



Robin Stern, Ph.D.

Clinical Interests	<p>Dr. Stern is a medical physicist with broad clinical interest in radiation oncology treatment and treatment planning. While supporting all treatment modalities, she specializes in brachy therapy, both high-dose and low-dose-rate CLDRJ, and intra-cranial and body stereotactic treatment using both Gamma Knife and linear accelerator systems.</p> <p>She is particularly interested in improving patient safety through the use of quality assurance/quality control/quality improvement tools and methodologies.</p>
Title	Technical Director Professor
Specialty	Cancer, Radiation Oncology
Department	Radiation Oncology
Division	Radiation Oncology
Center/Program Affiliation	UC Davis Comprehensive Cancer Center
Address/Phone	UC Davis Comprehensive Cancer Center, 4501 X St. Sacramento, CA 95817 Phone: 800-362-5566
Additional Phone	Physician Referrals: 800-4-UCDAVIS (800-482-3284)
Education	Ph.D., University of Michigan, Ann Arbor MI 1987 B.A., Rice University, Houston TX 1981 M.S., University of Michigan, Ann Arbor MI 1984
Fellowships	Duke University, Durham NC 1987-1989 University of Michigan, Ann Arbor MI 1989-1991
Board Certifications	American Board of Radiology, 1997
Professional Memberships	American Association of Physicists in Medicine American College of Radiology American Society of Therapeutic Radiology and Oncology San Francisco Bay Area Chapter, American Association of Physicists in Medicine
Honors and Awards	Fellow, American Association of Physicists in Medicine, 2007 Who's Who in America, 2005



Robin Stern, Ph.D.

Select Recent Publications

Fong de Los Santos LE, Evans S, Ford EC, Gaiser JE, Hayden SE, Huffman KE, Johnson JL, Mechalakos JG, Stern RL, Terezakis S, Thomadsen BR, Pronovost PJ, Fairbent LA. Medical Physics Practice Guideline 4.a: Development, implementation, use and maintenance of safety checklists. *J Appl Clin Med Phys*. 2015 May 8;16(3):5431.

Mayadev J, Dieterich S, Harse R, Lentz S, Mathai M, Boddu S, Kern M, Courquin J, Stern RL. A failure modes and effects analysis study for gynecologic high-dose-rate brachytherapy. *Brachytherapy*. 2015 Nov-Dec;14(6):866-75.

Daly ME, Chen AM, Mayadev JS, Stern RL. Enhanced surface dose via fine brass mesh for a complex skin cancer of the head and neck: report of a technique. *Pract Radiat Oncol*. 2015 Jan-Feb;5(1):16-20.

Perks JR, Stanic S, Stern RL, Henk B, Nelson MS, Harse RD, Mathai M, Purdy JA, Valicenti RK, Siefkin AD, Chen AM. Failure mode and effect analysis for delivery of lung stereotactic body radiation therapy. *Int J Radiat Oncol Biol Phys*. 2012 Jul 15;83(4):1324-9.

Stanic S, Franklin SD, Pappas CT, Stern RL. Gamma knife radiosurgery for recurrent glossopharyngeal neuralgia after microvascular decompression. *Stereotact Funct Neurosurg*. 2012; 90(3):188-91.

Stern RL, Heaton R, Fraser MW, Goddu SM, Kirby TH, Lam KL, Molineu A, Zhu TC; AAPM Task Group 114. Verification of monitor unit calculations for non-IMRT clinical radiotherapy: report of AAPM Task Group 114. *Med Phys*. 2011 Jan;38(1):504-30.

Stern RL, Liu T. Dwell position inaccuracy in the Varian GammaMed HDR ring applicator. *J Appl Clin Med Phys*. 2010 Sep 7;11(4):3158.

Siochi RA, Balter P, Bloch CD, Bushe HS, Mayo CS, Curran BH, Feng W, Kagadis GC, Kirby TH,



Robin Stern, Ph.D.

Stern RL. Information technology resource management in radiation oncology. *J Appl Clin Med Phys.* 2009 Sep; 2;10(4):3116.

Stern RL, Perks JR, Pappas CT, Boggan JE, Chen AY. The option of linac-based radiosurgery in a Gamma Knife radiosurgery center. *Clin Neurol Neurosurg.* 2008;110: 968-972.

A.W. Lightstone, S.H. Benedict, F.J. Bova, T.D. Solberg, R.L. Stern. Intracranial Stereotactic Positioning Systems: Report of the American Association of Physicists in Medicine Radiation Therapy Committee Task Group No. 68. *Med Phys.* 2005;32: 2380-2398.

© 2017 UC Regents