



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 is a national principal investigator through the NRG oncology group for cervical cancer, and is the co-chair of the Phase I committee for gynecologic radiation therapy. She specializes in various radiotherapy techniques including intensity modulated radiation therapy (IMRT), image guided radiation therapy (IGRT), and high dose rate brachytherapy.

Dr. Mayadev is specifically interested in using technical advances to improve the clinical delivery and side effect profile of radiation therapy, and in particular brachytherapy. She has extensive clinical experience in brachytherapy procedures, and explores the use of intraoperative image guidance from a clinical and research standpoint.

Research/Academic Interests

Dr. Maydev's research interests focus on the investigation of novel therapeutics and immunotherapy to improve the outcomes of cervical cancer. In addition, she explores various methods of delivery of radiation treatments.

Dr. Mayadev's research passion is in studying the technical delivery of high dose rate brachytherapy to an effort to spare normal tissue toxicity, particularly for gynecological cancers.

Title Associate Professor

Specialty [Cancer, Radiation Oncology](#)

Department [Radiation Oncology](#)

Division Radiation Oncology

Clinic UC Davis Cancer Center

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

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Languages Spanish



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Education	M.D., Case Western Reserve University School of Medicine, Cleveland OH 2004 B.A., Case Western Reserve University, Cleveland OH 2000
Internships	Internal Medicine, Providence Portland Medical Center, Portland OR 2004-2005
Residency	Radiation Oncology, University of Washington Medical Center, Seattle WA 2005-2008 Chief Resident-Radiation Oncology, University of Washington Medical School, Seattle WA 2008-2009
Board Certifications	American Board of Radiology, 2010 Medical Board of California, 2009
Professional Memberships	American Brachytherapy Society American Society for Radiation Oncology (ASTRO) ATHENA University of California Breast Collaboration NRG Oncology Gynecological Phase I Committee NRG Radiation Oncology Developmental Therapeutics, GYN Western Association of Gynecologic Oncologists
Honors and Awards	UC Davis Dean's Award for Excellence, GYN brachytherapy Award, 2015 UC Davis Radiation Oncology, Educator of the Year Award, 2014 UC Davis Cancer Center Highest Clinical Trial Accrual, 2014 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	To view Dr. Mayadev's publications, please click here .

Tait LM, Hoffman D, Benedict S, Valicenti R, Mayadev JS. The use of MRI deformable image registration for CT-based brachytherapy in locally advanced cervical cancer. Brachytherapy. 2016 Feb 13. [Epub ahead of print]



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Rash D, Hess C, Lentz S, Tait L, Michaud A, Mayadev J. Prospective evaluation of patient satisfaction after the use of brachytherapy specific educational materials for cervical cancer. *Brachytherapy*. 2016 Jan-Feb;15(1):65-70.

Mayadev J, Lim J, Durbin-Johnson B, Valicenti R, Alvarez E. Smoking Decreases Survival in Locally Advanced Cervical Cancer Treated With Radiation. *Am J Clin Oncol*. 2016 Jan 22. [Epub ahead of print]

Mayadev J, Li CS, Lim J, Valicenti R, Alvarez EA. Alcohol Abuse Decreases Pelvic Control and Survival in Cervical Cancer: An Opportunity of Lifestyle Intervention for Outcome Improvement. *Am J Clin Oncol*. 2015 Mar 13. [Epub ahead of print]

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.

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 May-Jun;13(3):233-9.

Mayadev J, Fish K, Valicenti R, West D, Chen A, Martinez S, Phillips T. Utilization and impact of a postmastectomy radiation boost for invasive breast cancer. *Pract Radiat Oncol*. 2014 Nov-Dec;4(6):e269-78.

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



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management of locally advanced cervical cancer. *Int J Radiat Oncol Biol Phys.* 2013 Oct 1;87(2):317-22.

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