



James Anthony Seibert, Ph.D.

Clinical Interests	Dr. Seibert's clinical interests are directly related to radiological imaging. He specializes in radiation dose metrics for ionizing radiation examinations for monitoring, tracking and reporting of patient encounters and radiation doses, and provides oversight of the UC Davis Health Quality Control program for imaging devices at the Medical Center and the Primary Care Network.
Research/Academic Interests	Dr. Seibert's research focus is medical physics as applied to diagnostic imaging with emphasis on implementation and validation of digital techniques and quantitative applications in x-ray fluorography, projection imaging, mammography, CT, radiation dose, and imaging informatics to improve medical diagnosis and patient safety.
Title	Professor
Specialty	Medical Physics
Department	Radiology
Division	Radiology Physics
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Email	jaseibert@ucdavis.edu
Education	Ph.D., UC Irvine, Irvine CA 1983 B.A., UC Irvine, Irvine CA 1977 M.S., UC Irvine, Irvine CA 1981 B.S., UC Irvine, Irvine CA 1977
Board Certifications	American Board of Imaging Informatics - Certified Imaging Informatics Professional, 2017 American Board of Radiology, Diagnostic Medical Physics (Continuous Maintenance of Certification) American Board of Radiology, Diagnostic Radiological Physics American Board of Radiology, Therapeutic Radiological Physics, 1986
Professional Memberships	American Association of Physicists in Medicine



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Honors and Awards

American College of Radiology
National Council on Radiation Protection and Measurements
Radiological Society of North America
Society for Imaging Informatics in Medicine
Gold Medal, Radiological Society of North America, 2019
International Organization of Medical Physics Fellow, 2019
National Council on Radiation Protection and Measurements Council Member, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019
Lifetime Achievement Award, Upstate New York Association of Physicists in Medicine, 2018
American Board of Radiology Governor, 2017, 2018, 2019
Trustee (Medical Physics), American Board of Radiology, 2013, 2014, 2015, 2016, 2017
American Board of Imaging Informatics - Chairman 2012, 2013, 2014
American Association of Physicists in Medicine - President 2010, 2011, 2012
Radiological Society of North America - Third Vice-President, 2008
Society for Imaging Informatics in Medicine - Chairman 2004, 2005, 2006
Society for Imaging Informatics in Medicine - Fellow, 2009
American College of Radiology - Fellow, 2009
American Association of Physicists in Medicine - Fellow, 1999

Select Recent Publications

Seibert, JA. Projection X-ray Imaging: Radiography, Mammography, Fluoroscopy. *Health Physics*. 2019 Feb;116(2):148-156. doi:10.1097/HP.0000000000001028. PMID:30585956.

Smith-Bindman, R, Wang, Y, Chu, P, Chung, R, Einstein, AJ, Balcombe, J, Cocker, M, Das, M, Delman, BN, Flynn, M, Gould, R, Lee, RK, Yellen-Nelson, T, Schindera, S, Seibert, A, Starkey, J, Suntharalingam, S, Wetter, A, Wildberger, JE, Miglioretti, DL. International variation in radiation dose for computed tomography examinations: prospective cohort study. *BMJ*. 2019 Jan 2;364:k4931. doi:10.1136/bmj.k4931. PMID:30602590.

Seibert JA, Morin RL. Patient Dose Monitoring and Focus on Nuclear Medicine Imaging Examinations. *J Am Coll Radiol*. 2018 Jan;15(1 Pt A):88-89. doi:10.1016/j.jacr.2017.07.004. Epub 2017 Aug 19. PMID:28826958.



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Boone JM, Hernandez AM, Seibert JA. Two-dimensional breast dosimetry improved using three-dimensional breast image data. *Radiol Phys Technol*. 2017 Jun;10(2):129-141. doi:10.1007/s12194-017-0404-7. Epub 2017 Jun 1. PMID:28573551.

Demb J, Chu P, Nelson T, Hall D, Seibert A, Lamba R, Boone J, Krishnam M, Cagnon C, Bostani M, Gould R, Miglioretti D, Smith-Bindman R. Optimizing Radiation Doses for Computed Tomography Across Institutions: Dose Auditing and Best Practices. *JAMA Intern Med*. 2017 Jun 1;177(6):810-817. doi:10.1001/jamainternmed.2017.0445. PMID:28395000.

Smith-Bindman R, Wang Y, Yellen-Nelson TR, Moghadassi M, Wilson N, Gould R, Seibert A, Boone JM, Krishnam M, Lamba R, Hall DJ, Miglioretti DL. Predictors of CT Radiation Dose and Their Effect on Patient Care: A Comprehensive Analysis Using Automated Data. *Radiology*. 2017 Jan;282(1):182-193. doi:10.1148/radiol.2016151391. Epub 2016 Jul 20. PMID:27438166.

Seibert JA, Clements JB, Halvorsen PH, Herman MG, Martin MC, Palta J, Pfeiffer DE, Pizzutiello RJ Jr, Schueler BA, Shepard SJ, Fairbent LA. AAPM Medical Physics Practice Guideline 3.a: Levels of supervision for medical physicists in clinical training. *J Appl Clin Med Phys*. 2015;16(3):5293.

Smith-Bindman R, Moghadassi M, Wilson N, Nelson TR, Boone JM, Cagnon CH, Gould R, Hall DJ, Krishnam M, Lamba R, McNitt-Gray M, Seibert A, Miglioretti DL. Radiation Doses in Consecutive CT Examinations from Five University of California Medical Centers. *Radiology*. 2015 Oct;277(1):134-41. doi:10.1148/radiol.2015142728. Epub 2015 May 19. PMID:25988262.

Boone JM, Mahesh M, Gingold EL, Seibert JA. A Call for the Structured Physicist Report. *J Am Coll Radiol*. 2016 Mar;13(3):307-9. doi:10.1016/j.jacr.2015.12.016. PMID:26944038.

Hernandez AM, Seibert JA, Boone JM. Breast dose in mammography is about 30% lower when realistic heterogeneous glandular distributions are considered. *Med Phys*. 2015 Nov;42(11):6337-48. doi:10.1118/1.4931966. PMID:26520725.



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