

DIVISION OF PALLIATIVE CARE MEDICINE



RESEARCH ACTIVITIES 2007-08 Annual Report

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Division of Palliative Care Medicine



The Division of Palliative Care Medicine focuses on the assessment and management of physical and psychological problems experienced by both patients with advanced cancer and their families. These complex and devastating problems afflict approximately 50% of those who receive a diagnosis of cancer. Clinical activity has also expanded to palliative care needs for patients with non-malignant disease.



The Division of Palliative Care Medicine is multidisciplinary and is supported by the Alberta Health Services (AHS) and Covenant Health organizations, the University of Alberta and Cancer Care AHS. Division members are located at the Division office, Regional Palliative Care Program office and the Tertiary Palliative Care unit at the Grey Nuns Hospital, the University of Alberta and Royal Alexandra Hospitals and the Cross Cancer Institute. Clinical activity covers 24 hour consultant service to all institutions (including 60 hospice beds) and homes within the area of Edmonton as well as providing the attending service on the 20 bed Tertiary Palliative Care unit at the Grey Nuns Hospital.



Physicians and Ph.D.'s from the Division are involved in teaching and research centered on multi-dimensional assessment of physical and psychosocial symptoms, as well as on pharmacological and non-pharmacological treatment approaches. The research program includes studying the impact of health reform and technological change on health and economic outcomes of dying patients and their families.

For more information, please visit the Palliative Care Web Site at <http://www.palliative.org>

Please address any inquiries or comments to:

Mrs. Kathy Robberstad
Rm 217, St. Marguerite Health Services Centre,
Grey Nuns CH - 1090 Youville Drive West
Edmonton, AB T6L 5X8

(T) 780.735.7727
(F) 780.735.7302
(E) Kathy.Robberstad@albertahealthservices.ca

Faculty



DR. ROBIN L. FAINSINGER, DIVISION DIRECTOR

MBChB., LMCC., CCFP, FCFP,

University of Cape Town, South Africa,

Professor, Department of Oncology, University of Alberta

Director, Division of Palliative Care Medicine

Dr. Robin Fainsinger graduated from the University of Cape Town in South Africa in 1981. He and his wife immigrated to Canada in 1985 and lived in rural Saskatchewan for a number of years, where Dr. Fainsinger worked as a Family Practitioner.

Dr. Fainsinger obtained the CCFP in 1990 and completed the first fellowship in palliative care medicine at the University of Alberta in the same year. Since then, he has worked with the Palliative Care Program at the Edmonton General Hospital and Grey Nuns Hospital. He was Director of the Palliative Care Program at the Royal Alexandra Hospital from October 1994 to April 2006. He is presently a Professor in the Division of Palliative Care Medicine, Department of Oncology at the University of Alberta. He is the Director, Division of Palliative Care Medicine, Clinical Director of the Tertiary Palliative Care Unit, and the Clinical Director for the AHS Regional Palliative Care Program. He is active in education and research, and has published articles on a number of palliative care topics, with an interest in dehydration, delirium and sedation at the end of life. His present research focus is on developing the Edmonton Classification System for Cancer Pain (ECS-CP). He was the Interim Leader of the AHS Alberta Cancer Board Provincial Palliative Care Research Initiative, and was the Chair of the Assessment Research Theme of this Initiative. He is a principal investigator on the Pain Net, a multidisciplinary cancer pain research network. He has over 140 publications in journals and book chapters.



DR. PABLO AMIGO

Assistant Clinical Professor

Dr. Pablo Amigo joined the staff at the Tertiary Palliative Care Unit at the Grey Nuns Hospital and the multidisciplinary Pain and Symptom Clinic at the Cross Cancer Institute in 2002, after completing a Fellowship in Palliative Medicine in 2001 and a Clinical Research Fellowship in Palliative Care in 2002, both at the University of Alberta. He graduated from the Universidad Nacional de Buenos Aires in 1992, and moved to Canada in 2000, after completing a 4 year residency training in Internal Medicine and a 2 year fellowship in General Internal Medicine in Argentina. Dr. Amigo was appointed as an Assistant Clinical Professor in the Division of Palliative Medicine in September 2004. His areas of interest include pre and postgraduate education in palliative care, as well as assessment and management of dyspnea and thromboembolic prophylaxis in advanced cancer.



DR. VICKIE BARACOS

*BSc (University of Alberta), PhD (Nottingham University, UK)
Professor & Alberta Cancer Foundation Chair in Palliative Medicine
Adjunct Professor, Experimental Oncology*

Metabolism in wasting disorders: skeletal muscle atrophy and cancer-associated cachexia. A number of disease conditions are associated with chronic involuntary weight loss :- several examples include cancer, AIDS, chronic obstructive pulmonary disease and chronic heart failure. My research program focuses on the metabolic abnormalities that underlie the wasting syndrome associated with advanced malignant disease (cancer cachexia).



DR. SARAH BURTON-MACLEOD

Assistant Clinical Professor

Dr. Sarah Burton-MacLeod was delighted to join the Community Consult Team of the Regional Palliative Care Program in 2006. She is a graduate of Dalhousie University Medical School (2002) and completed her Family Medicine Residency as well as a Residency in Palliative Medicine through the University of Alberta (in 2004 and 2005 respectively). She worked on the Palliative Care Unit at Elisabeth Bruyere Hospital in Ottawa prior to joining the Community Team in Edmonton. Dr. Burton-MacLeod was appointed as an Assistant Clinical Professor in the Division of Palliative Care Medicine in December of 2007. Her areas of interest include both pre and postgraduate education in palliative care.



DR. INGRID DEKOCK

*M.D., MBChB, DA(SA)
University of Pretoria, South Africa.*

Dr. Ingrid de Kock joined the Regional Palliative Care Program in July 2000, after completing a Fellowship in Palliative Care Medicine at the University of Ottawa. As Palliative Care Physician with the Regional Palliative Care Program she provides consulting services to the community, acute care hospitals, Edmonton hospices and long-term care facilities. She has a strong clinical focus and is involved in teaching and research activities of the Division of Palliative Care Medicine in the capacity of Assistant Clinical Professor. Her research focus is on the role of marijuana in Palliative Care Medicine, sexuality in Palliative Care, and aspects of opioid use in cancer patients. She is involved with the development and maintenance of the Palliative.org website and Palliative Care Rounds.



DR. KONRAD FASSBENDER, PHD

Assistant Professor

Dr. Konrad Fassbender completed an interdisciplinary PhD in Health Economics at the University of Alberta and was awarded the Charles WB Gravett Memorial Scholarship for superior academic achievement in health care planning and evaluation. Health Canada recognized his doctoral work in home care by hosting provincial/territorial roundtables examining his economic models. Dr. Fassbender's work has been cited by the Mazankowski and Kirby reports on health care reform. He served/s in advisory roles to the OECD (Organization for Economic Co-ordination and Development), CIHR (Canadian Institute of Health Research), AHW (Alberta Health and Wellness) and Health Canada. Dr. Fassbender supervises graduate students and teaches health economics, health finance and econometrics. He has developed tools to measure the cost and performance associated with the financing and delivery of health and social services. These tools have since been adapted to the study of low-income families, injury, families of disabled children and rehabilitation. His program of research is to study the effects of health reform and technological change on health and economic outcomes of dying patients and their families.



DR. MEHRNOUSH MIRHOSSEINI

Assistant Clinical Professor

Dr. Noush Mirhosseini is a member of Community Consult Team with Regional Palliative Care Program (RPCP). Dr. Mirhosseini was appointed as an Assistant Clinical Professor in the Division of Palliative Medicine in 2006. She collaborated with RPCP in 2004 and 2005 as a locum palliative care consultant. Dr. Mirhosseini completed her residency in Palliative Care Medicine and Family Medicine at the University of Alberta in 2004 and 2001-2003 respectively. She graduated from University of Tehran in 1984 and completed Diagnostic radiology training and fellowship in Ultrasound in 1989. She practiced Diagnostic radiology for 6 years prior to immigration to Canada in 1996

DR. CHERYL NEKOLAICHUK

Assistant Professor

Dr. Cheryl Nekolaichuk is a clinical psychologist with former training as a professional clinical pharmacist. She obtained her Doctorate in Counselling Psychology in 1995 from the University of Alberta, followed by a three-year research fellowship as an NCIC Terry Fox Fellow in the Division of Palliative Care Medicine at the University of Alberta. As a Terry Fox Fellow, she strengthened her graduate research skills in measurement, program evaluation and research methods within the complex context of the terminally ill.

Dr. Nekolaichuk is presently an Assistant Professor in the Division of Palliative Care Medicine and a clinical psychologist in the Department of Psychosocial and Spiritual Resources at the

Cross Cancer Institute. She is also an Adjunct Assistant Professor in the Department of Educational Psychology at the University of Alberta and a member of the CIHR New Emerging Team Grant for Difficult Pain Problems. In her current position, she is actively involved in research, clinical service and teaching in psychosocial oncology and palliative care

DR. DOREEN ONESCHUK, MD, CCFP

Dr. Doreen Oneschuk graduated from the University of Alberta MD program in 1987. She completed a family medicine residency at the Royal Alexandra Hospital and subsequently worked as a family physician in community practice and with the Northern Alberta Geriatric Rehabilitation Program.

She completed a Palliative Medicine Fellowship in Edmonton in 1995 and in 1996, joined the Regional Palliative Care Program in Edmonton as a palliative medicine physician consultant. In 2000, she moved to the Tertiary Palliative Care Unit at the Grey Nuns Hospital in Edmonton where she continues to work as a full time palliative medicine physician.

Her areas of interest include palliative medicine education and complementary/integrative therapies as applies to cancer and palliative medicine. She co-ordinates the palliative medicine component of the medical undergraduate Oncology Block at the University of Alberta and is involved with the national educational strategy 'Educating Future Physicians in Palliative and End-of-Life Care'. Dr. Oneschuk assumed the position of Postgraduate Residency Program Director in Palliative Medicine in 2006.



DR. YOKO TARUMI

Assistant Clinical Professor

Dr. Tarumi earned her medical degree in 1991 from the Sapporo Medical University, fulfilled residencies in anesthesiology from 1991 to 1994 at the Sapporo Medical University in Japan. She further underwent a clinical fellowship in internal medicine, and then worked as an attending physician at the palliative care unit, Higashi Sapporo Hospital till 1999.

Dr. Tarumi completed a Clinical Research Fellowship in the Division of Palliative Care Medicine, Department of Oncology, University of Alberta from 1999 to June 2002. She has worked as a community consultant in the Capital Health Regional Palliative Care Program and since June 2006 is the Director of the Palliative Care Program at the Royal Alexandra Hospital. She has had a longstanding interest in palliative care and pain management and has published on subjects such as management of cancer pain in older adults, ethics in palliative care, opioid use for pain control and educational issues in palliative medicine in Canada and Japan.



DR. VINCENT THAI

MBBS, MMED (Internal MED) (S), MMED (Fam MED) (S), CCFP (C), MRCP (UK) ABPHM (USA), National University of Singapore, Singapore

Director of Palliative Services, University of Alberta Hospital. Assistant Clinical Professor - Division of Palliative Care Medicine, Department of Oncology, University of Alberta.

Dr Vincent Thai graduated from the National University of Singapore in 1994. Dr Thai has a background in both Family Medicine and Internal Medicine. He obtained his Membership exams from the Royal College of Physicians (United Kingdom) and his Masters of Medicine in both Internal Medicine and Family Medicine in 1999.

Subsequently, Dr Thai proceeded to complete his Fellowship in Palliative Medicine in Edmonton, Canada, in 2002-2003, under the auspices of the University of Alberta. He has worked as a Palliative Physician in the various parts of the Edmonton Regional Palliative Care Program.

Dr Thai is very clinically orientated and is involved in teaching and research activities of the Division of Palliative Care Medicine in the capacity of Assistant Clinical Professor.

Research interest : Sentinel events in prognosticating Palliative Patients, Cardiac Palliative Care, Mixed delirium and dementia disorders



DR. SHARON WATANABE

Associate Professor

Publication and Research Interests: Pain Control, Symptom Assessment, Anorexia-Cachexia and Delivery of Palliative Care Services in a Cancer Centre.

Sharon Watanabe graduated from McGill University in 1988. After training in Internal Medicine and Medical Oncology at the University of Toronto, she completed a fellowship in Palliative Care Medicine at the University of Alberta. She became a staff physician in the Tertiary Palliative Care Unit at the Grey Nuns Community Hospital, and later the Unit's Director. She is now Director of the Department of Symptom Control and Palliative Care at the Cross Cancer Institute.



DR. GARY WOLCH

Assistant Clinical Professor

Dr. Wolch earned his Medical Degree at the University of Alberta in 1993 and completed his Family Medicine Residency at the University of Calgary in 1995. In the following year, he completed fellowships in both Palliative Care and Care of the Elderly at the University of Alberta. Following his training, he served as a Palliative Care Consultant and Clinical Assistant Professor at Calgary's Peter Lougheed Hospital until September 2000, at which time he joined the Department of Medical Oncology at the London Regional Cancer Centre in the role of 'General Practitioner in Oncology'. As of October 2006, he has returned to his roots here at the University of Alberta and joined the Division of Palliative Care Medicine as a Consulting Physician and Assistant Clinical Professor.

Research Studies

Thirty grants have been obtained from various members of the Division of Palliative Care Medicine over the last 5 years. This is an impressive accomplishment as investigators, often regardless of specialty, face formidable challenges in securing adequate support for their research efforts. Historically, Canadian research funding agencies have not provided sustainable funding for research addressing the care of dying patients and their families. Moreover, funding is often sporadic, short term and in the form of limited operating grants.

Fortunately, members of the Division were successful in obtaining funding offered by the Institute of Cancer Research (ICR) through the Palliative and End-of-Life Care Initiative (2004)*. This initiative, others like it and private sector industry have allowed interdisciplinary researchers, who may likely work in isolation, to establish linkages and partnerships among various specialties outside of cancer thus creating comprehensive, integrated clinical initiatives that meet the needs of cancer and non-cancer patients and lead to improved patient centered care supporting the patient and family throughout the disease trajectory.

Division members have also been very successful in establishing “in-kind” collaborations thus furthering research when faced with limited funding options.

Research foci of Division members include:

- Classification system for cancer pain;
- Wasting syndrome associated with advanced malignant disease (cancer cachexia);
- Economics of and access to Palliative & End of Life Care;
- Pain and symptom control;
- Pharmaceutical clinical trials – symptom control;
- Psychosocial support for palliative care patients and their loved ones;
- Palliative Care and the non cancer population – cardiology.

Research funding has been obtained from local, provincial and national agencies. Details on each of these grants can be found on the proceeding page (Table 1.).

<u>ABBREVIATION</u>	<u>AGENCY</u>
AHS-CC	Alberta Health Services: Cancer Corridor
AHW	Alberta Health and Wellness
CADTH	Canadian Agency for Drugs and Technologies in Health
CIHR	Canadian Institutes for Health Research
CPAC	Canadian Partnership Against Cancer
CH	Covenant Health, formerly Caritas Health Group
JRF	Janus Research Fund
NCIC	National Cancer Institute of Canada
NSERC	Natural Sciences and Engineering Research Council of Canada
UAHF	University of Alberta Hospital Foundation

Summary 1. List of funding agencies included in the funding summary and corresponding abbreviations.

* ICR launched this initiative with partners: Heart and Stroke Foundation; Canadian Breast Cancer Research Alliance; Alberta Cancer Board; BC Cancer Agency; CancerCare Manitoba; Health Canada; the National Ovarian Cancer Association; and National Cancer Institute of Canada.

Grants Held: Non-Industry Sponsored

TOTAL = \$14,843,083

Table 1. Non industry sponsored grants:

AGENCY	PERIOD	GRANT TYPE	AMOUNT	TITLE	INVESTIGATORS
AHS – CC	2005 - 2008	Operating Grant	\$375,000	The molecular basis of cachexia in cancer patients	Baracos VE
AHS – CC	2007 - 2009	Operating Grant	\$292,400	Identification and Evaluation of Colorectal Cancer Patient Trajectories from Pre-diagnosis to Death	Winget M, Fassbender K Fields A, Yasui Y
AHS – CC	2006 - 2007	Bridge/Pilot/Limited Term Funding	\$29,792	A Pilot Study of Cancer Patients' Perceived Benefits and Costs of Initial Counseling in a Psycho-Oncology Setting	Nekolaichuk C. , Sela R., Cumming C., Turner P., Jacobs P.
AHS – CC	2005 - 2008	Clinical Trials	\$102,004	A phase II open label study of sublingual methadone for breakthrough pain	Hagen N, S Watanabe , D Moulin
AHW	2009 - 2010	Clinical Telehealth Grant	\$145,000	Expansion Proposal: Virtual Pain and Symptom Control /Palliative Radiotherapy Clinic. (Principal Applicant)	Watanabe S, Fairchild A, Pituskin E, Hoerber M
AHW	2007 - 2009	Clinical Telehealth Grant	\$192,423	Virtual Pain and Symptom Control and Palliative Radiotherapy Clinic	Watanabe S , Fairchild A, Pituskin E, Hoerber M.
CADTH	2007 - 2008	Operating Grant	\$100,000	Protocol for Health Technology Assessment of Granulocyte - colony Stimulating Factor for Interferon-induced Neutropenia in Patients with Chronic Hepatitis C Infection (Project #H0473)	Rowe BH , Doucette K, Tandon P, Dryden DM, Fassbender K , Durec T, Vandermeer B
CADTH	2007 - 2012	Operating Grant - Team. Partners in HTA Program	\$1,000,000	The University of Alberta/Capital Health Evidence-Based Practice Centre	Rowe B, Klassen T, Fassbender K, et al
CADTH	2007 - 2008	Operating Grant - Team	\$121,000	Protocol for Health Technology Assessment of Procedural Sedation and Analgesia in the Emergency Department (Project #428)	Rowe BH, Fassbender K , Bond K, Horton J, Tjosvold L, Vandermeer B
CIHR	2004 - 2009	Strategic Grant - Group Or Area	\$1,303,945	New Emerging Team in Palliative and End of Life Care : CACHEXIA-NET	Baracos VE et al.
CIHR	2005 - 2008	Operating Grant - New	\$201,252	Nutritional modulation of chemotherapy –induced intestinal injury in colorectal cancer treated with irinotecan	Baracos VE
CIHR	2006 - 2008	Operating Grant - New	\$84,000	Is cysteine a conditionally essential amino acid during chronic inflammation?	Baracos VE
CIHR	2007 - 2009	Clinical Trials	\$77,177	A pilot study to explore the role of physical activity as a quality of life intervention in advanced cancer patients	Courneya K, Baracos VE, Watanabe S, Lowe S.
CIHR	2007 - 2009	Operating Grant	\$350,000	Timely Access to End-of-Life Care for Patients with Life-threatening Illness	Lau F, Baracos VE, Fassbender K , Downing GM, Fainsinger RL , Stajduhar KI, Fields AL, deMoissac D
CIHR	2008 - 2011	Operating Grant	\$375,000	Nutritional modulation of antoneoplastic therapy	Baracos VE , Sawyer M., Dieleman L., Field FJ, David M.

AGENCY	PERIOD	GRANT TYPE	AMOUNT	TITLE	INVESTIGATORS
CIHR	2004 - 2009	Research Program Grant	\$1,360,000	A Multidisciplinary Cancer Pain Research Network to Improve the Classification, Assessment and Management of Difficult Cancer Pain (Pain NET)	Hagen N, Fainsinger R , & P. Brasher, G. Cummings C. Cahill R. Cohen D. Moulin R. Spice
CIHR	2006 - 2009	Operating Grant - New	\$128,845	An International Multicentre Validation Study of a Pain Classification System for Advanced Cancer Patients	Fainsinger R., Nekolaichuk C
CIHR	2008 - 2009	Research Development Grant (CIHR)	Subgrant Pain NET	A Multi-Centre Study of Advanced Cancer Patients' Categorizations of Pain Severity	Fainsinger R., Nekolaichuk C
CIHR	2008 - 2009	Research Development Grant (CIHR)	Subgrant Pain NET	Computerized Symptom Assessment and Classification of Pain, Depression and Physical Functioning (Cachexia). Canadian arm of the European Palliative Care Research Collaborative (EPCRC) initiative	Fainsinger R. , Hagen N., Nekolaichuk C. Stiles C.
CIHR	2005 - 2008	Operating Grant	\$359,550	Cost and Quality of Variations in Ambulatory and Home-Based Palliative Care	Coyte PC / Guerriere DN. Fassbender K.
CIHR	2006 - 2008	Operating Grant - New	\$133,896	The Cost of Caring for a Child with a Disability in Canada	Anderson DM, Fassbender K , Dumont S, Jacobs P Tetreault S
CIHR	2007 - 2012	Operating Grant - Team	\$3,306,945	Promoting Equity in Access to Cancer Supportive Care	Doll R, Kazanjian A Fassbender K , Aubin M, Barroetavena MC, Cook SA, Fillion L, Fitch MI, Linden W, Stephen JE, Taylor-Brown JW
CIHR	2004 - 2007	Clinical Trials	\$303,000	OHN-1: a randomized double-blind, parallel-group study comparing olanzapine (Zyprexa) with haloperidol (Novo-peridol) for the relief of nausea and vomiting N&V) in patients with advanced cancer.	Fyles G, P Brasher, Oneschuk D. , P Daeninck, P Gagnon L Galloway, Watanabe S. J Pereira
CIHR	2008 - 2009	Research Development Grant (CIHR)	Subgrant Pain NET	A Multi-Centre Validation Study of Two Numerical Rating Scale Versions of the Edmonton Symptom Assessment System (ESAS) in Palliative Care Patients	Watanabe S., Nekolaichuk C.
CPAC	2008 - 2011	Operating Grant - Team	\$400,000 (preliminary)	Team Networks in Surveillance & Epidemiology	Lau F & Downing M, Baracos V, Fassbender K, Fainsinger RL, et al.
CH & JRF	2005 -	Pilot Project Grant	\$5,600	Randomized Double-Blind, Placebo-controlled trial of docusate for constipation in Palliative Patients.	Spooner R, Tarumi Y , Szafran O
NCIC	2007 - 2009	Operating Grant - Team	\$360,089	Evaluation and measurement of time to care for colorectal cancer patients from pre-diagnosis to death using population-based data sources	Winget M. Fassbender K , Fields A, Yasui Y, Brown S
NCIC	2008 - 2013	Operating Grant - Team	\$3,600,000	Policy & Ethics Research in Cancer Control	Peacock S & Hoch J, Fassbender K , et al.
NSERC	2007 - 2012	Operating Grant - Renewal	\$286,765	Tissue protein metabolism in catabolic states	Baracos VE

AGENCY	PERIOD	GRANT TYPE	AMOUNT	TITLE	INVESTIGATORS
UAHF	2008	Foundation	\$100,000	Cardiac Palliative care: Systematic screening of symptoms, cognition and quality of life in heart failure patients	Thai V , Ezekowitch J,Cujec B.

Grants Held: Industry Sponsored

Table 2. Industry sponsored grants:

AGENCY	PERIOD	GRANT TYPE	AMOUNT	TITLE	INVESTIGATORS
Wyeth-Ayerst Research (US)	2008 -	Clinical Trials	\$81,629 Grant total based on an anticipated accrual of 6 patients	A Randomized, Double-Blind, Placebo-Controlled Study of a Fixed Dose of Subcutaneous Methylaltraxone in Adults with Advanced Illness and Opioid-Induced Constipation: Efficacy, Safety, and Additional Health Outcomes	Oneschuk D, Amigo P., Fainsinger RL, Watanabe S., Lowe S., Fairchild A.
Wyeth-Ayerst Research (US)	2008 -	Clinical Trials	\$31,696.40 Grant total based on anticipated patient accrual of 6 patients	Open-Label Extension Study to Assess the Safety of a Fixed Dose of Subcutaneous Methylaltraxone in Subjects with Advanced Illness and Opioid-Induced Constipation	Oneschuk D, Amigo P., Fainsinger RL
WEX Pharmaceuticals	2008 -	Clinical Trials	\$7863.00 per patient	A multicentre, randomized, double blind, placebo controlled, parallel design trial of the efficacy and safety of subcutaneous tetrodotoxin (Tectin) for moderate to severe inadequately controlled cancer-related pain	Hagen N, Lapointe B, Watanabe S , Lowe S.
WEX Pharmaceuticals	2008 -	Clinical Trials	\$5538.00 for Treatment Cycle 1, \$4544.00 per subsequent Treatment Cycle	A multicentre, open label, long term efficacy and safety continuation study of subcutaneous tetrodotoxin (Tectin) for moderate to severe cancer-related pain	Hagen N, Lapointe B, Watanabe S , Lowe S.
Alberta Breast Cancer Research Initiative	2005 - 2008	Phase II multi-centre, open label, clinical trial	\$102,004.00	Sublingual Methadone for the management of cancer-related breakthrough pain	Hagen N, Watanabe S

Studies: Non Sponsored

Table 3. Non sponsored studies

PERIOD	TITLE	INVESTIGATORS
2008 - ongoing	Clinical Assessment Tools in Predicting Survival of Terminally Ill Patients in Different Palliative Care Settings (Sub-Investigation of 'Timely Access' Study Below)	Thai V & Wolch G
2007 - ongoing	Palliative Prognostic Scale: Prognostication for survival in palliative population	Tarumi Y, Wolch G, Watanabe S, Lau F, Quan H, & Sawchuk L.
2008	Discharging palliative care patients from the cancer centre to the community: the role of telephone communication.	Yeung E, Doyle G, Watanabe S
2008 - ongoing	Comparison between the Constipation Assessment Scale and Plain Abdominal Radiograph in the Assessment of Constipation in Advanced Cancer Patients.	Oneschuk D., Nagaviro K., Yong W.
2007	Incidence and Characteristics of Lower extremity Edema in Advanced Cancer	Mirhosseini M., deKock I.
2007	Administration of Subcutaneous Potassium Infusion in Advanced Cancer Patients	I. deKock, S. Burton-MacLeod, M. Mirhosseini, J. Faily. L. Hagar, M. Bielech
2007	Enhancement of Clinical Palliative Care Through Wireless Technology	deKock I. Mirhosseini M., Quan H
2008	QT interval prolongation with methadone – what to do when methadone has been 'the only thing that works'?	S. Burton-MacLeod, R. Fainsinger, T. Dusang

Publications

2007

1. Biondo PD, **Nekolaichuk CL**, Stiles C, **Fainsinger R**, Hagen NA. Applying the Delphi process to palliative care tool development: lessons learned. *Support Care Cancer*. 2008 Aug;16(8):935-42. Epub 2007 Oct 30.
2. Demeter SJ, Jacobs P, Chmielowiec C, Logus W, Hailey D, Fassbender K, McEwan A. The Cost of Lung Cancer in Alberta, *Canadian Respiratory Journal*, 2007 Mar;14(2):81-86.
3. Dudgeon DJ, Bruera E, Gagnon B, **Watanabe SM**, Allan SJ, Warr DG, MacDonald SM, Savage C, Tu D, Pater JL. A phase III randomized, double-blind, placebo-controlled study evaluating dextromethorphan plus slow-release morphine for chronic cancer pain relief in terminally ill patients. *J Pain Symptom Manage*. 2007 Apr;33(4):365-71.
4. **Faily J, De Kock I, Mirhosseini M, Fainsinger R**. The use of subcutaneous drainage for the management of lower extremity edema in cancer patients. *J Palliat Care*. 2007 Autumn;23(3):185-7.
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11. **Oneschuk D**, Balneaves L, Verhoef M, Boon H, Demmer C, Chiu L. The status of complementary therapy services in Canadian palliative care settings. *Support Care Cancer*. 2007 Aug;15(8):939-47. Epub 2007 Jul 3.
12. Prado CM, **Baracos VE**, McCargar LJ, Mourtzakis M, Mulder KE, Reiman T, Butts CA, Scarfe AG, Sawyer MB. Body composition as an independent determinant of 5-fluorouracil-based chemotherapy toxicity. *Clin Cancer Res*. 2007 Jun 1;13(11):3264-8.
13. Shragge JE, Wismer WV, **Olson KL, Baracos VE**. Shifting to conscious control: psychosocial and dietary management of anorexia by patients with advanced cancer. *Palliat Med*. 2007 Apr;21(3):227-33.
14. **Tarumi Y**. Palliative Care Team in Edmonton Palliative Care Program. In: Namiki Y, Kawamata T. Practical tips for establishing palliative care team. Pp 26-23. Shinkokoeki. Tokyo 2007 (Japanese)
15. **Thai V, Oneschuk D**. Malignant pericardial effusion treated with intrapericardial bleomycin. *J Palliat Med*. 2007 Apr;10(2):281-2.
16. **Thai V, Fainsinger R**. **Book chapter** on Pain Management for Palliative Medicine textbook, *Palliative Care Core Skills and Clinical Competencies*, Edited by W.B. Saunders, Linda Emmanuel, MD, PhD and S. Lawrence Librach, MD, CCFP, FCFP.

17. Walji R, Boon H, Guns E, **Oneschuk D**, Younus J. Black cohosh *Cimicifuga racemosa* [L.] Nutt.): safety and efficacy for cancer patients. *Support Care Cancer*. 2007 Aug;15(8):913-21.
18. Wieland BM, Stewart GD, Skipworth RJ, Sangster K, Fearon KC, Ross JA, Reiman TJ, Easaw J, Mourtzakis M, Kumar V, Pak BJ, Calder K, Filippatos G, Kremastinos DT, Palcic M, **Baracos VE**. Is there a human homologue to the murine proteolysis-inducing factor? *Clin Cancer Res*. 2007 Sep 1;13(17):4984-92.
19. Wilson KG, Chochinov HM, McPherson CJ, Skirko MG, Allard P, Chary S, Gagnon PR, **Macmillan K**, De Luca M, O'Shea F, Kuhl D, **Fainsinger RL**, Karam AM, Clinch JJ. Desire for euthanasia or physician-assisted suicide in palliative cancer care. *Health Psychol*. 2007 May;26(3):314-23.
20. Wilson KG, Chochinov HM, Skirko MG, Allard P, Chary S, Gagnon PR, **Macmillan K**, De Luca M, O'Shea F, Kuhl D, **Fainsinger RL**, Clinch JJ. Depression and anxiety disorders in palliative cancer care. *J Pain Symptom Manage*. 2007 Feb;33(2):118-29.
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22. **Mirhosseini M, deKock I**; Incidence and Characteristics of Lower extremity Edema in Advanced Cancer Patients
23. **Nekolaichuk C, Watanabe S**, Beaumont C. The Edmonton Symptom Assessment System: a 15 year retrospective review of validation studies (1991-2006). 5th Research Forum of the European Association of Palliative Care, Trondheim, Norway, May 29-31, 2008. *Palliat Med* 2008; 22:450.
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1. **Fainsinger RL**, Nekolaichuk C, Lawlor P, et al. An international multicentre validation study of a pain classification system for advanced cancer patients. Free communication session at the 11th Congress of the European Association for Palliative Care, Vienna, Austria, 7th-10th May 2009. *J of the European Association for Palliative Care* 2009; 38.
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Presentations

	2007	2008	2009 (To Date)
Invited Presentations in Canada	17	16	5
Invited Presentations internationally	19	20	8
Presentations to Provincial Palliative & Supportive Care Svcs	19	39	14
Presentations to Industry	1	1	
Local Outreach	30	26	6
Poster presentations	15	21	6

Definitions:

Invited Presentations: Palliative and End of Life Care Conferences

Provincial Palliative & Supportive Care Services: Caritas Research Days, AHS/ Covenant Health Palliative Care Research & Educations Conference, Rounds

Presentations to Industry: Pharmaceutical companies, granting agencies, other

Local Outreach: presentations to non palliative care specialties