- If re-distribution of data is prohibited in data agreement, negotiation is needed to use in ISP
 - Could possibly credit and link back to original source, e.g. NBIA
 - NLM and OSA should address this issue

Next steps:

- Dr Mulshine to talk with Tom Baer and Dr Clarke re: use of LIDC and RIDER data
- Mr Buckler will request six ISP licenses from OSA; committee members should e-mail Mr Buckler if they are interested in securing a license
 - OSA interested is helping potential authors; contact Kelly Kohn, OSA staff
- Mr Avila to notify Committee when ISP tutorial and video are available
- Mr Avila will create a sample document, staged on Chicago server, with figure from IASLC meeting