The Road to QIBA Profile Conformance

Quantitative Imaging Biomarkers Alliance **RSNA**

Consensus Profiles & Confirmed Profiles

i These documents can be found on the QIBA Wiki

- FDG-PET: Solid Tumor SUV
- MR: Lesions in four organs ADC-DW MR
- CT: Lung Tumor Volume (Adv Disease)
- CT: Small Lung Nodule in CT Screening

Pilots Under Development

Pilot In Use

Self Attestation of Profile Conformance

QIBA or Designee Tests for Conformance
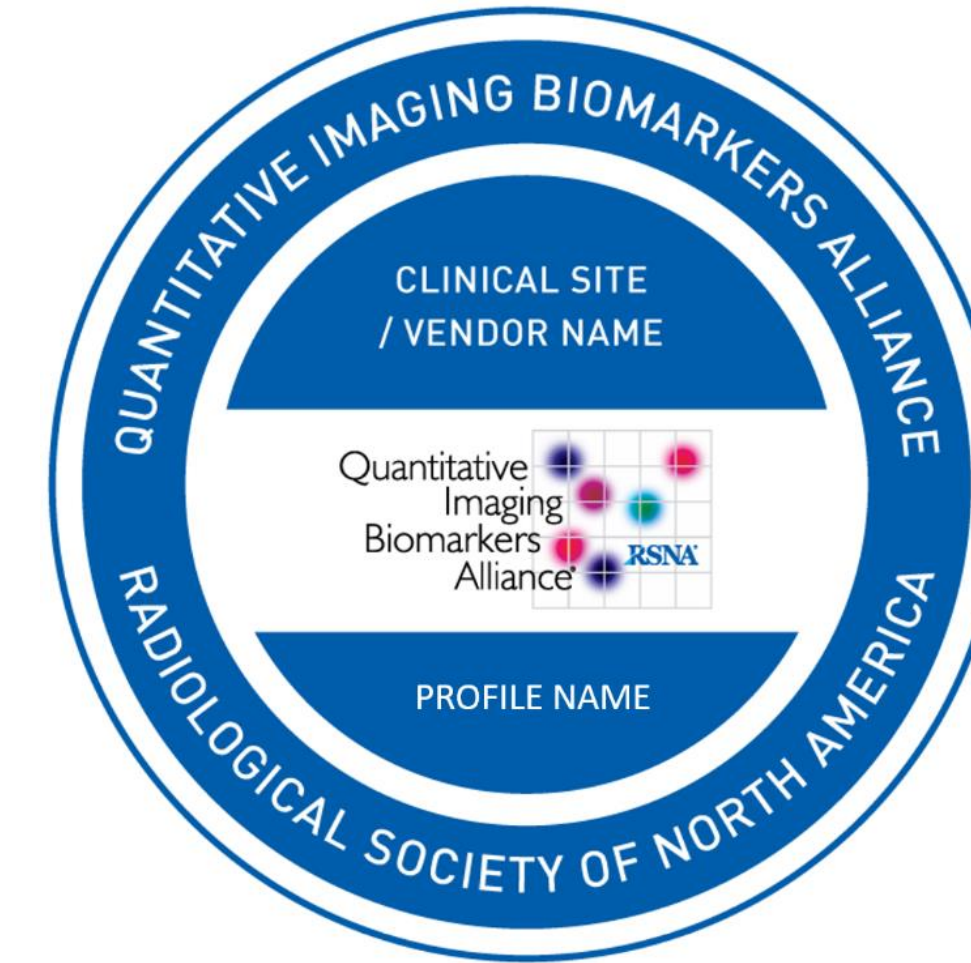
✓ QIBA Profile checklist for the relevant actors
✓ Instructions on potential phantom and / or DRO tests
✓ Report template to confirm successful conformance test

QIBA Review of Report

Report Review by Testing Service

QIBA Registered

QIBA Certified

QUANTITATIVE IMAGING BIOMARKERS ALLIANCE

CLINICAL SITE / VENDOR NAME

Quantitative Imaging Biomarkers Alliance **RSNA**

PROFILE NAME

RADIOLOGICAL SOCIETY OF NORTH AMERICA

QIBA® Conformance Certification Mark

Value

- Confidence in Analysis Tools
- Confidence in Scanner Performance
- Harmonized data across time
- Harmonized data across sites

Robust Quantitative Data for Clinical Trials & Clinical Practice

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Our Pilots

SUV – FDG PET (for Solid Tumor Imaging):

The Profile claims that if FDG-PET/CT images are acquired with compliant equipment and procedures, the test-retest coefficient of variation of SUV_{MAX} is 10-12%. An equivalent statement is that if the second scan has an increase of +39% or more, or a decrease of -28% or more, then a true change in SUV_{MAX} has occurred with a 95% level of confidence.

Volume – CT (Tumor Advanced Disease):

The Profile improves the repeatability of tumor volume measurements in the thorax; for example, a measured 24% increase provides 95% confidence of progression for 50-100mm tumors.

ADC – DWI MR:

The DWI Profile assesses longitudinal change in tissue microstructure in response to therapy in brain, liver, breast, and prostate by providing knowledge of the expected variance of measurement of the apparent diffusion coefficient.

We are looking for Early Adopters

Are you one of the following and interested?

- Clinical Site
- CRO
- Equipment Vendor
- Software Vendor

Please contact: QIBA@rsna.org

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