

QIBA VOL-CT Group 1A - Phantom Study Protocol Update
December 18, 2008, 12pm CDT
Call Summary

In attendance:

Nicholas Petrick, PhD
Charles Fenimore, PhD
Robert Ford, MD
Wendy Hayes, DO
Michael McNitt-Gray, PhD

Daniel Sullivan, MD
Binsheng Zhao, PhD
Susan Anderson (RSNA)
Joe Koudelik (RSNA)

General Discussion

- Dr. Petrick reminded group members to review his posted wiki protocol and comment
 - (<http://qibawiki.rsna.org/images/7/7f/Qiba-nxp-ProposedPhase1A-2008-11-13-v05.ppt>)
- Dr. Ford referred to wiki posted document - SSK04-04
 - (<http://qibawiki.rsna.org/images/1/1b/Rsna2009-ssk04-04-PhantomReaderStudy.doc>)
- Asked group members to compare and contrast with the QIBA VolCT Group 1A project
- Agreed to use existing PACS software (which is currently on systems) to streamline analysis process
- Discussed whether or not to use fixed window/level or allow the user to select their on individualized window/level when evaluating the cases
 - True clinical impact would have variation in window/level between cases and clinicians
 - Fixed window/level would allow for targeting software effect by removing one potential confounding effect
 - Group did not come to a consensus on this issue. It will need to be decided on a future call or after the pilot study.
- Dr. Petrick to draft a step-by-step, detailed “Reader Protocol” for group members to review and comment (early January 2009)
 - Work list needed for all Readers
- Pilot study using 1-2 RadPharm readers to begin mid-January 2009
 - Dr. Petrick to send cases to Dr. Ford to enter into RadPharm’s PACS system and identify Regions of Interest (ROI)
 - Pilot expected to demonstrate complexity and timeliness of project moving forward
 - What can we get out of the PACS? Drs. Petrick and Ford to discuss possibilities.
 - Dr. Lisa Kinnard (from Dr. Petrick’s lab) to assist with some reading

- Pilot study to use variable PACS window settings in effort to estimate possible differences between fixed and variable (lung and soft tissue) window settings
- Pilot study to also document what settings Readers are to use moving forward
- Actual project reading to begin in February 2009
- Abstract to be prepared for RSNA 2009

Action steps

- Dr. Petrick to add project time-line to QIBA wiki for easy reference
- Dr. Petrick to draft detailed step-by-step “Reader Protocol” for group 1A discussion (Dr. Hayes volunteered to review first)
- Have discussion on whether or not to use a fixed window/level on next call or through wiki discussions