



Jyoti Mayadev, M.D.

Philosophy of Care Dr. Mayadev believes in providing each patient with the most comprehensive cancer care in a supportive and compassionate environment. Her multidisciplinary approach to treatment focuses on the patient in a team oriented setting.

Clinical Interests Dr. Mayadev has a clinical focus on the treatment of breast and gynecologic malignancies. She specializes in various radiotherapy techniques including intensity modulated radiation therapy (IMRT), image guided radiation therapy (IGRT), and high dose rate brachytherapy and is specifically interested in using technical advances to improve the clinical delivery and side effect profile of radiation therapy. Mayadev's research interests focus on the investigation of novel imaging techniques to improve the delivery of radiation treatments. In addition, she has a keen interest in studying the technical delivery of high dose rate brachytherapy to an effort to spare normal tissue toxicity.

Title Assistant Professor

Specialty [Cancer, Radiation Oncology](#)

Department Radiation Oncology

Division Radiation Oncology

Clinic UC Davis Cancer Center

Center/Program Affiliation [UC Davis Comprehensive Cancer Center](#)

Address/Phone UC Davis Comprehensive Cancer Center, 4501 X St. G-140 Sacramento, CA 95817
Phone: 800-362-5566

Additional Phone Physician Referrals: 800-362-5566

Languages Spanish

Education M.D., Case Western Reserve University School of Medicine, Cleveland, Ohio, 2004
B.A., Case Western Reserve University, Cleveland, Ohio, 2000

Internships Providence Portland Medical Center, Portland , OR, 2004-05

Residency University of Washington Medical Center, Seattle, WA, 2008-09
University of Washington Medical School, Seattle, Washington, 2009



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Board Certifications American Board of Radiology, 2010
Medical Board of California, 2009

Professional Memberships American Association of Physicians of Indian Origin
American Brachytherapy Society
American Society of Therapeutic Radiology and Oncology
Children's Oncology Group
Gynecologic Oncology Group
Physicians for Human Rights
Radiological Society of North America

Honors and Awards Selected UCD faculty delegate attendee to AAMC Early Women's Career Development Seminar, 2011
University of California, Davis, School of Medicine Mentor, Medical Student Research Fellowship Award, 2011
University of California, Davis, School of Medicine Mentor, Medical Student Research Fellowship Award, 2010
Merit award for poster presentation at ASCO meeting October 2010, 2010
Providence Portland Medical Center, International Aid Grant, Mental Health Workers to Counsel Women of Domestic and Sexual Abuse in Rural El Salvador, 2005

Select Recent Publications Mayadev J, Qi L, Lentz S, Benedict S, Courquin J, Dieterich S, Mathai M, Stern R, Valicenti R. Implant time and process efficiency for CT-guided high-dose-rate brachytherapy for cervical cancer. *Brachytherapy*. 2014 Feb 19. pii: S1538-4721(14)00024-5. doi: 10.1016/j.brachy.2014.01.004. [Epub ahead of print]

Mayadev J, Daly M, Chen A, Bold R, Chew H. The potential role of radiation therapy to the primary site of disease in stage IV breast cancer presenting with synchronous metastasis. *Clin Breast Cancer*. 2014 Feb;14(1):10-2. doi: 10.1016/j.clbc.2013.08.010. Epub 2013 Oct 30.

Rash DL, Lee YC, Kashefi A, Durbin-Johnson B, Mathai M, Valicenti R, Mayadev JS. Clinical response of pelvic and para-aortic lymphadenopathy to a radiation boost in the definitive management of locally advanced cervical cancer. *Int J Radiat Oncol Biol Phys*. 2013 Oct 1;87(2):317-22. doi: 10.1016/j.ijrobp.2013.06.2031. Epub 2013 Jul 29.



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Lee YC, Rash DL, Stern RL, Mayadev JS. The equivalent dose contribution from high-dose-rate brachytherapy to positive pelvic lymph nodes in locally advanced cervical cancer. *Brachytherapy*. 2013 Nov-Dec;12(6):555-9. doi: 10.1016/j.brachy.2013.06.002. Epub 2013 Jul 20.

Lim J, Durbin-Johnson B, Valicenti R, Mathai M, Stern RL, Mayadev J; Department of Radiation Oncology, University of California-Davis Cancer Center, Sacramento, CA. The impact of maximum rectal distention and tandem angle on rectal dose delivered in 3D planned gynecologic high dose-rate brachytherapy. *Int J Gynecol Cancer*. 2013 Jul;23(6):1078-83. doi: 10.1097/IGC.0b013e3182959030.

Mayadev JS, Douglas JG, Storer BE, Appelbaum FR, Storb R. Impact of Cranial Irradiation Added to Intrathecal Conditioning in Hematopoietic Cell Transplantation in Adult Acute Myeloid Leukemia with Central Nervous System Involvement. *Int J Radiat Oncol Biol Phys*, *Epub ahead of print.

P Grimm, I Billiet, D Bostwick, D Crawford, A Dicker, S Frank, J Immerzeel, M Keyes, P Kupelian, R Lee, S Machtens, J Mayadev, B Moran, G Merrick, J Millar, M Roach, R Stock, K Shinohara, M Scholz, E Weber, A Zietman, M Zelefsky, J Wong, S Wentworth, R Vera, S Langley. Comparative analysis of PSA free survival outcomes for patients with low, intermediate and high risk prostate cancer treatment by radical therapy. Results from the Prostate Cancer Results Study Group. *BJU Int*, 2011;109(1S); 22-29.

Stanic S, Mathai M, Mayadev JS, Do LV, Purdy JA, Chen AM. Addition of a third field significantly increases dose to the brachial plexus for patients undergoing tangential whole-breast therapy after lumpectomy *Med Dosim*. 2011 Sep 24. [Epub ahead of print]

Mayadev J, Merrick GS, Reed JR, Butler WM, Galbreath RW, Allen ZA, Wallner KE. Permanent prostate brachytherapy in prostate glands 20 cm(3). *Int J Radiat Oncol Biol Phys*, 76(5): 1450-5. 2010

Gokhale AS, Mayadev J, Pohlman B, Macklis RM. Gamma camera scans and pretreatment tumor volumes as predictors of response and progression after Y-90 anti-CD20 radioimmunotherapy. *Int J Radiat Oncol Biol Phys*, 63(1): 194-201. 2005



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