

QIBA CT Angiography Biomarker Committee (BC) Call

11 October 2022 at 11 AM CT

Call Summary

In Attendance

Andrew Buckler, MS (Co-Chair)

Prof Stephan Achenbach, MD, FSCCT

Julius L. Decano, MD

James Kevin DeMarco, MD

Márton Kolossváry, PhD

Mathis Konrad, MSc

Hugo Marques, MD, PhD

James Mulshine, MD

Nancy Obuchowski, PhD

Renu Virmani, MD

RSNA Staff

Joe Koudelik

Julie Lisiecki

Moderator: Andrew Buckler, MS

Discussion topics:

- Overview of QIBA Profile development process
- Review of Profile edits made
- Planning for Clinical Feasibility Testing

Profile edits reviewed:

- Rephrase the minimal disease reference
 - Included a more explicit exclusion of the healthy tissue, e.g., the volume and the plaque burden, excluding minimally diseased tissues
- Introduced the use of catheter-based imaging methods in terms of total atheroma volume (TAV) and percent atheroma volume (PAV).
- Peri-vascular or peri-coronary elevated from footnote to main body
- Add objective peri-vascular measures for a coronary adipose tissue in systems, international units, rather than arbitrary ones, or calibrated scores or indices; claims for this will be added as data allows
- Radiomics-based methodologies – need to add citations
- Include idea of multi-parametric quantitative imaging (multi-variate biomarker)
 - One of the use cases was for data-driven imaging markers
- Addition of a reference device
- Link provided by Dr. Mulshine regarding FDA Medical Device Development Tools:
<https://www.fda.gov/medical-devices/medical-device-development-tools-mddt>

Decisions / Action items (some ongoing):

- Would like 2 sites with coronary expertise and 2 with carotid expertise to do feasibility testing (advancement to Stage 3)
 - Drs. Kolossváry and Marques (coronary) expertise
 - Dr. DeMarco (carotid expertise)
- [Mr. Buckler](#) to update and distribute checklist in Excel spreadsheet format
- [Mr. Buckler](#) to share details re: Metrology articles
- Discussion of the field test (feasibility of the Profile) planned for the next call
- Questions or comments regarding the Profile may be directed to: [Mr. Buckler](#) and Drs. [Saba](#) and [Schoepf](#).

Links for more information:

- [Profile Stages](#) | [CTA Profile \(March 2020 version\)](#) | [Public Comment Resolution Page](#)
- http://qibawiki.rsna.org/index.php/CT_Angiography_Biomarker_Ctte

Next call: Tuesday, Oct 25th at 11 am CT

Upcoming calls: 10/25, ~~11/15~~ (Calls will resume after the RSNA Annual Meeting)