

QIBA CT Volumetry Biomarker Ctte (BC) Call

31 August 2015 at 11 AM CT

Call Summary

In attendance:

Samuel G. Armato, III, PhD (Co-Chair)
Jenifer Siegelman, MD, PhD (Co-Chair)
Maria Athelougou, PhD
Hubert Beaumont, PhD
Andrew Buckler, MS
David Gustafson, PhD

Rudresh Jarecha, MBBS, DNB, DMRE
John Lu, PhD
James Mulshine, MD
Nancy Obuchowski, PhD
Michael O'Connor, PhD
Eric Perlman, MD

Adele Peskin, PhD
Nicholas Petrick, PhD
Ehsan Samei, PhD
Ying Tang, PhD
Pierre Tervé, MS

RSNA:

Fiona Miller
Julie Lisiecki

Profile Question Re: Conformance Recommendation

- *Question:* Level at which to set the "QIBA bar" for conformance -
 - "Easier" initial conformance, with requirements increasing in complexity over time? *or*
 - "More difficult" achievement of the initial conformance standard so that it is more meaningful?

Group Discussion:

- It was determined that low-performing data should not be part of the claim
- A good number of responses were in the moderate range.
- In general:
 - Clinicians indicated willingness to sacrifice some precision in favor of moving this Profile effort forward
 - Scientists would prefer to aim for the higher numbers, if possible
- Starting point
 - Due to its unique position with its convergence of claims rooted in scientific data, it was suggested that the small nodule group for lung cancer screening would be the natural leader for the effort with a small nodule use case for CT Volumetry
 - Dr. Obuchowski is interested in more information from Mr. Avila regarding the type of data that was used to develop the claim for small nodule vs. the data for the advanced disease Profile
 - Small nodule used a 'model-based' approach
 - Advanced disease used a 'coefficient of variation' approach
 - The two methods are not directly comparable
 - The model-based approach for small nodule more closely aligns with the middle group
 - The tighter the claim is, the better the clinical utility will be

Next Steps:

- Co-chairs and Dr. Obuchowski to plug in middle-number ranges to determine claim numbers
- Dr. Siegelman to anonymize and forward responses to conformance question for distribution

Action items

- CT Volumetry Leadership Recommendation re: conformance requirements (Drs. Siegelman, Armato, Goldmacher)
- Revised vendor physics assessment procedure - (Drs. Boedeker and Samei, Mr. O'Donnell)
- Invite project PIs for upcoming presentations to the BC - (Dr. Goldmacher)

Next Call:

- **Sept 21st:** Continuation of CT Volumetry Conformance Recommendation
- Other topics: Progress / future planning for the Profile, RSNA 2015 QIBA poster, BC topics for the fall