

Joseph C. Dort, BSc, MSc, MD, CCFP, FRCSC, FACS
 Professor, Departments of Surgery, Clinical Neurosciences, Oncology and
 Community Health Sciences
 Ohlson Family Professor of Head and Neck Surgery
 Director, Ohlson Research Initiative



RESEARCH INTERESTS AND ACTIVITIES

Key Words: head and neck oncology, clinical outcomes, tumour biomarkers, molecular epidemiology

Dr. Dort’s research program is focused on determining clinical outcomes in patients with head and neck cancer. Using a prospectively collected cohort (the Ohlson cohort) he follows patients longitudinally in order to better understand clinical outcomes in the context of 3 broad themes: the impact and influence of tumour biology as an independent predictor of clinical outcome; understanding the role of image processing as a tool for staging and prognostication in patients with head and neck cancer; and, understanding the utility and application of bioinformatics in head and neck cancer outcomes research. His program functions within the Ohlson Research Initiative (www.ohlsonresearch.ca) and his primary affiliation is with the Department of Surgery and the Southern Alberta Cancer Research Institute (SACRI).

RESEARCH IN PROGRESS

<u>ROLE</u>	<u>FUNDING AGENCY</u>	<u>TITLE OF PROJECT</u>	<u>2010/11 ALLOCATION</u>
Principal Investigator	Calgary Foundation	<i>Ohlson family fund in support of head, neck and pancreatic cancer</i>	250,000
Site Principal Investigator	Terry Fox Research Institute	<i>A randomized phase III study of the efficacy of FV-guided surgery in the management of early-stage oral cancer: A pan-Canadian initiative for oral cancer control</i>	40,500
Co-Investigator	Alberta Ingenuity Centre for Machine Learning	<i>Machine learning and MR texture analysis to assess human papilloma virus (HPV) status in head and neck tumors</i>	100,000
	Calgary Surgical Research Development Fund	<i>Post-op pulmonary complications after head and neck reconstructive surgery resident research project</i>	4,000

PUBLICATIONS

Peer-Reviewed Journal Articles

Rudmik L, Lau HY, Matthews TW, Bosch JD, Kloiber R, Molnar CP, **Dort JC**. Clinical utility of PET-CT in the evaluation of head and neck squamous cell carcinoma with an unknown primary: A prospective clinical trial. *Head and Neck* 2011;33(7):935-40.

Everett JB, Falck VG, **Dort JC**, Matthews TW. Mandibular pseudoepitheliomatous hyperplasia following treatment for oral squamous cell carcinoma. *Journal of Otolaryngology - Head and Neck Surgery* 2011;40(1):E1-4.

Brockton NT, **Dort JC**, Lau H, Hao D, Brar S, Klimowicz AC, Petrillo SK, Diaz R, Doll C, Magliocco AM. High stromal carbonic anhydrase IX expression is associated with decreased survival in p16-negative head and neck tumors. *International Journal of Radiation Oncology, Biology, Physics* 2011;80(1):249-57.

Walen SG, Rudmik LR, Dixon E, Matthews TW, Nakoneshny SC, **Dort JC**. The utility of the harmonic scalpel in selective neck dissection: A prospective, randomized trial. *Otolaryngology - Head and Neck Surgery* 2011;144(6):894-9.

POSTDOCTORAL RESEARCH FELLOW

Pinaki Bose, Postdoctoral Fellow, Department of Oncology/Surgery (Co-Supervisor)
Research Topic: Prevalence and impact of the human papilloma virus (HPV) in oropharyngeal squamous cell carcinoma in Alberta