

Curriculum Vitae

ERIC A. BERNS, PhD, FACR

Current Position: Diagnostic Medical Physicist
Alpine Medical Physics, LLC

Education:

Ph.D. in Radiological Physics – 2001
Department of Radiological Health Sciences
College of Veterinary Medicine and Biomedical Sciences, Colorado State University

Clinical Residency in Medical Physics - 1996 – 1997
Department of Radiology, University Hospital
University of Colorado Health Sciences Center

Master of Science in Health Physics - 1996
Comparative Oncology Unit, Department of Radiological Health Sciences
College of Veterinary Medicine and Biomedical Sciences, Colorado State University

Bachelor of Science in Engineering Science - 1992
Specialization in Bioengineering
College of Engineering, Colorado State University

Current Employment:

Diagnostic Medical Physicist - Alpine Medical Physics, LLC

Professional Activities:

NMQAAC – **Member**, National Mammography Quality Assurance Advisory Committee, Department of Health and Human Services, US Food and Drug Administration
AAPM – **Member**, Breast X-Ray Imaging Subcommittee
ACR – **Member**, Subcommittee on Breast X-Ray Imaging Physics – Committee on Mammography Accreditation of the Commission on Quality and Safety

Certifications:

Board Certified in Diagnostic Radiological Physics – American Board of Radiology

Committee Publications:

Berns, EA, Pfeiffer DE, Butler PF, et al. 2018 Digital Mammography Quality Control Manual. Reston, VA: American College of Radiology; 2018.

Berns, EA, Baker JA, Barke LD, et al. 2016 Digital Mammography Quality Control Manual. Reston, VA: American College of Radiology; 2016.

ACR-AAPM-SIIM Practice Guideline for Determinants of Image Quality in Digital Mammography. Co-Chairs: Kalpana Kanal, PhD and Elizabeth Krupinski PhD. Eric Berns – ACR Member Representative and Comments Reconciliation Committee. October 1, 2012

Peer-Reviewed Publications:

Hendrick RE, Pisano ED, Averbukh A, Moran C, Berns EA, Yaffe MJ, Herman B, Acharyya S, Gatsonis C. Comparison of Acquisition Parameters and Breast Dose in Digital Mammography and Screen-Film Mammography in the American College of Radiology Imaging Network Digital Mammographic Imaging Screening Trial. *American Journal of Roentgenology*. February 2010;194:362-369

Jackson SL, Taplin SH, Sickles EA, Abraham L, Barlow WE, Carney PA, Geller B, Berns EA, Cutter GR, Elmore JG. Variability of Interpretive Accuracy Among Diagnostic Mammography Facilities. *Journal of the National Cancer Institute*. June 2009; Vol. 101, Issue 11, Pages 814-827.

Fenton JJ, Taplin SH, Carney PA, Abraham L, Sickles EA, D'Orsi C, Berns EA, Cutter GC, Hendrick RE, Barlow WE, Elmore JG. Influence of Computer-Aided Detection on Screening Mammography Performance. *New England Journal of Medicine*. April 2007; Vol. 356, No. 14, Pages 1-11.

Smathers RL, Wright A, Boone J, Lee L, Berns EA. Augmentation Mammography: Radiation Dose Reduction. *American Journal of Roentgenology*. May 2007; 188.

Berns EA, Hendrick RE, Solari M, Barke LD, Reddy D, Wolfman JA, Segal L, DeLeon P, Benjamin S, Willis L. Digital and Screen-Film Mammography: Comparison of Image Acquisition and Interpretation Times. *American Journal of Roentgenology*. July 2006; 187:38-41

Berns EA. Quality Control for Technologists in Digital Mammography. *Seminars in Breast Disease: Radiologic, Pathologic and Surgical Considerations*. Volume 8, Issue 4, Pages 192-197. December 2005.

D'Orsi C, Tu SP, Nakano C, Carney PA, Abraham LA, Taplin SH, Hendrick RE, Cutter GR, Berns E, Barlow WE, Elmore JG. Current realities of delivering mammography services in the community: Do challenges with staffing and scheduling exist? *Radiology*, 2005; 235: 391-395

Hendrick RE, Cutter G, Berns E, Nakano C, Egger J, Carney PA, Abraham L Taplin SH, D'Orsi C, Barlow WE, Elmore JG. Community-based screening mammography practice: Services, charges and interpretation methods. *American Journal of Roentgenology*. Feb 2005; 84: 433-438

Berns EA, Hendrick RE, Cutter GC. "Optimization of Technique Factors for a Silicon Diode Array Full-field Digital Mammography System and Comparison to Screen-film Mammography with Matched Average Glandular Dose". *Medical Physics*. 30 (3), March 2003

Berns EA, Hendrick RE, Cutter GC. "Performance Comparison of Full-Field Digital Mammography to Screen-Film Mammography in Clinical Practice". *Medical Physics*. 29 (5), May 2002.

Martin MJ, Kraft M, Hong WC, Berns EA, Cassell GH. "A Link Between Chronic Asthma and Chronic Infection". *Journal of Allergy and Clinical Immunology*, Volume 107 (4), April 2001, Pages 595-601.

Book Chapters:

Berns EA. "Mammography and Digital Equipment". *Breast Imaging 3rd Edition*, Larry Bassett, Sophia Apple, Mary Mahoney, and Carl D'Orsi. Elsevier Publishing, November 2010.

Hendrick RE, Berns EA. "Artifacts: Mammography, Analog". *Diagnostic Imaging: Breast*. Berg WA, Birdwell, RL, Amirsys Publishing, December 2006.

Hendrick RE, Berns EA. "Artifacts: Mammography, Digital". Diagnostic Imaging: Breast. Berg WA, Birdwell, RL, Amirsys Publishing, December 2006.

Hendrick RE, Berns EA. "Quality Control in Digital Mammography". Quality Assurance – Society for Computer Applications in Radiology. SCAR University Primer 3. April 2002.

Hendrick RE, Berns EA. "Optimizing the Selection of Film and Film Processing in Screen-Film Imaging." Advances in Film Processing Systems Technology and Quality Control in Medical Imaging, Medical Physics Publishing, December 2000.

Hendrick RE, Berns EA. "Optimizing Techniques In Screen-Film Mammography." Radiological Clinics of North America, Volume 38, Number 4, July 2000.

Hendrick RE, Berns EA. Optimizing Mammographic Techniques. RSNA AAPM syllabus on technological innovation in breast imaging - 1999.

Non-Peer Reviewed Publications:

Hendrick RE, Berns EA. "Image Quality, Dose, and Quality Control in Digital Mammography". Society of Breast Imaging 5th Postgraduate Course, May 2001.