

QIBA vCT Technical Committee Weekly Update
Monday, June 29, 2009
11 am CDT

Call Summary

In attendance:

Kevin O'Donnell (Moderator)

P. David Mozley, MD (Co-Chair)

Lawrence Schwartz, MD (Co-Chair)

Rick Avila, MS

Kristin Borradaile

Charles Fenimore, PhD

Dana Ghiorghiu, MD, PhD

David Gustafson, PhD

Philip F. Judy, PhD

James Mulshine, MD

Nicholas Petrick, PhD

Matthias Thorn, PhD

Hiro Yoshida, PhD

RSNA staff

Fiona Miller

Susan Anderson

Joe Koudelik

***THOUGHTS ON THE QIBA PROCESS: PROFILES, UPICT & MEASUREMENTS* PowerPoint slide set
(Kevin O'Donnell)**

- Mr. O'Donnell characterized the phases, the work in each phase and the document structure for each phase in the maturation of a QIBA biomarker.
- Phases were defined as:
 - *Exploration Phase* ("Clarification") (including response to treatment; work involves Detail groundwork)
 - *Clinical Trial Phase* ("Regularization") (Committee is now moving into this phase with some projects; will strive to correlate documents with UPICT effort)
 - *Clinical Practice Phase* ("Industrialization") (will drive out variance and complexity, can answer questions about requirements and specifications)
- Suggestion to make process as simple as possible by approaching as a marketing campaign for QIBA
 - Concepts such as IHE or UPICT and jargon may be off-putting to clinicians/users
 - Want users to have an immediate, intuitive grasp of concept
 - Concentrate on modest, definable, consistent activities and goals
- In the future, may need a QIBA QC 'training' document translating all 'shall' language into clear language for the personnel involved in image acquisition
- Using these steps and existing documentation for future Profiles will include conservation of a majority of the existing material and refinement of a small amount of the material
- QIBA structured radiology reading report needed with definable elements; would be valuable in clinical trial settings
- Could divide section for authorship, e.g. Measurement, Interpretation, Reporting
- Discussion of need for f2f meeting, day-long Net meeting or web-conference to author Profiles

- IHE process generally involved three f2f sessions
- Brainstorming, choosing an author who writes a strawman
- Within 2 months, author has circulated draft for comments
- Comments from review incorporated and Profile completed
- Follow-up via WebEx proposed
- The slides will be posted on the Wiki

Measurement Subgroup 1A Update (Dr Petrick)

- Discussion of completing measurements
 - Individual physicians/reader used same software but may have had different interpretation
 - Need to nail down specifications without manual intervention
 - Do not want to exclude methods that achieve performance targets, but the nature of variance could vary due to different methods and present different failure possibilities
 - Set-up of analysis outline is next for Group 1A

Early stage lung cancer/neoadjuvant group (Dr Mulshine)

- Dr Mulshine and Mr Buckler will meet with ISLC board during ISLC meeting, San Francisco, July 31-Aug 4.
 - Dr McNitt-Gray and Mr O'Donnell may also attend
- Aim to have a document and information on the Wiki by 3rd week of July in preparation for meeting

Next Steps:

- Kevin O'Donnell's slides will be posted on wiki
- Kevin O'Donnell will contact Dr Dorfman re UPICT template development
- Continue planning for ISLC activity re Neoadjuvant group
- Dr Fenimore and Mr O'Donnell to discuss the Group 1C protocol off-line
- RSNA staff to send Mr O'Donnell's slides to Dr Dorfman
- RSNA staff to coordinate a t-con between Dr Mulshine, Mr Buckler and O'Donnell to discuss meeting at the ISLC meeting