

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. 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.](#)
3. 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.](#)
4. 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).
5. 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>
6. 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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[Epub ahead of print] *first published online May 28, 2014.* doi: 10.1177/0962280214537394 [PubMed Citation](#)

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5. Obuchowski NA, Barnhart HX, Buckler AJ, Pennello G, Wang XF, Kalpathy-Cramer J, Kim HJ, Reeves AP. [Introduction to Metrology Series: Statistical Issues in the Comparison of Quantitative Imaging Biomarker Algorithms using Pulmonary Nodule Volume as an Example.](#) *Statistical Methods in Medical Research.* June 11, 2014: pii: 0962280214537392. [Epub ahead of print] *first published online June 11, 2014.* doi:10.1177/0962280214537392 [PubMed Citation](#)
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20. Kinahan P, Pierce L, Elston B, Nelson D, Clunie D. **PET/CT Digital Reference Object.** [PET/CT DRO User Guide](#) *Not yet published. Publication of design methodology and results is planned for the future.*
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II. ARTICLES THAT REFERENCE QIBA

40. 2015

- Abramson, RG, Burton, KR, Yu, JP, Scalzetti, EM, Yankeelov, TE, Rosenkrantz, AB, Mendiratta-Lala, M, Bartholmai, BJ, Ganeshan, D, Lenchik, L, Subramaniam, RM. **Methods and Challenges in Quantitative Imaging Biomarker Development.** *Acad Radiol*, 22(1), 25-32, 2015. [doi: 10.1016/j.acra.2014.09.001](https://doi.org/10.1016/j.acra.2014.09.001).
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