

Curriculum Vitae

ERIC A. BERNS, PhD, FACR

Current Position: Associate Professor, Radiation Safety Officer and Diagnostic Medical Physicist
Department of Radiology
University of Colorado School of Medicine
Denver Health Medical Center
777 Bannock Street, MailCode 0024
Denver, CO 80204

Education:

Ph.D. in Radiological Physics

Department of Radiological Health Sciences
College of Veterinary Medicine and Biomedical Sciences, Colorado State University

Clinical Residency in Medical Physics

Department of Radiology, University Hospital
University of Colorado Health Sciences Center

Master of Science in Health Physics

Comparative Oncology Unit, Department of Radiological Health Sciences
College of Veterinary Medicine and Biomedical Sciences, Colorado State University

Bachelor of Science in Engineering Science

Specialization in Bioengineering
College of Engineering, Colorado State University

Current Employment:

Associate Professor, Department of Radiology
University of Colorado School of Medicine

Diagnostic Medical Physicist and Radiation Safety Officer, Department of Radiology,
Denver Health Medical Center

Previous Employment:

At University of Colorado School of Medicine

Assistant Professor, Department of Radiology

At Northwestern University Medical School

Director of Diagnostic Medical Physics, Department of Radiology,
Research Assistant Professor, Department of Radiology, Breast Imaging Section,
Instructor, Department of Radiology, Breast Imaging Section

At University of Colorado Health Sciences Center, Department of Radiology

Instructor, Division of Radiological Sciences
Professional Research Assistant, Division of Radiological Sciences
Resident in Medical Physics, Division of Radiological Sciences

At Colorado State University

Graduate Research Assistant, Department of Radiological Health Sciences
Research Assistant, Department of Radiological Health Sciences

Professional Activities:

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

Certifications:

Board Certified in Diagnostic Radiological Physics – American Board of Radiology
FDA Full-Field Digital Mammography – Qualified Medical Physicist
MQSA Mammography-qualified Medical Physicist

Committee Publications:

Berns, EA, Baker JA, Barke LD, et al. ACR 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

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.