John M. Boone

Clinical/Research Interests
Dr. Boone has studied various aspects of breast imaging, including breast cancer screening, diagnosis and therapy, for nearly two decades. For the past decade, Dr. Boone's laboratory has focused on the assessment of dedicated computed tomography (CT) for breast imaging. Two breast CT scanners have been designed and deployed, with nearly 300 patients imaged in total. Dr. Boone is also interested in whole-body CT imaging, and currently chairs the International Committee on Radiological Units Committee on Computed Tomography.

Title
Professor, Vice Chair of Research, Radiology

Specialty
Radiology Physics, Radiology, Cancer

Center/Program Affiliation
UC Davis Comprehensive Cancer Center

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Education
UC Irvine, Irvine, California, Ph.D., 1985
UC Irvine, Irvine, California, M.S., 1981
UC Berkeley, Berkeley, California, B.A., 1979

Fellowships
Health Care Affiliates, Inc., Laguna Hills, California, 1983-1985,

Board Certifications
American Board of Radiology, Diagnostic Radiological Physics, 1988

Professional Memberships
American Association for the Advancement of Science
American Association of Physicists in Medicine (Fellow)
American College of Radiology (Fellow)
Society of Breast Imaging (Fellow)
The International Society for Optical Engineering (SPIE)

Select Recent Publications

McCollough CH, Leng S, Yu L, Cody DD, Boone JM, McNitt-Gray MF. CT dose index and patient dose: they are not the same thing. Radiology. 2011 May;259(2):311-6.

McKenney SE, Nosratieh A, Gelskey D, yang K, Huang SY, Chen L, Boone JM. Experimental validation of a method characterizing bow tie filters in CT scanners using a real-time dose probe. Med Phys. 2011 Mar;38(3):1406-15.

Huang SY, Boone JM, Yang K, Packard NJ, McKenney SE, Prionas ND, Lindfors KK, Yaffee MJ. The

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characterization of breast anatomical metrics using dedicated breast CT. Med Phys. 2011 Apr;38 (4):2180-91.

Kalender WA, Beister M, boone JM, Kolditz D, Vollmar SV, Weigel MC. High-resolution spiral CT of the breast at very low dose: concept and feasibility considerations. Eur Radiol 2011 Jun 9.

Prionas ND, Huang Sy, Boone JM. Experimentally determined spectral optimization for dedicated breast computed tomography. Med Phys. 2011 Feb;38(2):646-55.

Chamie K, Kurzrock EA, Evans CP, Litwin MS, Koppie TM, Wootton-Gorges SL, Boone JM, Lara PN Jr., Devere White RW. Secondary malignancies among nonseminomatous germ cell tumor cancer survivors. Cancer 2011 Mar 15.

Lam D, Wootton-Gorges SL, McGahan JP, Stern R, Boone JM. Abdominal pediatric cancer surveillance using serial computer tomography: evaluation of organ absorbed dose and effective dose. Semin Oncol. 2011 Feb;38(1):128-35.

Prionas ND, Gillen MA, Boone JM. Longitudinal volume analysis from computed tomography: Reproductibility usiing adrenal glands as surrogate tumors. J Med Phys. 2010 Jul;35(3):174-80.

Lindfors KK, Boone JM, Newell MS, D'Orsi CJ. Dedicated breast computed tomography: the optimal cross-sectional imaging solution? Radiol Clin North Am. 2010 Sep;48(5):1043-54.

Yang K, Huang Sy, Packard NJ, Boone JM. Noise variance analysis using a flat panel x-ray detctor: a method for additive noise assessment with application to breast CT applications. Med Phys. 2010 Jul;37(7):3527-37.

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