

CURRICULUM VITAE

BIOGRAPHICAL

Sushil Beriwal, MD, MBA, FABS
605 Ciderberry Drive
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Birth Place: India
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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)	

10/02/2017

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	

10/02/2017

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

HONORS

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, 2013, 2014, 2015, 2016, 2017, 2018
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. Munshi A, Patel FD, Sharma SC, **Beriwal S**, Singh DP. Primary Sarcoma of the Gall Bladder. *Bull PGI* 33:143-145, 1999.

10/02/2017

2. Munshi A, Singh P, **Beriwal S**, Singh DP, Sandhu MS, Khosla VK, Jeyasangar G, Sharma SC. Intramedullary Metastasis – a Rare Case of Spinal Cord Compression. *Bull PGI* 33:115-117, 1999.
3. Munshi A, Patel FD, Sharma SC, **Beriwal S**. Cerebral Metastasis in a Case of Carcinoma Ovary. *Bull PGI*;33:149-151, 1999.
4. **Beriwal S**, Singh S, Garcia-Young JA. Tumor Lysis Syndrome in Extensive-stage Small Cell Lung Cancer. *Am J Clin Oncol* 2002 25(5):474-475. PMID: 12393987.
5. Jain H, **Beriwal S**, Singh S. Alcohol Induced Ketoacidosis, Severe Hypoglycemia and Irreversible Encephalopathy. *Med Sci Monit* 2002 8(11)CS77-79. PMID: 12444383.
6. **Beriwal S**, Hou JS, Miyamoto C, Garcia-Young JA.. Primary Dural Low Grade BCL-2 Negative Follicular Lymphoma: a Case Report. *J Neurooncol* 2003 61(1):23-25. PMID: 12587792.
7. **Beriwal S**, Eidelman A, Micaily B. Three-dimensional Conformal Radiotherapy for Treatment of Extensive Juvenile Angiofibroma: Report on Two Cases. *ORL J Otorhinolaryngol Relat Spec* 65 2003 (4):238-241. PMID: 14564102.
8. **Beriwal S**, Schwartz GF, Komarnicky L, Garcia-Young JA. Breast-conserving Therapy After Neoadjuvant Chemotherapy: Long Term Results. *Breast J* 2006 12(2):159-164. PMID: 16509842.
9. **Beriwal S**, Heron DE, Kim H, King G, Shogan J, Bahri S, Gerszten K, Lee J, Kelley J, Edwards RP. Intensity-Modulated Radiotherapy for the Treatment of Vulvar Carcinoma: a Comparative Dosimetric Study with Early Clinical Outcome. *Int J Radiat Oncol Biol Phys* 2006 64(5):1395-1400. PMID: 16442238.
10. **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. *Gynecol Oncol* 2006 102(2):195-199, PMID: 16647748.
11. **Beriwal S**, Kim H, Heron DE, Selvaraj R. Comparison of 2D vs. 3D Dosimetry for Rotte 'Y' Applicator High Dose Rate Brachytherapy for Medically Inoperable Endometrial Cancer. *Technol Cancer Res Treat* 2006 5(5):521-527. PMID: 16981795.
12. **Beriwal S**, Bhatnagar A, Heron DE, Selvaraj R, Mogus R, Kim H, Gerszten K, Kelley J, Edwards RP. High-dose-rate Interstitial Brachytherapy for Gynecologic Malignancies. *Brachytherapy* 2006 5(4):218-222. PMID: 17118313.
13. **Beriwal S**, Jain SK, Heron DE, de Andrade RS, Lin CJ, Kim H. Dosimetric and Toxicity Comparison Between Prone and Supine Position IMRT for Endometrial Cancer. *Int J Radiat Oncol Biol Phys* 2007 67(2):485-489. PMID: 17084548.
14. Bhargava R, **Beriwal S**, Dabbs DJ. Mammaglobin vs GCDFP-15: an Immunohistologic Validation Survey for Sensitivity and Specificity. *Am J Clin Pathol* 2007 127(1):103-113. PMID: 17145637.
15. Garsa AA, Andrade RS, Heron DE, **Beriwal S**, Kim H, Brandner E, Kuo G, Chen H, Gerszten K, Yue JN, Huq MS, Lee J, Lalonde R, Wu A. Four-dimensional Computed

Tomography-based Respiratory-gated Whole-abdominal Intensity-Modulated Radiation Therapy for Ovarian Cancer: a Feasibility Study. *Int J Gyn Cancer* 2007 17:55-60. PMID: 17291232.

16. Selvaraj RN, Bhatnagar A, **Beriwal S**, Huq MS, Heron DE, Sonnik D, Brandner E, Surgent R, Mogus R, Deutsch M, Gerszten K, Wu A, Kalnicki S, Yue NJ, Saw CB. Breast Skin Doses from Brachytherapy Using MammoSite HDR, Intensity Modulated Radiation Therapy, and Tangential Fields Technique. *Technol Cancer Res Treat* 2007 6(1):17-22. PMID: 17241096.
17. **Beriwal S**, Gan GN, Heron DE, Selvaraj RN, Kim H, Lalonde R, Kelley JL, Edwards RP. Early Clinical Outcome with Concurrent Chemotherapy and Extended-field, Intensity-modulated Radiotherapy for Cervical Cancer. *Int J Radiat Oncol Biol Phys* 2007 68(1):166-171. PMID: 17321070.
18. Soran A, Evrensel T, **Beriwal S**, Mogus R, Keenan D, Kelley JL, Balkan M, Harlak A, Bonaventura MA, Johnson R, Falk JS. Placement Technique and the Early Complications of Balloon Brachytherapy: Magee-Womens Hospital Experience. *Am J Clin Oncol* 2007 30(2):152-155. PMID: 17414464.
19. Yue NJ, Li X, **Beriwal S**, Heron DE, Sontag MR, Huq MS. The Intrafraction Motion Induced Dosimetric Impacts in Breast 3D Radiation Treatment: a 4DCT Based Study. *Med Phys* 2007 34(7):2789-2800. PMID: 17821986.
20. Selvaraj RN, **Beriwal S**, Pourarian RJ, Lalonde RJ, Chen A, Mehta K, Brunner G, Wagner KA, Yue NJ, Huq SM, Heron DE. Clinical Implementation of Tangential Field Intensity Modulated Radiation Therapy (IMRT) Using Sliding Window Technique and Dosimetric Comparison with 3D Conformal Therapy (3DCRT) in Breast Cancer. *Med Dosim* 2007 32(4):299-304. PMID: 17980832.
21. Richard SD, Krivak TC, **Beriwal S**, Zorn KK. Recurrent Metastatic Vulvar Carcinoma Treated with Cisplatin Plus Cetuximab. *Int J Gynecol Cancer* 2007 18(5):1132-1135. PMID: 18021214.
22. Coon D, **Beriwal S**, Swerdlow SH, Bhargava R. Mucosa-associated Lymphoid Tissue Lymphoma of the Cervix. *J Clin Oncol* 2008 26(3):503-504. PMID: 18202426.
23. Richard SD, Krivak TC, Castleberry A, **Beriwal S**, Kelley JL 3rd, Edwards RP, Sukumvanich P. Survival for Stage IB Cervical Cancer with Positive Lymph Node Involvement: a Comparison of Completed vs. Abandoned Radical Hysterectomy. *Gynecol Oncol* 2008 109(1):43-48. PMID: 18234297.
24. **Beriwal S**, Soran A, Kocer B, Wilson JW, Ahrendt GM, Johnson R. Factors that Predict the Burden of Axillary Disease in Breast Cancer Patients with a Positive Sentinel Node. *Am J Clin Oncol* 2008 31(1):34-38. PMID: 18376225.
25. Coon D, **Beriwal S**, Heron DE, Kelley JL, Edwards RP, Sukumvanich P, Zorn KK, Krivak TC. High-Dose-Rate Rotte "Y" Applicator Brachytherapy for Definitive Treatment of Medically Inoperable Endometrial Cancer: 10-Year Results. *Int J Radiat Oncol Biol Phys* 2008 71(3):779-783. PMID: 18258388.

26. **Beriwal S**, Heron DE, Mogus R, Edwards RP, Kelley JL, Sukumvanich P. High-dose Rate Brachytherapy (HDRB) for Primary or Recurrent Cancer in the Vagina. *Radiat Oncol* 2008 13;3:7, PMID: 18271958, PMCID: PMC2270281.
27. Flanagan MB, Dabbs DJ, Brufsky AM, **Beriwal S**, Bhargava R. Histopathologic Variables Predict Oncotype DX™ Recurrence Score. *Mod Pathol* 2008 54:1-7. PMID: 18360352.
28. Heron DE, Brufsky A, **Beriwal S**, Kurman M. Myelotoxicity of Samarium SM153 Lexidronam in Patients Receiving Prior Treatment with Chemotherapy or Radiotherapy. *Ann Oncol* 2008 19(9):1639-1643. PMID: 18467311.
29. **Beriwal S**, Coon D, Heron DE, Kelley JL, Edwards RP, Sukumvanich P, Zorn KK, Krivak TC. Preoperative Intensity-modulated Radiotherapy and Chemotherapy for Locally Advanced Vulvar Carcinoma. *Gynecol Oncol* 2008 109(2):291-295. PMID: 18455637.
30. Domfeh AB, Carley AL, Striebel J, Karabakhtsian RG, Florea AV, McManus K, **Beriwal S**, Bhargava R. WT1 Immunoreactivity in Breast Carcinoma: Selective Expression in Pure and Mixed Mucinous Subtypes. *Mod Pathol* 2008 21(10):1217-1223. PMID: 18469795.
31. Smith RP, **Beriwal S**, Komanduri K, Gibbons E, Benoit R. Planning Based on Postneedle Volume with Early Dosimetric Assessment Is Beneficial for Cesium-131 Permanent Prostate Seed Implantation. *Brachytherapy* 2008 7(3):237-241. PMID: 18599357.
32. Heron DE, Andrade RS, **Beriwal S**, Smith RP. PET-CT in Radiation Oncology- The Impact on Diagnosis, Treatment Planning and Assessment of Treatment Response. *Am J Clin Oncol* 2008 31(4):352-362. PMID: 18845994.
33. Williamson R, Smaldone MC, Gibbons EP, Smith RP, **Beriwal S**, Benoit RM. Prostate Brachytherapy Following Ileal Pouch-Anal Anastomosis Reconstruction. *Urology* 2008 73(2):369-373m PMID: 18708241.
34. Gibbons EP, Smith RP, **Beriwal S**, Krishna K, Benoit RM. Overcoming Pubic Arch Interference with Free-hand Needle Placement in Men Undergoing Prostate Brachytherapy. *Brachytherapy* 2009 8(1):74-78. PMID: 18793877.
35. Bhargava R, Chivukula M, **Beriwal S**, Dabbs D. Estrogen and Progesterone Receptors in Breast Carcinoma: Quantitation is Therapeutically Important. *Adv Anat Pathol* 2008 15(5)304-305.
36. **Beriwal S**, Coon D, Kim H, Haley M, Patel R, Das R. Multicatheter Hybrid Breast Brachytherapy: A Potential Alternative for Patients with Inadequate Skin Distance. *Brachytherapy* 2008 7(4):301-304. PMID: 18771962.
37. Bice WS, Prestidge BR, Kurtzman S, **Beriwal S**, Moran B, Patel R, Rivard MJ. Recommendations for Permanent Prostate Brachytherapy with ¹³¹Cs: a Consensus Report from the Cesium Advisory Group. *Brachytherapy* 2008 7(4):290-296. PMID: 18782682.
38. Haley M, **Beriwal S**, Heron DE, Kim H, Falk J, Johnson R, Mogus R. MammoSite® Accelerated Partial Breast Irradiation: A Single-institution Outcomes Analysis with 2 Years of Followup. *Brachytherapy* 2008 8(1):9-13, 2009, PMID: 18955020.

39. Bhargava R, **Beriwal S**, McManus K, Dabbs DJ. CK5 Is More Sensitive than CK5/6 in Identifying the “Basal-like” Phenotype of Breast Carcinoma. *Am J Clin Pathol* 2008 13(5):724-730. PMID: 18854264.
40. Jacobs BL, Gibbons EP, Smith RP, **Beriwal S**, Komanduri K, Benoit RM. Comparison Between Real-time Intra-operative Ultrasound-based Dosimetry and CT-based Dosimetry for Prostate Brachytherapy Using Cesium-131. *Brachytherapy* 2008 7(6):463-470. PMID: 19044326.
41. Bhargava R, Striebel J, **Beriwal S**, Flickinger JC, Onisko A, Ahrendt G, Dabbs DJ. Prevalence, Morphologic Features and Proliferation Indices of Breast Carcinoma Molecular Classes Using Immunohistochemical Surrogate Markers. *Int J Clin Exp Pathol* 2009 2(5):444-455. PMID: 19294003, PMCID: PMC2655155.
42. Bhargava R, **Beriwal S**, Dabbs DJ, Ozbek U, Soran A, Johnson RR, Brufsky AM, Lembersky BC, Ahrendt GM. Immunohistochemical Surrogate Markers of Breast Cancer Molecular Classes Predicts Response to Neoadjuvant Chemotherapy: A Single Institutional Experience with 359 Cases. *Cancer*. 2010 116(6):1431-1439. PMID: 20131351.
43. Gibbons EP, Jacobs BL, Smith RP, **Beriwal S**, Krishna K, Benoit RM. Dosimetric Outcomes in Prostate Brachytherapy: Is Downsizing the Prostate with Androgen Deprivation Necessary. *Brachytherapy* 2009 83(3):304-308. PMID: 19217354.
44. Balk J, Day R, Rosenzweig M, **Beriwal S**. A Pilot Randomized Modified Double-blind Placebo-controlled Trial of Acupuncture for cancer-related fatigue. *J Soc Integr Oncol* 2009 7(1):4-11. PMID: 19476729.
45. Unal B, Gur AS, **Beriwal S**, Tang G, Johnson R, Ahrendt G, Bonaventura M, Soran A. Predicting Likelihood of Having Four or More Positive Nodes in Patient with Sentinel Lymph Node-positive Breast Cancer. *Int J Radiat Oncol Biol Phys* 2009 75(4):1035-1040. PMID: 19327916.
46. **Beriwal S**, Kim H, Coon D, Mogus R, Heron DE, Li X, Huq MS. Single Magnetic Resonance Imaging vs Magnetic Resonance Imaging/Computer Tomography Planning in Cervical Cancer Brachytherapy. *Clin Oncol* 2009 21(6):483-487. PMID: 19423307.
47. Gokhale AS, McLaughlin BT, Flickinger JC, **Beriwal S**, Heron DE, Ferris RL, Johnson J, Gibson MK, Argiris A, Smith RP. Clinical and Dosimetric Factors Associated with a Prolonged Feeding Tube Requirement in Patients Treated with Chemoradiation (CRT) for Head and Neck Cancer. *Ann of Oncol* 2009 21(1):145-151. PMID: 19602566.
48. Bhatnagar AK, **Beriwal S**, Heron DE, Flickinger JC, Deutsch M, Huq MS, Sontag M, Shogan J. Initial Outcomes Analysis for Large Multicenter Integrated Cancer Network Implementation of Intensity Modulated Radiation Therapy for Breast Cancer. *Breast J* 2009 15(5):468-474. PMID: 19624420.
49. Kehwar TS, Jones HA, Huq MS, **Beriwal S**, Benoit RM, Smith RP. Effect of Edema Associated with 131Cs Prostate Permanent Seed Implants on Dosimetric Quality Indices. *Med Phys* 2009 36(8):3536-3542. PMID: 19746787.
50. Bhargava R, **Beriwal S**, Striebel JM, Dabbs DJ. Breast Cancer Molecular Class ERBB2: Preponderance of Tumors with Apocrine Differentiation and Expression of Basal Phenotype

Markers CK5, CK5/6, and EGFR. *Appl Immunohistochem Mol Morphol.* 2009 18(2):113-118. PMID: 19801938.

51. Niemeier LA, Dabbs DJ, **Beriwal S**, Striebel JM, Bhargava R. Androgen Receptor in Breast Cancer: Expression in Estrogen Receptor-Positive Tumors and in Estrogen Receptor-Negative Tumors with Apocrine Differentiation. *Mod Pathol* 2009 23(2):205-212. PMID: 19898421.
52. Lesnock JL, Richard SD, Zorn KK, Krivak TC, **Beriwal S**, Sukumvanich P, McBee WC Jr, Kelley JL, Edwards RP. Completion of Intraperitoneal Chemotherapy in Advanced Ovarian Cancer and Catheter-related Complications. *Gynecol Oncol.* 2009 116(3):345-350. PMID: 19959211.
53. Courtney-Brooks M, Sukumvanich P, **Beriwal S**, Zorn KK, Richard SD, Krivak TC. Does the Number of Nodes Removed Impact Survival in Vulvar Cancer Patients with Node-negative Disease? *Gynecol Oncol.* 2010 117(2):308-311. PMID: 20153883.
54. O'Connor SM, **Beriwal S**, Dabbs DJ, Bhargava R. Concordance Between Semiquantitative Immunohistochemical Assay and Oncotype DX RT-PCR Assay for Estrogen and Progesterone Receptors. *Appl Immunohistochem Mol Morphol.* 2010 18(3):268-272. PMID: 20186046.
55. Wegner RE, **Beriwal S**, Heron DE, Richard SD, Kelly JL, Edwards RP, Sukumvanich P, Zorn KK, Krivak TC. Definitive radiation therapy for endometrial cancer in medically inoperable elderly patients. *Brachytherapy.* 2010 9(3):260-265. PMID: 20122872.
56. **Beriwal S**, Rungruang B, Soran A, Thull D, Kelley JL, Bhargava R, Lin CJ, Sukumvanich P. Comparison of Locoregional Recurrences with Mastectomy vs. Breast Conserving Surgery in Pregnancy Associated Breast Cancer (PABC). *Cancers* 2009 1(1)12-20.
57. Lim K, Small W Jr, Portelance L, Creutzberg C, Jürgenliemk-Schulz IM, Mundt A, Mell LK, Mayr N, Viswanathan A, Jhingran A, Erickson B, De Los Santos J, Gaffney D, Yashar C, **Beriwal S**, Wolfson A, Taylor A, Bosch W, El Naqa I, Fyles A; Gyn IMRT Consortium. Consensus Guidelines for Delineation of Clinical Target Volume for Intensity-Modulated Pelvic Radiotherapy for the Definitive Treatment of Cervix Cancer. *Int J Radiat Oncol Biol Phys.* 2011 Feb 1;79(2):348-355. PMID: 20472347.
58. Gupta T, **Beriwal S**. PET/CT-guided radiation therapy planning: from present to the future. *Indian J Cancer.* 2010 Apr-Jun;47(2):126-133. PMID: 20448373.
59. Kim H, **Beriwal S**, Houser C, Huq MS. Dosimetric analysis of 3D image-guided HDR brachytherapy planning for the treatment of cervical cancer: Is point a-based dose prescription still valid in image-guided brachytherapy? *Med Dosim.* 2010 36(2):166-170. PMID: 20488690.
60. Jacobs BL, Smith RP, **Beriwal S**, Benoit RM. Acute Lower Urinary Tract Symptoms after Prostate Brachytherapy With Cesium-131. *Urology.* 2010;76(5):1143-1147. PMID: 20627283.
61. Jacobs BL, Gibbons EP, Smith RP, **Beriwal S**, Benoit RM. Acute bowel morbidity after prostate brachytherapy with cesium-131. *Brachytherapy* 10(1):51-6, 2011. PMID: 20797922.

62. Smith RP, Jones HA, **Beriwal S**, Gokhale A. Predictors of Urinary Morbidity in Cs-131 Prostate Brachytherapy Implants. *Int J Radiat Oncol Biol Phys.* 2011;81(3):745-750 PMID: 20888139.
63. Tomaszewski JJ, Smaldone MC, Makaroun S, Smith RP, **Beriwal S**, Benoit RM. Cesium 131 versus iodine 125 implants for prostate Cancer: evaluation of early PSA response. *Can J Urol.* 2010 Oct;17(5):5360-4. PMID: 20974027.
64. Bhargava R, **Beriwal S**, McManus K, Dabbs DJ. Insulin-like Growth Factor Receptor-1 (IGF-1R) Expression in Normal Breast, Proliferative Breast Lesions, and Breast Carcinoma. *Appl Immunohistochem Mol Morphol.* 2011 May;19(3):218-25 PMID: 21217522.
65. Bhargava R, Dabbs DJ, **Beriwal S**, Yildiz IA, Badve P, Soran A, Johnson RR, Brufsky AM, Lembersky BC, McGuire KP, Ahrendt GM. Semiquantitative hormone receptor level influences response to trastuzumab-containing neoadjuvant chemotherapy in HER2-positive breast cancer. *Mod Pathol.* 2010 24(3):367-374. PMID: 21102420.
66. Gokhale AS, **Beriwal S**, Smith RP, Li X, Benoit R. Clinical and dosimetric factors associated with acute rectal toxicity in patients treated with (131)Cs brachytherapy for prostate cancer. *Brachytherapy.* 2010 Oct-Dec;9(4):328-334. PMID: 20116341.
67. **Beriwal S**, Rwigema JC, Higgins E, Kim H, Houser C, Sukumvanich P, Olawaiye A, Richard S, Kelley JL, Edwards RP, Krivak TC. 3D image-based HDR interstitial brachytherapy for vaginal cancer. *Brachytherapy.* 2012 May-Jun;11(3):176-180. 2011 [Epub ahead of print]. PMID: 21665553.
68. Richard SD, Sukumvanich P, Lesnock JL, McBee WC, **Beriwal S**, Edwards RP, Zorn KK, Krivak TC. Intraperitoneal Catheter Leads to Prolongation of the Time to Normalization of Serum CA125 Levels. *Int J Gynecol Cancer.*;20(6):932-935, 2010. PMID: 20683398.
69. Vargo JA, **Beriwal S**, Ahrendt GM, Soran A, Johnson RR, McGuire K, Bhargava R. Molecular Class as a Predictor of Locoregional and Distant Recurrence in the Neoadjuvant Setting for Breast Cancer. *Oncology* 2011;80:341–349. PMID: 21791944.
70. Skaznik-Wikiel ME, Sukumvanich P, **Beriwal S**, Zorn KK, Kelley JL, Richard SD, Krivak TC. Possible Use of CA-125 Level Normalization After the Third Chemotherapy Cycle in Deciding on Chemotherapy Regimen in Patients With Epithelial Ovarian Cancer: Brief Report. *Int J Gynecol Cancer.* 2011 Aug;21(6):1013-1017. PMID: 21792011.
71. Woodard AH, Yu J, Dabbs DJ, **Beriwal S**, Florea AV, Elishaev E, Davison JM, Krasinskas AM, Bhargava R. NY-BR-1 and PAX8 Immunoreactivity in Breast, Gynecologic Tract, and Other CK7+ Carcinomas: Potential Use for Determining Site of Origin. *Am J Clin Pathol.* 2011 Sep;136(3):428-435. PMID: 21846919.
72. **Beriwal S**, Kannan N, Kim H, Houser C, Mogus R, Sukumvanich P, Olawaiye A, Richard S, Kelley JL, Edwards RP, Krivak TC. Three-dimensional High Dose Rate Intracavitary Image-guided Brachytherapy for the Treatment of Cervical Cancer Using a Hybrid Magnetic Resonance Imaging/Computed Tomography Approach: Feasibility and Early Results. *Clin Oncol (R Coll Radiol).* 2011 Dec;23(10):685-690. PMID: 21908180.
73. Kim H, **Beriwal S**, Huq MS, Kannan N, Shukla G, Houser C. Evaluation of Set-up Uncertainties with Daily Kilovoltage Image Guidance in External Beam Radiation Therapy

for Gynaecological Cancers. *Clin Oncol (R Coll Radiol)*. 2012 Mar;24(2):e39-45. Sept 2011 [Epub ahead of print]. PMID 21943780.

74. Jacobs BL, Smith RP, **Beriwal S**, Benoit RM. Changes in Lower Urinary Tract Symptoms After Prostate Brachytherapy. *J Contemp Brachy* 2011 3(3):115-120.
75. DeFoe SG, **Beriwal S**, Jones H, Rakfal S, Heron DE, Kabolizadeh P, Smith RP, Lalonde R. Concurrent Chemotherapy and Intensity-Modulated Radiation Therapy For Anal Carcinoma — Clinical Outcomes In A Large National Cancer Institute-Designated Integrated Cancer Centre Network. *Clinical Oncology* 24 (2012), pp. 424-431. 2011 Nov [Epub ahead of print]. PMID: 22075444.
76. Storms AA, Sukumvanich P, Monaco SE, **Beriwal S**, Krivak TC, Olawaiye AB, Kanbour-Shakir A. Mucinous Tumors of the Ovary: Diagnostic Challenges at Frozen Section and Clinical Implications. *Gynecol Oncol* 2012 Apr;125(1):75-79. 2011 Dec 9. [Epub ahead of print]. PMID: 22155795.
77. **Beriwal S**, Rajagopalan MS, Flickinger JC, Rakfal SM, Rodgers E, Heron DE. How Effective are Clinical Pathways with and Without Online Peer-Review? An Analysis of Bone Metastases Pathway in a Large, Integrated National Cancer Institute-Designated Comprehensive Cancer Center Network. *Int J Radiat Oncol Biol Phys*. 2012 Jul 15;83(4):1246-1251. 2012 Jan 13. [Epub ahead of print]. PMID: 22245207.
78. Rungruang B, Courtney-Brooks M, **Beriwal S**, Zorn KK, Richard SD, Olawaiye AB, Krivak TC, Sukumvanich P. Surgery Versus Radiation Therapy for Stage IB2 Cervical Carcinoma: A Population-Based Analysis. *Int J Gynecol Cancer*. 2012 Mar;22(3):484-489. PMID: 22249576.
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 45. Kim H, Surendran, **Beriwal S**, Huq MS Reconstruction of MRI/CT Compatible Ring and Tandem Applicators in CT or MRI Images Used for Treatment Planning in Brachytherapy. Poster American Society for Therapeutic Radiology and Oncology (AMERICAN SOCIETY FOR RADIATION ONCOLOGY), Boston, MA September 21-25, 2008 72(1)S587.
 46. Defoe G, **Beriwal S**, Smith RP, Benoit R. Poster. Is There Decreased Duration of Acute Urinary and Bowel Symptoms After Prostate Brachytherapy with Cesium 131 Radioisotope? American Society for Therapeutic Radiology and Oncology (AMERICAN SOCIETY FOR RADIATION ONCOLOGY), Boston, MA September 21-25, 2008 72(1)S317.
 47. Gokhale AS, McLaughlin BT, **Beriwal S**, Flickinger JC, Smith RP, Heron DE, Ferris R, Argiris E, Gibson M. Clinical and Dosimetric Factors Associated with a Long Term Feeding Tube Requirement Following Chemoradiotherapy for Head and Neck Cancers. Poster Discussion American Society for Therapeutic Radiology and Oncology (AMERICAN SOCIETY FOR RADIATION ONCOLOGY), Boston, MA September 21-25, 2008 72(1)S158.
 48. Flickinger JC, Rakfal S, Heron DE, **Beriwal S**, Smith RP, Jones H, Huq MS, Bahri S. Effect of RPA Class in Patients with Anaplastic American Society for Radiation Oncology cytoma and Glioblastoma Treated with IMRT, with and without Concurrent Temozolomide. Poster American Society for Therapeutic Radiology and Oncology (AMERICAN SOCIETY FOR RADIATION ONCOLOGY), Boston, MA September 21-25, 2008 72(1)S237.

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53. Byler Dann R, Rollins-Ravel M, **Beriwal S**, McBee WC, Edwards RP, Sukumvanich P. Salvage of Residual or Recurrent Paraaortic Nodal Disease Secondary to Endometrial Cancer Using Intensity-Modulated Radiation Therapy Poster Society of Gynecologic Oncologists, San Antonio, TX February 5-8, 2009 112:S86#173.
54. Gan G, **Beriwal S**. Concurrent Chemotherapy and Extended-Field, Intensity-Modulated Radiotherapy for Cervical Cancer: Updated Result with Extended Follow Up. Accepted Focused Plenary Session III - HPV Associated Diseases Session Date & Time: February 6, 2009 from 1:30 PM to 3:30 PM Society of Gynecologic Oncologists, San Antonio, TX February 5-8, 2009 112:S116#29.
55. Lesnock J, Sukumvanich P, Krivak TC, Richard SD, **Beriwal S**, Edwards RP, Kelley JL, Zorn KK. Is There a Role for Chemotherapy Beyond Second-line Regimens? Society of Gynecologic Oncologists, San Antonio, TX February 5-8, 2009 112:S139:274.
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57. Kehwar TS, Jones HA, Huq MS, **Beriwal S**, Benoit RM. Dosimetric Analysis of the Effect of Edema in ¹³¹Cs Prostate Permanent Seed Implants. (AAPM), Anaheim, CA July 26-30, 2009, *Med Phys* ;36(6), 2529.
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59. Andrade RA, Gillianne; G, **Beriwal S**, Heron DE. PET/CT Based Intensity Modulated Radiation Therapy and Concurrent Chemoradiation Therapy for Anal Carcinoma – Preliminary Results. Oral American Society for Radiology Oncology (ASRO), San Diego, CA October 31-November 4, 2010 *Int J Radiat Oncol Biol Phys* 78(3);S68-69, 2010.

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63. 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 *Gynecol Oncol* 120: Suppl 1, S30.
64. Characteristics of Patients with Long-term Urinary Morbidity Following Cs-131 Prostate Brachytherapy. Smith RP, Jones H, **Beriwal S**. Poster American Society for Radiology Oncology, San Diego, CA October 31-November 4, 2010, *Int J Radiat Oncol Biol Phys* 78(3-Suppl 1), S351, 2010.
65. Dosimetric Parameters Are Predictive of Acute Gynecological Intestinal Toxicity in Patients Treated with Concurrent Chemotherapy and Intensity-Modulated Radiation Therapy for Anal Carcinoma. DeFoe SG, Kehwar TS, **Beriwal S**, Won S, Jones H, Heron DE. Oral American Society for Radiology Oncology, San Diego, CA October 31-November 4, 2010, *Int J Radiat Oncol Biol Phys* 78(3-Suppl 1), S69, 2010.
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67. PET/CT Based Intensity Modulated Radiation Therapy and Concurrent Chemoradiation Therapy for Anal Carcinoma – Preliminary Results. Andrade RA, Gillianne; G, **Beriwal S**, Heron DE. Oral American Society for Radiology Oncology, San Diego, CA October 31-November 4, 2010, *Int J Radiat Oncol Biol Phys* 78(3-Suppl 1), S68-S69, 2010.
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69. **Beriwal S**, Flickinger JC, Rakfal SM, Heron DE. How effective are clinical pathways with and without online auditing? An analysis of bone metastases pathway in large, Integrated NCI-Designated Comprehensive Cancer Center Network. Accepted Oral American Society for Radiology Oncology, Miami, FL October 2-6, 2011 *Int J Radiat Oncol Biol Phys* 81(2):S140.

70. Kim C, Kim H, **Beriwal S**. Contouring inguinal and femoral nodes – How much margin is needed around the vessels? Accepted Oral American Society for Radiology Oncology, Miami, FL October 2-6, 2011 *Int J Radiat Oncol Biol Phys* 81(2):S46.
71. King B, Barkati M, Fyles A, Mell LK, Mundt AJ, Yashar CM, Eifel PJ, Small W, **Beriwal S**, Gaffney DK Current Practice of IMRT to Treat Carcinoma of the Vulva - Results of an International Survey. Accepted Oral American Society for Radiology Oncology, Miami, FL October 2-6, 2011 *Int J Radiat Oncol Biol Phys* 81(2):S45-46.
72. Kim H, **Beriwal S**, Parikh S, Houser C. Dosimetric Analysis on Inter fractional Dose and Volume Change in Bladder and Rectum during Intensity Modulated Radiation Therapy for Gynecological Cancers with Daily Cone Beam CT guidance. Accepted Poster American Society for Radiology Oncology, Miami, FL October 2-6, 2011 *Int J Radiat Oncol Biol Phys* 81(2):S477-478.
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74. Kim H, Bernard M, Kanter D, Shi X-H, **Beriwal S**, Epperly MW, Shields D, Houghton F, Greenberger JS, Sadovsky Y. Ionizing Radiation Causes Cell Injury in Primary Human Trophoblasts. Accepted Poster American Society for Radiology Oncology, Miami, FL October 2-6, 2011 *Int J Radiat Oncol Biol Phys* 81(2):S717-718.
75. **Beriwal S**, Polat AV, Soran O, Sumkin J, Soran A. Is there an association between left sided radiation therapy and breast arterial calcification on long-term cardiac events in patients with breast cancer? Accepted Poster American Society for Radiology, Miami, FL October 2-6, 2011 *Int J Radiat Oncol Biol Phys* 81(2):S257.
76. Kim H, Kim H, **Beriwal S**. Is there any advantage to 3D planning for vaginal cuff brachytherapy? Accepted Poster American Society for Radiology Oncology, Miami, FL October 2-6, 2011 *Int J Radiat Oncol Biol Phys* 81(2):S474.

Oral and poster presentations

1. **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.
2. 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.
3. 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.
4. **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.

5. **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.
6. Bhatnagar A, **Beriwal S**, Heron DE, Gerszten K, Selvaraj R, Mogus R, Comerci J – Primary Treatment of Medically Inoperable Endometrial Cancer with multi Channel Uterine (Rotte-Y) Applicator. Oral presentation American Brachytherapy Society, San Francisco, CA, 2005.
7. **Beriwal S**, Bhatnagar A, Heron DE, Selvaraj RN, Comerci JC - Image Guided High – Dose Rate Interstitial Brachytherapy (HDRB) for Gynecologic Malignancies. American Brachytherapy Society, San Francisco, CA. Poster 2005.
8. 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.
9. **Beriwal S**. Neoadjuvant Chemotherapy in Breast Cancer – Long Tern Results with Clinical Factors Predictive of Response, Hahnemann University Hospital, 2005 ARS 87th Meeting, Barcelona, Spain April 30-May 4, 2005.
10. Garsa A, **Beriwal S**, Andrade RS, Kim H, Brandner E, Chen H, Comerci 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.
11. **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.
12. **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.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.

18. 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.
19. Castleberry A, **Beriwal S**, Zorn KK, Kelley III JL, Edwards RP, Sukumvanich P. Impact of Race on Outcomes in Cervical and Vaginal Cancer. Poster SGO, Beaver Creek, CO February 1-3, 2007.
20. 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.
21. **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.
22. 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.
23. **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.
24. **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
25. 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.
26. **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.
27. 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.
28. 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.
29. 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.

30. Jacobs BL, Gibons 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.
31. 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.**
32. 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.**
33. 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
34. Bhargava R, **Beriwal S**, Dabbs DJ. Concordance between Semi-quantitative Immunohistochemical Assay and onco^{type}DX™ RT-PCR Assay for Estrogen and Progesterone Receptors. Poster United States and Canadian Academy of Pathology, Boston, MA March 7-13, 2009.
35. **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.
36. 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.
37. 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.
38. 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.
39. 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.
40. 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.
41. Bhargava R, Sukumvanich S, **Beriwal S**. Pregnancy Related Breast Carcinoma: Comparison of Receptor Status with Age-Matched Controls. San Antonia Breast Cancer Symposium (SABCS), San Antonio, TX, December 10-13, 2009.
42. 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 Antonia Breast Cancer Symposium (SABCS), San Antonio, TX, December 10-13, 2009.
43. 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.
44. 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.
 45. 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.
 46. 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.
 47. 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.
 48. 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.
 49. 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.
 50. 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.
 51. **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.
 52. 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
 53. **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
 54. 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

55. 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
56. 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
57. 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
58. 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
59. 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
60. 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
61. 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
62. 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
63. 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
64. 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
65. 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
66. 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

67. 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
68. 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
69. 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
70. **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
71. 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
72. **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
73. 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
74. 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
75. 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
76. 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
77. 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
78. 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

79. Book Chapter: PET CT in radiation planning for breast cancer
80. 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
81. 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.

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

10/02/2017

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, Kummarkaon, 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 Berawal S. ABS, Atlanta, GA. April 29-May 1, 2010.

Panel Presentation: Sushil Berawal 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

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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