

CURRICULUM VITAE

BIOGRAPHICAL

Sushil Beriwal, MD, MBA, FASTRO, FABS

University of Pittsburgh Cancer Institute
Department of Radiation Oncology
Magee-Womens Hospital of UPMC
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EDUCATION and TRAINING

UNDERGRADUATE:

1988 to 1995	Calcutta University West Bengal, India	M.B.B.S. 1994	Medical School
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GRADUATE:

1996 to 1998	Post Graduate Institute of Medical Education and Research Chandigarh, India	Doctor of Medicine 1998	Medical School
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POSTGRADUATE:

January 1995 to December 1997	Post Graduate Institute of Medical Education and Research Chandigarh, India	Junior Resident Radiation Oncology
January 1998 to April 1999	Post Graduate Institute of Medical Education and Research Chandigarh, India	Senior Resident Radiation Oncology
July 1999 to June 2000	Mercy Catholic Medical Center Darby, PA	Internship Radiation Oncology
July 2000 to June 2004	MCP Hahnemann University Hospital Philadelphia, PA	Residency in Radiation Oncology (Chief Resident July 2002-June 2004)
October 2017	University of Pittsburgh Pittsburgh, PA	E. M.B.A. Beta Gamma Sigma

APPOINTMENTS and POSITIONS

ACADEMIC:

July 2004 to present	Department of Radiation Oncology Magee-Womens Hospital of UPMC 300 Halket Street Pittsburgh, PA 15213	Medical Director
July 2004 to November 2008	University of Pittsburgh, School of Medicine Department of Radiation Oncology	Clinical Assistant Professor
September 2007 to present	University of Pittsburgh Cancer Institute Department of Radiation Oncology	Residency Program Director
December 2008 to May 2016	University of Pittsburgh, School of Medicine Department of Radiation Oncology	Clinical Associate Professor
January 2012 to present	The American Board of Radiology Examiner for Gyne Section	Examiner for Gyne Section
April 2013 to present	University of Pittsburgh Medical Center	Assistant Medical Director of Quality Improvement
April 2013 to present	University of Pittsburgh Medical Center	Directory of Brachytherapy Program
January 2009 to present	University of Pittsburgh Medical Center	Pathway Director for Breast and Gynecological Cancers
June 2015 to present	University of Pittsburgh Medical Center	Deputy Director, Clinical Affairs, Department of Radiation Oncology
June 2016 to present	University of Pittsburgh, School of Medicine	Professor
June 2016 to 2019	American Brachytherapy Society Board of Directors	Director-at-Large
July 2016	International Journal of Radiation Oncology* Biology*Physics	Senior Editor
October 2018 to present	NRG Oncology Breast Committee	
January 2019	Springer Indian Journal of Gynecologic Oncology	Editorial Board Member

CERTIFICATION and LICENSURE

MEDICAL or OTHER PROFESSIONAL LICENSURE:

Medical Licensure, State of Pennsylvania (MD-420632)	2000
ABR Certification, Radiation Oncology	2005

MEMBERSHIPS in PROFESSIONAL and SCIENTIFIC SOCIETIES

Member of American Society of Therapeutic Radiology and Oncology
Member of American Brachytherapy Society
ASTRO's Cervical Cancer Guideline Task Force
Member ACRO

HONORS

American Society of Radiation Oncology Fellow	2020
American Brachytherapy Society Fellow	2020
President's Award, American Brachytherapy Society	2016
Teacher of the Year Award for outstanding teachers and mentors of radiation oncology residents	2005, 2012, 2015
Pittsburgh Best Doctors list	2012-2019
Leo Creip Award for patient care	2012
Achieved Outstanding Reviewer Status, Radiotherapy and Oncology	2014
Received 2006 American Society for Radiation Oncology International Travel Grant to present at American Society for Therapeutic Radiation and Oncology conference	2006
American Radium Society Travel Award for oral presentation	2004
AOA award from Drexel University	2004
RSNA Resident Research award	2003
American Brachytherapy Society Resident Travel Award	2002
Annenberg Scholarship to attend the Oncology Fellows Connect program at Palm Springs, CA	2001
Pennsylvania Society of Oncology and Hematology travel award	2001
Scored 100 percentile in In-Service examination in Radiation Oncology	2003
Awarded Best Intern of the year 1999-2000, at Mercy Catholic Medical Center, Philadelphia	2001
Awarded silver medal (Highest award) for outstanding performance in M.D. (Radiation Oncology)	1998
First in medical school with highest marks in Medicine, Surgery and Obstetrics & Gynecology	

PUBLICATIONS

Refereed articles

1. Schad MD, Patel AK, Ling DC, Smith RP, **Beriwal S.** Hypofractionated Prostate Radiation Therapy: Adoption and Dosimetric Adherence Through Clinical Pathways in an Integrated Oncology Network. JCO Oncol Pract. 2020 Oct 23:OP2000508. doi: 10.1200/OP.20.00508. Online ahead of print. PMID: 33095692

2. Rodríguez-López JL, Ling DC, Keller A, Kim H, Mojica-Márquez AE, Glaser SM, **Beriwal S**. Ureteral Stenosis after 3D MRI-based Brachytherapy for Cervical Cancer - Have We Identified All the Risk Factors? Radiother Oncol. 2020 Oct 13:S0167-8140(20)30846-X. doi: 10.1016/j.radonc.2020.10.010. Online ahead of print. PMID: 33065181
3. Richman AH, Vargo JA, Ling DC, Sukumvanich P, Berger JL, Boisen MM, Edwards R, Taylor SE, Courtney-Brooks MB, Olawaiye A, Orr BC, **Beriwal S**. Dose-escalated intensity modulated radiation therapy in patients with locally-advanced vulvar cancer - does it increase response rate? Gynecol Oncol. 2020 Sep 24:S0090-8258(20)33912-3. doi: 10.1016/j.ygyno.2020.09.019. Online ahead of print. PMID: 32981696
4. Kharofa J, Tendulkar R, Fields E, **Beriwal S**, Attia A, Olivier K. In Reply to Pohar. Int J Radiat Oncol Biol Phys. 2020 Nov 1;108(3):836. doi: 10.1016/j.ijrobp.2020.05.049. PMID: 32976795
5. Chino J, Annunziata CM, **Beriwal S**, Bradfield L, Erickson BA, Fields EC, Fitch J, Harkenrider MM, Holschneider CH, Kamrava M, Leung E, Lin LL, Mayadev JS, Morcos M, Nwachukwu C, Petereit D, Viswanathan AN. The ASTRO clinical practice guidelines in cervical cancer: Optimizing radiation therapy for improved outcomes. Gynecol Oncol. 2020 Sep 22:S0090-8258(20)33908-1. doi: 10.1016/j.ygyno.2020.09.015. Online ahead of print. PMID: 32972783
6. Keller A, Rodríguez-López JL, Patel AK, Vargo JA, Kim H, Houser CJ, Sukumvanich P, Berger JL, Boisen MM, Edwards RP, Taylor SE, Courtney-Brooks MB, Orr BC, Olawaiye AB, **Beriwal S**. Early outcomes after definitive chemoradiation therapy with Vienna/Venezia hybrid high-dose rate brachytherapy applicators for cervical cancer: A single-institution experience. Brachytherapy. 2020 Sep 17:S1538-4721(20)30181-1. doi: 10.1016/j.brachy.2020.08.006. Online ahead of print. PMID: 32952053
7. Iheagwara UK, Vargo JA, Boisen MM, Taylor SE, Berger JL, Comerci JT, Orr BC, Sukumvanich P, Olawaiye AB, Kelley JL, Edwards RP, Courtney-Brooks MB, **Beriwal S**. Regional Control and Chemoradiotherapy Dose Response for Clinically Involved Lymph Nodes in Patients with Locally Advanced Endometrial Cancers Who are Not Candidates for Upfront Surgical Staging Extrafascial Hysterectomy. Clin Oncol (R Coll Radiol). 2020 Sep 10:S0936-6555(20)30358-7. doi: 10.1016/j.clon.2020.08.009. Online ahead of print. PMID: 32919862
8. Small W Jr, Bosch WR, Harkenrider MM, Strauss JB, Abu-Rustum N, Albuquerque KV, **Beriwal S**, Creutzberg CL, Eifel PJ, Erickson BA, Fyles AW, Hentz CL, Jhingran A, Klopp AH, Kunos CA, Mell LK, Portelance L, Powell ME, Viswanathan AN, Yacoub JH, Yashar CM, Winter KA, Gaffney DK. NRG Oncology /RTOG Consensus Guidelines for Delineation of Clinical Target Volume for Intensity-Modulated Pelvic Radiation Therapy in Postoperative Treatment of Endometrial and Cervical Cancer- An Update. Int J Radiat Oncol Biol Phys. 2020 Sep 6:S0360-3016(20)34220-6. doi: 10.1016/j.ijrobp.2020.08.061. Online ahead of print. PMID: 32905846
9. Ling DC, Vargo JA, **Beriwal S**. Breast, Prostate, and Rectal Cancer: Should 5-5-5 Be a New Standard of Care? Int J Radiat Oncol Biol Phys. 2020 Oct 1;108(2):390-393. doi: 10.1016/j.ijrobp.2020.06.049. PMID: 32890517 Free PMC article. No abstract available.

10. Horne ZD, Teterichko SR, Glaser SM, Wegner RE, Hasan S, Crafton SM, Miller EM, Krivak TC, Viswanathan A, Olawaiye AB, Sukumvanich P, **Beriwal S**. Race-driven survival differential in women diagnosed with endometrial cancers in the USA. Int J Gynecol Cancer. 2020 Aug 25;ijgc-2020-001560. doi: 10.1136/ijgc-2020-001560. Online ahead of print. PMID: 32847996
11. Pifer PM, Bhargava R, Patel AK, Ling DC, Vargo JA, Orr BC, Sukumvanich P, Courtney-Brooks MB, Boisen MM, Berger JL, Taylor S, Olawaiye AB, Comerici JT, Lesnock JL, Edwards RP, **Beriwal S**. Is the risk of substantial LVSI in stage I endometrial cancer similar to PORTEC in the North American population? - A single-institution study. Gynecol Oncol. 2020 Jul 24:S0090-8258(20)33659-3. doi: 10.1016/j.ygyno.2020.07.024. Online ahead of print. PMID: 32718729
12. Nguyen NC, **Beriwal S**, Moon CH, Furlan A, Mountz JM, Rangaswamy B. FDG PET/MRI primary staging of cervical cancer - a pilot study with PET/CT comparison. J Nucl Med Technol. 2020 Jul 24;jnmt.120.247080. doi: 10.2967/jnmt.120.247080. Online ahead of print. PMID: 32709671
13. Soran A, Özbaş S, Doğan L, Sezgin E, Özmen V, **Beriwal S**, Brufsky A. Loco-Regional Treatment for Intact Primary Tumor in Patient with De Novo Metastatic Breast Cancer; Comments and Concerns of ECOG-ACRIN 2108 Trial. Eur J Breast Health. 2020 Jun 8;16(3):158-159. doi: 10.5152/ejbh.2020.080620. eCollection 2020 Jul. PMID: 32656512 Free PMC article.
14. Ling DC, Moppins BL, Champ CE, Gorantla VC, **Beriwal S**. Quality of Regional Nodal Irradiation Plans in Breast Cancer Patients Across a Large Network - Can We Translate Results from Randomized Trials into the Clinic? Pract Radiat Oncol. 2020 Jun 29:S1879-8500(20)30164-8. doi: 10.1016/j.prr.2020.06.007. Online ahead of print. PMID: 32615162
15. Mojica-Márquez AE, Rodríguez-López JL, Patel AK, Ling DC, Rajagopalan MS, **Beriwal S**. Physician-Predicted Prognosis and Palliative Radiotherapy Treatment Utilization at the End-of-Life: An Audit of a Large Cancer Center Network. J Pain Symptom Manage. 2020 Jun 26:S0885-3924(20)30563-7. doi: 10.1016/j.jpainsymman.2020.06.022. Online ahead of print. PMID: 32599149
16. Mojica-Márquez AE, Rodríguez-López JL, Patel AK, Ling DC, Rajagopalan MS, **Beriwal S**. External validation of life expectancy prognostic models in patients evaluated for palliative radiotherapy at the end-of-life. Cancer Med. 2020 Jun 26. doi: 10.1002/cam4.3257. Online ahead of print. PMID: 32592315 Free article.
17. Blohmer M, Zhu L, Atkinson JM, **Beriwal S**, Rodríguez-López JL, Rosenzweig M, Brufsky AM, Tseng G, Lucas PC, Lee AV, Oesterreich S, Jankowitz RC. Patient treatment and outcome after breast cancer orbital and periorbital metastases: a comprehensive case series including analysis of lobular versus ductal tumor histology. Breast Cancer Res. 2020 Jun 26;22(1):70. doi: 10.1186/s13058-020-01309-3. PMID: 32586354 Free PMC article.
18. Elledge CR, **Beriwal S**, Chargari C, Chopra S, Erickson BA, Gaffney DK, Jhingran A, Klopp AH, Small W Jr, Yashar CM, Viswanathan AN. Radiation therapy for gynecologic malignancies during the COVID-19 pandemic: International expert consensus

- recommendations. Gynecol Oncol. 2020 Jun 15:S0090-8258(20)32301-5. doi: 10.1016/j.ygyno.2020.06.486. Online ahead of print. PMID: 32563593 Free PMC article
19. Nguyen NC, Moon CH, **Beriwal S**. 18F-Fluciclovine PET/MRI in a Patient With Squamous Cell Carcinoma of the Uterine Cervix Correlated With 18F-FDG PET/CT. Clin Nucl Med. 2020 Jun 17. doi: 10.1097/RLU.0000000000003139. Online ahead of print. PMID: 32558719
 20. Chino J, Annunziata CM, **Beriwal S**, Bradfield L, Erickson BA, Fields EC, Fitch K, Harkenrider MM, Holschneider CH, Kamrava M, Leung E, Lin LL, Mayadev JS, Morcos M, Nwachukwu C, Petereit D, Viswanathan AN. Radiation Therapy for Cervical Cancer: Executive Summary of an ASTRO Clinical Practice Guideline. Pract Radiat Oncol. 2020 May 18:S1879-8500(20)30094-1. doi: 10.1016/j.prro.2020.04.002. Online ahead of print. PMID: 32473857
 21. Mohindra P, **Beriwal S**, Kamrava M. Proposed brachytherapy recommendations (practical implementation, indications, and dose fractionation) during COVID-19 pandemic. Brachytherapy. 2020 May 1:S1538-4721(20)30085-4. doi: 10.1016/j.brachy.2020.04.009. Online ahead of print. PMID: 32423787 Free PMC article. No abstract available.
 22. Li R, Yashar C, Thaker N, **Beriwal S**, Glaser S. Radiation Oncology APM: an introduction and primer for the proposed rule for practices and providers. Pract Radiat Oncol. 2020 May 15:S1879-8500(20)30108-9. doi: 10.1016/j.prro.2020.04.011. Online ahead of print. PMID: 32422397
 23. Ho AY, Wright JL, Blitzblau RC, Mutter RW, Duda GD, Norton L, Bardia A, Spring L, Isakoff SJ, Chen JH, Grassberger C, Bellon JR, **Beriwal S**, Khan AJ, Speers C, Dunn SA, Thompson A, Santa-Maria CA, Krop IE, Mittendorf E, King TA, Gupta GP. Optimizing Radiotherapy to Boost Systemic Immune Responses in Breast Cancer: A Critical Review for Breast Radiation Oncologists. Int J Radiat Oncol Biol Phys. 2020 May 14:S0360-3016(20)31135-4. doi: 10.1016/j.ijrobp.2020.05.011. Online ahead of print. PMID: 32417409
 24. Patel AK, Houser C, Benoit R, Smith RP, **Beriwal S**. Acute patient-reported bowel quality of life and rectal bleeding with the combination of prostate external beam radiation, low-dose-rate brachytherapy boost, and SpaceOAR. Brachytherapy. 2020 Apr 21. pii: S1538-4721(20)30051-9. doi: 10.1016/j.brachy.2020.03.006. [Epub ahead of print] PMID: 32331976
 25. Ling DC, Iarrobino NA, Champ CE, Soran A, **Beriwal S**. Regional Recurrence Rates With or Without Complete Axillary Dissection for Breast Cancer Patients with Node-Positive Disease on Sentinel Lymph Node Biopsy after Neoadjuvant Chemotherapy. Adv Radiat Oncol. 2019 Sep 27;5(2):163-170. doi: 10.1016/j.adro.2019.09.006. eCollection 2020 Mar-Apr. PMID: 32280815
 26. Benoit RM, Horne ZD, Houser CJ, Smith RP, **Beriwal S**. Cesium-131 prostate brachytherapy: A single institutional long-term experience. Brachytherapy. 2020 May - Jun;19(3):298-304. doi: 10.1016/j.brachy.2020.02.006. Epub 2020 Apr 2. PMID: 32249178
 27. Remick JS, Beriwal S. Maximizing gynecologic brachytherapy experience during radiation oncology residency training. Brachytherapy. 2020 Feb 15:S1538-4721(20)30007-6. doi: 10.1016/j.brachy.2020.01.005. Online ahead of print. PMID: 32070644 No abstract available.

28. Kamrava M, Chino JP, **Beriwal S**. SAbR as an Alternative Boost Modality for Cervical Cancer: A Cautionary Exercise. Int J Radiat Oncol Biol Phys. 2020 Mar 1;106(3):472-474. doi: 10.1016/j.ijrobp.2019.11.026. No abstract available. PMID: 32014146
29. Remick JS, **Beriwal S**. Maximizing gynecologic brachytherapy experience during radiation oncology residency training. Brachytherapy. 2020 Feb 15. pii: S1538-4721(20)30007-6. doi: 10.1016/j.brachy.2020.01.005. [Epub ahead of print] No abstract available. PMID: 32070644
30. Kharofa J, Tendulkar R, Fields E, **Beriwal S**, Attia A, Olivier K. Cleaning without SOAP: How Program Directors Should Respond to Going Unmatched in 2020. Int J Radiat Oncol Biol Phys. 2020 Feb 1;106(2):241-242. doi: 10.1016/j.ijrobp.2019.11.032. No abstract available. PMID: 31928640
31. Rodríguez-López JL, **Beriwal S**. Nodal Recurrence From Prostate Adenocarcinoma: Curable or Incurable? Int J Radiat Oncol Biol Phys. 2020 Feb 1;106(2):236-237. doi: 10.1016/j.ijrobp.2018.07.002. No abstract available. PMID: 31928636
32. Maraci MA, Yaqub M, Craik R, **Beriwal S**, Self A, von Dadelszen P, Papageorgiou A, Noble JA. Toward point-of-care ultrasound estimation of fetal gestational age from the trans-cerebellar diameter using CNN-based ultrasound image analysis. J Med Imaging (Bellingham). 2020 Jan;7(1):014501. doi: 10.1117/1.JMI.7.1.014501. Epub 2020 Jan 13. PMID: 31956665
33. Schad MD, Patel AK, Glaser SM, Balasubramani GK, Showalter TN, **Beriwal S**, Vargo JA. Declining brachytherapy utilization for cervical cancer patients - Have we reversed the trend? Gynecol Oncol. 2020 Jan 7. pii: S0090-8258(19)31863-3. doi: 10.1016/j.ygyno.2019.12.032. [Epub ahead of print] PMID: 31924333
34. Sturdza A, Viswanathan AN, Erickson B, Yashar C, Bruggemman A, Feddock J, Klopp A, **Beriwal S**, Gaffney D, Han K, Kamrava M. American Brachytherapy Society working group report on the patterns of care and a literature review of reirradiation for gynecologic cancers. Brachytherapy. 2020 Jan 6. pii: S1538-4721(19)30628-2. doi: 10.1016/j.brachy.2019.11.008. [Epub ahead of print] PMID: 31917178
35. Horne ZD, Wegner RE, Colonias A, Weksler B, Glaser SM, Kalash R, **Beriwal S**. Drivers of 30-/90-day post-op mortality following neoadjuvant chemoradiation for esophageal cancer. Ann Thorac Surg. 2019 Dec 14. pii: S0003-4975(19)31871-5. doi: 10.1016/j.athoracsur.2019.10.057. [Epub ahead of print] PMID: 31846643
36. Shinde A, Li R, Amini A, Vapiwala N, Orio P 3rd, Vargo JA, Yashar C, Chen YJ, **Beriwal S**, Glaser S. Resident experience in brachytherapy: An analysis of Accreditation Council for Graduate Medical Education case logs for intracavitary and interstitial brachytherapy from 2007 to 2018. Brachytherapy. 2019 Dec 12. pii: S1538-4721(19)30616-6. doi: 10.1016/j.brachy.2019.10.006. [Epub ahead of print] PMID: 31839568
37. Kim H, Huq MS, Lalonde R, Houser CJ, **Beriwal S**, Heron DE. Early clinical experience with varian halcyon V2 linear accelerator: Dual-isocenter IMRT planning and delivery with portal dosimetry for gynecological cancer treatments. J Appl Clin Med Phys. 2019 Nov;20(11):111-120. doi: 10.1002/acm2.12747. Epub 2019 Oct 29. PMID: 31660682 Free PMC Article
38. Kim H, Vargo JA, Ling DC, **Beriwal S**, Smith KJ. Cost-Effectiveness Analysis of Upfront SBRT for Oligometastatic Stage IV Non-Small Cell Lung Cancer Based on Mutational Status.

Am J Clin Oncol. 2019 Nov;42(11):837-844. doi: 10.1097/COC.0000000000000608. PMID: 31644441

39. **Beriwal S**, Lee LJ, Chino JP, Albuquerque K, Klopp AH. Scores and Misses With New Technology-Walking the Narrow Path of Evidence. *Int J Radiat Oncol Biol Phys*. 2019 Oct 1;105(2):237-241. doi: 10.1016/j.ijrobp.2019.05.015. Review. No abstract available. PMID: 31492378
40. Li R, Shinde A, Han E, Lee S, **Beriwal S**, Harkenrider M, Kamrava M, Chen YJ, Glaser S. A proposal for a new classification of "unfavorable risk criteria" in patients with stage I endometrial cancer. *Int J Gynecol Cancer*. 2019 Sep;29(7):1086-1093. doi: 10.1136/ijgc-2019-000264. PMID: 31474587
41. Schad M, Kowalchuk R, **Beriwal S**, Showalter TN. How might financial pressures have impacted brachytherapy? A proposed narrative to explain the declines in cervical and prostate brachytherapy utilization. *Brachytherapy*. 2019 Aug 19. pii: S1538-4721(19)30447-7. doi: 10.1016/j.brachy.2019.07.001. [Epub ahead of print] PMID: 31439465
42. Shinde A, Li R, Amini A, Chen YJ, Cristea M, Wang W, Wakabyashi M, Han E, Yashar C, Albuquerque K, **Beriwal S**, Glaser S. Role of Locoregional Treatment in Vulvar Cancer With Pelvic Lymph Node Metastases: Time to Reconsider FIGO Staging? *J Natl Compr Canc Netw*. 2019 Aug 1;17(8):922-930. doi: 10.6004/jnccn.2019.7288. PMID: 31390593
43. Metzger AL, Abel S, Wegner RE, Fuhrer R, Mao S, Miller R, **Beriwal S**, Horne ZD. Patterns of care and outcomes in small cell carcinoma of the prostate: A national cancer database analysis. *Prostate*. 2019 Jul 11. doi: 10.1002/pros.23864. [Epub ahead of print] PMID: 31294484
44. Li R, Shinde A, Novak J, Vapiwala N, **Beriwal S**, Chen YJ, Glaser S. Temporal trends of resident experience in external beam radiation therapy cases: analysis of ACGME case logs from 2007-2018. *Int J Radiat Oncol Biol Phys*. 2019 Jun 20. pii: S0360-3016(19)33301-2. doi: 10.1016/j.ijrobp.2019.06.2466. [Epub ahead of print] PMID: 31229573
45. Shinde A, Horne ZD, Li R, Glaser S, Massarelli E, Koczywas M, Erhunmwunsee L, Reckamp KL, Weksler B, Salgia R, **Beriwal S**, Amini A. Optimal adjuvant therapy in clinically N2 non-small cell lung cancer patients undergoing neoadjuvant chemotherapy and surgery: The importance of pathological response and lymph node ratio. *Lung Cancer*. 2019 Jul;133:136-143. doi: 10.1016/j.lungcan.2019.05.020. Epub 2019 May 19. PMID: 31200820
46. Kim H, Huq MS, Heron DE, Lalonde R, Houser CJ, Champ CE, **Beriwal S**. Assessment of deep inspiration breath hold technique setup reproducibility using mega voltage imaging for left breast cancer radiation therapy-integrated network study. *Med Dosim*. 2019 May 29. pii: S0958-3947(19)30059-7. doi: 10.1016/j.meddos.2019.04.006. [Epub ahead of print] PMID: 31153678
47. Ling DC, Vargo JA, Burton SA, Heron DE, **Beriwal S**. Salvage Curative-Intent Reirradiation Stereotactic Body Radiation Therapy for Isolated Pelvic and/or Paraortic Recurrences of Gynecologic Malignancies. *Pract Radiat Oncol*. 2019 May 28. pii: S1879-8500(19)30158-4. doi: 10.1016/j.prro.2019.05.012. [Epub ahead of print] PMID: 31150869
48. Mulherkar R, Hasan S, Wegner RE, Verma V, Glaser SM, Kalash R, **Beriwal S**, Horne ZD. National patterns of care for early-stage penile cancers in the United States: How is radiation

and brachytherapy utilized? *Brachytherapy*. 2019 Jul - Aug;18(4):503-509. doi: 10.1016/j.brachy.2019.04.007. Epub 2019 May 22. PMID: 31126857

49. Suarez Mora A, Horne Z, Taylor S, Olawaiye AB, **Beriwal S**, Boisen M, Berger J, Sukumvanich P. Impact of histological grade on oncologic outcomes in clinical stage I patients with endometrial carcinoma patients after definitive primary radiation therapy. *Int J Gynecol Cancer*. 2019 May 10. pii: ijgc-2018-000124. doi: 10.1136/ijgc-2018-000124. [Epub ahead of print] PMID: 31079061
50. Champ CE, **Beriwal S**, Smith RP. Physician Burnout and Physician Health: Three Simple Suggestions for a Complex Problem. *Pract Radiat Oncol*. 2019 May 8. pii: S1879-8500(19)30123-7. doi: 10.1016/j.prro.2019.04.011. [Epub ahead of print] No abstract available. PMID: 31077886
51. Thomas J, Prabhu AV, Heron DE, **Beriwal S**. Reddit and Radiation Therapy: A Descriptive Analysis of Posts and Comments Over 7 Years by Patients and Health Care Professionals. *Adv Radiat Oncol*. 2019 Feb 13;4(2):345-353. doi: 10.1016/j.adro.2019.01.007. eCollection 2019 Apr-Jun. PMID: 31011680
52. Gebhardt BJ, Rangaswamy B, Thomas J, Kelley J, Sukumvanich P, Edwards R, Comerchi J, Olawaiye A, Courtney-Brooks M, Boisen M, Berger J, **Beriwal S**. Magnetic resonance imaging response in patients treated with definitive radiation therapy for medically inoperable endometrial cancer-Does it predict treatment response? *Brachytherapy*. 2019 Jul - Aug;18(4):437-444. doi: 10.1016/j.brachy.2019.03.005. Epub 2019 Apr 17. PMID: 31005602
53. Gay HA, Santiago R, Gil B, Remedios C, Montes PJ, López-Araujo J, Chévere CM, Imbert WS, White J, Arthur DW, Horton JK, Jagsi R, Rabinovich R, **Beriwal S**, Viswanathan A, Erickson BA, Rengan R, Palma D, Loo BW Jr, Kavanaugh JA, Bradley J, Yom SS, Harari PM, Lee Burnett O 3rd. Lessons Learned From Hurricane Maria in Puerto Rico: Practical Measures to Mitigate the Impact of a Catastrophic Natural Disaster on Radiation Oncology Patients. *Pract Radiat Oncol*. 2019 Apr 15. pii: S1879-8500(19)30079-7. doi: 10.1016/j.prro.2019.03.007. [Epub ahead of print] PMID: 30999000
54. Albuquerque K, Hrycushko BA, Harkenrider MM, Mayadev J, Klopp A, **Beriwal S**, Petereit DG, Scanderbeg DJ, Yashar C. Compendium of fractionation choices for gynecologic HDR brachytherapy-An American Brachytherapy Society Task Group Report. *Brachytherapy*. 2019 Jul - Aug;18(4):429-436. doi: 10.1016/j.brachy.2019.02.008. Epub 2019 Apr 9. Review. PMID: 30979631
55. Patel AK, Ling DC, **Beriwal S**. In Reply to Miranda Degrande and Hanna. *Int J Radiat Oncol Biol Phys*. 2019 May 1;104(1):221-222. doi: 10.1016/j.ijrobp.2018.12.056. No abstract available. PMID: 30967229
56. Chino J, **Beriwal S**. Advanced Treatment Technique for Locally Advanced Cervical Cancer: Time for a Standard of Care Shift? *Int J Radiat Oncol Biol Phys*. 2019 Apr 1;103(5):1098-1099. doi: 10.1016/j.ijrobp.2018.12.002. Epub 2019 Mar 13. No abstract available. PMID: 30900560
57. Ling DC, Sutera PA, Iarrobino NA, Diego EJ, Soran A, Johnson RR, Bhargava R, Champ CE, **Beriwal S**. Is Multifocal Regression a Risk Factor for Ipsilateral Breast Tumor Recurrence in the Modern Era After Neoadjuvant Chemotherapy and Breast Conservation

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63. Agarwal A, **Beriwal S**, Heron D, Falk J, Johnson R, Mogus RM, Kim H, Gerszten K, Deutsch M. Accelerated Partial Breast Irradiation: Single Institutional experience of 100 Patients Using MammoSite Brachytherapy. 2005 AMERICAN SOCIETY FOR RADIATION ONCOLOGY, October 16-20, 2005, Denver, Colorado Oral *Int J Radiat Oncol Biol Physics* 63 (Suppl 1):S6-S7, 2005.
64. **Beriwal S**, Komarnicky L, Garcia-Young JA, Schwartz G. Breast-conserving Therapy after Neoadjuvant Chemotherapy: Long Term Results. Poster 2004 AMERICAN SOCIETY FOR RADIATION ONCOLOGY Atlanta, GA, *Int J Radiat Oncol Biol Phys*, 60 (Suppl 1), S379, 2004.
65. **Beriwal S**, Heron D, Kim H, King G, Shogun J, Gerszten K, Lee J, Comerici J. Intensity-Modulated Radiotherapy for the Treatment of Vulvar Carcinoma: a Comparative Dosimetric Study with Early Clinical Outcomes. *Int J Radiat Oncol Biol Phys* 63 (Suppl 1):S218, 2005.
66. **Beriwal S**, Nichini F, et al. IORT for Stage III-A Non Small Cell Carcinoma of the Lung – a Retrospective Study. American Brachytherapy Society tract publication at American Society of Clinical Oncology annual meeting in May 2002.
67. Singh S, Nakshebandi I, **Beriwal S**. Understanding of Colorectal Cancer Screening and Surveillance Guidelines: Survey in a Community Hospital Setting. *A J G American Society for Radiation Oncologyenterology*.(Suppl) s167, 2001.

68. **Beriwal S**, Jain H, Singh S. Primary MALT Lymphoma of Kidney- a Case Report with a Ten Year Follow Up. *Blood* 96(11):221b, 2000.
69. Kehwar TS, Sharma SC, Patel FD, Singh DP, Ghoshal S, **Beriwal S**. Quality Assurance Test for Microselectron HDR Remote After Loading Brachytherapy Unit. *J Clin Radiother Oncol* 13: 59-62, 1998.
70. Gupta D, **Beriwal S**, Sharma SC. Palliation in Locally Advanced Lung Cancer a Prospective Randomized Comparison Between External Radiotherapy Alone and in Combination with High Dose Rate (HDR) Intraluminal Brachytherapy. *Eur J Of Cancer* 34 supp2:S28, 1998.
71. Ghoshal S, Singh DP, **Beriwal S**, Sharma SC. A Ten Year Analysis of Management of Testicular Non-seminomatous Germ Cell Tumours. *J Clin Radiother Oncol* 13(2):113-115, 1998.
72. **Beriwal S**, Sharma SC, Behra D, Sandhu APS, Singh DP, Negi PS. The Effect of Addition of Brachytherapy in Improving Endobronchial Symptom Relief – a Prospective Randomized Study in Central Lung Tumors. *Int J Radiat Oncol Biol Phys* 42(Suppl 1):336, 1998.
73. **Beriwal S**, Singh DP, Sharma SC, Negi PS. Dermatofibrosarcoma Protuberance. Is There a Place for Brachytherapy. *J Clin Radiother Oncol* 13(3):27-32, 1998.
74. **Beriwal S**, Sharma SC, Sawhney IMS, Singh DP, Ghoshal S. Hodgkin's Disease Presenting with Paraneoplastic Cerebellar Degeneration. *Bull PGI* 32: 100-111, 1998.
75. **Beriwal S**, Sharma SC, Behra S, Gupta D, Singh DP, Negi PS. Endobronchial Brachytherapy - a Treatment Option for Recurrent Endobronchial Carcinoma: PGIMER Experience. *J Clin Radiother Oncol* 13(3):28-33, 1998.
76. **Beriwal S**, Sharma SC, Behra D, Gupta D, Singh DP, Negi PS. HDR Brachytherapy for Carcinoma of Lung. *Bull PGI* 32:73-75, 1998.

Oral and poster presentations

1. Nguyen NC, Beriwal S, Moon CH, Furlan A, Rangaswamy B. Initial FDG PET/MR experience in cervical & uterine cancer staging: A pilot study. ISMRM-SNMMI co-provided workshop on PET/MRI – Oral presentation. Chicago, IL, October 26-29. 2017.
2. Invited Guest Editor PET CT for radiation planning, advance conformal radiation therapy for vaginal and vulvar cancer, contouring atlas for carcinoma of vulva, radiation therapy for Gynecological cancer, brachytherapy for cervical cancer, brachytherapy for endometrial cancer
3. Book Chapter: PET CT in radiation planning for breast cancer
4. Rajagopalan MS, Kannan N, Kim H, Houser C, **Beriwal S**. Urethral Dosimetry and Toxicity with High Dose-Rate Interstitial Brachytherapy. Poster and for a Poster Highlights 2012 World Congress of Brachytherapy, Barcelona, Spain May 10-12, 2012

5. Smith RP, **Beriwal S**, Benoit RM. Long term toxicity following Cs-131 prostate brachytherapy. Poster 2012 World Congress of Brachytherapy, Barcelona, Spain May 10-12, 2012
6. Rajagopalan MS, Hosseinzadeh K, **Beriwal S**. Feasibility of ADC Mapping in Assessment of Tumor Response and residual disease for Patients Undergoing MRI based High Dose-Rate Brachytherapy for Cervical Cancer. Oral 2012 World Congress of Brachytherapy, Barcelona, Spain May 10-12, 2012
7. Kim H, Houser C, **Beriwal S**. Evaluation of 3D MRI CUBE Technique for HDR Cervical Cancer Treatment. Poster 2012 World Congress of Brachytherapy, Barcelona, Spain May 10-12, 2012
8. van den Bos W, Velema L, **Beriwal S**, de Leeuw AAC, Jürgenliemk-Schulz IM. Dose contribution to involved pelvic nodes with 3D brachytherapy for cervix cancer; a comparison of two cancer centers. Poster and Poster Discussion Session. 2012 World Congress of Brachytherapy, Barcelona, Spain May 10-12, 2012
9. Kannan N, Kim H, Houser C, **Beriwal S**. 3D image based vs. point based dosimetry for cervical cancer: Early outcome analysis. Poster 2012 World Congress of Brachytherapy, Barcelona, Spain May 10-12, 2012
10. **Beriwal S**, Smith R, Houser C, Benoit R. Prostate-specific antigen spikes with 131Cs brachytherapy. Is there a difference with other radioisotopes? E-Poster European Society for Therapeutic Radiology and Oncology (ESTRO), Barcelona, Spain, May 9-13, 2012
11. Kabolizadeh P, DeFoe SG, Heron DE, **Beriwal S**. Dosimetric Parameters Predictive of Acute GAmerican Society for Radiation Oncologyintestinal Toxicity in Patients with Anal Carcinoma Treated with Concurrent Chemotherapy and Intensity Modulated Radiation Therapy. Oral – Young Oncologist Award American Radium Society Conference (ARS), Las Vegas, NV April 28-May 2, 2012
12. **Beriwal S**, Shinde S , Heron DE, Kelley JL, Edwards RP, Sukumvanich P, Richards R, Olawaiye A, Krivak TC. Preoperative intensity-modulated radiotherapy and chemotherapy for locally advanced vulvar carcinoma: an update. Poster Society of Gynecologic Oncologists (SGO), Austin, TX March 24-27, 2012
13. Lesnock J, Farris C, **Beriwal S**, Krivak T. Intensity Modulated Radiation Therapy Improves Quality of Life Compared to Four Field Radiation Therapy for Upfront Treatment of Cervical Cancer: A Cost-effectiveness Analysis. Poster Society of Gynecologic Oncologists (SGO), Austin, TX March 24-27, 2012
14. Hansen K, Lin J, **Beriwal S**, Lesnock J, Sukumvanich P, Richard S, Oliawaye A, Kelley J, Zorn K, Krivak T. Impact of Postoperative Treatment on Stage IIIC Endometrial Cancer: A comparison of single modality to multimodality therapy. Poster Society of Gynecologic Oncologists (SGO), Austin, TX March 24-27, 2012
15. Maclsaac Z, Cray J, Shakir S, Greyson M, **Beriwal S**, Nguyen VT Adjuvant Radiation Therapy Techniques Following Mastectomy and Breast Reconstruction. Oral 58th Annual

Meeting of the Robert H. Ivy Society of Plastic Surgeons, March 9-10, 2012 Inn at Penn, Philadelphia, PA

16. Ristau B, **Beriwal S**. PSA Outcomes After Cesium Prostate Brachytherapy. Accepted Poster 2011 Northeastern Section Annual Meeting; to be held in New Orleans, LA, October 27-30, 2011
17. Ristau B, **Beriwal S**. Predicting Urinary Morbidity After Prostate Brachytherapy. Accepted Poster 2011 Northeastern Section Annual Meeting; to be held in New Orleans, LA, October 27-30, 2011
18. 3D HDR Brachytherapy for Medically Inoperable Endometrial Cancers – Dosimetry and Early Clinical Results. **Beriwal S**, Olson AC, Kim H, Houser C, Wegner RE, Heron DE, Richard SD, Kelley JL, Edwards R, Sukumvanich P, Zorn KK, Krivak TC, Olawaiye AB. Poster GEC-ESTRO-ISIORT Conference Paris, France, May 7-10, 2011
19. Molecular Class as a Predictor of Local, Distant, and Overall Recurrence in the Neoadjuvant Setting for Breast Cancer. **Beriwal S**, Vargo JA, Ahrendt GM, Soran A, Johnson RR, McGuire K, Bhargava R. Oral – Travel Grant American Radium Society (ARS), Palm Beach, FL April 30-May 4, 2011
20. Two Year PSA Outcome after Cesium Prostate Brachytherapy. Smith RP, **Beriwal S**, Jacobs B, Benoit R. Poster American Brachytherapy Society, San Diego, CA April 14-16, 2011
21. Preoperative High Dose Rate Brachytherapy for Clinical Stage IIb Endometrial Carcinoma. **Beriwal S**, Shukla G. Poster Discussion American Brachytherapy Society, San Diego, CA April 14-16, 2011
22. IPSA based HDR interstitial brachytherapy planning for vaginal cancer: Dosimetric comparison with manually optimized planning. Kim H, **Beriwal S**, Houser C. Poster Discussion American Brachytherapy Society, San Diego, CA April 14-16, 2011
23. 3D Image-based HDR Interstitial Brachytherapy for Vaginal Cancer. Rwigema J-CM, **Beriwal S**, Higgins E, Kim H, Sukumvanich P, Olawaiye A, Richard S, Kelley JL, Edwards RP, Krivak TC. Oral American Brachytherapy Society, San Diego, CA April 14-16, 2011
24. 3D HDR Image Guided Brachytherapy for the treatment of Cervical Cancer: Feasibility and Early Results. Kannan N, Kim H, Houser, C, Mogus R. Sukumvanich P, Olawaiye A, Richard S, Kelley JL, Edwards RP, Krivak TC, **Beriwal S**. Poster Discussion American Brachytherapy Society, San Diego, CA April 14-16, 2011
25. Kanter D, Shi X-H, **Beriwal S**, Epperly MW, Greenberger JS, Sadovsky Y. Ionizing radiation causes cell injury in primary human trophoblasts. Poster Society for Gynecological Investigation (SGI), Miami, FL March 16-19, 2011
26. Skaxnik-Wikiel M, Lesnock J, McBee W, Taylor S, **Beriwal S**, Smith A, Zorn K, Richard S, Krivak T, Edwards R. Intraperitoneal Chemotherapy for Recurrent Ovarian Cancer Appears Efficacious with High Completion Rates and Low Complications. Accepted Society of Gynecologic Oncologists (SGO), San Antonio, TX March 3-6, 2011

27. Smith RP, **Beriwal S**, Jacobs B, Benoit R. Two Year PSA Outcomes after Cesium Prostate Brachytherapy. Poster 2011 American Society of Clinical Oncology Genitourinary Cancers Symposium, Orlando, FL February 17-19, 2011
28. Smith RP, **Beriwal S**, Vargo JA, Benoit R. Lower Urinary Tract Morbidity after Prostate Brachytherapy with Cesium-131. Poster 2011 American Society of Clinical Oncology Genitourinary Cancers Symposium, Orlando, FL February 17-19, 2011
29. **Beriwal S**, Smith RP, Vargo JA, Benoit RM. Bowel Morbidity after Prostate Brachytherapy with Cesium-131. Poster 2011 AMERICAN SOCIETY OF CLINICAL ONCOLOGY Genitourinary Cancers Symposium, Orlando, FL February 17-19, 2011
30. Kehwar TS, DeFoe GS, **Beriwal S**, Jones HA, Heron DE. Evaluation of Treatment Outcome of the Patients with Anal Cancer Treated Using IMRT Technique: Radiobiological Study. Oral Radiological Society of North America (RSNA), Chicago, IL, November 29-December 3, 2009
31. **Beriwal S**, Kim H, Houser C. Evaluation of Geometric Error with Daily Image Guidance for Gynecological Cancers. Poster American Radium Society (ARS), Cancun, Mexico, May 1-5, 2010.
32. Defoe SG, **Beriwal S**, Jones H, Rakfal S, Heron DE, Smith R. Outcome Analysis of Intensity Modulated Radiation Therapy and Concurrent Chemoradiation Therapy for Anal Carcinoma in a NCI Designated Integrated Cancer Center Network. Oral American Radium Society (ARS), Cancun, Mexico, May 1-5, 2010.
33. Smith RP, Benoit R, **Beriwal S**, Jones H, Kehwar TS. Predictors of Short and Long Term Urinary Toxicity in Cx-131 Prostate Brachytherapy Implants. Oral American Brachytherapy Society, Atlanta, GA April 29-May 1, 2010.
34. Olson AC, **Beriwal S**, Kim H, Houser C, Wegner RE, Heron DE, Richard SD, Kelly JL, Edwards RP, Sukumvanich P, Zorn KK, Krivak TK, Olawaiye AB. 3D treatment planning for medically inoperable endometrial cancer: dosimetric analysis and early clinical outcomes. Oral American Brachytherapy Society, Atlanta, GA April 29-May 1, 2010.
35. Kehwar TS, Jones HA, **Beriwal S**, Benoit RM, and Smith RP. Analysis of Biochemical and Physical Parameters Responsible for Development of Edema in ¹³¹CS Permanent Prostate Implant Patients. Poster American Brachytherapy Society, Atlanta, GA April 29-May 1, 2010.
36. Kim H., Houser C, Mogus R, **Beriwal S**. Dosimetric analysis for 3D image based HDR interstitial brachytherapy for cervical cancer. Oral American Brachytherapy Society, Atlanta, GA April 29-May 1, 2010.
37. Beck T, Sukumvanich P, Rubatt JM, **Beriwal S**, Zorn K, Richard S, Edwards RP, Krivak T. Impact of the NCI Clinical Announcement on Cervical Cancer Survival. Poster Society of Gynecologic Oncologists (SGO), 40th Annual Meeting on Women's Cancer, San Francisco, CA March 14-17, 2009.
38. Courtney-Brooks M, Rubatt J, **Beriwal S**, Zorn K, Richard S, Sukumvanich P, Krivak T.

Surgery versus radiation therapy for stage IB2 cervical carcinoma: a population based outcome analysis in the era of chemoradiation. Focused plenary cervix session Tuesday Oral Society of Gynecologic Oncologists (SGO), 40th Annual Meeting on Women's Cancer, San Francisco, CA March 14-17, 2009.

39. Taylor SE, McBee Jr, WC, **Beriwal S**, Richard SD, Zorn KK, Kelley J, Krivak TC, Sukumvanich P. Treatment trends for patients with stage IB2 cervical cancer: A population based analysis. Poster Society of Gynecologic Oncologists (SGO), 40th Annual Meeting on Women's Cancer, San Francisco, CA March 14-17, 2009.
40. Bhargava R, **Beriwal S**, Dabbs DJ. IGF-1R Expression in Normal Breast Tissue, Benign, Proliferative, In-Situ Breast Lesions, and Invasive Breast Carcinoma. Oral San Antonio Breast Cancer Symposium (SABCS), San Antonio, TX, December 10-13, 2009.
41. Bhargava R, Sukumvanich S, **Beriwal S**. Pregnancy Related Breast Carcinoma: Comparison of Receptor Status with Age-Matched Controls. San Antonio Breast Cancer Symposium (SABCS), San Antonio, TX, December 10-13, 2009.
42. Kim H, **Beriwal S**, Huq MS. Measurement of Inter-fraction Changes in Bladder Volume Using Ultrasound Image Guidance for Gynecological Radiotherapy. Oral World Congress on Medical Physics, Munich, Germany September 7-12, 2009.
43. Kim H, **Beriwal S**, Huq MS. Dosimetric Analysis of 3D Image Guided HDR Brachytherapy Planning for the Treatment of Cervical Cancer.. Oral American Brachytherapy Society, Toronto, ONT May 31-June 2, 2009.
44. Wegner RE, Heron DE, Kim H, Mogus R, **Beriwal S**. Definitive Radiation Therapy for Endometrial Cancer in Medically-inoperable Elderly Patients. Poster American Brachytherapy Society, Toronto, ONT May 31-June 2, 2009.
45. Gokhale A, **Beriwal S**, Smith R, Benoit R, Li X. Clinical and Dosimetric Variables Associated with Acute Bowel Toxicity Following Prostate Seed Brachytherapy with Cesium-131. Poster American Brachytherapy Society, Toronto, ONT May 31-June 2, 2009.
46. Gan GN, Heron DE, Kim H, **Beriwal S**. Is there a dosimetric correlate for hematological toxicity in Cervical Cancer Patients Treated with Concurrent Chemotherapy and Extended-Field Intensity-Modulated Pelvic Radiotherapy. Oral American Radium Society, Vancouver, BS April 25-29, 2009.
47. **Beriwal S**, Gokhale A, Smith R, Benoit R, Li X. Factors Predicting Acute Bowel Toxicity Following Prostate Seed Brachytherapy with cesium-131 (Cs-131). Poster American Radium Society, Vancouver, BS April 25-29, 2009.
48. Bhargava R, **Beriwal S**, Dabbs DJ. Concordance between Semi-quantitative Immunohistochemical Assay and onco^{type}DXTM RT-PCR Assay for Estrogen and Progesterone Receptors. Poster United States and Canadian Academy of Pathology, Boston, MA March 7-13, 2009.

49. Unal B, Gur AS, **Beriwal S**, Johnson R, Ahrendt GM, Bonaventura M, Soran A. Predicting the Burden of Axillary Disease in Breast Cancer Patients with a Positive Sentinel Node. Poster San Antonio Breast Cancer Symposium, San Antonio, TX December 10-14, 2008
50. Bhargava R, Dabbs DJ, **Beriwal S**. ALDH1 Expression in Human Breast Carcinoma. Poster San Antonio Breast Cancer Symposium, San Antonio, TX December 10-14, 2008.
51. Bhargava R, **Beriwal S**, Goldman F, Dabbs D, Brufsky A, Lembersky B, Johnson R. Breast Cancer Molecular Classification Using Immunohistochemical Surrogate Markers Predicts Response to Neoadjuvant Chemotherapy. Poster San Antonio Breast Cancer Symposium, San Antonio, TX December 10-14, 2008.
52. Jacobs BL, Gibbons EP, Smith RP, **Beriwal S**, Benoit RM. Resolution of Acute Urinary Symptoms after Prostate Brachytherapy with Cesium-131. Poster Society of Urologic Oncology, NIH, Bethesda, MD December 4-6, 2009.
53. Balk J, Day R, Rosenzweig MQ, **Beriwal S**, Laychak K. Acupuncture for Cancer-related Fatigue: A Randomized Sham-controlled Pilot Trial. Oral Society for Integrative Oncology, Atlanta, GA November 20-21, 2008.
54. Rungruang BJ, **Beriwal S**, Kelley J, Richard S, Sukumvanich P. Axillary Lymph Node Metastasis in Pregnancy Associated Breast Cancer. Oral 39th Annual Society of Gynecologic Oncology (SGO), Tampa, FL February 15-17, 2008.
55. Rungruang R, **Beriwal S**, Kelley J, Sukumvanich P. Outcomes of Pregnancy-associated Breast Cancer Based on Timing of Diagnosis. Oral 39th Annual Society of Gynecologic Oncology (SGO), Tampa, FL February 15-17, 2008.
56. **Beriwal S**, Coon D, Heron DE, Kelley JL, Edwards RP, Sukumvanich P, Zorn KK, Krivak TC. Preoperative Chemotherapy with Intensity Modulated Radiation Therapy for Locally Advanced Vulvar Cancer. Oral 39th Annual Society of Gynecologic Oncology (SGO), Tampa, FL February 15-17, 2008.
57. Li X, Ding C, Yang Y, Smith R, Deutsch M, **Beriwal S**, Heron DE, Huq MS. Ultrasound-guided Prostate IMRT Planning: An Ultrasound-CT Application. AAPM, Minneapolis, MN July 22-26, 2007.
58. **Beriwal S**, Heron DE, Kim H, Falk J, Johnson R. Accelerated Partial Breast Irradiation with MammoSite Catheter: An Outcome Analysis with Minimum 2 Years Follow Up. Optimal Use of Advanced Radiotherapy in Multimodality Oncology, Rome, Italy June 20-23, 2007
59. **Beriwal S**, Heron DE, Mogus R, Edwards RP, Kelley JL, Sukumvanich. High-Dose Rate Brachytherapy (DMRB) for Primary or Recurrent Vaginal Cancer. American Brachytherapy Society, Chicago, IL April 29-May 1, 2007.
60. Soran A, **Beriwal S**, Kocer B, Wilson J, Ahrendt G, Johnson R. Tumor and Sentinel Node Pathology Characteristics Predict Axillary Node Burden in Breast Cancer Patients with a Positive Sentinel Node. American Society of Breast Disease, San Francisco, CA April 12-14, 2007.

61. **Beriwal S**, Bhatnagar A, Heron DE, Flickinger J, Smith R, Deutsch M, Lalonde R, Huq S, Sontag M, Shogan J. Tangential Beam Intensity modulated Radiation Therapy (IMRT) for Women with Large Size Breast – Dosimetric and Acute Toxicity Study. American College of Radiation Oncology, 2007, San Diego, CA February 22-24, 2007.
62. Richard SD, Krivak TC, Castleberry A, **Beriwal S**, Kelley JL, Edwards RP, Sukumvanich S. Survival for Stage IB Cervical Cancer with Positive Lymph Node Involvement: A Comparison of Completed vs. Aborted Radical Hysterectomy. Oral SGO, Beaver Creek, CO February 1-3, 2007.
63. Casttleberry A, **Beriwal S**, Zorn KK, Kelley IIIJL, Edwards RP, Sukumvanich P. Impact of Race on Outcomes in Cervical and Vaginal Cancer. Poster SGO, Beaver Creek, CO February 1-3, 2007.
64. Bhatnagar AK, **Beriwal S**, Flickinger J, Deutsch M, Huq MS, Sontag M, Shogan J, Heron DE. Initial Clinical Outcomes Analysis of Large Multi-Center Integrated Cancer Network for Implementation of Intensity Modulated Radiation Therapy for Breast Cancer. Poster 29th Annual San Antonio Breast Cancer Symposium, San Antonio, TX, 2006.
65. Gan G, **Beriwal S**, Heron DE, Kelly JL, Edwards RP. Prone vs. Supine Position Pelvic IMRT for Endometrial Cancer – a Dosimetric and Toxicities Comparison Study. Poster ESTRO, European Society for Therapeutic Radiology and Oncology, Leipzig, Germany October 8-12, 2006.
66. Smith RP, Bhatnagar AK, **Beriwal S**, Flickinger JF, Deutsch M, Huq S, Lalonde R, Heron DE. Higher Toxicity Exists in Patients Treated with Combined External Beam Radiation Plus Brachytherapy Compared to External Beam Radiation Alone. RSNA, Chicago, IL November 26-December 1, 2006.
67. Kim H, **Beriwal S**, Heron DE, Huq MD, Yue NJ. Dosimetric Evaluation of Single and Multiple Dwell Position Techniques for MammoSite Breast Treatment. Oral World Congress on Medical Physics and Biomedical Engineering 2006, Seoul, Korea, 2006.
68. Kim H, **Beriwal S**, Heron DE, Huq MD, Yue NJ. Dosimetric Evaluation of MammoSite Breast AAPM, July 30-August 3, 2006, Orlando, FL Poster, 2006.
69. Carter G, Kelley J, **Beriwal S**, Chivukula M. Malignant Mixed Mullerian Tumor of Uterus with Neuroectodermal Differentiation and Maturation into a Ganglioneuroblastoma. College of American Pathologists, San Diego, CA. September 10, 2006.
70. **Beriwal S**, Kim H, Heron DE, Selvaraj RN. Comparison of 2D vs. 3D Dosimetry for Rotte ‘Y’ Applicator High Dose Rate Brachytherapy for Medically Inoperable Endometrial Cancer. American Radium Society, Maui, Hawaii ,May 6-10, 2006.
71. **Beriwal S**, Jain SK, Heron DE, Kim H, Gerszten K, Edwards RP, Kelley JL. Clinical Outcome with Adjuvant Treatment of Endometrial Carcinoma using Intensity-Modulated Radiation Therapy. Poster #230 37th Annual Meeting, SGO, Palm Springs, CA March 22-26, 2006.

72. Garsa A, **Beriwal S**, Andrade RS, Kim H, Brandner E, Chen H, Comerici J, Heron DE – Respiratory-Gated Whole Abdominal Intensity-Modulated Radiotherapy for Ovarian Cancer: A Feasibility Study Poster Ovarian Cancer: Prevention and Detection of the Disease and its Recurrence Symposium, UPMC, October 24-25, 2005.
73. **Beriwal S**. Neoadjuvant Chemotherapy in Breast Cancer – Long Term Results with Clinical Factors Predictive of Response, Hahnemann University Hospital, 2005 ARS 87th Meeting, Barcelona, Spain April 30-May 4, 2005.
74. Selvaraj R, Wu A, Sonnik D, Mogus R, Fitian ID, Gerszten K, **Beriwal S**, Bhatnagar A, Saw CB, Falk J, Yue NJ, Heron DE, Huq MS - A Quantitative Analysis of the Dose Received by Thyroid and Outer Canthus of the Eye from Treatment of Breast Cancer Using Balloon Catheter Based MammoSite® Brachytherapy Poster 2005 ARS 87th Meeting, Barcelona, Spain April 30-May 4, 2005.
75. **Beriwal S**, Bhatnagar A, Heron DE, Selvaraj RN, Comerici JC - Image Guided High – Dose Rate Interstitial Brachytherapy (HDRB) for Gynecologic Malignancies. American Brachytherapy Society, San Francisco, CA. Poster 2005.
76. Bhatnagar A, **Beriwal S**, Heron DE, Gerszten K, Selvaraj R, Mogus R, Comerici J – Primary Treatment of Medically Inoperable Endometrial Cancer with multi Channel Uterine (Rotte-Y) Applicator. Oral presentation American Brachytherapy Society, San Francisco, CA, 2005.
77. **Beriwal S**, Komarnicky L, Schwartz G. Neoadjuvant Chemotherapy in Breast Cancer – Clinical Factors Predictive of Response with Long Term Results. Presented at American Radium Society Annual Meeting, 2004.
78. **Beriwal S**, Youssef A, Glennon P. Volumetric Comparison of Preplanned and OR Planned Prostate Seed Brachytherapy. Oral presentation for American Brachytherapy Society Annual Meeting at Orlando in May, 2002.
79. Singh DP, **Beriwal S**, Sharma SC, Kochhar R, Bhasin D, Ghoshal S, Singh K. Analysis of Factors Responsible for Outcome of Primary Gastric Lymphoma. XX Annual Conference of Association of Radiation Oncologists of India, Cuttak, Dec. 3-6, 1998.
80. Sehgal CM, Patel FD, Ghosal S, Kehwar TS, **Beriwal S**. Comparative Evaluation of Concurrent Chemotherapy and Hyperfractionated Radiotherapy Versus Conventional Radiotherapy Alone in the Treatment of Locally Advanced Carcinoma Cervix- a Prospective Randomized Study. XX Annual Conference of Association of Radiation Oncologists of India, Cuttak, Dec. 3-6, 1998.
81. **Beriwal S**, Singh DP, Sharma SC. Malignant Extradural Cord Compression-a Retrospective Study. Vth Annual Conference Northern Chapter of Association of Radiation Oncologists of India, New Delhi, Oct. 24-25, 1998.

TEACHING

Residents in Radiation Oncology, 2004 to present: 25 Residents

Mentor Residents in Research, number of published manuscripts as senior author and mentor: more than 40 manuscripts since 2005

Fellows in Gynecologic Oncology: Provide didactic lecture to fellows at least once per academic year. One (or more) month rotation during three year fellowship, 2005 to present: 15 Fellows

Fellows in Surgical Oncology: One or more month rotation during fellowship, 2009 to present: 9 Fellows

Medical Students - Summer and/or longitudinal research, 2004 to present: 10 students with more than 10 publications.

Received mentorship award from UPMC medical students 2013

Residency Director since September 2007.

Invited as teaching faculty to national and international meetings organized by: American Brachytherapy Society since 2010; American Society for Radiation Oncology since 2013; American College of Radiation Oncology 2010 and 2015; Association of Radiation Oncologists of India 2014; American Society of Clinical Oncology 2014

Course director for gynecologic brachytherapy for annual American Brachytherapy Society meeting 2012

American Brachytherapy Society tract Reviewer since 2011 for annual meeting organized by: American Society of Radiation Oncology; American Brachytherapy Society

Moderator and organizer for weekly conducted SAM CME, Monday at noon for community attending physicians and residents. 2008

Weekly moderator journal club and case based discussion for residents, two days per week since 2008

Mentored resident for grant funding:

Malolan Rajagopalan, M.D. - \$20,000 from ROI 2013

Beant Gill, M.D. - \$20,000 for brachytherapy educational video 2014

Malolan Rajagopalan, M.D. - \$20,000 through Beckwith Foundation 2015

Brian Gebhardt, M.D. - \$4,500 through Thomas H. Nimick, Jr. Research Fund 2016

ACRO webinar on image based brachytherapy for residents

Invited Lectures

Invited for contributing to American Brachytherapy guidelines article for vaginal, cervical and endometrial cancer since 2010

Invited for contributing to consensus guidelines for contouring for cervical, endometrium and vulvar cancer since 2013

Invited visiting attending to: University of Rochester 2014; Drexel University 2010; Cleveland Clinic Foundation 2009 and 2017; University of Maryland 2014 and 2019; University of Medicine and Dentistry of New Jersey 2014; University of Georgetown 2016

Invited to teaching course for American Brachytherapy Society (ABS) annual meeting 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018

Invited for teaching course for American College of Radiation Oncology (ACRO) annual meeting 2015.

Invited for teaching course for American Society for Radiation Oncology (ASRO) annual meeting 2015.

Invited for moderating session for ASRO annual meeting in 2013.

Invited for Gynecology teaching course organized by ASRO, ABS and American Society of Clinical Oncology (ASCO) 2014.

Invited for Gynecological brachytherapy school teaching course in 2013, 2013, 2014.

Invited speaker for AROI annual meeting in India 2014.

Invited for CME on advance radiation therapy in India 2014.

Invited for ASCO sponsored course for developing country in Myanmar 2015

American Gynecological Brachytherapy Chair for World Congress of Brachytherapy. June 2016

Accelerated Partial Breast Radiation Therapy at Breast Conference at New York University, NY

Panel discussion on Different Techniques of APBI at American Brachytherapy Society, Boston MA 2008.

Breast Care Conference, Turkey, November 2008.

Invited Speaker – IMRT for Pelvic Malignancy Workshop, Kumarkaon, Kerala, India May 2009.

Contouring and Dosimetric Constraints for Gynecologic Malignancies in the Modern Era. University of Pittsburgh, Pittsburgh, PA ACRO, Lake Buena Vista, FL February 25-27, 2009.

Moderator for the gynecologic session on IMRT/IGRT-American Brachytherapy Society, Atlanta, GA, April 29-May 1, 2009.

Case Studies #5: Contouring and Dosimetric Constraints for Gynecologic Malignancies in the Modern Era. Dr. Sushil Beriwal, University of Pittsburgh, Pittsburgh, PA. ACRO, Lake Buena Vista, FL. February 25-27, 2010.

Feasibility, Concerns, and Methods for Target Coverage and OAR Sparing when using IMRT/IGRT for Cervix Cancer on Thursday, April 29, 2010 at 1:45 Beriwal S. ABS, Atlanta, GA. April 29-May 1, 2010.

Panel Presentation: Sushil Beriwal Image based brachytherapy for cervical cancer. ABS, San Diego, CA April 2011.

Chair – Gyn Section at ABS Annual Meeting 2011.

Invited Speaker – APBI and Image based brachytherapy for cervical cancer at regional chapter of AROI, Chennai, India, September 2009.

Image Base Brachytherapy at RTOG, Philadelphia, PA, June 2011

Invited Speaker – Grand Rounds Lecture Series at the Rutgers Cancer Institute of New Jersey. Image Based HDR Brachytherapy – Clinical Data and Practical Guidelines. New Brunswick, NJ, February 2014

Invited lecture for ACRO, May 2015

Invited lecture for ABS, April 2015, 2016

Invited lecture ABS Gyne school, 2015, 2016

Invited teaching course at ASTRO annual meeting, 2015, 2016, 2017

CME Trivandrum India on Gynecological cancers, September 2015

Invited visiting attending lecture for Georgetown University Hospital, April 2016

Invited for Roger A. Potish Memorial lecture at University of Minnesota, June 2016

Invited talk ASTRO annual meeting on image vased brachytherapy, Boston, September 2016

Invited talk for clinical pathways for clinical pathways congress, Boston, September 2016

Other research related activities:

February 2009 to present	International Editorial Board The Journal of Breast Health	Board Member
November 2009 to present	Brachytherapy	Editorial Board Member
September 2013 to present	International Journal of Radiation Oncology *Biology*Physics	Associate Editor
August 2013 to present	North Zone Association of Radiation Oncologists of India Journal	Editorial Board Member
September 2018	ASTRO's Cervical Cancer Guideline Task Force	

Committees:

Magee-Womens Hospital of UPMC	Medical Executive Committee	2004 to present
Magee-Womens Hospital of UPMC	Cancer Committee	2004 to present
Magee-Womens Hospital of UPMC	Radiation Safety Committee	2004 to 2014
Magee-Womens Hospital of UPMC	Weekly Tumor Board	2004 to present
Magee-Womens Hospital of UPMC	Weekly Breast Conference	2004 to present
Weekly D3 Web Rounds (Course Director)		2007 to present
NRG Radiation Therapy Committee		2012 to present
NRG Cervical Cancer Committee		2012 to present
ABR Board of Examiners for Gyn (oral and written)		2012 to present
Co-chair Gyn section for American Brachytherapy Society annual meeting		2012
Co-chair SAM committee for American Brachytherapy Society annual meeting		2014

Journal referee/reviewer

*The International Journal of Radiation Oncology*Biology*Physics*

Radiotherapy and Oncology

Brachytherapy

Radiation Oncology

American Journal of Clinical Oncology

International Journal of Gynecologic Oncology

Cancer

Frontiers in Oncology

Gynecology Oncology

Red Journal

Senior Editor

Recent Funding

\$127,000 from IsoRay for 3 years: Ronald Benoit, Sushil Beriwal, Ryan P. Smith. Unrestricted grant for helping with database to evaluate outcomes analysis of CS131 PSI. Supporting data manager with no salary support 2008

Co-Investigator 2013

Development of symptom management tool for radiation morbidities, \$20,000 through Radiation Oncology Institute Mentoring residents, no salary support

Co-Investigator 2014

Development of education tool for Gynecology Brachytherapy, \$15,000 through Magee-Womens Hospital Mentoring residents, no salary support

Co-Investigator 2015

Development of choice tool for management of brain metastases, \$20,000 through Beckwith Foundation Mentoring residents, no salary support

RSNA Education Innovation Award BC526099

Beriwal (Co- PI)

07/01/2019-06/30/2022

Improving Radiation Contour Quality at the Point of Care by Integration 3D Image-based Contouring Guidelines, Radiographic Anatomy, and Feedback in to the Clinical Workflow

The goal of this award is to develop improved curriculum for radiation oncology residents to learn technical proficiency in radiation oncology.

R42CA203171

Beriwal (UPMC PI)

07/01/2019-06/30/2021

Clinical Validation and Commercialization of a Novel Hydrogel-based Vaginal Packing System for Pelvic Brachytherapy
The goal of this grant is feasibility of using novel hydrogel for cervical cancer to reduce rectal dose.