

QIBA CT Volumetry Biomarker Ctte (BC) Call

23 November 2015 at 11 AM CT

Draft Call Summary

In attendance:

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

Gregory Goldmacher, MD, PhD, MBA (Co-Chair)

Andrew Buckler, MS

Kevin O'Donnell, MASC

Jim Mulshine, MD

Eric Perlman, MD

Nicholas Petrick, PhD

Marthony Robins, PhD

Ying Tang, PhD

Pierre Tervé, MS

Luduan Zhang, PhD

RSNA:

Fiona Miller

Joe Koudelik

Julie Lisiecki

Topics requested for the breakout sessions at RSNA 2015 were prioritized and discussed

State of the Profile

- Dr. Samei provided draft procedure language for using volume measuring software with a physics focus, which Mr. O'Donnell asked Dr. Boedeker to review
 - She raised a few points that may require group discussion
- If a field trial were to be arranged in the future, these procedures would figure prominently in the test
- While physics-focused, there are still questions around the claim that need resolution
 - Dr. Goldmacher asked Mr. O'Donnell to provide a brief overview in layman's language for BC members to understand and discuss options 1 and 2 for informed selection of final metrics
- Whatever metric is selected must be simple and relatable for physician use
 - 80 – 90% of physicians may not have access to medical physics support; a simple calculation tool is needed to help evaluate imaging site acquisition performance
 - Lowest common denominator, or the worst-case-scenario, may be the best indicator for clinician use, e.g., "the performance will be at least 'x' number"
 - Variables associated with clinical interpretation remain a major topic for future discussion
 - Need to determine the remaining obstacles to clinician adoption of the Profile metrics
 - Drs. Armato and Mulshine to summarize remaining claim issues for clinicians
 - Dr. Mulshine to reach out to Mr. Avila to ask him for a statistical overview, possibly a specific case
 - If Mr. Avila is not available for the breakout, Mr. Buckler to present a case based on Mr. Avila's work
 - Dr. Goldmacher to follow up with Dr. Siegelman regarding field test suggestions
- Focusing on a more complex claim that deals with soft-tissue lesions was also suggested

Remaining Bias and Linearity Questions

- Assessment procedures and image acquisition site performance:
 - What kinds of procedures should sites run?
 - Do they achieve what we hoped they'd achieve?

Action items:

- Volunteers needed for Sunday MTE sessions for coverage of the QIBA CT Volumetry poster at RSNA 2015
- Drs. Armato and Mulshine to summarize remaining claim issues for clinicians (the opening discussion during the Dec 2 QIBA breakout sessions)
- Dr. Mulshine to reach out to Mr. Avila to ask him for a statistical overview, possibly a specific case (second topic during the Dec 2 breakout session)
- If Mr. Avila is not available for the breakout, Mr. Buckler to present a case based on Mr. Avila's work
- Dr. Goldmacher to follow up with Dr. Siegelman regarding field test suggestions (third topic at the Dec 2 breakout session)

Next Call: Monday, Dec. 14th at 11 am CT | 2016 planning and review of RSNA 2015 discussions at QIBA Working Meeting