

QIBA vCT Technical Committee Weekly Update
Monday, September 14, 2009
11 am CDT

Call Summary

In attendance

Andrew Buckler, MS (Co-Chair)	James Mulshine, MD
Lawrence Schwartz, MD (Co-Chair)	Kevin O'Donnell
Maria Athelougou, MD	Nicholas Petrick, PhD
Michael Auffret, MS	Anthony P. Reeves, PhD
Rick Avila, MS	Yuanxin Rong, MD, MPH
Kristin Borradaile, MS	Daniel Sullivan, MD
Laurence P. Clarke, PhD	
Charles Fenimore, PhD	RSNA staff
David Gustafson, PhD	Fiona Miller
Mahadevappa Mahesh, MS, PhD	Susan Anderson, MLS
Michael McNitt-Gray, PhD	Joe Koudelik

Agenda (Mr Buckler)

- Update on Volcano, Groups 1A, 1B, and 1C
- Progress on ISP paper
- Interface/collaboration with: ACRIN, IHE, NIH QIN and caBIG

Volcano (Dr. Reeves)

- Results from automated VOLCANO study scheduled for week of September 21; Dr Reeves will present results to his group and solicit comments from participants
- Manual study is upcoming
- Dr Reeves will share results with VolCT Technical Committee in a future call

Group 1A update (Dr Petrick)

- Dr Petrick working to finalize the statistical analysis plan and will circulate to Group 1A by end of September

Group 1B update (Dr McNitt-Gray)

- Group has secured data and has completed experimental design and reading methods
- RadPharm would like to delay reading schedule until November to accommodate installation of new software

ISP paper

- Document has four sub-sections
- Mr Avila has completed updates on Mr Buckler's initial draft
- Request to re-use NBIA (and other archives) data in ISP should be initiated
 - Dr Mulshine to follow-up
- Co-authors to submit text and placeholders for figures/data to Mr Avila:

Area	Author(s)
Clinical Opportunities and Challenges	David Mozley, MD
Understanding Performance on Phantoms	Nicholas Petrick, PhD
Clinical Data Resources	Michael McNitt-Gray, PhD and Binsheng Zhao, DSc
Algorithm Evaluation Systems	Charles Fenimore, PhD and Anthony Reeves, PhD

Interface/collaboration with: ACRIN, IHE, NIH QIN and caBIG

- These groups have different relationships to QIBA activity
- Potential for involvement with **ACRIN** and other organizations will be relevant in downstream parts of the Roadmap
 - DCE_MRI TC is working collaboratively with ACRIN on validation of qualified biomarkers
 - Relevant for Steps 5&6 of roadmap as per NIBIB Project Proposal
 - Dr Hillman and Mr Niels may be interested discussants
- **QIN** is expected to be active by last quarter of 2009 or first quarter of 2010
 - QIN interested in bi-directional relationship
- Suggestion in 2006 for QIBA to follow **IHE** process
 - Profile compliance is topic for QIBA steering committee
 - System compliance refers to performance assessment of vendor offerings (to metrology claims in the Profile) and by vendors demonstrating system interoperability (possibly facilitated by the IHE Connectathon)
 - The set-up is expensive and labor-intensive but IHE offers to piggyback work, e.g. dose, lung quantitation profile
 - QIBA's emphasis is not connecting but rather meeting or exceeding threshold specifications
 - Schedule/integration workflow was first IHE work leading to integration statement
 - Could QIBA do something similar for biomarkers?
 - Are there conformance testing services, e.g. NIST, which QIBA could use for compliance testing?
 - Discussion on this topic off-line with Dr Fenimore
- Potential support from caBIG (to QIBA as a whole, not just vCT team):
 - Informatics infrastructure to facilitate qualification activities
 - Generalize the present focus on vCT to cover additional modalities and biomarkers
 - Address broader issue in QI (including, for example, sensor chain, modeling, provenance, assessment of confidence interval rather than just mean values, etc.)

Next steps

- Mr Buckler will re-send ISP draft to all contributors
- RSNA staff to forward ACRIN and caBIG documents
- RSNA staff to contact Dr Mulshine re: progress in securing permission from NBIA for ISP use of data
 - Request to re-use NBIA data in ISP should be initiated soon
- Dr Clarke to forward description and slides related to QIN to be distributed to group
- Next call(s):
 - Continued discussion on Roadmap and additional activities toward ultimate goal of qualification of vCT
 - Discussion of initial VOLCANO results when available (Dr Reeves)