

Dr. Robert Siemens, MD, FRCSC



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Rob is a member of the Department of Urology at Queen's University and is the current Program Director. He has been affiliated with Queen's since 2000 and has held the rank of Associate Professor since 2006. He also has a cross-appointment with the Departments of Anatomy and Cell Biology and Oncology. In addition to his academic responsibilities, Rob is a Urology Staff Physician (since 2000) with the Kingston General Hospital (KGH) and Hotel Dieu Hospital. He is also a researcher with the Queen's Centre for Advanced Urological Research and has participated ~20 industry-sponsored clinical trials.

Rob has been a scientific reviewer for a number of journals including the Journal of Urology, Urology, The European Journal of Cancer, Anaesthesia and Analgesia, Canadian Journal of Urology, Canadian Medical Association Journal and Canadian Urological Association Journal. He has also served as a grant reviewer for such funding agencies as Physician's Services Incorporated Foundation, Ontario Cancer Research Network, the United States Department of Defense's Congressionally Directed Medical Research Programs (CDMRP) and Army Medical Research and Materiel Command (USAMRMC), and Israel Science Foundation.

His research interests include:

- Cancer Progression and Cancer Treatment;
- Development of Novel Drug Therapies for the Treatment of Cancer;
- Prostate Cancer.

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Rob has given over 50 presentations locally, nationally and internationally, and has published in 48 journals as well as in 70 abstracts, editorials, book chapters and/or non-peer reviewed journals. He has been awarded many peer-reviewed investigator-initiated research grants from agencies such as the Canadian Urological Association and Canadian Urological Oncology Group, United States Department of Defense, Prostate Cancer Research Foundation, and National Cancer Institute of Canada, including internal grants (Clare Nelson Bequest Grant, Bicknell Foundation Grant, Research Initiation Grant, and Principal's Development Fund).

A list of his peer-reviewed journal publications (as of March 13, 2009) includes:

- 1) J. Kawakami, W.M. Hopman, R. Smith-Tryon, J.S. Lott, D.R. Siemens. Measuring Surgical Wait Times in a Universal Health Care System. *Can Urol Assoc J.*, 2(6): 597-603, 2008.
- 2) Nickel, J.C., Krieger, J.N., McNaughton-Collins, M., et al (D.R. Siemens). Alfuzosin and symptoms of chronic prostatitis-chronic pelvic pain syndrome. *NEJM*, 359; 25: 23-33, 2008.
- 3) Moradi M. Mousavi P. Siemens R. Sauerbrei E. Boag A. Abolmaesumi P. Prostate cancer probability maps based on ultrasound RF time series and SVM classifiers. *Medical Image Computing & Computer-Assisted Intervention: MICCAI*. 11(Pt 1):76-84, 2008.
- 4) M. Leverdige, DR Siemens, C. Morash. What next? Managing lymph nodes in men with penile cancer. *Can Urol Assoc J.*, 2(5):525-531, Oct., 2008.
- 5) Gharajeh, A, Steele, SS, Siemens, DR, Intrapouch injections of botulinum toxin type A for the management of unit contractions of a continent urinary diversion. *Can Urol Assoc J*, 2(4) 417-9, Aug 2008
- 6) Izawa JI. Al-Omar M. Winquist E. Stitt L. Rodrigues G. Steele S. Siemens DR. Luke PP. Prognostic variables in adult Wilms tumour. *Canadian Journal of Surgery*. 51(4):252-6, 2008 Aug.
- 7) Chan EO, Groome PA, Siemens DR. Validation of quality indicators for radical prostatectomy. *Int J Cancer*. 123(11):2651-7, 2008.
- 8) Stock DC, Groome PA, Siemens DR, Rohland SL, Song Z. Effects of non-selective non-steroidal anti-inflammatory drugs on the aggressiveness of prostate cancer. *Prostate*. 68 (15):1655-65. Nov 2008
- 9) Siemens DR, Hu N, Sheikhi AK, Chung E, Frederiksen LJ, Pross H, Graham CH. Hypoxia increases tumor cell shedding of MHC class I chain-related molecule: role of nitric oxide. *Cancer Res*. 15; 68(12):4746-53, Jun 2008.
- 10) McLaren D, Siemens DR, Izard J, Black A, Morales A. Clinical practice experience with testosterone treatment in men with testosterone deficiency syndrome. *BJU Int*. 102(9):1142-6, 2008
- 11) Stock D, Groome PA, Siemens DR. Inflammation and prostate cancer: a future target for prevention and therapy? *Urol Clin North Am*. 2008 Feb; 35(1):117-30; vii. Review.

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- 12) Anna N. Wilkinson, Michael D. Brundage, D. Robert Siemens. Approach to primary care follow-up of patients with prostate cancer. *Can Fam Physician*, Vol. 54, No. 2, February 2008, pp. 204 – 210.
- 13) Moradi,M.; Mousavi,P.; Siemens,D.R.; Sauerbrei,E.E.; Isotalo,P.; Boag,A.; Abolmaesumi,P. Discrete fourier analysis of ultrasound RF time series for detection of prostate cancer: *Conf.Proc.IEEE Eng.Med.Biol.Soc.*, 2007, 1, 1339-1342.
- 14) Leveridge, M., Beiko, D., Wilson, J.W.L., Siemens, D.R. Health advocacy training in urology: a Canadian survey on attitudes and experience in residency. *CUAJ*. 1(4):363-369, 2007.
- 15) Bell, EN, Tse, M.Y., Friederiksen LJ, Gardhouse, A., Pang, S.C., Graham CH. Siemens DR. Atrial Natriuretic Peptide (ANP) attenuates hypoxia-induced resistance to doxorubicin in prostate cancer cells. *Journal of Urology*.177: 751-756, 2007.
- 16) Tisdale, BE, Siemens, DR, Lysack, J, Nolan, RL. Correlation of CT scan versus plain radiography for measuring urinary stone dimensions. *Canadian Journal of Urology*, 14:3489-3492, 2007.
- 17) L. Freideriksen, R. Sullivan, L. Maxwell, S. Macdonald-Goodfellow, M. Adams, B. Bennet, D. R. Siemens, C.H. Graham. Chemosensitization of cancer in vitro and in vivo by nitric oxide signaling. *Clinical Cancer Research* 13: 2199-206, 2007.
- 18) Grant JF. Iwasawa T. Sinn HW. Siemens DR. Griffith TS. Takacs EB. Ratliff TL. Induction of protective immunity to RM-1 prostate cancer cells with ALVAC-IL-2/IL-12/TNF-alpha combination therapy. *International Journal of Cancer*. 119(11):2632-41, 2006
- 19) Moradi,M.; Abolmaesumi,P.; Isotalo,P.A.; Siemens,D.R.; Sauerbrei,E.E.; Mousavi,P. Detection of prostate cancer from RF ultrasound echo signals using fractal analysis. *Conf.Proc.IEEE Eng.Med.Biol.Soc.*, 2006, 1, 2400-2403.
- 20) D. Feldman-Stewart, M.D. Brundage, D. R. Siemens, D. Skarasgard. A randomized controlled trial comparing two educational booklets on prostate cancer. *The Canadian Journal of Urology*, 13:3321, 2006.
- 21) Choo R, Kawakami J, Siemens DR, Davis BJ, Brundage M, Pisansky TM. Two different perspectives in the management of pT3 and/or margin-positive prostate cancer after radical prostatectomy. *BJU Int.*, 98(4):773-6, 2006.
- 22) Y. Fradet, A. Aprikian, G. Dranitsaris, D. Robert Siemens, J. Tsihlas, N. Fleshner. Does prolonging the time to bladder cancer surgery affect long-term cancer control: a systematic review of the literature. *The Canadian Journal of Urology*. 13(3):37-47, 2006.
- 23) Jason P. Izard, Richard D. Sowery, Melanie T. Jaeger, D. Robert Siemens. Parameters affecting urologic complications after major joint replacement surgery. *Canadian Journal of Urology*, 13:3158-3163, 2006.
- 24) Arash Gharajeh, D. Robert Siemens, Phillip A. Isotalo, Antonio G. Nascimento, Christopher S. Borth. Multifocal penile epithelioid hemangioendothelioma masquerading as superficial penile vein thrombosis. *Urology*, 68:673, 2006.
- 25) D. Robert Siemens. Viral vector-based gene therapy for prostate cancer: Can we deliver? *Journal of Urology*, 175:1600-1601, 2006.
- 26) Pierre, S., Jaeger, M.T., Siemens, D.R. Intra-operative inferior vena cava syndrome in a patient with autosomal dominant polycystic kidney disease. *World Journal of Urology*, 24 (1): 110-112, 2006.

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- 27) L. Belkacemi, E. Lam, J. Caldwell, D. R. Siemens, C. Graham. Stimulation of human breast carcinoma cell invasiveness and urokinase plasminogen activator activity by glucose deprivation. *Experimental Cell Research*, 312:1685-1692, 2006.
- 28) Boulos D, Groome PA, Brundage M., Siemens DR, Mackillop WJ, Heaton JPW, Schulze KM, Rohland SL. Predictive validity of five comorbidity indices in prostate carcinoma patients treated with curative intent. *Cancer*, 106 (8): 1804-1814, 2006.
- 29) D. Robert Siemens, Karleen M. Schulze, William J. Mackillop, Michael D. Brundage and Patti A. Groome. A population-based study of the waiting times for prostate cancer surgery in Ontario. *Canadian Journal of Urology*, 12 (2):2568-2574, 2005.
- 30) Richard Sowery, D. Robert Siemens. Growth characteristics of renal cortical tumors in patients managed by watchful waiting. *Canadian Journal of Urology*, 11(5):2407-2410, October 2004.
- 31) Kawakami, J., Siemens, D.R., Nickel, J.C. Prostatitis and prostate cancer: Implications for prostate cancer screening. *Urology*. 2004 Dec; 64(6):1075-1080.
- 32) Friederiksen LJ, Siemens DR, Heaton JPW, Maxwell LR, Adams MA, Graham CH: The role of nitric oxide in hypoxia-induced chemoresistance in prostate cancer. *Journal of Urology*, 170: 1003-1007, 2003.
- 33) Feldman-Stewart D, Brundage MD, Van Manen L, Skarsgard D, Siemens D.R. Evaluation of a question-and-answer booklet on early-stage prostate-cancer. *Patient Educ Couns*. 2003 Feb;49(2):115-24.
- 34) Siemens, D.R., Crist S., Austin, J.C., Tartaglia, J., Ratliff, T.L.: Comparison of viral vectors: gene transfer efficiency and tissue specificity in an orthotopic murine bladder cancer model. *Journal of Urology*, 170: 979-984, 2003.
- 35) Siemens, D.R., Morales, A.M., Emerson, L., Johnston, B.: A comparative analysis of rapid urine tests for the diagnosis of suspicious upper tract lesions. *Canadian Journal of Urology*, 10(1): 1694-98, 2003.
- 36) Ashfield, J.E., Nickel, K.R., Siemens, D.R., MacNeily, A.E., Nickel, J.C.: Treatment of phimosis with topical steroids in 194 children. *Journal of Urology*, 169: 2003.
- 37) Nickel, J.C., Siemens, D.R., Nickel, K.R., Downey, J.: The patient with chronic epididymitis: characterization of an enigmatic syndrome. *Journal of Urology*, 4:1701-1704, 2002.
- 38) Siemens, D.R., Ratliff, T.L: Vaccines in Urologic Malignancy. *Urological Research*, 29:152-162, 2001
- 39) Elsey B.D., Siemens, D.R., Ratliff, T.L. and Lubaroff, D.M.: Immunization with type 5 adenovirus recombinant for a tumor antigen in combination with recombinant canarypox virus (ALVAC) cytokine gene delivery induces destruction of established prostate tumors. *International Journal of Cancer*, 94(6):842-9, 2001.
- 40) Siemens, D.R., Austin, J.C., See, W.A., Tartaglia, J., Ratliff, T.L.: Evaluation of gene transfer efficiency by viral vectors to murine bladder epithelium. *Journal of Urology*, 165: 667, 2001
- 41) Siemens, D.R., Iwasawa T., Austin, J.C., See, W.A., Hedican, S.P., Tartaglia, J., Cohen M., Rodgers, J., Williams R.W., Ratliff, T.L.: Biomarker distribution after injection in the canine prostate: implications for gene therapy. *BJU International*, 86: 1076, 2000.
- 42) Siemens, D.R., Elzey, B.D., Lubaroff, D.M., Bohlken, C., Jensen R.J., Swanson A.K., Ratliff, T.L.: Restoration of the ability to generate CTL in mice immune to adenovirus by delivery of virus in a collagen-based matrix. *Journal of Immunology*, 166: 731, 2000

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- 43) Siemens, D.R., Austin, J.C., Hedican, S.P., Tartaglia, J., Ratliff, T.L.: Viral delivery in a gelatin sponge matrix enhances gene expression and antitumor activity in a murine prostate cancer model. JNCI, 92 (5): 403-412, 2000.
- 44) Siemens, D.R., Prouse, K.A., Sauerbrei, E.E., MacNeily, A.E.: Antenatal hydronephrosis: Parameters predicting insignificant postnatal pelviectasis. Techniques in Urology, 4 (4): 198-201, 1998.
- 45) Nickel, J.C., Siemens, D.R., Johnston, B.: Transurethral radiofrequency hot balloon thermal therapy in chronic nonbacterial prostatitis. Techniques in Urology, 4(3): 128-30, 1998.
- 46) Siemens, D. R., Nickel, J. C., Young, I.: Hemangiopericytoma of the spermatic cord. British Journal of Urology, 81 (2):329-30, 1998.
- 47) Nickel, J. C., Siemens, D. R., Lundie, M.: re: Ameliorative effect on nonbacterial prostatitis: A parallel double-blind controlled study. (letter; comment) Journal of Urology; 157: 628, 1997.
- 48) Nickel, J.C., Siemens, D.R., Lundie, M.L: Allopurinol for prostatitis: Where is the evidence? Lancet; Vol. 347 No. 9017, June 1996.