

QIBA FDG-PET Monthly Technical Committee Update WebEx

Thursday, July 17, 2008

2:00 PM-2:30 PM CDT

Draft Summary

In attendance:

Richard Frank, MD, PhD (Moderator)
Daniel Sullivan, MD (Co-Moderator)
Michael Casey, PhD
David Clunie, MBBS
Patricia E. Cole, PhD, MD
Richard Eaton, JD

Dennis Nelson, PhD
Barry Siegel, MD
Timothy Turkington, PhD
Brian Zimmerman, PhD
Fiona Miller (RSNA)
Joe Koudelik (RSNA)

History and Orientation – Daniel Sullivan, MD

The FDG-PET Technical Committee was a product of the recent QIBA meeting (May 20-21, 2008) in Oak Brook, Illinois. Three distinct biomarker-related breakout sessions took place to discuss quantitative imaging and biomarker development. Resulting from this meeting, were three technical committees focusing on the following biomarkers; FDG-PET, DCE-MRI and Volumetric CT.

Primary focus of FDG-PET Technical Committee is major device manufacturers, both hardware and software, to identify sources of variation among scanning systems and across manufacturers themselves. Only aspects that could be dealt with would be addresses.

- Participating stakeholders would include:
 - Major device manufacturers
 - Clinicians
 - Radiologists
 - Physicists
 - Oncologists
 - Pharmaceutical industry
- Process is evolving as tasks are accomplished
- Five subcommittees developed based on value and feasibility
 - Quantitation Computation - David Clunie, MBBS
 - Software Version Tracking - Daniel Gagnon, PhD
 - ROI Definition - Timothy Turkington, PhD
 - Digital Reference Objects - Paul Kinahan, PhD
 - Covariates Rationale - Tim McCarthy (formerly Paul Maguire)
 - Follow-up Editorial – Richard Frank, MD, PhD
 - Dr. Frank is to publicize the process by publishing in *Molecular Imaging and Biology* and in *RSNA News*
 - Main point of article – Enable appropriate imaging techniques in clinical trials
 - Satisfy pharma needs for biomarkers (to be used as diagnostic tools)
- Goal of Subcommittees
 - Long term goal – adoption of this product
 - Intermediate goal – report out at RSNA 2008

Projects and Progress

Quantitative Computation Subcommittee update - David Clunie, MBBS

- Goal: To produce vendor-independent SUV status values
- Outline of questions to ask vendors being developed
 - Identify members of subgroup to contribute to document
- Vendor members to help with identifying required manufacturer contacts – engineers, etc
 - Name list being compiled
 - Steve Kohlmyer has agreed to participate on behalf of General Electric
- Breakout session participants to be contacted for input/involvement
- RSNA's involvement
 - High-level role to identify parallel efforts with other groups
- Preliminary details for next call anticipated

ROI Definition Subcommittee update - Timothy Turkington, PhD

- Goal statement formulated and sent to few group members for comment
 - Unify the ROI definition on various commercial work-stations
 - Recommend specific ROI definition to be implemented by vendors
- Issues that require additional attention:
 - 2D vs. 3D
 - Orthogonal planes
 - Interpopulation
 - Threshold
 - Zoomed image
 - Only vendor support (buy-in) will work

Question posed: Who is the right vendor contact to make this work? What type of person/position?

- Mid-level advocate needed for each vendor
- Send emails to three potential vendor stakeholders to assist identifying appropriate contacts:
 - Steve Kohlmyer (GE)
 - Daniel (Philips)
 - Mike Casey (Siemens)
- Expand to all viewing station manufacturers
- Business case needs to be developed and submitted to each vendor contact

Plans for RSNA, DIA, IHE Process

- Dan Sullivan discussed the QIBA Informational meeting planned for RSNA 2008 on Monday, December 1, 10:30-11:30, Room TBD
 - Disseminate information to other groups, CRO's, Clinical Trialists, etc, with an overview of QIBA and its intentions
 - Presentations from each Technical Committee
- Exhibit in Education Exhibits area
 - 4-sided, free-standing exhibit
 - One general panel with 3 specific technical committee panels
- QIBA Technical Committee Working Meeting at RSNA2008

- Thursday, Dec 4, 2-4PM, Room TBD
- F2F working committee

- DIA Meeting (Oct 2 - 3, 2008)
 - ACRIN Meeting same time
 - Clinical Trial issues
 - Imaging Charter and standard interface for transferring images

Action Items:

- Joe to send out Dr Frank's final version (Galley Proof) to all sub-committee members (Completed: July 21, 2008)
- Email Tim Turkington – systems used for PET analysis; RSNA Exhibitor Listing perhaps useful – Joe to check with appropriate RSNA dept if list exists, then forward to Dr. Turkington (Completed: July 30, 2008)
- Joe to set-up next meeting in August (Completed: Next call 8/15/08 at 3PM EDT)
- Send emails to three potential vendor key stakeholders to assist identifying appropriate contacts:
 - Steve Kohlmyer (GE)
 - Daniel Gagnon (Philips)
 - Mike Casey (Siemens)