

QIBA Q-CT Weekly Update
Monday, December 13, 2010 at 11 AM CST
Call Summary

In attendance

Andrew J. Buckler, MS (QIBA Program Director)
P. David Mozley, MD (Co-chair)
Lawrence Schwartz, MD (Co-chair)
Maria Athelougou, MD
Jon DeVries, MBA
Charles Fenimore, PhD
Kavita Garg, MD
David Gustafson, PhD
Philip Judy, PhD

Hyun Grace Kim, PhD
Michael McNitt-Gray, PhD
David Miller
James Mulshine, MD
Kevin O'Donnell
Nicholas Petrick, PhD
Ying Tang, PhD

RSNA
Fiona Miller
Joe Koudelik

Project Timeline (Gantt Chart) Overview (Mr Buckler)

- Feedback and resolution needed before field test ends for vCT Profile v1.0
- More discussion required to carry out a continuous feedback process; mid January to late February 2011
- Public comment (opportunity for people not part of QIBA) followed by field test (users and industry)
- Reach-out to customers-in-the-field via survey suggested
- At least one vendor (Definiens) already showing interest in developing a Profile compliant product as tangible sign that we're accomplishing something of value
- Process map includes qualification, device clearance, and reimbursement; to be updated as qualification meetings with BQRT take place and formal consideration is given to other uses

Group 1A Update

- Group 1A work submitted for SPIE abstract submitted for publication
- Group 1A's activity to collect and disseminate data for use is complete
- Group 1A publication is expected by end of February 2011

Group 1B Update

- More work required to obtain results; working on analysis phase now

Group1C Update

- 1C on track resolving few remaining technical issues
- Unknowns still exist concerning reading task/process; next 1C call scheduled for Dec 15th to discuss these issues

Publishing of Results

- Publishing results takes time and may overburden group projects if this is necessary for completion
- Many academic circles only recognize a project complete once results are published
 - Published results may hold more favor with the FDA
- Decision not to hold-back forward momentum while pursuing publication

- Proposed model would (1) work towards obtaining results and (2) push for publishing; these model does not change any interdependencies within the Gantt chart
- Drs Mozley and Mulshine to discuss new publication opportunities vs. clinical forum off-line

Project (and funding) priorities

- QC process specifications and compliance testing methods need to be included
- Practicality not important in prioritizing tasks, but group consensus is needed
 - e.g. Need to demonstrate value in reducing variance in Claims; education and marketing will prove important
- Need a product to use
- Need information important enough to change behavior
- Need protocols to improve clinical trials systematically

NIBIB Funding Proposals - Priorities

- 1) Support or inform the specifications of Claim 4 (via groundwork: Impact of various acquisition parameters on reproducibility of measurements
 - a. Inter- and intra-observer variability in VIA. How consistent are the results?
 - b. Technical: For CT, this might include system type, vendor, collimation, pitch, dose, FOV, recon kernel, recon slice thickness, etc. This should also consider spiral vs. nonspiral CT, contrast use, etc.)
 - c. Protocol
- 2) QC program specification and compliance method
- 3) Clinical performance:
- 4) Compare to current response criteria (RECIST, WHO, etc)
- 5) Replace – or “just” augment – SLD and WHO?
- 6) Correlation coefficient to clinical endpoints+++++ ***how to eat an elephant? One bite at a time. How to complete a long project? Start early.***
- 7) Algorithm characteristics not yet modeled enough to support Claim 6 (Claim language still needs drafting (accuracy and speed trade-off, automated and semi-automated)
- 8) Apply DICOM SR to this model
- 9) AIM standard being proposed from caBIG program

Next steps:

- Process map includes qualification, device clearance, and reimbursement; to be posted to the QIBA Wiki for reference
- Drs Mozley and Mulshine to discuss new publication opportunities vs. clinical forum off-line
- Drs McNitt-Gray and Fenimore to email Mr Buckler approximate dates for project completion
- Next call scheduled for Monday, Dec 20, at 11 am CST