

QIBA Lung Nodule Assessment in CT Screening Writing Group

26 October 2012 at 10 AM CDT

Call Summary

In attendance:

Samuel G. Armato, III, PhD (Co-Chair)

David S. Gierada, MD (Co-Chair)

James L. Mulshine, MD (Co-Chair)

Andrew J. Buckler, MS

Philip F. Judy, PhD

Ella A. Kazerooni, MD

Michael McNitt-Gray, PhD

Reginald Munden, MD

Mathias Prokop, MD, PhD

Heidi C. Roberts, MD

RSNA:

Fiona Miller

Joe Koudelik

Madeleine McCoy

General Discussion

- Per previous Co-chair and QIBA leadership discussions, the proposed name for this new group is:
Lung Nodule Assessment in CT Screening Writing Group
- Protocol and Profile differences discussed
 - Protocol relates to a document defining a standardized vendor and imaging site acquisition process including basic quality control
 - Profile is a process engineering document describing how to achieve a certain (claimed) quantitative imaging level of performance
- Review of Group Charge:
 - Formulate an approach to accommodate the projected work scope
 - Modify the existing Advanced Disease (CT Volume Tumor Change) Profile to create a first draft of a Lung Screening Profile
 - Determine extent of groundwork needed to support Profile Claim
 - Define level of collaborative efforts needed with other Tech Cttes
- Draft of first Profile to be presented to larger QIBA Tech Ctte for review and feedback
- Analytic validation to include bias, precision (repeatability and reproducibility), and use of nodule growth/change measurement
- Mitigation strategies for sources of variability to be identified for all “actors” (i.e., equipment manufacturers, software developers, technicians, clinicians, etc)
- Claim, Process Details and Compliance comprise the main Profile sections to be addressed
- Standardized reporting mechanism suggested to help report nodule details in a consistent way
- Group consensus was to focus the initial Profile on CT screening, then broaden the scope to nodule volume estimation in the future
- Group to define meaning of lung CT “screening robustness”

Next steps

- Drs. Armato, Gierada and Mulshine to continue Profile mark-up for discussion on next t-con
- Timeline needs to be established for the various Profile tasks
- Establish a standing bi-weekly t-con schedule
- Confirm non-participant invitees continued interest
- Next call scheduled for: Friday, Nov 9th at 10 AM CST