

## QIBA CT Small Lung Nodule (SLN) Biomarker Ctte (BC) Call

20 February 2020 at 1 PM CT

Call Summary

### In attendance

*Samuel Armato, III, PhD (Co-Chair)*

*David Gierada, MD (Co-chair)*

*James Mulshine, MD (Co-Chair)*

Rick Avila, MS

Tim Hall, PhD

Kevin O'Donnell, MASc

Mario Silva, MD

### RSNA

Joe Koudelik

Julie Lisiecki

**Moderator:** Dr. Mulshine

### Introductions

- Dr. Mulshine asked everyone to provide a brief introduction and overview for Dr. Hall, QIBA Vice Chair

### CT Coordinating Committee Update (Dr. Mulshine)

- Leadership discussed the need to move Profiles forward and determine that progress is being made
- All are asked to consider avenues for funding and ways to move their respective Profiles to the next stage in an efficient and consistent manner
- Details are to be provided to QIBA Leadership by April 17<sup>th</sup>, prior to the QIBA Annual Meeting
- Special care should be taken to update the Profiles and respective [comment resolution sheets](#) and checklists
- [Profile writing guidelines](#), which may be helpful are available on the wiki
- Mr. Avila to update the SLN Profile comment resolution sheet with latest details, in the format requested by the Process Committee
- A third claim may be needed focusing on the loss of performance due to using different scanners or protocols; this detail was provided in the CT Vol Advanced Disease Profile

### Technical Confirmation Work

- Dr. Silva was able to complete feasibility testing at his site in Italy, along with two other Italian sites
- Dr. Gierada also received feasibility testing responses from a community hospital that he engaged
- Issues regarding edge enhancement to be added to the Profile Resolutions spreadsheet
- Interoperability of various systems is critical to long-term lung screening as patients must be followed for 20+ years; this was suggested as a future activity, though it is not yet reflected in the spreadsheet
- There is also a navigation issue in section 3.2 of the Profile that should be addressed
- The BC is on the cusp of technical confirmation for the Profile and has requested a BC vote to move the Profile to the Technically Confirmed Stage

### Software Conformance Work

- The team is following up with Dr. Yankelevitz regarding clinical imaging datasets for software conformance
- A faculty member at Mt. Sinai (Dr. Jirapatnakul) has been funded by the Prevent Cancer Foundation (PCF) to develop a unique image archive that may be helpful with SLN Conformance

### Medical Imaging and Technology Alliance (MITA)

- QIBA Leadership has received a response from MITA representatives regarding the 2019 meeting to discuss Profile conformance and concerns re: metrics used in the SLN Profile
- SLN BC leadership to review the response and discuss on their next call, if any follow up is needed

### Action items:

- Mr. Avila is in the process of drafting two peer-reviewed manuscripts for publication in 2020, which will demonstrate the conformance process and provide details regarding the data used to make decisions

- Mr. Avila to update the Profile comment resolution sheet with latest details, in the format requested by the Process Committee
- Mr. Avila to incorporate change log items into to resolution spreadsheet
- Mr. Avila to confer with Drs. Jirapatnakul and Silva regarding drafting an abstract for RSNA 2020
- Dr. Mulshine to update the CT Dashboard with SLN BC details prior to the QIBA Annual Meeting
  - Details will include Profile changes, field test completion, and results of the votes to move the Profile to the Technically Confirmed Stage

***QIBA CT Schedule:***

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- **02/27/2020** CT Volumetry BC call, 11 am CT
  - **03/19/2020** CT Small Lung Nodule BC call, 1 pm CT
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