

QIBA and QI/ Imaging Biomarkers in the Literature

Articles are divided into two categories:

1. Articles that are generated by Quantitative Imaging Biomarkers Alliance (QIBA) research teams
2. Articles that reference QIBA

If available, links are provided to PubMed or journal landing pages.

I. QIBA-GENERATED ARTICLES

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2015

QIBA Metrology Papers

1. Sullivan DC, Obuchowski NA, Kessler LG, et al. **Metrology Standards for Quantitative Imaging Biomarkers.** *Radiology*. 2015 Aug 12. Epub ahead of print. doi: 10.1148/radiol.2015142202. [Link to article.](#)
2. Buckler A. **Inter-method Performance Study of Tumor Volumetry Assessment on Computed Tomography Test-retest Data.** *Academic Radiology*. Published online: September 13, 2015. <http://dx.doi.org/10.1016/j.acra.2015.08.007>
3. Deng Y, Rouze NC, Palmeri ML, Nightingale KR. **System-dependent sources of uncertainty and bias in quantitative shear-wave imaging.** *Ultrasonic Imaging and Tissue Characterization Symposium, Arlington, VA*. June 22 – 24, 2015. [Link to abstracts.](#)
4. Hall TJ, Palmeri M, Carson P, Milkowski, A, Chen S, Lynch T, et al. **Comparison of shear-wave speed estimates among commercial ultrasound systems with liver-mimicking phantoms.** *Ultrasonic Imaging and Tissue Characterization Symposium, Arlington, VA*. June 22 – 24, 2015. [Link to abstracts.](#)
5. Mulshine JL, Gierada DS, Armato SG 3rd, Avila RS, Yankelevitz DF, Kazerooni EA, McNitt-Gray MF, Buckler AJ, Sullivan DC. **Role of the Quantitative Imaging Biomarker Alliance in optimizing CT for the evaluation of lung cancer screen-detected nodules.** *J Am Coll Radiol*. 2015 Apr;12(4):390-5. doi: [10.1016/j.jacr.2014.12.003](http://dx.doi.org/10.1016/j.jacr.2014.12.003).
6. Pierce LA, Elston BF, Clunie DA, Nelson D, Kinahan PE. **A Digital Reference Object to Analyze Calculation Accuracy of PET Standardized Uptake Value.** *Radiology*. 2015 May 19. doi: <http://dx.doi.org/10.1148/radiol.2015141262>
7. Quak E, Le Roux PY, Hofman MS, et al. **Harmonizing FDG PET quantification while maintaining optimal lesion detection: prospective multicentre validation in 517 oncology patients.** *Eur J Nucl Med Mol Imaging*. 2015 Jul 30. Epub ahead of print. [PubMed Citation.](#) [Link to article.](#)

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QIBA Metrology Papers

1. Sullivan DC, Bresolin L, Seto B, Obuchowski NA, Raunig DL, Kessler LG. **Introduction to metrology series.** *Stat Methods Med Res*. 2015 Feb;24(1):3 – 8. doi: 10.1177/0962280214537332. [PubMed Citation](#)

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 3. Kessler LG, Barnhart HX, Buckler AJ, Choudhury KR, Kondratovich MV, Toledano A, Guimaraes AR, Filice R, Zhang Z, Sullivan DC. [Introduction to Metrology Series: The Emerging Science of Quantitative Imaging Biomarkers: Terminology and Definitions for Scientific Studies and Regulatory Submissions](#). *Statistical Methods in Medical Research*. June 2014; pii: 0962280214537333. [Epub ahead of print] first published online 11 June 2014. doi: 10.1177/0962280214537333 [PubMed Citation](#)
 4. Obuchowski NA, Reeves AP, Huang EP, Wang XF, Buckler AJ, Kim HJ, Barnhart HX, Jackson EF, Giger ML, Pennello G, Toledano AY, Kalpathy-Cramer J, Apanasovich TV, Kinahan PE, Myers KJ, Goldgof DB, Barboriak DP, Gillies RJ, Schwartz LH, Sullivan DC. [Introduction to Metrology Series: Quantitative Imaging Biomarkers: A Review of Statistical Methods for Computer Algorithm Comparisons](#). *Statistical Methods in Medical Research*. June 2014; pii: 0962280214537390. [Epub ahead of print] first published online June 11, 2014. doi:10.1177/0962280214537390 [PubMed Citation](#)
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7. Huang W, Li X, Chen Y, Chang MC, et. al., **Variations of Dynamic Contrast-Enhanced Magnetic Resonance Imaging in Evaluation of Breast Cancer Therapy Response: A Multicenter Data Analysis Challenge**. *Translational Oncology*, in press
 8. Kinahan PE, Wahl RL, Shao LX, Frank RA, Perlman ES. [Oncology: Basic, Translational & Therapy, MTA I: Technical Advances & Quantification Posters: The QIBA Profile for Quantitative FDG-PET/CT Oncology Imaging](#). *J Nucl Med*. 2014; 55 (Supplement 1):1520.
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II. ARTICLES THAT REFERENCE QIBA

40. 2015

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