

CURRICULUM VITAE BIOGRAPHICAL

Name: Ryan P. Smith, M.D.

Business Address: UPMC St. Margaret
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EDUCATION and TRAINING

Undergraduate:
1991-1995 Allegheny College B.S. Biology
Meadville, PA May 1995 Magna cum laude

Graduate:
1995-1999 Temple University M.D.
Philadelphia, PA May 1999

Postgraduate:
1999-2000 Albert Einstein Medical Center
Philadelphia, PA Internship

2000-2004 University of Pennsylvania Program Director
Philadelphia, PA Residency Eleanor Harris, MD

APPOINTMENTS and POSITIONS

Academic:
2016-present University of Pittsburgh Clinical Professor
School of Medicine,
Department of Radiation Oncology,
Pittsburgh, PA

2009-2016 University of Pittsburgh Clinical Associate Professor
School of Medicine,
Department of Radiation Oncology,
Pittsburgh, PA

2009- present	University of Pittsburgh Medical Center, Pittsburgh, PA	Pathway Director for Prostate Cancer, Bladder Cancer, Testicular Cancer, and Head and Neck Cancers
2008-present	University of Pittsburgh Cancer Institute, Pittsburgh, PA	Residency Program Director
2007-present	UPMC St. Margaret's Hospital Pittsburgh, PA	Medical Director
2004-2009	University of Pittsburgh School of Medicine, Department of Radiation Oncology, Pittsburgh, PA	Clinical Assistant Professor
2003-2004	University of Pennsylvania Philadelphia, PA	Chief Resident
2002-2003	University of Pennsylvania Philadelphia, PA	Assistant Chief Resident
2001-2004	Editorial Assistant for Oncolink.com	

CERTIFICATION and LICENSURE

Certification:

American College of Radiation Oncology 2005

Licensure:

Pennsylvania 2001

PROFESSIONAL and SCIENTIFIC SOCIETY MEMBERSHIPS

American Society for Therapeutic Radiation Oncologists	2000
American Society of Clinical Oncologists	2000
American Brachytherapy Society	2007

HONORS and AWARDS

Pittsburgh Best Doctors list	2016
Leo Creip Patient Care Award	2011
University of Pittsburgh Cancer Institute (UPCI) Teacher of the Year Award for Radiation Oncology	2005-2006
Association of Residents in Radiation Oncology (ARRO) Teacher of the Year Award	2005-2006
Joseph C. Doane Memorial Prize	1999
Alpha Omega Alpha	1999
AMA (Student Chapter) Vice-President	1996-1997
Richard L. Brown Award	1995
Phi Beta Kappa	1994

PUBLICATIONS and PRESENTATIONS

Referred Articles:

1. Coates EL, Welles CM, **Smith RP**. Identification of carbonic anhydrase activity in bullfrog olfactory neurons: histochemical localization and role in CO₂ chemoreception. *J Comp Physio* 1182:163-174, 1998.
2. Hahn SM, **Smith RP**, Freidberg J. Photodynamic therapy for mesothelioma. *Curr Treat Options Oncol* 2:375-383, 2001.
3. **Smith RP**. Photodynamic therapy. *Curr Probl Cancer* 26:61-108, 2002.

4. **Smith RP**, Devine P, Jones H, DeNittis A, Whittington R, Metz JM. Internet use by patients with prostate cancer undergoing radiotherapy. *Urology* 62:273-277, 2003.
5. **Smith R**, Kao GD. Pictures, progress and perplexities: the immediate cell biological effects of ionizing radiation. *Cancer Biol Ther* 3:602-607, 2004.
6. **Smith R**, McKenna WG. The Basics of Radiation Therapy. In: *Clinical Oncology*, 3rd Edition, Abeloff MD, Armitage JO, Niederhuber JE, Kastan MB, McKenna WG (eds.), pp. 537-578. Philadelphia: Elsevier, Inc., 2004.
7. **Smith RP**, Malkowicz SB, Whittington R, VanArsdalen K, Tochner Z, Wein AJ. Identification of clinically significant prostate cancer by prostate-specific antigen screening. *Arch Intern Med* 164:1227-1230, 2004.
8. **Smith RP**, Hahn SM. Treatment of Mesothelioma with Radiotherapy. In *Malignant Mesothelioma: Advances in Pathogenesis, Diagnosis, and Transitional Therapies*. Pass HI, Vogelzang NJ, and Carbone M (eds.) Springer Science + Business Media, Inc., 2005
9. Sarkar A, Santiago RJ, **Smith R**, Kassae A. Comparison of manual vs. automated multimodality (CT-MRI) image registration for brain tumors. *Med Dosim* 30:20-24. 2005
10. **Smith RP**, Bloch P, Harris EE, McDonough J, Sarkar A, Kassae A, Avery S, Solin LJ. Analysis of interfraction and intrafraction variation during tangential breast irradiation with an electronic portal imaging device. *Int J Radiat Oncol Biol Phys* 62:373-378, 2005
11. **Smith RP**, Heron DE, Huq MS, Yue NJ. Modern radiation treatment planning and delivery-From Rontgen to real time. *Hematol Oncol Clin N Am* 20:45-62, 2006.
12. Heron DE, **Smith RP**, Andrade RS. Advances in image-guided radiation therapy-the role of PET-CT. *Med Dosim* 31:3-11, 2006.
13. Owonikoko T, Agha M, Balassanian R, **Smith R**, Raptis A. Gemtuzumab Therapy for Isolated Extramedullary Acute Myeloid Leukemia Relapse Post Allogeneic Stem Cell Transplant. *Nature Clinical Practice Oncology*, Aug; 4(8):491-495, 2007.
14. **Smith RP**, Schuchert M, Komanduri K, Burton S, Heron DE, Luketich J, D'Amato T, Landreneau R. Dosimetric Evaluation of Radiation Exposure During I-125 Vicryl Mesh Implants: Implications for ACOSOG z4032, 14(12):3610-3613, 2007.
15. Nayak J, Walvekar R, Andrade RS, Daamen N, Lai SY, Argiris A, **Smith RP**, Heron DE, Ferris RL, Johnson J, Branstetter B. Deferring Planned Neck Dissection Following Chemoradiation for Stage IV Head and Neck Cancer: The Utility of PET-CT. *The Laryngoscope* 117(12):2129-2134, 2007.

16. **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*. 7 (3):237-241, 2008.
17. Gibbons EP, **Smith RP**, Beriwal SB, Krishna K, Benoit RM: Overcoming Pubic Arch Interference with Free Hand Needle Placement in Men Undergoing Prostate Brachytherapy. *Brachytherapy* 8(1):74-78, 2008.
18. Makaroun S, **Smith RP**, Beriwal S, Benoit RM: Can low volume centers achieve the same prostate brachytherapy outcomes as high volume centers? *Submitted to Urology 7/08*
19. 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. *Technol Cancer Res Treat* 7(6):463-70, 2008.
20. 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*. Volume 31 (4):352-362, 2008.
21. Williamson R, Smaldone MC, Gibbons EP, **Smith RP**, Beriwal S, Benoit RM: Prostate Brachytherapy After Ileal Pouch-Anal Anastomosis Reconstruction. *Urology* 73:369-373, 2009.
22. 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* 8(3):304-8, 2009.
23. Corcoran AT, **Smith RP**, Benoit RM. Case report of significant bleeding associated with prostate brachytherapy. *Can J Urol* 16(3):4682-3, 2009.
24. 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* 36(8):3536-42, 2009.
25. 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. *Annal of Oncol* 21(1):145-151, 2009.
26. McLaughlin BT, Gokhale AS, Shuai Y, Diacopoulos J, Carrau R, Heron DE, **Smith RP**, Gibson MK, Ferris RL, Grandis JR, Johnson JT, Argiris A. Management of patients treated with chemoradiotherapy for head and neck cancer without prophylactic feeding tubes: the University of Pittsburgh experience. *Laryngoscope* 120(1):71-5, 2010.

27. Gokhale A, **Smith RP**, Benoit RM, Beriwal. Clinical and dosimetric factors associated with acute rectal toxicity in patients treated with cesium-131 brachytherapy for prostate cancer. *Brachytherapy* 9(4):324-8, 2010.
28. Jacobs BL, **Smith RP**, Beriwal S, Benoit RM. Acute Bowel Morbidity after Prostate Brachytherapy with Cesium-131 Brachytherapy. *Brachytherapy* 10(1):51-6, 2011
29. Jacobs BL, **Smith RP**, Beriwal S, Benoit RM. Acute Lower Urinary Tract Symptoms after Prostate Brachytherapy with Cesium-131. *Urology* 76(5):1143-7, 2010.
30. **Smith RP**, Jones HA, Kehwar TS, Benoit RM, Beriwal S. Predictors of urinary morbidity in Cs-131 prostate brachytherapy implants. *Int J Radiat Oncol Biol, Int J Radiat Oncol Biol Phys* 81(3):745-50, 2011.
31. DeFoe SG, Beriwal S, Jones HA, Rakfal S, Heron DE, **Smith RP**. Concurrent Chemotherapy and Intensity-modulated Radiation Therapy for Anal Carcinoma - Clinical Outcomes in a Large National Cancer Institute-designated Integrated Cancer Centre Network. *Clin Oncol (R Coll Radiol)* 24(6):424-31, 2012.
32. Argiris A, Heron DE, **Smith RP**, et al. Induction docetaxel, cisplatin, and cetuximab followed by concurrent radiotherapy, cisplatin, and cetuximab and maintenance cetuximab in patients with locoregionally advanced head and neck cancer. *J Clin Oncol* 28(36):5294-300, 2010.
33. O'Neill M, Heron DE, Flickinger JC, **Smith RP**, et al. Post-Treatment Quality of Life Assessment in Head and Neck Cancer Patients Treated with Intensity-Modulated Radiation Therapy (IMRT). *Amer J Clin Oncol* 34(5):478-82, 2011
34. 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*, 17(5):5360-4, 2010.
35. Kehwar TS, Jones HA, Huq MS, **Smith RP**. Influence of prostatic edema on 131Cs permanent prostate seed implants: a dosimetric and radiobiological study. *Int J Radiat Oncol Biol Phys* 80(2):621-7, 2011.
36. Argiris A, Karamouzis MV, **Smith RP**, et al. Phase I trial of pemetrexed in combination with cetuximab and concurrent radiotherapy in patients with head and neck cancer, *Ann Oncol*, 22(11):2482-8, 2011.
37. Jacobs BL, **Smith RP**, Beriwal S, Benoit RM. Changes in lower urinary tract symptoms after prostate brachytherapy. *J Contemp Brachytherapy*, 3(3):115-120, 2011.
38. Beriwal S, **Smith RP**, Houser C, Benoit RM. Prostate-specific antigen spikes with ¹³¹Cs brachytherapy. Is there a difference with other radioisotopes? *Brachytherapy* 11(6):457-9, 2012.

39. Kehwar TS, Jones HA, Huq MS, **Smith RP**. Edema-induced changes in tumor cell surviving fraction and tumor control probability in ¹³¹Cs permanent prostate brachytherapy implant patients. *J Appl Clin Med Phys*. 14(1):3862, 2013.
40. Van Buren G 2nd, Ramanathan RK, Krasinskas AM, **Smith RP**, et. Al. Phase II study of induction fixed-dose rate gemcitabine and bevacizumab followed by 30 Gy radiotherapy as preoperative treatment for potentially resectable pancreatic adenocarcinoma. *Ann Surg Oncol*. 20(12):3787-93, 2013.
41. Ramalingam SS, Kotsakis A, Tarhini AA, Heron DE, **Smith R**, Friedland D, Petro DP, Raez LE, Brahmer JR, Greenberger JS, Dacic S, Hershberger P, Landreneau RJ, Luketich JD, Belani CP, Argiris A. A multicenter phase II study of cetuximab in combination with chest radiotherapy and consolidation chemotherapy in patients with stage III non-small cell lung cancer. *Lung Cancer* 81(3):416-21, 2013
42. Cost-effectiveness Analysis of 3D Image-Guided Brachytherapy Compared to 2D Brachytherapy in the Treatment of Locally Advanced Cervical Cancer. Kim H, **Rajagopalan MS**, Beriwal S, Smith K. *Brachytherapy*. 2015 Jan-Feb. PMID: 25443528
43. Benoit RM, **Smith RP**, Beriwal S. Five Year Prostate-specific Antigen Outcomes after Caesium Prostate Brachytherapy. *Clin Oncol (R Coll Radiol)*. 2014 Dec;26(12):776-80.. Epub 2014 Sep 15. PMID: 25213299
44. Radiation-induced esophageal strictures in a patient with CREST syndrome. Ling D, **Vargo JA**, Smith RP. *Practical Radiation Oncology*. 2015:5-2
45. Cost-effectiveness analysis of single fraction of stereotactic body radiotherapy compared to single fraction of external beam radiotherapy for palliation of vertebral bone metastases. Kim H, **Rajagopalan MS**, Beriwal S, Smith K. *International Journal of Radiation Oncology Biology Physics*. 2015 Jan 30. PMID: 25680599
46. Fortifying the Treatment of Prostate Cancer with Physical Activity. Champ CE, Francis L, Clement, RJ, Dickerman R, **Smith RP**. *Prostate Cancer*. 2016; 2016 9462975. Epub 2016 Feb 10. PMID: 26977321.
47. Long Term Rectal Toxicity and Rectal Bleeding Following Cs-131 Prostate Brachytherapy. **Smith RP**, Beriwal S, Benoit RM.

Editorial, Editorial Comment, Letters

1. Gupta AK, Meisner D, Neetu T, **Smith RP**, Swerdlow SH. Classical Nodular Sclerosis Hodgkin Lymphoma Presenting with Central Nervous System Disease [letter]. *Southern Medical Journal* 100(5):549-550, 2007.

2. Images in clinical medicine. Radiation recall and woody fibrosis. Champ CE, Smith RP. N Engl J. Med 2015 May 14; 372(20). PMID: 25970071

Recent Funding:

\$127,000 from IsoRay for 3 years: Ronald Benoit, Sushil Beriwal, Ryan P. Smith to evaluate outcomes analysis of CS131 PSI.

COMMITTEES

UPMC St. Margaret	Cancer Center Committee	2007 to present
UPMC St. Margaret	Weekly Tumor Board	2007 to present

JOURNAL REFEREE/REVIEWER

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